

PATENT JOURNAL

INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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PATENTS, TRADE MARKS, DESIGNS AND COPYRIGHT OFFICE

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PATENTS

APPLICATIONS FOR PATENTS

Copies of these specifications cannot be supplied until the applications have been accepted and advertised, or in the case of convention applications, until 18 months from the date of the application in the convention

THE PARTICULARS APPEAR IN THE FOLLOWING SEQUENCE:

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance. The numerical references denote the following: (21) Number of application. (22) Date of application. (DA) Date of acceptance. (51) Class. (71) Name of applicant(s). (72) Name of all inventors. (33) Country. (31) Number and (32) Date of convention application. (54) Title of invention. (00) Number of sheets.

- APPLIED ON 2022/07/25 -

2022/08242 ~ Provisional ~54:DSTV RADIO FM ~71:Thabang Mike Mogane, Stand no 659 Shatale Zone 1, South Africa ~72: Thabang Mike Mogane~

2022/08243 ~ Provisional ~54:DSTV CELLULAR NETWORK ~71:Thabang Mike Mogane, Stand no 659 Shatale Zone 1, South Africa ~72: Thabang Mike Mogane~

2022/08244 ~ Provisional ~54:A SYSTEM AND METHOD OF MANAGING AN INSURANCE SCHEME ~71:THEMBA CYPRIAN YENDE, 63 Plattenburg, Flats 32, Johannesburg, 2198, South Africa ~72: THEMBA CYPRIAN YENDE~

2022/08247 ~ Provisional ~54:ESELFIE DIGITAL BUSINESS CARD SOCIAL MEDIA COMMUNICATIONS PLATFORM 1 ~71:Edward Carney Thwaits, 207 Weltevreden Street, South Africa ~72: Edward Carney Thwaits~ 33:ZA ~31:01 ~32:01/02/2022

2022/08248 ~ Provisional ~54:APP-BASED FIELD WORKER MANAGEMENT BIOMETRIC SYSTEM ~71:Legal, Environmental, and Associated Development CC, 596b Musgrave Road, South Africa ~72: STEAD, Wayne Rowlands;TREBBLE, Grant William~

2022/08250 ~ Complete ~54:A STABLE REUSABLE GRAPHITE CRUCIBLE FOR UPSCALING OF UNSUPPORTED METAL OXIDES ELECTROCATALYSTS VIA A MODIFIED ADAMS FUSION METHOD ~71:University of the Western Cape, Robert Sobukwe Road, South Africa ~72: Cecil FELIX;Sivakumar PASUPATHI;Wafeeq DAVIDS~ 33:GB ~31:GB2110028.4 ~32:12/07/2021

2022/08252 ~ Complete ~54:PRODUCTION METHOD OF HIGH-STRENGTH AND HIGH-MODULUS INDUSTRIAL POLYAMIDE (PA) 66 FILAMENT YARN ~71:PINGDINGSHAN SHENMA TIRE CORD FABRIC DEVELOPMENT CO., LTD, South Of Shahe 3rd Road, Pingdingshan Chemical Industry Cluster, Gongdian Township, Ye County, Pingdingshan City, Henan Province, 467200, People's Republic of China ~72: HE, Yingya;LI, Gaizhen;LI, Xin;LIU, Dongxu;LIU, Xiaoguang;LV, Zhongxin;MA, Jiankun;MENG, Weiku;WANG, Jintao;WU, Qi;WU, Xiao;YANG, Chaoyong;YAO, Ruifen;ZHANG, Hua;ZHANG, Huiyun;ZHANG, Ming~ 33:CN ~31:202111376386.2 ~32:19/11/2021

2022/08253 ~ Complete ~54:TENSION-ASSISTED HEAT SETTING APPARATUS AND PRODUCTION METHOD OF HIGH-MODULUS INDUSTRIAL POLYAMIDE (PA) 66 FILAMENT YARN ~71:PINGDINGSHAN SHENMA TIRE CORD FABRIC DEVELOPMENT CO., LTD, South Of Shahe 3rd Road, Pingdingshan Chemical Industry Cluster, Gongdian Township, Ye County, Pingdingshan City, Henan Province, 467200, People's Republic of China ~72: DU, Jianguo;FAN, Xinchuan;LI, Gaizhen;LI, Xin;LI, Yuanyuan;LIU, Xiaoguang;WANG,

Xiaochuan;WU, Qi;WU, Xiao;WU, Xiaoming;XIONG, Shijie;YANG, Honglin;YAO, Ruifen;ZHANG, Huiyun;ZHANG, Ming;ZHAO, Jinhui;ZHAO, Xiaojie~ 33:CN ~31:202111400778.8 ~32:19/11/2021

2022/08254 ~ Complete ~54:PLANETARY REDUCER WITH HYDRAULIC BRAKE ~71:Hebei Zhikun Precision Transmission Technology Co., Ltd., No. 759 Taihang Street, High-tech Zone, Shijiazhuang City, Hebei Province, 050000, People's Republic of China ~72: BAO, Jinghe;CHEN, Lili;CHI, Shoubin;GENG, Guangbin;GUO, Jianping;ZHANG, Shifeng~ 33:CN ~31:202210079160.4 ~32:24/01/2022

2022/08255 ~ Complete ~54:SYSTEM FOR ESTABLISH METALLOGENIC MODEL OF DEEP POTASSIUM-BEARING BRINE ~71:Qaidam Comprehensive Geological and Mineral Exploration Institute of Qinghai Province, 12 Kunlun South Road, Golmud City, Qinghai Province, People's Republic of China;Qinghai Provincial Key Laboratory of Salt Lake Resources Exploration and Research in Qaidam Basin, 12 Kunlun South Road, Golmud City, Qinghai Province, People's Republic of China ~72: HAN Guang;JIA Jiantuan;LI Dongsheng;LI Hongpu;PAN Tong;YUAN Wenhu;ZHAO Yuxiang~

2022/08260 ~ Complete ~54:METHOD FOR PREPARING BANANA STRAW NANOCELLULOSE BY HIGH-SPEED WATER JET ~71:AGRICULTURAL PRODUCTS PROCESSING RESEARCH INSTITUTE, CHINESE ACADEMY OF TROPICAL AGRICULTURAL SCIENCES, No. 48, Renmin Avenue South, Xiashan District, Zhanjiang City, Guangdong Province, 524001, People's Republic of China ~72: LI, Jihua;LI, Te;WANG, Fei;WANG, Hui;XI, Jiamin;XIA, Wen;ZHANG, Qihui;ZHUANG, Zhikai~

2022/08262 ~ Complete ~54:TEST DEVICE FOR EARLY CRACK RESISTANCE OF CONCRETE ~71:Shanxi road and Bridge Group Xiji Expressway Co., Ltd, Qianjiazhuang village, Chengnan Township, Xi county, Linfen City, Shanxi Province, People's Republic of China ~72: Meng zebin~

2022/08268 ~ Complete ~54:A KIND OF AUTOMATIC PRESSURE - SHARING SPRAY DUST - REDUCING DEVICE IN COAL MINE ~71:Guizhou University, Huaxi District, Guiyang, Guizhou Province, 550025, People's Republic of China ~72: Hong Lan;Jin Xu;Lulin Zheng;Qing Qiu;Rongfang Yuan;Ruipeng Li;Zhonglin Chen~ 33:CN ~31:202221718179.0 ~32:04/07/2022

2022/08272 ~ Complete ~54:COMBINATION OF BI853520 WITH CHEMOTHERAPEUTIC DRUGS ~71:INXMED (NANJING) CO., LTD., Floor 3, Building 16-D-2, No.73 Shuwu, Tanmi Road, Jiangbei New District, Nanjing, Jiangsu, 210061, People's Republic of China ~72: JIANGWEI ZHANG;ZAIQI WANG~ 33:CN ~31:202010080757.1 ~32:05/02/2020

2022/08273 ~ Complete ~54:A SOAP COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DANIEL DARIN PONTE;RAFAEL ASTOLFI;SERGIO ROBERTO LEOPOLDINO;YURIY KONSTANTINOVICH YAROVOY~ 33:EP ~31:20158508.0 ~32:20/02/2020

2022/08279 ~ Complete ~54:CHARGING SYSTEM FOR SWAPPING STATION OR ENERGY STORAGE STATION ~71:AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP, Block 1, Room 606, No. 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou, Guangdong, 510700, People's Republic of China;SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., Building 1, No.4766, Jiangshan Road, Nicheng Town, Pudong New Area Shanghai, 201308, People's Republic of China ~72: BING LIU;JIANPING ZHANG;ZHIMIN CHEN~ 33:CN ~31:201911370518.3 ~32:26/12/2019

2022/08280 ~ Complete ~54:ANTIBODY MOLECULES TO C5AR1 AND USES THEREOF ~71:VISTERRA, INC., 275 2nd Avenue, United States of America ~72: BABCOCK, Gregory;BOOTH, Brian;RAMAKRISHNAN, Boopathy;SHRIVER, Zachary;VISWANATHAN, Karthik;WOLLACOTT, Andrew~ 33:US ~31:62/960,544 ~32:13/01/2020

2022/08281 ~ Complete ~54:CIRCULAR PARALLEL PLATE GRIT REMOVER ~71:Smith & amp; Loveless Inc., 14040 Santa Fe Trail Drive, LENEXA 66215, KS, USA, United States of America ~72: DEJU, Lilunnahar;KELLY, John K.;MRKVICKA, Rodney S.;ZUZELSKI, Alexander P.~ 33:US ~31:63/028,343 ~32:21/05/2020

2022/08286 ~ Complete ~54:WHEAT TRANSGENIC EVENT IND-ØØ412-7 ~71:Bioceres LLC, 1209 Orange Street, WILMINGTON 19801, DE, USA, United States of America ~72: AYALA, Francisco;DEZAR, Carlos;MIRANDA, Patricia;VÁZQUEZ, Martin;WATSON, Gerónimo~

2022/08288 ~ Complete ~54:LIGHTED ELECTROCAUTERY BLADE ASSEMBLY FOR HANDHELD ELECTROSURGICAL INSTRUMENT ~71:Pathy Medical, LLC, 1000 Bridgeport Avenue, Suite 400, SHELTON 06484, CT, USA, United States of America ~72: KLEYMAN, Gennady;PATHY, Vinod V.;SILVER, Mikiya~ 33:US ~31:16/739,374 ~32:10/01/2020

2022/08293 ~ Complete ~54:EXTENDED RELEASE PLASTIC FORMULATION ~71:WANKA TANKA LTD., 8 Hasadna, Beit Shean Industrial Zone 1173836, Israel ~72: VARDI, Amnon~ 33:US ~31:62/955,461 ~32:31/12/2019

2022/08259 ~ Complete ~54:NOVEL LIGHTWEIGHT CONCRETE WITH PURIFICATION FUNCTION AND PREPARATION METHOD THEREOF ~71:Beihua University, 3999 Binjiang East Road, Jilin City, Jilin Province, People's Republic of China ~72: JIAN Zhenpeng;WANG Jian;WANG Xianli;YANG Xujiao;ZHAO Huan~

2022/08285 ~ Complete ~54:SENSOR PART FOR INSTALLATION IN MEDIUM-VOLTAGE CABLE COMPARTMENTS AND A DEVICE FOR MEASURING A VOLTAGE IN MEDIUM-VOLTAGE CIRCUITS COMPRISING SUCH SENSOR PART ~71:Eaton Intelligent Power Limited, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72: BHUTADA, Pradeep;LAMMERS, Adri;MORSKIEFT, Elisabeth;RAJWADE, Yogesh;SHIRSATH, Tejaswini Shirsath;VAN DEN BOGAARD, Wilhelmus~ 33:IN ~31:201911054653 ~32:31/12/2019;33:GB ~31:2002169.7 ~32:18/02/2020

2022/08291 ~ Complete ~54:DEWATERING SYSTEM ~71:Weir Minerals Netherlands B.V., Egtenrayseweg 9, PH VENLO 5928, THE NETHERLANDS, Netherlands ~72: KRUYSWIJK, Jacob;VAN RIJSWICK, Rudolfus~ 33:GB ~31:2001698.6 ~32:07/02/2020

2022/08245 ~ Provisional ~54:NUTRACEUTICALS ~71:GROKLUB (PTY) LTD, 26 GEMINI ROAD, GROOT BRAKRIVIER, 6525, SOUTH AFRICA, South Africa ~72: GROSVENOR, Stephanie, Tonya;GROSVENOR, Wesley, James~

2022/08251 ~ Complete ~54:NOTE RECOGNITION METHOD BASED ON DEEP LEARNING ~71:Liaoning Technical University, No. 188, Longwan South Street, People's Republic of China ~72: JIN, Haibo;SHANG, Siyu;ZHANG, Yusen~

2022/08256 ~ Complete ~54:AN INTERNET OF THINGS METHOD FOR COMPLEX IMAGE LABEL RECOGNITION ~71:China University of Geosciences, Beijing, China University of Geosciences, Beijing, 29 Xueyuan Road, Haidian District, Beijing City, 100083, People's Republic of China ~72: Xinyue Zhang~

2022/08263 ~ Complete ~54:OPERATION HOOK DEVICE FOR HEPATOBILIARY SURGERY ~71:First Affiliated Hospital of Jinzhou Medical University, No. 2, section 5, Renmin Street Guta District, Jinzhou, People's Republic of China ~72: Ge XinYu;Li Qing;Wang TianYi;Wang Wei;Wang XiMin;Yang Tao~

2022/08267 ~ Complete ~54:EMULSIFICATION SYSTEM ~71:COZZINI LLC, 2567 Greenleaf Avenue, Elk Grove Village, Illinois, 60007, United States of America ~72: EDWIN EARL KING;MICHAEL E BURNS~ 33:US ~31:63/325,764 ~32:31/03/2022;33:US ~31:63/342,848 ~32:17/05/2022

2022/08275 ~ Complete ~54:APPLICATOR ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, United Kingdom ~72: ABHISHEK BM FERNANDES;ALAGIRISAMY NETHAJI;RAVIPRAKASH JAYARAMAN~ 33:IN ~31:202021005980 ~32:12/02/2020;33:EP ~31:20166794.6 ~32:30/03/2020

2022/08278 ~ Complete ~54:PSILOCIN DERIVATIVES AS SEROTONERGIC PSYCHEDELIC AGENTS FOR THE TREATMENT OF CNS DISORDERS ~71:MINDSET PHARMA INC., 217 Queen Street West, Suite 401 Toronto, Ontario, M5V 0R2, Canada ~72: ABDELMALIK SLASSI;JOSEPH ARAUJO~ 33:US ~31:62/969,934 ~32:04/02/2020

2022/08258 ~ Complete ~54:AN INSTRUMENT DISINFECTION DEVICE DESIGNED FOR ANESTHESIOLOGY DEPARTMENT ~71:Hwa Mei Hospital, University of Chinese Academy of Sciences, 41 Northwest Street, Haishu District, Ningbo City, Zhejiang Province, 315099, People's Republic of China ~72: Wanquan Qu~ 33:CN ~31:202220081798.7 ~32:10/01/2022

2022/08265 ~ Complete ~54:INTELLIGENT ENVIRONMENT MONITORING METHOD, DEVICE, ELECTRONIC DEVICE AND STORAGE MEDIUM ~71:CHINA CONSTRUCTION SECOND ENGINEERING BUREAU SHENZHEN CONSTRUCTION INVESTMENT DEVELOPMENT CO., LTD., Room 2407-08, Chuangtou Mansion, No.9 Tengfei Road, Longgang District, Shenzhen, 518100, People's Republic of China;THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, 165 Haihutun, Yongdingmenwai, Fengtai District, Beijing, 100176, People's Republic of China ~72: BAO JIN;BO LI;FEISHENG ZHAO;SHEN QIAO;WEI LI;YAQUAN DENG;YONGBIN HAN;YUAN MA~ 33:CN ~31:202111222830.5 ~32:20/10/2021

2022/08277 ~ Complete ~54:PSILOCIN DERIVATIVES AS SEROTONERGIC PSYCHEDELIC AGENTS FOR THE TREATMENT OF CNS DISORDERS ~71:MINDSET PHARMA INC., 217 Queen Street West, Suite 401 Toronto, Ontario, M5V 0R2, Canada ~72: ABDELMALIK SLASSI;JOSEPH ARAUJO~ 33:US ~31:62/969,934 ~32:04/02/2020

2022/08282 ~ Complete ~54:METHODS OF TREATING CONDITIONS RELATED TO THE S1P1 RECEPTOR ~71:Arena Pharmaceuticals, Inc., 6154 Nancy Ridge Drive, SAN DIEGO 92121, CA, USA, United States of America ~72: AHLUWALIA, Gurpreet;CROSBY, Catherine M.;SELFRIDGE, Andrew Christopher Wesley~ 33:US ~31:62/957,535 ~32:06/01/2020

2022/08290 ~ Complete ~54:METHOD FOR ENHANCED DETERMINATION OF ANALYTE CONCENTRATION IN BODILY FLUID ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BERG, Max;HAILER, Fredrik;LIMBURG, Bernd~ 33:EP ~31:20157055.3 ~32:13/02/2020

2022/08257 ~ Complete ~54:CIRCRNA RELATED TO SHEEP FAT AND USE THEREOF ~71:Institute of Animal Sciences of Chinese Academy of Agricultural Sciences, Nongda South Road, No. 2 Yuanmingyuan West Road, Haidian District, Beijing, 100193, People's Republic of China ~72: FENG, Hui;LI, Ai;LIU, Tianyi;MIAO, Xiangyang;XIE, Lingli~

2022/08264 ~ Complete ~54:CELL PENETRATING ANTIBODIES ~71:CITY OF HOPE, 1500 E. Duarte Road, Duarte, California, 91010-3000, United States of America ~72: ANDREAS HERRMANN;HUA YU~ 33:US ~31:62/104,653 ~32:16/01/2015

2022/08266 ~ Complete ~54:EXPANDABLE ENVIRONMENTAL CONTROL UNIT ~71:AAR MANUFACTURING, INC., 1100 N. Wood Dale Road, Wood Dale, Illinois, 60191, United States of America ~72: DEREK P ESSO~ 33:US ~31:17/385,306 ~32:26/07/2021

2022/08284 ~ Complete ~54:SUPER ABSORBENT POLYMER AND A PESTICIDE ~71:UPL Limited, UPL House, 610 B/2, off Western Express Highway, Bandra Village, Bandra (East), MUMBAI 400051, MAHARASHTRA, INDIA, India ~72: SARKAR, Prasun;SHIRSAT, Rajan Ramakant;WAGH, Pradip Dattatray~ 33:IN ~31:201921053997 ~32:26/12/2019

2022/08249 ~ Provisional ~54:INLINE FILTER/TRAP ~71:JJS STEYN, 135 WOBURN AVENUE, South Africa ~72: JJS STEYN~

2022/08274 ~ Complete ~54:METHOD AND APPARATUS FOR PUSHING SUBSCRIPTION DATA IN INTERNET OF THINGS, DEVICE AND STORAGE MEDIUM THEREOF ~71:ENVISION DIGITAL INTERNATIONAL PTE. LTD., 1 Harbourfront Avenue, #17-01 Keppel Bay Tower, Singapore, 098632, Singapore;SHANGHAI ENVISION DIGITAL CO., LTD., No. 15, Lane 55, Chuanhe Road China (Shanghai), Pilot Free Trade Zone, Shanghai, People's Republic of China ~72: XIAOMIN ZHOU;YUANYUAN XIA~ 33:CN ~31:201911370689.6 ~32:26/12/2019

2022/08289 ~ Complete ~54:COMPOSITIONS USEFUL FOR TREATING GM1 GANGLIOSIDOSIS ~71:The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: HINDERER, Christian;KATZ, Nathan;WILSON, James M.~ 33:US ~31:62/969,142 ~32:02/02/2020;33:US ~31:63/007,297 ~32:08/04/2020;33:US ~31:63/063,119 ~32:07/08/2020

2022/08270 ~ Complete ~54:HAIR COMB AND APPLICATOR DEVICE ~71:MYANA NATURALS LIMITED, 106 Emlyn Road, Swansea Wales, United Kingdom ~72: MOUHAMAD, Youmna~ 33:GB ~31:2001335.5 ~32:31/01/2020

2022/08271 ~ Complete ~54:HIGHWAYS AND ROADS LIGHTING ~71:ABRASH, Mohammad Fawaz, Alkayal Street Building No. 35, Alrawdha Dist., Saudi Arabia ~72: ABRASH, Mohammad Fawaz~ 33:IB ~31:PCT/IB2020/000010 ~32:14/01/2020

2022/08276 ~ Complete ~54:3-PYRROLIDINE-INDOLE DERIVATIVES AS SEROTONERGIC PSYCHEDELIC AGENTS FOR THE TREATMENT OF CNS DISORDERS ~71:MINDSET PHARMA INC., 217 Queen Street West, Suite 401 Toronto, Ontario, M5V 0R2, Canada ~72: ABDELMALIK SLASSI;JOSEPH ARAUJO~ 33:US ~31:62/969,894 ~32:04/02/2020

2022/08283 ~ Complete ~54:BIOMARKERS FOR DIAGNOSING OVARIAN CANCER ~71:Venn Biosciences Corporation, Two Tower place, 5th floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: SERIE, Daniel;SHEN, Ling;XU, Gege;XU, Hui~ 33:US ~31:62/968,941 ~32:31/01/2020

2022/08241 ~ Provisional ~54:MULTICHANNEL ATM BANKING SOLUTION ~71:Thabang Mike Mogane, Stand no 659 Shatale Zone 1, South Africa ~72: Thabang Mike Mogane~

2022/08246 ~ Provisional ~54:LINKING RETINA HEALTH ASSESSMENT AND DIAGNOSIS RESULTS TO A SMART PHONE BRAND HEALTH APP AND OR ANY SMART PHONE HEALTH APPLICATION (APP) ~71:Njabulo Nzimande, 153 Walton Ave, Carlswald, , Unit 1 Umthunzi Views, Midrand, 1686 , Johannesburg, , South Africa ,, South Africa ~72: Njabulo Nzimande~

2022/08261 ~ Complete ~54:ANTEROPOSTERIOR DISINFECT AND WASHING DEVICE FOR GENERAL SURGERY DEPARTMENT ~71:First Affiliated Hospital of Jinzhou Medical University, No. 2, section 5, Renmin Street Guta District, Jinzhou, People's Republic of China ~72: Ge XinYu;Li Qing;Wang TianYi;Wang Wei;Wang XiMin;Yang Tao~

2022/08287 ~ Complete ~54:ESCHERICHIA COLI COMPOSITIONS AND METHODS THEREOF ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: DONALD, Robert G. K.;PAN, Rosalind~ 33:US ~31:62/980,433 ~32:23/02/2020;33:US ~31:63/144,058 ~32:01/02/2021

2022/08292 ~ Complete ~54:EXTENDED RELEASE PLASTIC FORMULATION ~71:WANKA TANKA LTD., 8 Hasadna, Beit Shean Industrial Zone 1173836, Israel ~72: VARDI, Amnon~ 33:US ~31:62/955,461 ~32:31/12/2019

- APPLIED ON 2022/07/26 -

2022/08336 ~ Complete ~54:GRAPHICAL USER INTERFACE SYSTEM ~71:Methodical Mind, LLC., 1601 Research Blvd., ROCKVILLE 20850, MD, USA, United States of America ~72: CHRISTIANSEN, Bradley;CONG, Xinri;PRABHU, Arvind;VOCK, Michael;WOHLSTADTER, Jacob~ 33:US ~31:62/954,052 ~32:27/12/2019

2022/08346 ~ Complete ~54:METHOD AND APPARATUS FOR PREDICTING POWER CONSUMPTION, DEVICE AND READIABLE STORAGE MEDIUM ~71:ENVISION DIGITAL INTERNATIONAL PTE. LTD., 1 Harbourfront Avenue, #17-01 Keppel Bay Tower, Singapore, 098632, Singapore;SHANGHAI ENVISION DIGITAL CO., LTD., No. 15, Lane 55, Chuanhe Road China (Shanghai), Pilot Free Trade Zone, Shanghai, People's Republic of China ~72: QI CHENG~ 33:CN ~31:201911405459.9 ~32:31/12/2019

2022/08351 ~ Complete ~54:SAFETY SWITCHES FOR REGULATION OF GENE EXPRESSION ~71:SANA BIOTECHNOLOGY, INC., 188 East Blaine Street, Suite 400, Seattle, Washington, 98102, United States of America ~72: ANDREW MAY;ELEONORE THAM;GREG HOFFMAN;RYAN CLARKE~ 33:US ~31:62/962,730 ~32:17/01/2020;33:US ~31:62/962,739 ~32:17/01/2020;33:US ~31:62/962,764 ~32:17/01/2020

2022/08355 ~ Complete ~54:MANUFACTURING DEVICE OF SILAGE FODDER SPECIAL FOR MEAT-TYPE DONKEYS AND PREPARATION METHOD THEREOF ~71:SHANDONG ANIMAL HUSBANDRY STATION, NO. 4566 TANGYE WEST ROAD, People's Republic of China ~72: BAI, Shanshan;HU, Hongjie;JIANG, Huixin;LI, Mengmeng;LIU, Yuhan;ZHANG, Demin;ZHANG, Shuer~

2022/08356 ~ Complete ~54:ARTIFICIAL INSEMINATION METHOD FOR IMPROVING CONCEPTION RATE OF FEMALE DONKEY ~71:SHANDONG ANIMAL HUSBANDRY STATION, NO. 4566 TANGYE WEST ROAD, People's Republic of China ~72: BAI, Shanshan;HU, Hongjie;JIANG, Huixin;LI, Mengmeng;LIU, Yuhan;ZHANG, Demin;ZHANG, Shuer~

2022/08353 ~ Provisional ~54:MI-SYNC PERPETUAL WASHING MACHINE ~71:Xolani Nkabinde, 67 Sunningdale Drive, Kibler Park,, South Africa ~72: Xolani Nkabinde~

2022/08426 ~ Provisional ~54:CAMPUS LOCATE ~71:Sive Motha, C835 Driziek 10, South Africa;Thabiso Khumalo, C835 Driziek 10, South Africa ~72: Sive Motha;Thabiso Khumalo~

2022/08301 ~ Complete ~54:CYBER ATTACK PREVENTION SYSTEM FOR AUTOMOTIVE SYSTEM BASED ON ARTIFICIAL INTELLIGENCE ~71:Dr.Shabana Mehfuz, Professor, Department of Electrical Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia (A Central University), New Delhi, India;Dr.Shabana Urooj, Associate Professor, Department of Electrical Engineering, College of Engineering at Princess, Nourah bint Abdulrahman University, Po.Box:11671, Saudi Arabia;Dr.Sonam Lata, Assistant Professor, Department of Electronics and Communication Engineering, ADGITM, New Delhi, India;Mr.Shahnawaz Ahmad, Assistant Professor, Department of Computer Science and Engineering, Mewat Engineering College (WAKF), Palla, Nuh, Mewat, India;Ms.Farhana Mariyam, Research Scholar, Department of Electrical Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia (A Central University), New Delhi, India ~72: Dr.Shabana Mehfuz;Dr.Shabana Urooj;Dr.Sonam Lata;Mr.Shahnawaz Ahmad;Ms.Farhana Mariyam~

2022/08303 ~ Complete ~54:SINGLE BUTTON START-STOP OPERATION TYPE ELECTRIC HOIST CONTROL CIRCUIT ~71:Zhang Denghong, No. 1 Xiangwang Road, Gulou District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Sun Jinhai;Yu Xinming;Zhou Tianpei~

2022/08317 ~ Complete ~54:BREEDING METHOD FOR HOLSTEIN BULLOCKS FOR PRODUCING MARBLING BEEF ~71:INSTITUTE OF ANIMAL HUSBANDRY, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, People's Republic of China ~72: BU, Ye;LIU, Li;SUI, Xinxin;SUN, Fang;WEI, Ziheng;XU, Shanshan;ZHANG, Siqi;ZHAO, He;ZHAO, Xiaochuan~

2022/08326 ~ Complete ~54:COATED ARTICLE COMPRISING PROTECTIVE OVERCOAT LAYERS MADE FROM TITANIUM ZIRCONIUM HAFNIUM NITRIDE AND CARBON ~71:SAINT-GOBAIN GLASS FRANCE, 18, Avenue d'Alsace, France ~72: COHIN, Yann;DHANDHARIA, Priyesh;MISRA, Soumyadeep~ 33:IN ~31:202041004908 ~32:04/02/2020

2022/08334 ~ Complete ~54:AN AQUEOUS INSECTICIDAL COMPOSITION AND METHODS OF USE THEREOF ~71:Valent U.S.A. LLC, 4600 Norris Canyon Road, SAN RAMON 94583, CA, USA, United States of America ~72: LIU, Jane;XU, Tong~ 33:US ~31:62/966,150 ~32:27/01/2020

2022/08339 ~ Complete ~54:ANTI-LAG3 MONOCLONAL ANTIBODY, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:SHANGHAI HENLIUS BIOPHARMACEUTICAL CO., LTD., Building 1 (Building D), No. 1289, Yishan Road, Xuhui District, People's Republic of China;SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No.222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong District, People's Republic of China ~72: HE, Honglin;JIANG, Wei-Dong;SONG, Ge;XIAO, Hui;XU, Xu~ 33:CN ~31:202010069008.9 ~32:21/01/2020

2022/08341 ~ Complete ~54:ARRANGEMENT AND METHOD FOR PRETREATMENT OF BIOMASS ~71:SEKAB E-TECHNOLOGY AB, Box 286, 891 26, Örnsköldsvik, Sweden ~72: ADNAN CAVKA;ANDERS SJÖBLOM;ELIAS SUNDVALL~ 33:EP ~31:20155121.5 ~32:03/02/2020

2022/08345 ~ Complete ~54:PRETREATMENT ARRANGEMENT COMPRISING A SLUICE VESSEL ~71:SEKAB E-TECHNOLOGY AB, Box 286, 891 26, Örnsköldsvik, Sweden ~72: ADNAN CAVKA;ANDERS SJÖBLOM;ELIAS SUNDVALL~ 33:EP ~31:20155113.2 ~32:03/02/2020

2022/08347 ~ Complete ~54:METHOD AND APPARATUS FOR RECOGNIZING OPERATING STATE OF PHOTOVOLTAIC STRING AND STORAGE MEDIUM ~71:ENVISION DIGITAL INTERNATIONAL PTE. LTD., 1 Harbourfront Avenue, #17-01 Keppel Bay Tower, Singapore, 098632, Singapore;SHANGHAI ENVISION DIGITAL CO., LTD., No. 15, Lane 55, Chuanhe Road China (Shanghai), Pilot Free Trade Zone, Shanghai, People's Republic of China ~72: HUIRONG JIANG;JIE SUN;JING CHANG;JINLIN YANG;KANG JIAN;ZHOUSHENG LI~ 33:CN ~31:202010022031.2 ~32:09/01/2020

2022/08350 ~ Complete ~54:APPARATUS AND PROCESS FOR MAKING ACID-DOPED PROTON EXCHANGE MEMBRANES ~71:BLUE WORLD TECHNOLOGIES HOLDING APS, Langerak 15A, 9220, Aalborg Øst, Denmark ~72: DENYS GROMADSKYI;JAKOB BORK;LARYSA HROMADSKA;MADS BANG~ 33:DK ~31:PA 2020 00062 ~32:20/01/2020

2022/08300 ~ Complete ~54:TREATMENT OF METABOLIC DISORDERS IN EQUINE ANIMALS ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: JOHNSTON, Laura;MOHREN, Nicole;REICHE, Dania Birte;SOMERVILLE, Bruce;VOTH, Rebecca K.~ 33:EP ~31:14162983.2 ~32:01/04/2014;33:EP ~31:14176714.5 ~32:11/07/2014;33:EP ~31:14187223.4 ~32:01/10/2014

2022/08310 ~ Complete ~54:MACHINING PROCESS FOR LARGE-DIAMETER THICK-WALLED STAINLESS STEEL PIPE FITTINGS UNDER HIGH PRESSURE WITH HYDROGEN PRESENT ~71:Hebei Hengtong Pipe Fittings Group Co.,Ltd, Houhan Village, Hanji Town, Yanshan County, Cangzhou City, Hebei Province, People's Republic of China ~72: Lianxin HAN;Lizhu JI;Yanqing JI~

2022/08316 ~ Complete ~54:COAXIAL INJECTION NEEDLE TUBE FOR ELECTROSTATIC SPINNING ~71:HUNAN INSTITUTE OF ENGINEERING, NO. 88, FUXING EAST ROAD, People's Republic of China ~72: HE, Bin;ZHANG, Xiaoye~

2022/08322 ~ Complete ~54:METHOD FOR OBTAINING AND SENDING USER-DIFFERENTIATED INFORMATION IN COMMUNICATION NETWORKS ~71:UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR), Avenida de la Paz 137,, Spain ~72: Daniel BURGOS SOLANS~

2022/08323 ~ Complete ~54:THERAPEUTIC MOLECULES FOR COMBATING SEPSIS ~71:CENTRE FOR CELLULAR AND MOLECULAR PLATFORMS, GKVK Post, Bellary Road, Bengaluru Karnataka, India ~72: PANDA, Santosh;PATEL, Paresh, Brijalal;RAVINDRAN, Balachandran;SAIYED, Taslimarif~ 33:IN ~31:201941053971 ~32:26/12/2019

2022/08328 ~ Complete ~54:CANCER TREATMENT METHOD AND MEDICINE ~71:ZERIA PHARMACEUTICAL CO., LTD., 10-11, Nihonbashi Kobuna-cho, CHUO-KU 1038351, TOKYO, JAPAN, Japan ~72: HORII, Takayuki;KOBAYASHI, Kunihiko~ 33:JP ~31:2019-238657 ~32:27/12/2019;33:JP ~31:2020-171493 ~32:09/10/2020

2022/08296 ~ Provisional ~54:BACKED CRYPTO TOKEN ~71:Tofara Moyo, 5 Protea Lane Newton west, Zimbabwe ~72: Tofara Moyo~

2022/08298 ~ Provisional ~54:SYNTHESIS OF DOMAIN FREE SINGLE LAYER GRAPHENE SHEETS ~71:Buntu Sithole, 43 Blackstone estate, Brackenfell, South Africa ~72: Buntu Sithole~

2022/08299 ~ Complete ~54:TREATMENT OF METABOLIC DISORDERS IN CANINE ANIMALS ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: KLEY, Saskia;REICHE, Dania Birte~ 33:EP ~31:14152327.4 ~32:23/01/2014;33:EP ~31:14186477.7 ~32:25/09/2014

2022/08307 ~ Complete ~54:A STABILISING ASSEMBLY ~71:NELL, Johannes, 471 QUEENS CRESCENT, LYNNWOOD, PRETORIA, 0081, South Africa ~72: NELL, Johannes~ 33:ZA ~31:2021/02764 ~32:26/04/2021

2022/08309 ~ Complete ~54:LONG-DISTANCE PAVEMENT STRUCTURAL SETTLEMENT MONITORING METHOD COMBINING DISTRIBUTED OPTICAL FIBER SENSING TECHNOLOGY AND PARAMETER INVERSE ANALYSIS ~71:Lanzhou University, No. 222, Tianshui South Road, Chengguan District, Lanzhou City, Gansu Province, People's Republic of China ~72: Chen Cong;LV Qingfeng;Wang Huaping;Wu Yibin;Zhang Huyuan~

2022/08311 ~ Complete ~54:MULTISTAGE RUBBER POWDER CRUSHING METHOD AND DEVICE ~71:Mianyang Ruiyang New Material Technology Development Co., Ltd., No. 1 Sanjiang Road, Youxian Economic Development Zone, Mianyang, Sichuan Province, People's Republic of China ~72: Wang Duoxiao~

2022/08315 ~ Complete ~54:COMPUTER-IMPLEMENTED METHOD FOR MONITORING THE EXPIRATION DATES OF GENETICALLY MODIFIED ORGANISM PRODUCTS, AND SYSTEM IMPLEMENTING THE SAME ~71:UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR), Avenida de la Paz 137,, Spain ~72: BURGOS SOLANS Daniel;SAN JOSÉ DEL AMO José Carlos~ 33:EP ~31:21382936.9 ~32:18/10/2021 2022/08321 ~ Complete ~54:PROCESS FOR GENERATING AND SENDING RECOMMENDATIONS TO USERS OF A PROPRIETARY WEB CONTENT MANAGER SYSTEM AND A PLURALITY OF THIRD-PARTY SERVICES ~71:UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR), Avenida de la Paz 137,, Spain ~72: Alberto CORBI BELLOT;Daniel BURGOS SOLANS~

2022/08324 ~ Complete ~54:SEPARATION AND VENTING CRYOGENIC LIQUID FROM VAPOR ON A MOBILE MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: BEVARD, Brian M.;ENGFEHR, Matthew Jordan;NATARAJAN, Manikandan;PERKO, Joshua;SAMSEL, Derek;ZEHRUNG, Roderick S.~ 33:US ~31:16/777,374 ~32:30/01/2020

2022/08335 ~ Complete ~54:METHOD FOR THE PREPARATION OF A WORKING ELECTRODE COMPRISING LASER IRRADIATION OF THE SENSING MATERIAL AND CORRESPONDING ANAYLTE SENSOR ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: HOCHMUTH, Gernot;SLIOZBERG, Kirill;STECK, Alexander~ 33:EP ~31:20162941.7 ~32:13/03/2020

2022/08338 ~ Complete ~54:ROTARY CRUSHING MACHINE, AND BEARING ABNORMALITY DETECTING METHOD FOR ROTARY CRUSHING MACHINE ~71:KABUSHIKI KAISHA EARTHTECHNICA, 2-4, Kandajinbo-cho, Chiyoda-ku, Japan ~72: KOGA, Akimasa~ 33:JP ~31:2019-238826 ~32:27/12/2019

2022/08348 ~ Complete ~54:METHOD AND APPARATUS FOR AUTHORITY CONTROL, COMPUTER DEVICE AND STORAGE MEDIUM ~71:ENVISION DIGITAL INTERNATIONAL PTE. LTD., 1 Harbourfront Avenue, #17-01 Keppel Bay Tower, Singapore, 098632, Singapore;SHANGHAI ENVISION DIGITAL CO., LTD., No. 15, Lane 55, Chuanhe Road China (Shanghai), Pilot Free Trade Zone, Shanghai, People's Republic of China ~72: YUN XIE~ 33:CN ~31:202010022017.2 ~32:09/01/2020

2022/08333 ~ Complete ~54:PELARGONIC ACID-BASED HERBICIDE COMPOSITIONS ~71:Novamont S.p.A., Via G. Fauser 8, NOVARA 28100, ITALY, Italy ~72: CAPUZZI, Luigi;CIANCOLINI, Anna;SAGLIANO, Angela~ 33:IT ~31:102020000003635 ~32:21/02/2020

2022/08342 ~ Complete ~54:EDITOR FOR GENERATING COMPUTATIONAL GRAPHS ~71:AB INITIO TECHNOLOGY LLC, 201 Spring Street, Lexington, Massachusetts, 02421, United States of America ~72: GARTH DICKIE;IAN SCHECHTER~ 33:US ~31:62/966,768 ~32:28/01/2020

2022/08343 ~ Complete ~54:DAPTOMYCIN FORMULATION ~71:XELLIA PHARMACEUTICALS APS, Dalslandsgade 11, 2300, København S, Denmark ~72: BARBARA FUMIC~ 33:US ~31:62/982,945 ~32:28/02/2020

2022/08352 ~ Complete ~54:POST CONSUMER RESIN PACKAGING ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: LEE DEWSON;YUVESVERI NAIDOO~ 33:EP ~31:20154461.6 ~32:30/01/2020

2022/08294 ~ Provisional ~54:THE AMAZING RACE MZANSI (TV SHOW) ~71:Thabang Mike Mogane, Stand no 659 Shatale Zone 1, South Africa ~72: Thabang Mike Mogane~

2022/08297 ~ Provisional ~54:PEDAL MECHANISM FOR A SCOOTER ~71:AUGUSTO, Joaquim, Unit 27 Beverley Hills, 6 Beverley Avenue, BASSONIA, Johannesburg 2190, Gauteng, SOUTH AFRICA, South Africa ~72: AUGUSTO, Joaquim~

2022/08304 ~ Complete ~54:MINING LIMIT DETERMINING METHOD AND SYSTEM FOR OPEN-PIT COAL MINE ~71:Northeastern University, No. 11, Lane 3, Wenhua Road, Heping District, Shenyang City, Liaoning

Province, 110057, People's Republic of China ~72: GU, Xiaowei;WANG, Hao;WANG, Qing;XU, Xiaochuan~ 33:CN ~31:202210470101.X ~32:28/04/2022

2022/08308 ~ Complete ~54:METHOD FOR DETECTING FACTORS AFFECTING TOMATO GROWTH AND QUALITY UNDER HIGH TEMPERATURE STRESS ~71:Nanjing University of Information Science & amp; Technology, No.219, Ningliu Road, Nanjing, Jiangsu, People's Republic of China;WEST ANHUI UNIVERSITY, West Yueliang Island, Yunlu bridge, Lu'an City, Anhui Province, People's Republic of China ~72: LI Chunying;LUO Jing;YANG Zaiqiang;ZHANG Chunlong;ZHANG Fengyin;ZHOU Xiaodong~ 33:CN ~31:202210712914.5 ~32:22/06/2022

2022/08318 ~ Complete ~54:ROOF FIXING ~71:ALLEN MICHAEL TUCKER, Unit 32 Sunset Boulevard 69 Coral Road, Table View, South Africa ~72: ALLEN MICHAEL TUCKER~ 33:ZA ~31:2021/05592 ~32:10/08/2021

2022/08312 ~ Complete ~54:PENNISETUM HYDRIDUM MIX FEED AND PREPARATION METHOD THEREOF ~71:Xichang College, No. 1 Xuefu Road, Anning Town, Xichang City, Liangshan Prefecture, Sichuan Province, People's Republic of China;Zhaojue County Tianyuan Agricultural Technology Co., Ltd., No. 060, Juejia Community, Wayituo Village, Abinluogu Township, Zhaojue County, Liangshan Yi Autonomous Prefecture, Sichuan Province, People's Republic of China ~72: Lai Xianjun;Yan Junfeng;Yan Lang~

2022/08320 ~ Complete ~54:SYSTEM AND METHOD FOR DETECTING THE PRODROMAL DEVELOPMENT OF ALZHEIMER'S DISEASE FROM SLEEP PATTERNS ~71:UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR), Avenida de la Paz 137,, Spain ~72: BURGOS SOLANS Daniel;CORBI BELLOT Alberto~ 33:EP ~31:22382085.3 ~32:01/02/2022

2022/08329 ~ Complete ~54:ALKYL-BRIDGED TIN-BASED THERMAL STABILIZERS FOR HALOGENATED RESINS AND SYNTHESIS AND USES THEROF ~71:PMC Organometallix, Inc., 1288 Route 73, Suite 401, MOUNT LAUREL 08054, NJ, USA, United States of America ~72: NORRIS, Gene Kelly;ROSS, Kevin John~ 33:US ~31:62/980,834 ~32:24/02/2020

2022/08330 ~ Complete ~54:BISPECIFIC ANTIGEN BINDING MOLECULES TARGETING OX40 AND FAP ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: AMANN, Maria;BACHL, Juergen Peter;BUJOTZEK, Alexander;CANTRILL, Carina;DUERR, Harald;FAIGLE, Janine;IMHOF-JUNG, Sabine;KLEIN, Christian;KRAFT, Thomas;MARRER-BERGER, Estelle;MOESSNER, Ekkehard;POUSSE, Laurene;RUEGER, Petra;SAM, Johannes;STAACK, Roland;TUERCK, Dietrich;UMAÑA, Pablo;ZIELONKA, Joerg~ 33:EP ~31:20167624.4 ~32:01/04/2020

2022/08337 ~ Complete ~54:A BISPECIFIC ANTI-PD-L1/VEGF ANTIBODY AND USES THEREOF ~71:WUXI BIOLOGICS (SHANGHAI) CO. LTD., No. 299 Fute Zhong Road, People's Republic of China ~72: CHEN, Yunying;LI, Dong;LI, Jing;WANG, Zhuozhi~ 33:WO ~31:PCT/CN2020/073497 ~32:21/01/2020

2022/08344 ~ Complete ~54:N4-HYDROXYCYTIDINE AND DERIVATIVES AND ANTI-VIRAL USES RELATED THERETO ~71:EMORY UNIVERSITY, 1599 Clifton Road, NE 4th Floor, Atlanta, Georgia, 30322, United States of America ~72: DAVID PERRYMAN;GEORGE R PAINTER;GREGORY R BLUEMLING;JOSE MARENGO;MICHAEL G NATCHUS;MICHAEL W HAGER;SHULI MAO~ 33:US ~31:62/971,559 ~32:07/02/2020;33:US ~31:62/988,133 ~32:11/03/2020;33:US ~31:62/994,604 ~32:25/03/2020;33:US ~31:63/006,625 ~32:07/04/2020

2022/08349 ~ Complete ~54:A CLEANING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: MANU GEORGE;NAGARAJA ACHARYA;SAMIRAN MAHAPATRA;SHANTHI APPAVOO;SUMA MENON~ 33:EP ~31:20162999.5 ~32:13/03/2020

2022/08391 ~ Complete ~54:EXPRESSION VECTOR BASED ON CHIMPANZEE CHAD63-TYPE ADENOVIRUS AND CONSTRUCTION METHOD THEREOF ~71:IMMUNE-PATH BIOTECHNOLOGY (SUZHOU) CO., LTD., ROOM 114, 1ST FLOOR, BUILDING 1, NO. 18, MADUN ROAD, People's Republic of China ~72: CAO, Yufeng;LIU, Lin;SHI, Li;TIAN, Wenli;ZHANG, Zhi~ 33:CN ~31:202010017112.3 ~32:08/01/2020

2022/08295 ~ Provisional ~54:CAR4LESS SAVINGS TOKEN ~71:Edward Carney Thwaits, 207 Weltevreden Street, South Africa ~72: Edward Carney Thwaits~ 33:ZA ~31:1 ~32:01/06/2022;33:ZA ~31:01 ~32:01/07/2022

2022/08305 ~ Complete ~54:GLOBAL OPTIMIZATION METHOD AND SYSTEM FOR STAGING SCHEME OF OPEN-PIT COAL MINE ~71:Northeastern University, No. 11, Lane 3, Wenhua Road, Heping District, Shenyang City, Liaoning Province, 110057, People's Republic of China ~72: GU, Xiaowei;WANG, Hao;WANG, Qing;XU, Xiaochuan~ 33:CN ~31:202210491532.4 ~32:07/05/2022

2022/08313 ~ Complete ~54:SYSTEM AND METHOD FOR GENERATING AND DISPLAYING PERSONALIZED TELEVISION CONTENT ~71:BEDEKAR, Mangesh Vilas, A-104, KANCHANBAN PHASE-2, SHIVTIRTH NAGAR, KOTHRUD, PUNE, India;DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, DR. VISHWAND, E103, INDRADHANU SOCIETY, BEHIND VANAZ COLONY, KOTHRUD, PUNE, India;VISHWARUPE, Varad, VARDAYINEE, SHIVAJI NAGAR, OPP VIVEKANAND SCHOOL, DATEY COLLEGE ROAD, YAVATMAL, India;ZAHOOR, Saniya M, OPPOSITE GRID STATION, ILLAHI BAGH, BUCHPORA, SRINAGAR, India ~72: BEDEKAR, Mangesh Vilas;PANDE, Milind;VISHWARUPE, Varad;ZAHOOR, Saniya M~

2022/08319 ~ Complete ~54:INTEGRATED MACHINE FOR CUTTING AND RETURNING CASSAVA STALKS TO FIELD ~71:INSTITUTE OF TROPICAL BIOSCIENCE AND BIOTECHNOLOGY, CHINESE ACADEMY OF TROPICAL AGRICULTURAL SCIENCES, NO. 4 XUEYUAN ROAD, People's Republic of China ~72: SUN, Haiyan~

2022/08325 ~ Complete ~54:ATTACHING A CEILING FORMWORK TO A FRAME ~71:PERI SE, Rudolf-Diesel-Strasse 19, Germany ~72: RAUDIES, Thomas;SCHNEIDER, Werner~ 33:DE ~31:10 2020 200 318.1 ~32:13/01/2020

2022/08327 ~ Complete ~54:METAL POWDER TRANSPORTATION APPARATUS AND LASER SELECTIVE MELTING DEVICE ~71:HUANGSHAN UNIVERSITY, No. 39, Xihai Road, Tunxi District, Huangshan, People's Republic of China ~72: FANG, Tao;SUN, Yinyu;WANG, Yan~ 33:CN ~31:202111471853.X ~32:06/12/2021

2022/08331 ~ Complete ~54:NOVEL LILRB2 ANTIBODIES AND USES THEREOF ~71:Immune-Onc Therapeutics, Inc., 795 San Antonio Road, PALO ALTO 94303, CA, USA, United States of America;The Board of Regents of the University of Texas System, 210 West 7th Street, AUSTIN 78701, TX, USA, United States of America ~72: AN, Zhiqiang;CHEN, Heyu;COSTA, Maria Jose;KU, Zhiqiang;LIAO, X. Charlene;LIU, Xiaoye;SONG, An;XIE, Jingjing;ZHANG, Chengcheng;ZHANG, Ningyan~ 33:US ~31:62/970,496 ~32:05/02/2020

2022/08332 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INCREASING OR ENHANCING TRANSDUCTION OF GENE THERAPY VECTORS AND FOR REMOVING OR REDUCING IMMUNOGLOBULINS ~71:Spark Therapeutics, Inc., 3737 Market Street, Suite 1300, PHILADELPHIA 19104, PA, USA, United States of America ~72: ARMOUR, Sean~ 33:US ~31:62/964,565 ~32:22/01/2020

2022/08340 ~ Complete ~54:PRETREATMENT ARRANGEMENT COMPRISING A SCRAPING DEVICE ~71:SEKAB E-TECHNOLOGY AB, Box 286, 891 26, Örnsköldsvik, Sweden ~72: ANDERS SJÖBLOM;ELIAS SUNDVALL;KARIN HÄGGLUND~ 33:EP ~31:20155118.1 ~32:03/02/2020

2022/08302 ~ Complete ~54:SYSTEM AND METHOD TO DETECT TWITTER SPAM USING AN INTELLIGENT HYBRID CLASSIFIER APPROACH ~71:BEDEKAR, Mangesh Vilas, A-104, KANCHANBAN PHASE-2, SHIVTIRTH NAGAR, KOTHRUD, PUNE, India;DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;PANDE, Milind Sudhakar, E103, INDRADHANU SOCIETY, BEHIND VANAZ COLONY, KOTHRUD, PUNE, India;VISHWARUPE, Varad Vivek, VARDAYINEE, SHIVAJI NAGAR, OPP VIVEKANAND SCHOOL, DATEY COLLEGE ROAD, YAVATMAL, India ~72: BEDEKAR, Mangesh Vilas;PANDE, Milind Sudhakar;VISHWARUPE, Varad Vivek~

2022/08306 ~ Complete ~54:METHOD FOR TIMELY DELAYING HEAVY PRUNING OF MULBERRY TREES IN WINTER AND MASS-PRODUCING RAW MATERIALS OF MULBERRY BUD TEA ~71:Sericulture Research Institute, Sichuan Academy of Agricultural Sciences, No. 97, Hezhong Street, Shunqing District, Nanchong City, Sichuan Province, 637000, People's Republic of China ~72: DAI, Jie;GUO, Junying;HUANG, Gaiqun;LI, Yongyuan;LIU, Gang;LIU, Jiang;MO, Xi;PU, Jun;TONG, Wanhong;WEI, Ling;YAO, Yongquan;ZENG, Yichun;ZHANG, Haoren;ZHENG, Jichuan~

2022/08314 ~ Complete ~54:INNOVATION PRACTICES FOR SURVIVAL OF SMALL AND MEDIUM ENTERPRISES (SMES) IN THE COVID-19 ~71:Dr. Anoop Pandey, Professor in Commerce, Dr. BGR Campus, HNB Garhwal University (A Central University), India: Dr. Asmat Ara Shaikh, Associate Professor, Lala Lajpat Rai Institute of Management, Mumbai, XRJ7+FP2, Lala Lajpatrai Marg, Haji Ali Government Colony, Mahalakshmi, Mumbai, India; Dr. Kuldeep Bhalerao, Assistant Professor, Bharati Vidyapeeth's Institute of Management Studies and Research, University of Mumbai, Mahatma Gandhi Road Fort, Navi Mumbai, India; Dr. Monika Arora, Professor, Amity Business School, Amity University Haryana, Gurugram, India; Dr. Purvi Pujari, Associate Professor, Bharati Vidyapeeth's Institute of Management Studies and Research, Mumbai University, Navi Mumbai, India; Dr. Shardha Purohit, Associate Professor, SJMC- Noida International University, Greater Noida, India; Mr. Anuj Kumar, Assistant Professor, Apeejay School of Management, Sector-8, Institutional Area, Near Bus Depot, Dwaraka, India: Ms. Neerja Anand, Assistant Professor, Department of Management, Institute of Technology and Science, Mohan Nagar, Ghaziabad, India; Ms. Richa Sharma, Assistant Professor, PML SD Business School, Chandigarh, Sector 32-C, India: Ms. Vinita, Assistant Professor, SJMC- Noida International university, Greater Noida, India; Prof. (Dr) Rumki Bandyopadhyay, Pro Vice Chancellor, KK University, Nalanda, India ~72: Dr. Anoop Pandey; Dr. Asmat Ara Shaikh; Dr. Kuldeep Bhalerao; Dr. Monika Arora; Dr. Purvi Pujari; Dr. Shardha Purohit; Mr. Anuj Kumar; Ms. Neerja Anand; Ms. Richa Sharma; Ms. Vinita; Prof. (Dr) Rumki Bandyopadhyay~

- APPLIED ON 2022/07/27 -

2022/08354 ~ Provisional ~54:A PROCESS FOR REMOVING PARTICULATE MATTER FROM A WASTE GAS STREAM ~71:RUBBER NANO PRODUCTS (PROPRIETARY) LIMITED, 34 Bird Street, Central, Port Elizabeth, 6001, South Africa ~72: ROBERT MICHAEL BOSCH~

2022/08358 ~ Complete ~54:SEEDLING SUPPORTING DEVICE FOR ARTIFICIALLY PROMOTING NATURAL REGENERATION OF PINUS SYLVESTRIS ~71:SHAANXI ACADEMY OF FORESTRY SCIENCES, NO. 233, XIGUANZHENG STREET, People's Republic of China ~72: CAO, Qingxi;CAO, Shuangcheng;DONG, Qiang;FENG, Na;GAO, Rong;GAO, Tianjian;JIA, Yanmei;JIANG, Jinyu;LI, Jian;LI, Rong;LIU, Donglin;LIU, Xiaoli;LIU, Xidong;MA, Bo;MA, Cunping;MA, Xiaoxia;QI, Kun;SHI, Changchun;SUN, Jingyu;ZHANG, Maifang;ZHAO, Fei~

2022/08360 ~ Complete ~54:A PROCESS FOR INTEGRATED PRODUCTION AND PURIFICATION OF XYLANASE ~71:CHAPADGAONKAR, Shilpa Samir, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, MIT WORLD

PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India ~72: CHAPADGAONKAR, Shilpa Samir~

2022/08357 ~ Complete ~54:AGRICULTURAL IMPLEMENTS HAVING ROW UNITS WITH ROTATING SUPPORTS ~71:AGCO DO BRASIL SOLUÇÕES AGRÍCOLAS LTDA, Avenida Bandeirantes, no 384 Ribeireo Preto, Brazil ~72: BURGHAUSEN, Leandro;CUNHA, Venicius, Damo;MATTER, Jarlis, Luiz~ 33:GB ~31:2111844.3 ~32:18/08/2021

2022/08359 ~ Complete ~54:A MEDICINE STORAGE BOX ~71:APTE, Nishant Prasad, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;BOBADE, Chandrashekhar Digambar, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;JOGLEKAR, Shriram, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;RANE, Anish Shrikrishna, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;RANE, Anish Shrikrishna, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India ~72: APTE, Nishant Prasad;BOBADE, Chandrashekhar Digambar;JOGLEKAR, Shriram;RANE, Anish Shrikrishna~

2022/08368 ~ Complete ~54:A NON-LINEAR STIFFNESS VIBRATION ABSORBER ~71:No. 719 Research Institute of China State Shipbuilding Corporation Limited, No. 19, Yangqiaohu Avenue, Canglong Island Development Zone, Jiangxia District, Wuhan City, Hubei Province, 430205, People's Republic of China ~72: DAI, Chengming;DAI, Ruijie;DING, Ding;DU, Saipeng;GUO, Hanbei;LIU, Haijian;QIANG, Lei;SHANG, Chao;TAN, Haitao;WANG, Qiangyong;YANG, Xuesong;ZHANG, Miao;ZHANG, Shengye;ZHANG, Zhenli~

2022/08370 ~ Complete ~54:PIPELINE VALVE AUTOMATICALLY COMPENSATING FOR WEARING GAP FOR CONCRETE CONVEYING PUMP FOR BUILDING ~71:THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, No.0169 Qianhai Road, Nanshan subdistrict, Nanshan District, Shenzhen, 518000, People's Republic of China ~72: CUI, Qi;FENG, Lilei;FU, Jun;GUO, Guangbin;SONG, Hongpeng;WU, Chuanhai;XIONG, Yueping;ZHAO, Peng~

2022/08379 ~ Complete ~54:GRAPE SEEDLING METHOD OF YOUNG-SHOOT GRAFTING ~71:GUANGXI ACADEMY OF AGRICULTURAL SCIENCES, No.174, Daxue East Road, Xixiangtang District, Nanning City, Guangxi Zhuang Autonomous Region, People's Republic of China;GUANGXI UNIVERSITY, No.100 Daxue East Road, Nanning City, Guangxi Zhuang Autonomous Region, People's Republic of China;Guangxi Zhencheng Agriculture Co., Ltd, No.151 baniu Village, Lijian farm, Guangxi ASEAN Economic and Technological Development Zone, Nanning City, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: BAI Xianjin;BAI Yang;CAO Xiongjun;HAN Jiayu;HE Jieping;HUANG Xiaoyun;LI Hongyan;LIAO Yongfeng;LIN Ling;MA Guangren;PAN Fengping;SHI Xiaofang;WANG Bo;ZHANG Yanhui~

2022/08395 ~ Complete ~54:DISPOSABLE INCONTINENCE ARTICLE IN THE FORM OF BRIEFS ~71:PAUL HARTMANN AG, PAUL-HARTMANN-STRASSE 12, 89522 HEIDENHEIM, GERMANY, Germany ~72: EILERS, Jörg~ 33:DE ~31:10 2019 135 887.6 ~32:30/12/2019

2022/08403 ~ Complete ~54:SYSTEM AND METHOD FOR DETERMINATION OF A 3D INFORMATION AND OF A MODIFICATION OF A METALLURGICAL VESSEL ~71:REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, Wienerbergstrasse 11 1100, Austria ~72: KATZ, Romy-Sophie;LAMMER, Gregor~ 33:EP ~31:20152201.8 ~32:16/01/2020

2022/08410 ~ Complete ~54:USE OF A COMBINATION OF A SACCHARIDE AND GLYCEROL FOR PREBIOTIC BENEFITS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, United Kingdom ~72: ANINDYA DASGUPTA;ERNEST CHRISTY;NEHA SALGAONKAR;SRIKALA KUMARAN~ 33:EP ~31:20159305.0 ~32:25/02/2020

2022/08413 ~ Complete ~54:GRAPHICS DISPLAY APPARATUS ~71:STEER, Gavin Milton, 7 Suikerbossie Street, South Africa ~72: STEER, Gavin Milton~ 33:ZA ~31:2019/08334 ~32:13/12/2019

2022/08424 ~ Complete ~54:MULTI-ARM, MOVABLE ULTRAVIOLET DISINFECTION LAMP FOR CT AND MR ROOMS ~71:MENG, Zili, No.301, Unit 2, Building 2, No. 9 Yuandong Street, Qiaoxi District, Shijiazhuang, Hebei, 050085, People's Republic of China ~72: LI, Xiaoyu;MENG, Jiatian;MENG, Zili;ZHANG, Zhihua~ 33:CN ~31:202110381583.7 ~32:09/04/2021

2022/08363 ~ Complete ~54:A SYSTEM FOR DEVELOPING AN IOT BASED HEALTHCARE INFORMATION TECHNOLOGY AND A METHOD THEREOF ~71:Dr Asha Bhatia, B-502, Tridev Apartments, Bhakti Marg, Mulund West, Mumbai, India ~72: Dr Asha Bhatia~

2022/08364 ~ Complete ~54:OPTIMIZING AUDIO DELIVERY FOR VIRTUAL REALITY APPLICATIONS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: AGNELLI, Matteo;CZELHAN, Bernd;FUCHS, Harald;HOFMANN, Ingo;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EP ~31:17196259.0 ~32:12/10/2017

2022/08372 ~ Complete ~54:FLIP-CHIP SOLDERING DEVICE FOR SOLDERING CHIP TO CARRIER ~71:Wuhu Teyou Machinery R&D Technology Co., Ltd., 4th Floor, Metropark Hotel, Anding Middle Road, Fanyang Town, Fanchang County, Wuhu City, Anhui Province, People's Republic of China ~72: LIU,Shirong~

2022/08380 ~ Complete ~54:NEGATIVE THERMAL EXPANSION CERAMIC MATERIAL AND PREPARATION METHOD THEREOF ~71:Zhengzhou University of Aeronautics, No.2 Daxue Middle Road, Zhengzhou City, Henan Province, People's Republic of China ~72: CHEN Dongxia;FU Linjie;HOU Haixing;LI Mingyu;TIAN Shuo;WANG Xianli;YU Zhanjun~

2022/08396 ~ Complete ~54:METHOD AND APPARATUS FOR DYNAMIC GROUP MANAGEMENT ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: EL ESSAILI, Ali;XU, Wenliang~ 33:CN ~31:PCT/CN2020/070460 ~32:06/01/2020

2022/08398 ~ Complete ~54:AN APPARATUS AND METHOD FOR CORAL HUSBANDRY ~71:CHARM IP PTY LTD, c/o Michael Buck IP, PO Box 78, Red Hill, Australia ~72: RODAN, Stephen Francis~ 33:US ~31:16/774,177 ~32:28/01/2020

2022/08402 ~ Complete ~54:CATALYST SEPARATION PROCESS ~71:DOW GLOBAL TECHNOLOGIES LLC, 2211 H.H. Dow Way, United States of America ~72: CHEN, Wu;KUMBHALKAR, Mrunmayi;MURDOCH, Brian;SHI, Haifeng;ZHAO, Lin~ 33:US ~31:62/968,224 ~32:31/01/2020

2022/08407 ~ Complete ~54:ENHANCED ANAEROBIC REMEDIATION REAGENT FOR CHROMIUM-CONTAMINATED SITE, PREPARATION METHOD, AND USAGE METHOD ~71:BEIJING GEOENVIRON ENGINEERING & amp; TECHNOLOGY, INC, Floor 1, In The Underground 1st To 4th Floor Of Building 13, Courtyard 9, Dijin Road,, Haidian District, Beijing, 100095, People's Republic of China ~72: BEI REN;HUAXIANG FANG;LAISHUN LI;LI WEI;SHUCAI LI;XIANJIN TANG;YAOJUN CHEN~ 33:CN ~31:202010969516.2 ~32:15/09/2020

2022/08415 ~ Complete ~54:SODIUM 2-[(4S)-8-FLUORO-2-[4-(3-METHOXYPHENYL)PIPERAZIN-1-YL]-3-[2-METHOXY-5-(TRIFLUOROMETHYL)PHENYL]-4H-QUINAZOLIN-4-YL]ACETATE MONOHYDRATE, ITS PREPARATION AND USE ~71:AIC246 AG & Co. KG, Friedrich-Ebert-Str. 475, WUPPERTAL 42117, GERMANY, Germany ~72: BUSCHMANN, Helmut;CERON BERTRAN, Jordi Carles;GOLDNER, Thomas~ 33:EP ~31:20159709.3 ~32:27/02/2020 2022/08419 ~ Complete ~54:MAGNETIC REED SWITCH ASSEMBLY AND METHOD ~71:General Equipment and Manufacturing Company, Inc. d/b/a Topworx, Inc., 3300 Fern Valley Road, LOUISVILLE 40213, KY, USA, United States of America ~72: LAFOUNTAIN, Robert L.;SIMMONS, Michael J.~ 33:US ~31:16/738,856 ~32:09/01/2020

2022/08365 ~ Complete ~54:HYBRID CONTROL SYSTEM, CONTROL METHOD AND CONTROL DEVICE FOR DISTRIBUTED ELECTRIC DRIVE VEHICLE ~71:CHANGZHOU INSTITUTE OF TECHNOLOGY, 666 Liaohe Rd, Xinbei District, Changzhou 213032, Jiangsu, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianfeng;HOU, Xinglin;LIAO, Lianying;LIU, Haimei;MENG, Haodong;XU, Yongming;ZHAO, Jingbo~

2022/08366 ~ Complete ~54:METHOD FOR ESTABLISHING MUSCLE NERVE DRIVER MODEL IN STEERING FAULT-TOLERANT CONTROL ~71:CHANGZHOU INSTITUTE OF TECHNOLOGY, 666 Liaohe Rd, Xinbei District, Changzhou 213032, Jiangsu, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianfeng;HOU, Xinglin;LIAO, Lianying;LIU, Haimei;MENG, Haodong;XU, Yongming;ZHAO, Jingbo~

2022/08374 ~ Complete ~54:GLUE DISPENSING DEVICE FOR CHIP PACKAGING ~71:Wuhu Teyou Machinery R&D Technology Co., Ltd., 4th Floor, Metropark Hotel, Anding Middle Road, Fanyang Town, Fanchang County, Wuhu City, Anhui Province, People's Republic of China ~72: LIU,Shirong~

2022/08383 ~ Complete ~54:MULTI-POINT MONITORING SYSTEM FOR AUTOMATIC ALARM AND FIRE FIGHTING FOR FOREST FIRE PREVENTION ~71:Wang Jingcai, Room 201, Unit 3, Building 18, Yinshayuan, Duolan Shui'an Community, Jianggan District, Hangzhou City, Zhejiang Province, People's Republic of China ~72: Jiang Xinrui;Li Ming;Ren Hongkun;Tang Xingkun;Wang Jingcai;Wang Yanhua;Yang Peitong;Zhao Lei;Zhou Chuanqing~

2022/08386 ~ Complete ~54:METHOD AND SYSTEM FOR MEASURING GEOMETRIC PARAMETERS OF HYDRAULIC FRACTURE ~71:Shaanxi Yanchang Petroleum (Group) Co., Ltd, Yanchang Tianhe City, Jingbian County, Yulin City, Shaanxi Province, People's Republic of China;Xi'an Shiyou University, No. 18, east section of electronic second road, Xi'an, Shaanxi Province, People's Republic of China ~72: Hou Binbin;Kang Zhengming~ 33:CN ~31:202210853105.6 ~32:20/07/2022

2022/08389 ~ Complete ~54:A SECONDARY GROUTING REPAIR METHOD FOR SEALING GAS FAILURE-SEALING BOREHOLE SECTION ~71:CHINA COAL TECHNOLOGY ENGINEERING GROUP CHONGQING RESEARCH INSTITUTE, No. 6, Erlang Avenue, Kecheng Road, Jiulongpo District, Chongqing Municipality, 400039, People's Republic of China ~72: Daihui Ma;Guangsheng Hao;Houquan Zhou;Huijie Liu;Jun He;Kai Ma;Kai Shen;Mingming Zhang;Qianqian Ma;Quanbin Ba;Shitao Zhang;Shudong He;Wei Xiong;Xianghui Meng;Xusheng Zhao;Yanbao Liu;Yin Liao;Yongtao Shi;Zhen Wang;Zhengxing Fan~ 33:CN ~31:202111447594.7 ~32:26/11/2021

2022/08399 ~ Complete ~54:TETRACYCLIC COMPOUNDS FOR TREATING HIV INFECTIONS ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: JIANG, LAN;LIN, DAVID W.;MITCHELL, MICHAEL L.;ROBERTS, EZRA;SCHWARZWALDER, GREGG M.~ 33:US ~31:62/980,857 ~32:24/02/2020;33:US ~31:63/036,268 ~32:08/06/2020;33:US ~31:63/128,670 ~32:21/12/2020

2022/08409 ~ Complete ~54:IMAGE DECODING METHOD AND DEVICE FOR SAME ~71:LG ELECTRONICS INC., 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea ~72: JAEHYUN LIM;JANGWON CHOI;JUNGAH CHOI;SEUNGHWAN KIM;SUNMI YOO~ 33:US ~31:62/959,760 ~32:10/01/2020

2022/08418 ~ Complete ~54:FUNGICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BEATTIE, David;HAAS, Ulrich Johannes;HOFFMAN, Thomas James~ 33:GB ~31:2003202.5 ~32:05/03/2020;33:GB ~31:2020136.4 ~32:18/12/2020

2022/08373 ~ Complete ~54:SEPARATION DEVICE FOR MILK POWDER PRODUCTION ~71:Wuhu Jiaming Agricultural Machinery Technology Co., Ltd., 4th Floor, Metropark Hotel, Anding Middle Road,, Fanyang Town, Fanchang County, Wuhu City, Anhui Province, People's Republic of China ~72: HAN, changyang~

2022/08375 ~ Complete ~54:DRYING DEVICE FOR MILK POWDER PRODUCTION ~71:Wuhu Dengding Machinery Equipment Co., Ltd., Building 2, Beisi Innovation Park, Fanchang Economic Development Zone, Fanchang District, Wuhu City, Anhui Province, People's Republic of China ~72: MA, Ding~

2022/08381 ~ Complete ~54:MACHINING PROCESS FOR LARGE-DIAMETER THICK-WALLED NICKEL ALLOY PIPE FITTINGS UNDER HIGH PRESSURE WITH HYDROGEN PRESENT ~71:Hebei Hengtong Pipe Fittings Group Co.,Ltd, Houhan Village, Hanji Town, Yanshan County, Cangzhou City, Hebei Province, People's Republic of China ~72: Lianxin HAN;Yanqing JI;Iizhu JI~

2022/08385 ~ Complete ~54:DOUBLE-WHEAT KERNEL FLOWER-SCENTED BLUEBERRY WINE AND PREPARATION METHOD THEREOF ~71:Henan University of Technology, No. 100, Lianhua Road, High-tech zone, Zhengzhou City, Henan Province, People's Republic of China ~72: Ge Wenpei;Huang Liang;Li Xiaoya;Liu Na;Wang Hongling;Wu Tiantian~

2022/08388 ~ Complete ~54:OPTIMIZING AUDIO DELIVERY FOR VIRTUAL REALITY APPLICATIONS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: AGNELLI, Matteo;CZELHAN, Bernd;FUCHS, Harald;HOFMANN, Ingo;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EP ~31:17196259.0 ~32:12/10/2017

2022/08392 ~ Complete ~54:TARGET RESIDUAL MOISTURE CONTENT FOR LYOPHILIZED DRUG PRODUCT ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHARI, Ravi;KLEPPE, Mary;TANG, Xiaolin;TZUL, Franco~ 33:US ~31:62/969,961 ~32:04/02/2020

2022/08400 ~ Complete ~54:VEHICLE, SYSTEM AND METHOD FOR RAILWAY TRACK CLEARING ~71:AITONOMI AG, Bruderhausstrasse 10, Switzerland ~72: SCHOLL, Torsten;SCHOLL, Xenia~ 33:GB ~31:2001841.2 ~32:11/02/2020

2022/08405 ~ Complete ~54:MODIFIED SULFUR AND PREPARATION METHOD THEREFOR ~71:PHIL HO AHN, 60, Kkotbaesan 1-gil, Gunnae-myeon, Pocheon-si Gyeonggi-do, 11156, Republic of Korea ~72: PHIL HO AHN~

2022/08414 ~ Complete ~54:ANTIGEN-BINDING MOLECULES AGAINST ALPPL2 AND/OR ALPP AND USES THEREOF ~71:Agency for Science, Technology and Research, 1 Fusionopolis Way, #20-10 Connexis North Tower, SINGAPORE 138632, SINGAPORE, Singapore ~72: HONG, Shin Yee;HUANG, Ching-Wen;LEE, Shuet Theng;NG, Jian Duan Johnathan;SUN, William;TAN, Boon Ooi Patrick;WAN, Kah Fei;WANG, Cheng-I;WANG, Huajing;YAP, Thai Leong~ 33:SG ~31:10202001139U ~32:07/02/2020

2022/08421 ~ Complete ~54:COMPOUNDS AND USES THEREOF ~71:Foghorn Therapeutics Inc., 500 Technology Square, Suite 700, CAMBRIDGE 02139, MA, USA, United States of America ~72: ANTHONY, Neville John;MILLAN, David Simon;SCHILLER, Shawn E.R.;VASWANI, Rishi G.;WILSON, Kevin J.~ 33:US ~31:62/967,186 ~32:29/01/2020

2022/08425 ~ Complete ~54:METHODS, DEVICES, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR SENSOR SYSTEMS ~71:INNOSAPIEN AGRO TECHNOLOGIES PRIVATE LIMITED, 1704, Willowcrest, One Hiranandani Park, Ghodbunder Road, India ~72: NERKAR, Sarang Dilip~ 33:IN ~31:202021003826 ~32:28/01/2020

2022/08362 ~ Complete ~54:METHOD FOR RAPIDLY MAKING PINUS THUNBERGII STUB POTTED LANDSCAPE ~71:HUINONG TIANXIA (SHANDONG) TECHNOLOGY INFORMATION CONSULTING CO., LTD., Room 4015, Tai'an High-tech Entrepreneurship Incubation Center, Taishan District, Tai'an City, People's Republic of China ~72: HUANG, Na;HUANG, Yuyin;JIA, Guoshuai;JIANG, Shuaiyu;KANG, Xiaofei;LI, Defeng;WANG, Fengyan;WANG, Zhenghao;WU, Zhenzhen;XUE, Mingming~

2022/08376 ~ Complete ~54:WATER-SAVING IRRIGATION METHOD FOR CROPS BASED ON ROOT SIGNAL CHARACTERISTICS ~71:Dryland Farming Institute, Hebei Academy of Agricultural and Forestry Science, 1966 Shengli East Road, Hengshui City, Hebei Province, People's Republic of China ~72: CHEN Chaoyang;LI Lei;LIU Binhui;LU Guanli;WANG Bianyin;WANG Guangcai;ZHANG Wenying~

2022/08377 ~ Complete ~54:METHOD FOR RECOVERING GOLD FROM GOLD SMELTING SLAG CHLORIDIZING ROASTING ELUENT ~71:Zhengzhou Institute of Multipurpose Utilization of Mineral Resources, CAGS, No.328 Longhai West Road, Zhongyuan District, Zhengzhou City, Henan Province, People's Republic of China ~72: CAO Yaohua;LIU Hongzhao;LIU Lin;WANG Hongliang;WANG Wei~ 33:CN ~31:202210706060.X ~32:21/06/2022

2022/08384 ~ Complete ~54:APPLICATION OF STAR AND ITS REGULATORY GENE ~71:Institute of Animal Sciences, Chinese Academy of Agricultural Sciences, 2,Yuanmingyuan West Road, Haidian District, Beijing City, People's Republic of China ~72: FENG Hui;HUANG Wanlong;LI Ai;LIU Tianyi;MIAO Xiangyang;XIE Lingli~

2022/08390 ~ Complete ~54:A DIRECTIONAL HYDRAULIC FRACTURING AND WEAKENING DEVICE FOR HARD ROOF OF COAL MINE ~71:CHINA COAL TECHNOLOGY ENGINEERING GROUP CHONGQING RESEARCH INSTITUTE, No. 6, Erlang Avenue, Kecheng Road, Jiulongpo District, Chongqing Municipality, 400039, People's Republic of China ~72: Daihui Ma;Dequan Yuan;Enbing Yi;Guangsheng Hao;Haitao Sun;Houquan Zhou;Huijie Liu;Kai Shen;Mingming Zhang;Qianqian Ma;Quanbin Ba;Shitao Zhang;Song Wang;Wei Xiong;Wen Liu;Xin'gang Niu;Yanbao Liu;Yin Liao;Yongtao Shi;Zhengxing Fan~

2022/08394 ~ Complete ~54:MODULATORS OF THE INTEGRATED STRESS RESPONSE PATHWAY ~71:EVOTEC INTERNATIONAL GMBH, ESSENER BOGEN 7, 22419 HAMBURG, GERMANY, Germany ~72: BROWN, Christopher, John;CARR, James, Lindsay;SABBAH, Mohamad;SCHKERYANTZ, Jeffrey, Michael;WALTER, Daryl, Simon~ 33:EP ~31:20154031.7 ~32:28/01/2020

2022/08411 ~ Complete ~54:METHOD FOR PASSIVATING A TINPLATE STRIP AND APPARATUS FOR PRODUCING SAID PASSIVATED TINPLATE STRIP ~71:TATA STEEL IJMUIDEN B.V., Wenckebachstraat 1, 1951 JZ Velsen-Noord, Netherlands ~72: JAN PAUL PENNING;MARK WILLEM LITZ;MICHIEL STEEGH~ 33:EP ~31:20163185.0 ~32:13/03/2020;33:EP ~31:20164228.7 ~32:19/03/2020;33:EP ~31:20168114.5 ~32:04/04/2020

2022/08420 ~ Complete ~54:COMPOUNDS AND USES THEREOF ~71:Foghorn Therapeutics Inc., 500 Technology Square, Suite 700, CAMBRIDGE 02139, MA, USA, United States of America ~72: ANTHONY, Neville John;BRUCELLE, Francois;DENG, Jing;NETHERTON, Matthew;RUPPEL, Sabine K.;SCHILLER, Shawn E.R.;VOIGT, Johannes H.~ 33:US ~31:62/967,565 ~32:29/01/2020

2022/08422 ~ Complete ~54:COMPOUNDS AND USES THEREOF ~71:Foghorn Therapeutics Inc., 500 Technology Square, Suite 700, CAMBRIDGE 02139, MA, USA, United States of America ~72: NEGRETTI, Solymar;SCHILLER, Shawn E.R.;WILSON, Kevin J.~ 33:US ~31:62/967,206 ~32:29/01/2020;33:US ~31:62/967,208 ~32:29/01/2020

2022/08361 ~ Complete ~54:A NOVEL METHOD OF PIPERINE ISOLATION ~71:DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, MIT WORLD PEACE UNIVERSITY, SURVEY NO. 124, PAUD ROAD,

KOTHRUD, PUNE, India;JOGLEKAR, Shreeram, MIT WORLD PEACE UNIVERSITY, SURVEY NO. 124, PAUD ROAD, KOTHRUD, PUNE, India;KALE, Anup, MIT WORLD PEACE UNIVERSITY, SURVEY NO. 124, PAUD ROAD, KOTHRUD, PUNE, India ~72: JOGLEKAR, Shreeram;KALE, Anup~

2022/08367 ~ Complete ~54:APPARATUS AND METHOD FOR ALIGNING A DRILLING MACHINE ~71:GST RESEARCH AND DEVELOPMENT (PTY) LTD., Co R 512 and N4 offramp, Hartbeespoort, North West Province, 0216, South Africa ~72: PETRUS HENDRIK ROODT~ 33:ZA ~31:2021/05328 ~32:28/07/2021

2022/08369 ~ Complete ~54:MECHANICAL PRUNING METHOD OF LYCHEE TREE AND ITS TECHNICAL APPLICATION FIELD ~71:Institute of Fruit Tree Research Guangdong Academy of Agricultural Sciences, No. 80, Dafeng 2nd Street, Tianhe District, Guangzhou City, Guangdong Province, 510640, People's Republic of China ~72: GUO, Dongliang;HAN, Dongmei;HUANG, Shilian;LI, Jianguang;WANG, Jing~ 33:CN ~31:202110923994.4 ~32:12/08/2021

2022/08371 ~ Complete ~54:PRETREATMENT DEVICE FOR DETECTING MICROORGANISM IN MILK POWDER ~71:Wuhu Jiaming Agricultural Machinery Technology Co., Ltd., 4th Floor, Metropark Hotel, Anding Middle Road, Fanyang Town, Fanchang County, Wuhu City, Anhui Province, People's Republic of China ~72: HAN, changyang~

2022/08378 ~ Complete ~54:ADJUSTABLE WATER RESOURCES ALLOCATION METHOD AND SYSTEM BASED ON ALLOCATION MATRIX ~71:China Institute of Water Resources and Hydropower Research, A-1, Fuxing Road, Haidian District, Beijing, 100038, People's Republic of China ~72: CAI Zhenhua;CHAI Fuxin;JIANG Xiaoming;LI Kuang;LIANG Lili;LIU Jie;LIU Shu;LIU Yesen~

2022/08382 ~ Complete ~54:APPLICATION OF LNCRNA AND ITS TARGET GENE IN SHEEP OVARIAN DEVELOPMENT ~71:Institute of Animal Sciences, Chinese Academy of Agricultural Sciences, 2,Yuanmingyuan West Road, Haidian District, Beijing City, People's Republic of China ~72: FENG Hui;HUANG Wanlong;LI Ai;LIU Tianyi;MIAO Xiangyang;XIE Lingli~

2022/08387 ~ Complete ~54:PREPARATION METHOD OF LIVESTOCK AND POULTRY ANTI-STRESS FEED ~71:Tianshui animal epidemic disease prevention control center, No.45 Xinhua Road, Qinzhou District, Tianshui City, People's Republic of China;Tianshui animal health technology workstation, No.13 Xinjian Lane, Maiji District, Tianshui City, People's Republic of China;Tianshui animal husbandry technology popularizing station, No.45 Xinhua Road, Qinzhou District, Tianshui City, People's Republic of China;Tianshui animal husbandry technology popularizing station, No.45 Xinhua Road, Qinzhou District, Tianshui City, People's Republic of China;Tianshui animal husbandry technology popularizing station, No.45 Xinhua Road, Qinzhou District, Tianshui City, People's Republic of China;Tianshui maiji district animal husbandry veterinarian affairs service center, No.27 Bunan Road, Maiji District, Tianshui City, People's Republic of China;Tianshui maiji district forestry and grassland bureau, No.25 Bunan Road, Maiji District, Tianshui City, Gansu Province, People's Republic of China ~72:

BaiWenjuan;ChenLingling;HouFengqing;HuKaijun;LiHaiyuan;LinMengmeng;YuChengjiao;Zhang Wenhao;ZhaoXiaoxue~

2022/08393 ~ Complete ~54:YARROWIA SP. VARIANT AND METHOD FOR PREPARING FAT BY USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: BAE, Jee Yeon;JANG, Jiryang;KIM, Hyung Joon;KIM, Ju-yeon;LEE, Peter;PARK, Hye Min;PARK, Sang Min~ 33:KR ~31:10-2020-0029137 ~32:09/03/2020

2022/08397 ~ Complete ~54:PREPARATION AND USE OF CANNABIS NANO-FORMULATION ~71:CANNAXAN GMBH, BIRKERFELD 12, 83627 WARNGAU, GERMANY, Germany ~72: BRAND, Werner~ 33:EP ~31:20150397.6 ~32:06/01/2020

2022/08401 ~ Complete ~54:RESIN POT COMPONENT FOR AN INSPECTABLE BARRIER CABLE GLAND ~71:CCG INTERNATIONAL HOLDINGS LIMITED, Bordage House, Le Bordage, ~72: LACKINGER, Nicholas Franz Edward;MOOD, Geoffrey Ingles~ 33:GB ~31:1919460.4 ~32:31/12/2019

2022/08406 ~ Complete ~54:NOVEL HYDROQUINONE DERIVATIVES ~71:OM PHARMA SA, 22 rue du Boisdu-Lan, 1217, Meyrin, Switzerland ~72: JACQUES BAUER;OLIVIER MARTIN~ 33:EP ~31:20162558.9 ~32:11/03/2020

2022/08412 ~ Complete ~54:METHODS AND COMPOSITIONS FOR THE INHIBITION OF HEPATITIS B AND HEPATITIS D VIRUS INFECTIONS ~71:REPLICOR INC., Suite D-101, 6100 avenue Royalmount, Montréal, Québec H4P 2R2, Canada ~72: ANDREW VAILLANT;MATTHIEU BLANCHET;PATRICK LABONTE;RICHARD BOULON~ 33:US ~31:62/979,442 ~32:21/02/2020

2022/08408 ~ Complete ~54:METHOD AND APPARATUS FOR INSPECTING WIND TURBINE BLADE, AND DEVICE AND STORAGE MEDIUM THEREOF ~71:ENVISION DIGITAL INTERNATIONAL PTE. LTD., 1 Harbourfront Avenue, #17-01 Keppel Bay Tower, Singapore, 098632, Singapore;SHANGHAI ENVISION DIGITAL CO., LTD., No. 15, Lane 55, Chuanhe Road China (Shanghai), Pilot Free Trade Zone, Shanghai, People's Republic of China ~72: DONG AO;QINGSHENG ZHAO;SHU WEI;WEIYU CUI;YONG AI;ZHIMENG WANG;ZHONGJI YIN~ 33:CN ~31:201911420554.6 ~32:31/12/2019

2022/08404 ~ Complete ~54:MEDICAMENT COMPRISING A COMBINATION OF AMNIOTIC MEMBRANE AND UMBILICAL CORD BLOOD SERUM FOR WOUND HEALING ~71:PLACELTA (PTY) LTD, International Business Gateway, Cnr New Road and 6th Road, Midrand, Johannesburg 1682, SOUTH AFRICA, South Africa ~72: HOLT, Yvonne;MONTAGUE, Carl~ 33:NL ~31:2024751 ~32:24/01/2020

2022/08416 ~ Complete ~54:NAMPT MODULATORS ~71:Cytokinetics, Inc., 350 Oyster Point Blvd, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: CHANDRA, Aroop;EVANS, Christopher Edward;ROMERO, Antonio;SHEN, Minxing~ 33:US ~31:62/971,838 ~32:07/02/2020

2022/08417 ~ Complete ~54:AGROCHEMICAL COMPOSITION OF TRIAZOLES ~71:Adama Makhteshim Ltd., P O Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: BERKOVITCH, Michael;LERNER YARDENI, Jenny;SILBERT, Gilad;TOLTS, Alexander~ 33:US ~31:62/966,587 ~32:28/01/2020

2022/08423 ~ Complete ~54:METHOD FOR ELECTROMAGNETIC PRE-TREATMENT OF ORE AND DEVICE FOR IMPLEMENTING SAME ~71:Obshchestvo s ogranichennoy otvetstvennost'u "Tekhnologiya neorganicheskikh materialov", Kilometr MZHD Kievskoe 5-j, 1, Building 1, 2, Room 80, Floor 2, MOSCOW 121059, RUSSIA, Russian Federation ~72: ADAMYAN, Eduard Vladimirovich;ANANYEV, Pavel Petrovich;BELYAKOV, Konstantin Olegovich;MESCHERYAKOV, Roman Valerevich;PLOTNIKOVA, Anna Valerievna~ 33:RU ~31:2019144390 ~32:27/12/2019

- APPLIED ON 2022/07/28 -

2022/08430 ~ Provisional ~54:A SPRINKLER ~71:Hendrik Petrus Truter; Susanne Truter; Estelle Pickard; and Braam Hendrik Van Wyk in their capacities as trustees of Truter Trust, Farm Helderwater, Wittedrift, Bitou Municipality, Western Cape, South Africa ~72: Rikus Pienaar Truter~

2022/08440 ~ Complete ~54:CLOUD CONTROL SYSTEM AND METHOD FOR STAGE LIGHTING ~71:Xi'an University of Finance and Economics, No. 44, South Cuihua Road, Yanta District, Xi'an City, Shaanxi Province, 710061, People's Republic of China ~72: GU, Qi;LU, Xiaoyan;SHI, Siqi;WANG, Yujie;ZHONG, Yonghong;ZHOU, Haochen~

2022/08441 ~ Complete ~54:MANUFACTURING METHOD FOR HIGH-STRENGTH COLD-ROLLED PIPE ~71:LI, Xinzhong, No. 4, Jinye Road, Sanshan Economic Development Zone, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: HUANG, Haoran;LI, Xinhua;LI, Xinzhong;LIANG, Xiao;WANG, Shumin;ZENG, Meilan;ZHANG, Yun~ 33:CN ~31:202110985674.1 ~32:26/08/2021

2022/08448 ~ Complete ~54:METHOD CAPABLE OF RECYCLING NATURAL ENERGY TO BE APPLIED TO AGRICULTURAL MODERNIZATION ~71:Anhui Science and Technology University, No. 1501 Huangshan Avenue, Bengbu City, Anhui Province, 233030, People's Republic of China ~72: CAI, Xinchen;CHEN, Jiachen;CHEN, Song;CHEN, Xuechen;HU, Yueying~ 33:CN ~31:202110872796.X ~32:30/07/2021

2022/08461 ~ Complete ~54:PYRIDINE COMPOUNDS FOR CONTROLLING INVERTEBRATE PESTS ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: DOMINIC MING-TAK CHAN;JASON CHARLES HAMM;MING XU;MOUMITA KAR;OMAR KHALED AHMAD;RACHEL SLACK;THOMAS FRANCIS JR PAHUTSKI;THOMAS MARTIN STEVENSON;TWYLA A BRIDDELL;YUZHONG CHEN~ 33:US ~31:62/967,838 ~32:30/01/2020

2022/08464 ~ Complete ~54:CD28 SINGLE DOMAIN ANTIBODIES AND MULTIVALENT AND MULTISPECIFIC CONSTRUCTS THEREOF ~71:Inhibrx, Inc., 11025 N. Torrey Pines Road, Suite 200, LA JOLLA 92037, CA, USA, United States of America ~72: CRAGO, William S.;ECKELMAN, Brendan P.;JACKSON, Rutger H.;KAPLAN, Michael D.;TIMMER, John C.;WILLIS, Katelyn M.~ 33:US ~31:62/967,533 ~32:29/01/2020

2022/08466 ~ Complete ~54:WEAR MEMBER ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: FOX, Kelly A.;GRIFFIN, Timothy E.;ROSKA, Michael B.;SINGH, Sean~ 33:US ~31:62/970,119 ~32:04/02/2020

2022/08467 ~ Complete ~54:USE OF PEPTIDYLGLYCINE ALPHA-AMIDATING MONOOXYGENASE (PAM) FOR THERAPEUTIC PURPOSE ~71:PAM Theragnostics GmbH, Neuendorfstr. 15 A, HENNIGSDORF 16761, GERMANY, Germany ~72: BERGMANN, Andreas~ 33:EP ~31:20159647.5 ~32:26/02/2020

2022/08470 ~ Complete ~54:PRO-ADRENOMEDULLIN FOR PROGNOSING DISEASE PROGRESSION IN SEVERE ACUTE RESPIRATORY SYNDROME (SARS) ~71:B.R.A.H.M.S GmbH, Neuendorfstraße 25, HENNIGSDORF 16761, GERMANY, Germany ~72: EBMEYER, Stefan;KROP, Manne;ODARJUK, Jutta~ 33:EP ~31:20168321.6 ~32:06/04/2020;33:EP ~31:20168591.4 ~32:07/04/2020;33:EP ~31:20179787.5 ~32:12/06/2020;33:EP ~31:20191084.1 ~32:14/08/2020

2022/08474 ~ Complete ~54:WHEEL COVER ~71:FLETCHER, Ian, 138 Wilson Avenue, Fairlands, Northcliff, Gauteng, 2195, South Africa ~72: FLETCHER, Ian~ 33:ZA ~31:2020/00821 ~32:10/02/2020

2022/08438 ~ Complete ~54:WATERSHED-SCALE COMPREHENSIVE RISK ASSESSMENT METHOD FOR PESTICIDE APPLICATION IN DRYLAND CROPS ~71:Nanjing Institute of Environmental Sciences, Ministry of Ecology and Environment, 8 Jiangwangmiao, Xuanwu District, Nanjing, Jiangsu, 210042, People's Republic of China ~72: CAO, Shaohua;CHEN, Qiang;JIANG, Jinlin;LI, Xuzhi;LIU, Renbin;SUN, Kewen;YIN, Aijing~ 33:CN ~31:202210157749.1 ~32:21/02/2022

2022/08442 ~ Complete ~54:ASSEMBLY TYPE CONCRETE SHEAR WALL AND DUCTILITY CONNECTION METHOD OF VERTICAL STEEL STRUCTURE THEREOF ~71:Henan Technical College of Construction, No.51,Gongye Road ,Erqi District, Zhengzhou City, Henan Province, People's Republic of China;Zhengzhou University of Aeronautics, No.2,Middle Road of Daxue Street, Zhengzhou City, Henan Province, People's Republic of China ~72: LI Liang;WANG Shuming;XUE Ru;YANG Qinghe;YE Yifan;ZHANG Daying;ZHANG Shuaifeng;ZHAO Xiaoyan~ 2022/08444 ~ Complete ~54:IMAGE PROCESSING AND FPGA-BASED DEVICE AND METHOD FOR IDENTIFICATION AND SEPARATION OF COAL AND GANGUE ~71:Anhui University of Science and Technology, 168 Taifeng street, Huainan city, Anhui province, 232001, People's Republic of China ~72: GUO, Yongcun;HUANG, Yourui;JIA, Xiaofen;XU, Shanyong;ZHOU, Yujie~

2022/08449 ~ Complete ~54:ECOLOGICAL RESTORATION SHIP FOR LAKE WATER ~71:Hunan Vocational and Technical College of water resources and hydropower, West gate, No. 20, Xingsha East Fourth Road, Economic and Technological Development Zone, Changsha, Hunan Province, People's Republic of China ~72: Hu Hongliang;Huang Xin;Li Jiajun;Liu Lihuan;Sun Baizhi;Xia Yongyou;Xiao Dan;Zhang Jie;Zhuwuyan~

2022/08455 ~ Complete ~54:A COMBINED EXTRACTION METHOD OF DRUG ENTITIES AND INTERACTIONS WITH MULTI-TASK SEQUENTIAL LABELING ~71:University of Electronic Science and Technology of China, No.2006 Xiyuan Avenue, West Hi-Tech Zone, Chengdu City, Sichuan Province, 611731, People's Republic of China ~72: Deng Haohan;Li Qiaoqin;Liu Yongguo;Zhang Yun;Zhu Jiajing~ 33:CN ~31:202210628078.2 ~32:06/06/2022

2022/08456 ~ Complete ~54:COMBINATION OF A CAP FOR A CONTAINER AND A NECK OF THE CONTAINER ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: ALESSANDRO FALZONI;VITTORIO BASSI~ 33:IT ~31:10202000006496 ~32:27/03/2020

2022/08431 ~ Complete ~54:A COPPER-CHROMIUM-BASED TGR-TITANIUM MEMBRANE THREADED TUBULAR AIR PREHEATER AND TUBE MEMBRANE COMPOSITION ~71:DONG, Chong, 13-1601, Liu Zhiyuan Community, Lixia District, Jinan City, People's Republic of China;JINAN YILIN TECHNOLOGY CO., LTD., No. 31 Jingsanweiliu Community, Huaiyin District, Jinan City, People's Republic of China;MENG, Junyu, 5-2-302, No. 201 Hero Mountain Road, Shizhong District, Jinan City, People's Republic of China;WANG, Shuyin, 3-1-503, Vanke Shanwang Garden, Shizhong District, Jinan City, People's Republic of China ~72: DONG, Chong;MENG, Junyu;WANG, Shuyin~

2022/08436 ~ Complete ~54:RAINWATER DISTRIBUTION APPARATUS ~71:EDC TANKS, The Victoria Maine, 11th Floor, Suite 1101, 71 Margaret Mncadi Avenue, Victoria Embankment, Durban 4001, SOUTH AFRICA, South Africa ~72: SINGH, Ajit~ 33:ZA ~31:2021/05330 ~32:28/07/2021

2022/08450 ~ Complete ~54:THE PREPARATION METHOD OF THE SPECIAL BIO-ORGANIC FERTILIZER FOR GRAPES AND THE SPECIAL BIO-ORGANIC FERTILIZER FOR GRAPES ~71:Xinjiang Meili kukodala Agricultural Technology Co., Ltd, North side of the first floor of the auditorium of Xinjiang Agricultural University, No. 311, Nongda East Road, sayibak District, Urumqi, Xinjiang, People's Republic of China ~72: Akbar Illahoon~

2022/08452 ~ Complete ~54:VERTICAL TAKE-OFF AND LANDING TAIL-SITTER UNMANNED AERIAL VEHICLE AS WELL AS ITS CONTROL SYSTEM AND CONTROL METHOD ~71:Central South University, No.932 South Lushan Road, Changsha, Hunan, 410083, People's Republic of China ~72: Caisheng Wei;Chengyu Cao;Jian Dai;Xiaodong Li;Yuxin Liao;Zeyang Yin;Zhongsen Wang~

2022/08460 ~ Complete ~54:POXVIRUS-BASED VECTORS PRODUCED BY NATURAL OR SYNTHETIC DNA AND USES THEREOF ~71:CITY OF HOPE, 1500 East Duarte Road, Duarte, California, 91010-3000, United States of America ~72: DON J DIAMOND;FELIX WUSSOW~ 33:US ~31:62/969,628 ~32:03/02/2020;33:US ~31:63/113,803 ~32:13/11/2020

2022/08465 ~ Complete ~54:A SYSTEM AND METHOD FOR APPLYING A FRAGRANCE OR MALODOR CONTROL AGENT TO A PLASTIC WEB ~71:MORAS, Wayne, 600 Deer Meadow Drive, CHATHAM 62629, IL,

USA, United States of America; PATEL, Asmin, 521 Deer Meadow Drive, CHATHAM 62629, IL, USA, United States of America ~72: MORAS, Wayne; PATEL, Asmin~ 33:US ~31:16/777,429 ~32:30/01/2020

2022/08473 ~ Complete ~54:IMPACT DEVICE ~71:Fletcher Building Holdings Limited, 810 Great South Road, Penrose, 1061, AUCKLAND, NEW ZEALAND, New Zealand ~72: LEWIS, Daniel Charles;RYDER, Emerson Patrick James~ 33:NZ ~31:761715 ~32:13/02/2020

2022/08459 ~ Complete ~54:COMBINATION THERAPY FOR TREATING ABNORMAL CELL GROWTH ~71:VERASTEM, INC., 117 Kendrick Street, Suite 500, Needham, Massachusetts, 02494, United States of America ~72: JONATHAN A PACHTER;SILVIA COMA~ 33:US ~31:62/968,615 ~32:31/01/2020;33:US ~31:63/115,433 ~32:18/11/2020

2022/08469 ~ Complete ~54:ROLLER CUTTING TOOL WITH IMPROVED SEALING ~71:Sandvik Mining and Construction Tools AB, Sandvik Mining and Construction Tools AB, 81181, SANDVIKEN, SWEDEN, Sweden ~72: LINDBLOM, Anders;LOIKKANEN, Joona~ 33:EP ~31:20158642.7 ~32:21/02/2020

2022/08472 ~ Complete ~54:THERAPEUTIC USES OF TIRZEPATIDE ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: COGHLAN, Matthew Paul;HAUPT, Axel;MURAKAMI, Masahiro;RIESMEYER, Jeffrey Scott~ 33:US ~31:62/967,867 ~32:30/01/2020

2022/08475 ~ Complete ~54:CATHETER AND METHOD FOR ISOLATING A REGION IN A HOLLOW ORGAN OF A MAMMAL, AND SYSTEM BASED ON THE CATHETER, AND USE OF THE CATHETER ~71:PANDX LTD, 1 Royston Road, Whittlesford, Cambridge, CB22 4NW, United Kingdom ~72: ANISIMOV, Sergey Vladimirovich;GRANSTREM, Oleg Konstantinovich;KASHINTSEV, Aleksei Arievich;PROUTSKI, Vitali Yurievich~ 33:RU ~31:2020100187 ~32:31/12/2019;33:RU ~31:2020140524 ~32:09/12/2020

2022/08435 ~ Complete ~54:METHOD FOR THE BIOMASS ALCOHOLYSIS OF PETROLEUM-BASED POM PLASTIC ~71:China University of Petroleum (East China), No. 66, Changjiang West Road, Huangdao District, QINGDAO CITY 257061, SHANDONG PROVINCE, CHINA (P.R.C.), People's Republic of China ~72: JIN, Xin;JIN, Youhai;LI, Yushan;LIU, Mengyuan;MA, Shengyan;WANG, Mengyu;YANG, Chaohe;ZHANG, Guangyu~

2022/08437 ~ Complete ~54:HARVESTER TANK ASSEMBLY AND FILTRATION ARRANGEMENTS THERFOR ~71:EDC TANKS, The Victoria Maine, 11th Floor, Suite 1101, 71 Margaret Mncadi Avenue, Victoria Embankment, Durban 4001, SOUTH AFRICA, South Africa ~72: SINGH, Ajit~ 33:ZA ~31:2021/05331 ~32:28/07/2021

2022/08443 ~ Complete ~54:HYDROGEN PURIFICATION AND CARBON DIOXIDE RECYCLING DEVICE IN PRODUCTION SYSTEM OF HYDROGEN FROM METHANOL ~71:Wuhu Medium Hydrogen New Energy Technology Co., Ltd., No. 4, Jinye Road, Sanshan Economic Development Zone, Wuhu City, Anhui Province, People's Republic of China ~72: LI, Xinhua;LI, Xinzhong;LIU, Dongmei;WANG, Shumin;WANG, Weifeng;ZENG, Meilan;ZHANG, Yun~ 33:CN ~31:202210416881.X ~32:20/04/2022

2022/08446 ~ Complete ~54:INDOOR EXPERIMENT SYSTEM AND METHOD FOR SIMULATING STOPE FILLING ~71:Anhui University of Science and Technology, No.168 Taifeng Street, Huainan City, Anhui Province, People's Republic of China;China Coal Science and Industry Group Shenyang Research Institute Co., Ltd., No.11 Binhe Road, economic development zone, Fushun City, Liaoning Province, People's Republic of China ~72: CHANG Guanfeng;FANG Yingji;GAO Hong;GAO Wei;HUA Xinzhu;LI Chen;LIU Xiao;QIAN Zhiliang;SUN Zhenping;YANG Sen~ 33:CN ~31:202111629875.4 ~32:28/12/2021

2022/08451 ~ Complete ~54:PREPARATION METHOD OF 4D-HYDROXYETHYL CHITOSAN THERMOSENSITIVE GEL ~71:Qingdao University, No. 308, Ningxia Road, Shinan District, Qingdao, Shandong, 266075, People's Republic of China ~72: Meng Li;Mengyuan Wang;Wenhua Xu;Yiming Liu~

2022/08454 ~ Complete ~54:A MIXING DEVICE FOR FEED PRODUCTION ~71:Chongqing Xintonglian Feed Co., Ltd., No.1 Caoba Branch Road, Degan Street, Jiangjin District, Chongqing City, 402284, People's Republic of China ~72: Li Chen~

2022/08427 ~ Provisional ~54:SMART FIXABLE TRAVEL CUP ~71:BIJIE INVENTION, NO 155 OLD ONITSHA, Nigeria ~72: IJERE JOSHUA IZUCHUKWU~

2022/08428 ~ Provisional ~54:COMPOSITIONS CONTAINING CHROMIUM ~71:ERASMUS, Rhynhardt, Erf 178, South Africa ~72: ERASMUS, Rhynhardt~

2022/08433 ~ Complete ~54:ROTOR TIP BLOCK SECURING ARRANGEMENT ~71:ORECRUSHER S.A. (PTY) LTD., 6 Pittsburg Street, Apex, BENONI 1500, Gauteng, SOUTH AFRICA, South Africa ~72: VERWEIJ, Roeland~ 33:ZA ~31:2022/00846 ~32:19/01/2022

2022/08445 ~ Complete ~54:METHOD FOR IMPROVING REPRODUCTIVE EFFICIENCY OF SURROGATE SOWS ~71:Institute of Animal Husbandry and Veterinary Science, Henan Academy of Agricultural Sciences, NO.116,Huayuan Road, Jinshui District, Zhengzhou city, Henan Province, People's Republic of China ~72: LIU Hongbo;LU Qingxia;LV Lingyan;REN Qiaoling;SHEN Ming;SUN Shaochen;WANG Xianwei;XING Baosong;ZHANG Jiaqing~ 33:CN ~31:202111030041.1 ~32:03/09/2021

2022/08471 ~ Complete ~54:FORMULATIONS OF HUMAN ANTI-TSLP ANTIBODIES AND METHODS OF TREATING INFLAMMATORY DISEASE ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: LUERAS, Alexis;SLOEY, Christopher;TALLY, Clea~ 33:US ~31:62/976,007 ~32:13/02/2020;33:US ~31:63/148,105 ~32:10/02/2021

2022/08477 ~ Complete ~54:APPARATUSES, SYSTEMS, AND METHODS FOR HEATING WITH ELECTROMAGNETIC WAVES ~71:QWAVE SOLUTIONS, INC., 326 First Avenue Hyde Park, United States of America ~72: BADAC, Jeffrey;BOOTH, Ryan;HARRIS, Kaitlin;RALEIGH, Cliff;SCHLAEGLE, Steven;TROIANO, Richard~ 33:US ~31:62/969,935 ~32:04/02/2020

2022/08468 ~ Complete ~54:USE OF KETAMINE IN THE TREATMENT OF CACHEXIA ~71:Astromedical Biotechnology, Ltd., 16F.-3, No. 19, Aly. 14, Ln. 3, Sec. 1, Zhongzheng E. Rd., Tamsui Dist., NEW TAIPEI CITY 251, TAIWAN (R.O.C.), Taiwan, Province of China ~72: WANG, James Chyan-Ji~ 33:US ~31:62/960,255 ~32:13/01/2020

2022/08457 ~ Complete ~54:A CARTRIDGE FOR USE IN AN AEROSOL-GENERATING SYSTEM AND AN AEROSOL-GENERATING SYSTEM COMPRISING SAID CARTRIDGE ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: TAURINO, Irene;ZINOVIK, Ihar, Nikolaevich~ 33:EP ~31:20154181.0 ~32:28/01/2020

2022/08458 ~ Complete ~54:HEATING ELEMENT HAVING HEAT CONDUCTIVE AND WICKING FILAMENTS ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BUTENKEMPER, Stefan;DETLEF, John;ZINOVIK, Ihar, Nikolaevich~ 33:EP ~31:20154181.0 ~32:28/01/2020;33:EP ~31:20197829.3 ~32:23/09/2020

2022/08462 ~ Complete ~54:METHOD OF MAKING UNIFORM SPUNBOND FILAMENT NONWOVEN WEBS ~71:KIMBERLY-CLARK WORLDWIDE, INC., 2300 Winchester Road, United States of America ~72: BARNES, Craig A.;HAYNES, Bryan D.;HONARBAKHSH, Sara;LENNON, Eric E.;PALZEWICZ, Dave A.~ 33:US ~31:PCT/US2020/013143 ~32:10/01/2020

2022/08463 ~ Complete ~54:METHOD OF MAKING UNIFORM SPUNBOND FILAMENT NONWOVEN WEBS ~71:KIMBERLY-CLARK WORLDWIDE, INC., 2300 Winchester Road, United States of America ~72: BOUCHARD, Isabelle R.;CONRAD, John H.;LAKE, Matthew B.;LENNON, Eric E.~

2022/08476 ~ Complete ~54:METHOD AND PLATFORM FOR DYNAMICALLY MONITORING TYPICAL GROUND FEATURES IN MINING ON THE BASIS OF MULTI-SOURCE REMOTE SENSING DATA FUSION AND DEEP NEURAL NETWORK ~71:ANHUI ZHONGKE INTELLIGENT PERCEPTION TECHNOLOGY CO., LTD., LIU, Yan, Room 225, Building 2, Chuangye Street, 8 Longhu Road, Sanshan District, Wuhu, Anhui, 241000, People's Republic of China ~72: ZHANG Wei~

2022/08429 ~ Provisional ~54:GROUT SEAL ~71:LULL STORM TRADING (PTY) LTD., 168/169 Bosworth Street, ALRODE SOUTH 1451, Gauteng Province, SOUTH AFRICA, South Africa ~72: BOTHMA, Eric;SMIT, Renier Adriaan~

2022/08432 ~ Complete ~54:A MANUFACTURING PROCESS OF COPPER-CHROMIUM BASED TGR-TITANIUM FILM SPIRAL AIR PREHEATER ~71:DONG, Chong, 13-1601, Liu Zhiyuan Community, Lixia District, Jinan City, People's Republic of China;DONG, Zhilin, 3-1-401, Zone 17, Luneng Lingxiucheng Community, Shizhong District, Jinan City, People's Republic of China;JINAN YILIN TECHNOLOGY CO., LTD., No. 31 Jingsanweiliu Community, Huaiyin District, Jinan City, People's Republic of China;MENG, Junyu, 5-2-302, No. 201 Hero Mountain Road, Shizhong District, Jinan City, People's Republic of China;WANG, Shuyin, 3-1-503, Vanke Shanwang Garden, Shizhong District, Jinan City, People's Republic of China ~72: DONG, Chong;DONG, Zhilin;MENG, Junyu;WANG, Shuyin~

2022/08434 ~ Complete ~54:WATER DESALINIZATION SYSTEMS ~71:MAHNA, Satish, 23620 Halburton Road, BEACHWOOD 44122, OH, USA, United States of America ~72: MAHNA, Satish~ 33:US ~31:62/746,856 ~32:17/10/2018;33:US ~31:62/781,125 ~32:18/12/2018

2022/08439 ~ Complete ~54:FUNGICIDAL COMPOSITION CONTAINING BENZOVINDIFLUPYR AND APPLICATION THEREOF ~71:Jiangsu Academy of Agricultural Sciences, No. 50, Zhongling Street, Nanjing City, Jiangsu Province, 210014, People's Republic of China;Jiangsu Xuhuai Huaiyin Agricultural Science Research Institute, No. 104, Huaihai North Road, Huai'an City, Jiangsu Province, 223001, People's Republic of China;Nanjing Agricultural University, No. 1 Weigang, Xuanwu District, Nanjing City, Jiangsu Province, 210014, People's Republic of China ~72: CAO, Kaige;CHEN, Changjun;CHEN, Huaigu;CHEN, Xianghua;CHEN, Yali;DUAN, Yabing;HOU, Yiping;LI, Meixia;LI, Wei;MA, Yan;QIAN, Xin;SUN, Haiyan;ZHANG, Xin;ZHOU, Mingguo~

2022/08447 ~ Complete ~54:PSEUDOMONAS_PUTIDA CUGB-JL11 FOR DEGRADATION OF TYPICAL FLOTATION REAGENTS IN MINES AND ITS APPLICATION ~71:China University of Geosciences, Beijing, 29 Xueyuan Road, Haidian District, Beijing, People's Republic of China ~72: LI Xinyuan;LIU Houquan;LIU Jianli;LIU Xiangfang;MENG Hang;YAO Jun;ZHOU Deliang;ZHU Xiaozhe~

2022/08453 ~ Complete ~54:A DAS IDENTIFICATION METHOD FOR MONITORING INTER-WELL REAL-TIME MICROSEISMIC VALID EVENTS BASED ON DEEP LEARNING ~71:Institute of Geology and Geophysics, Chinese Academy of Sciences, No. 19, Beitucheng Western Road, Chaoyang District, Beijing City, 100029, People's Republic of China ~72: Shaojiang Wu;Yi Yao;Yibo Wang;Yikang Zheng~ 33:CN ~31:202210807860.0 ~32:11/07/2022

- APPLIED ON 2022/07/29 -

2022/08484 ~ Complete ~54:DYNAMIC LOAD SHEAR TEST DEVICE AND METHOD BASED ON HOPKINSON BAR SYSTEM ~71:Shandong University of Science and Technology, No.579, Qianwangang Road, Huangdao

District, Qingdao City, Shandong Province, 266590, People's Republic of China ~72: Gu, Xuebin;Guo, Weiyao;Zhang, Chengguo;Zhao, Tongbin~ 33:CN ~31:202210683159.2 ~32:16/06/2022

2022/08496 ~ Complete ~54:SELF-SINKING OCEAN BOTTOM SEISMIC ACQUISITION DEVICE AND WORKING METHOD THEREOF ~71:First Institute of Oceanography, Ministry of Natural Resources, Xianxialing Road, Hi-tech Industrial Park, Qingdao City, Shandong Province, People's Republic of China ~72: Chenguang LIU;Kai LIU;Lei SUN;Qingfeng HUA;Yanliang PEI~ 33:CN ~31:202210610633.9 ~32:01/06/2022

2022/08500 ~ Complete ~54:AN INTEGRATED CONDUIT AND A PREVENTION DEVICE & ITS METHOD THEREOF OF TUNNEL ROCKBURST ~71:Northeastern University, China, NO. 3-11, Wenhua Road, Heping District, Shenyang, Liaoning province, People's Republic of China ~72: Chen Guoqing;Li Yongping;Liu Zaobao;Qiao Pengyang;Wang Fei;Wang Houyu;Yao Zhibin;Zha Wenhua~

2022/08502 ~ Complete ~54:SELECTION METHOD FOR COMPATIBLE ROOTSTOCK SEEDS FOR SWEET PERSIMMON ~71:RESEARCH INSTITUTE OF SUBTROPICAL FORESTRY, CHINESE ACADEMY OF FORESTRY, DAQIAO ROAD NO. 73, FUCHUN STREET, People's Republic of China ~72: GONG, Bangchu;LIU, Cuiyu;WU, Kaiyun;XU, Yang;YANG, Xu~

2022/08512 ~ Complete ~54:NOISE REDUCTION CONSTRUCTION STRUCTURE WITH EQUIPMENT ROOM ~71:CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD., No. 251, Beiyangwa, Liyuan Town, Tongzhou District, People's Republic of China ~72: HU, Xiaoke;WANG, Jiabin;WANG, Meifu;XIANG, Changyu;ZHANG, Mao~

2022/08522 ~ Complete ~54:METHODS OF TREATING PRIMARY PROGRESSIVE MULTIPLE SCLEROSIS USING AN INHIBITOR OF BRUTON'S TYROSINE KINASE ~71:F. HOFFMANN-LA ROCHE AG, Grenzacherstrasse 124, 4070, Basel, Switzerland;GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080-4990, United States of America ~72: AURELIEN VIACCOZ;EDMOND HUATUNG TENG;HANS-CHRISTIAN VON BUEDINGEN;HIDEKI GARREN~ 33:US ~31:62/982,872 ~32:28/02/2020;33:US ~31:63/051,756 ~32:14/07/2020

2022/08529 ~ Complete ~54:A HEATING SYSTEM AND A METHOD FOR HEATING A CHOSEN MEDIA ~71:SUNFURIA AB, Söderborgsvägen 32, 671 95, KIässbol, Sweden ~72: ADAM FJAESTAD~ 33:SE ~31:2050001-3 ~32:03/01/2020

2022/08499 ~ Complete ~54:METHOD FOR PLANTING POTATOES WITH HIGH YIELD AND POTATO CULTURE RACK ~71:Shanxi Agricultural University, No. 81, Longcheng Street, Xiaodian District, Taiyuan City, Shanxi Province, People's Republic of China ~72: Chen Yanni;Han Zhishun;Kang Jiahui;Liang Xiuzhi;Qi Haiying;Wang Liqin;Zheng Minna~

2022/08507 ~ Complete ~54:TRIAZOLOPYRIMIDINE COMPOUNDS AND THEIR USE IN TREATING CANCER ~71:Dizal (Jiangsu) Pharmaceutical Co., Ltd., Huirong Business E Building, East Jinghui Road, WUXI CITY, JIANGSU PROVINCE, CHINA (P.R.C.), People's Republic of China ~72: BUTTAR, David;GOLDBERG, Frederick Woolf;KETTLE, Jason Grant;LAMONT, Gillian Mcgregor;TING, Attilla Kuan Tsuei~ 33:US ~31:62/670,075 ~32:11/05/2018

2022/08508 ~ Complete ~54:COMPOSITIONS, SYSTEMS, AND METHODS FOR GENERATING INNER EAR HAIR CELLS FOR TREATMENT OF HEARING LOSS ~71:Massachusetts Institute of Technology, 77 Massachusetts Avenue, CAMBRIDGE 02139, MA, USA, United States of America;The Brigham and Women's Hospital, Inc., 75 Francis Street, BOSTON 02115, MA, USA, United States of America ~72: JOSHI, Nitin;KARP, Jeffrey M.;LANGER, Robert S.;YIN, Xiaolei~ 33:US ~31:62/045,506 ~32:03/09/2014;33:US ~31:62/051,003 ~32:16/09/2014

2022/08511 ~ Complete ~54:GRIPS FOR TENSION TEST ON GLOSSY FRP REBARS ~71:BOKIL, Shantini, HEAD, SCHOOL OF CIVIL ENGINEERING DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;PATHAK, Nutan Jayant, 37, YOGANAD PARK 1, S.NO. 91/1/13 KOTHRUD, PUNE, India ~72: BOKIL, Shantini;PATHAK, Nutan Jayant~

2022/08516 ~ Complete ~54:METHOD AND CIRCUIT FOR ENABLING A DIRECT CURRENT SOURCE TO POWER A LOAD CIRCUIT DESIGNED FOR ALTERNATING CURRENT INPUT ~71:POWEROPTIMAL (PTY) LTD, 16 Halyard Walk Eastlake Island, Marina Da Gama, South Africa ~72: THERON, Jacob Johannes~ 33:GB ~31:2001707.5 ~32:07/02/2020

2022/08519 ~ Complete ~54:MINIATURE CIRCUIT BREAKER ~71:ZHEJIANG CHINT ELECTRICS CO., LTD., No.1, CHINT Road, CHINT Industrial Zone, People's Republic of China ~72: CHEN, Zaiwei~ 33:CN ~31:202010152847.7 ~32:06/03/2020

2022/08523 ~ Complete ~54:IMAGE CODING DEVICE AND METHOD BASED ON FILTERING-RELATED INFORMATION SIGNALING ~71:LG ELECTRONICS INC., 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea ~72: HENDRY HENDRY;SEETHAL PALURI~ 33:US ~31:62/961,699 ~32:15/01/2020

2022/08526 ~ Complete ~54:3D CONCRETE PRINTING WITH WELL ANCHORING CORDS ~71:NV BEKAERT SA, Bekaertstraat 2, 8550, Zwevegem, Belgium ~72: JAN MESTDAGH;MATTHIAS GOUWY~ 33:EP ~31:20160825.4 ~32:04/03/2020

2022/08478 ~ Provisional ~54:FIDGETING DEVICE ~71:AGATHAGELOU, Andrea Peter, 9 Lynburn Road, South Africa ~72: AGATHAGELOU, Andrea Peter~

2022/08481 ~ Provisional ~54:MINING CONVEYANCE, GUIDE ROLLER ASSEMBLY AND BUFFER ~71:LEVELOK ENGINEERING (PTY) LTD., 12 Grobler Street, Potchindustria, Potchefstroom, North West, 2520, South Africa ~72: BEREND JAN WERKMAN;JACOBUS JOHANNES CLAASSEN;JAUNDRÉ TALJAARD~

2022/08483 ~ Complete ~54:AN ADAPTED PROTECTIVE INSERT ~71:BODHI APPAREL (PTY) LTD, 100 Piennar Road, Milnerton, South Africa ~72: FRANK, Joanne~

2022/08612 ~ Complete ~54:A SHATTERPROOF AND HEAT RESISTANT HOLDER ~71:DYNAMIC DISTRIBUTORS (PTY) LTD, 2C Bridget Road, Benrose, South Africa ~72: TONER, Shaun~

2022/08630 ~ Complete ~54:USE OF PHARMACEUTICAL COMPOSITION FOR PREVENTING AND TREATING NOVEL CORONAVIRUS PNEUMONIA ~71:SHIJIAZHUANG YILING PHARMACEUTICAL CO., LTD., No.238, Tianshan Street Hi-Tech, Development District Shijiazhuang, People's Republic of China ~72: JIA, Zhenhua~ 33:CN ~31:202010079857.2 ~32:04/02/2020;33:CN ~31:202010094502.0 ~32:16/02/2020;33:CN ~31:202010105903.1 ~32:21/02/2020;33:CN ~31:202010134508.6 ~32:02/03/2020

2022/08486 ~ Complete ~54:STEEL-WOOD COMPOSITE BRIDGE DECK STRUCTURE AND LAYING METHOD THEREOF ~71:China Railway Construction Bridge Engineering Bureau Group Co., Ltd., No. 32, Zhonghuan West Road, Pilot Free Trade Zone, Tianjin, 300308, People's Republic of China;China Railway Construction Bridge Engineering Bureau Group Southern Engineering Co., Ltd., 1002, No. 2, Huafei Street, Huangge Town, Nansha District, Guangzhou, Guangdong, 511455, People's Republic of China;Shenyang University of Technology, No.111, Shenliao West Road, Economic and Technological Development Zone, Shenyang, Liaoning, 110870, People's Republic of China ~72: AN, Luming;CHEN, Gang;CHEN, Yixuan;FAN,

Lilong;LIU, Peng;LIU, Yintao;REN, Yanlong;WANG, Yuanqing;ZHANG, Pengzhi;ZHAO, Jian~ 33:CN ~31:202111266307.2 ~32:28/10/2021

2022/08503 ~ Complete ~54:INTELLIGENT ENVIRONMENTAL CONTROL APPARATUS FOR GOOSE HOUSE AND APPLICATION METHOD THEREOF ~71:INSTITUTE OF ANIMAL HUSBANDRY, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, People's Republic of China ~72: LI, Manyu;LIU, Guojun;PENG, Fugang;SUN, Jinyan;YUE, Shan;ZHAO, Xiuhua~

2022/08506 ~ Complete ~54:ECOLOGICAL VEGETATION RESTORATION-PLANTING INTEGRATED RESTORATION EQUIPMENT OF COAL MINING SUBSIDENCE AREA ~71:SHAANXI ACADEMY OF FORESTRY SCIENCES, NO. 233, XIGUANZHENG STREET, People's Republic of China ~72: GAO, Rong;GAO, Zhenliang;HAO, Xinzhong;LI, Jian;MA, Yali;QIAO, Yina;SHI, Changchun;ZHANG, Ruili;ZHAO, Fei~

2022/08510 ~ Complete ~54:GEARCASE SYSTEM FOR MOTOR AND WHEEL SET ASSEMBLY ~71:Transportation IP Holdings, LLC, 901 Main Avenue, NORWALK 06851, CT, USA, United States of America ~72: ARMBRUSTER, Robert;KARMARKAR, Uday;LEUTE, Scott~ 33:US ~31:17/450,053 ~32:05/10/2021

2022/08514 ~ Complete ~54:SLOPE REINFORCING DEVICE FOR FOUNDATION CONSTRUCTIONAL ENGINEERING ~71:CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD., No. 251, Beiyangwa, Liyuan Town, Tongzhou District, People's Republic of China ~72: HU, Xiaoke;LI, Linjun;WANG, Changjun;WANG, Zhen;XIANG, Changyu~

2022/08521 ~ Complete ~54:BIOPESTICIDE COMPOSITIONS COMPRISING PLANT EXTRACTS AND PHYTOSANITARY USE THEREOF ~71:KIMITEC BIOGROUP, S.L., Edificio Maavi Innovation Center, Paraje Cerro los Lobos s/n, 04738 Vícar (Almería), Spain ~72: EFRÉN REMESAL GONZÁLEZ;FÉLIX GARCIA MORENO;LUIS FERNANDO JULIO TORRES;MARÍA MARTÍN BEJERANO;OMAR SANTANA MÉRIDAS;SALVADOR GIMÉNEZ GARCÍA~

2022/08534 ~ Complete ~54:ELECTRONIC CONTROLLER ~71:Carel Industries S.p.A., Via dell'Industria 11, BRUGINE PD 35020, ITALY, Italy ~72: DEL ZOPPO, Francesco~ 33:IT ~31:102020000001795 ~32:30/01/2020

2022/08487 ~ Complete ~54:ROTATABLE PIER ANTI-COLLISION FLOATING DEVICE ~71:China Railway Construction Bridge Engineering Bureau Group Co., Ltd., No. 32, Zhonghuan West Road, Pilot Free Trade Zone, Tianjin, 300308, People's Republic of China;China Railway Construction Bridge Engineering Bureau Group Southern Engineering Co., Ltd., 1002, No. 2, Huafei Street, Huangge Town, Nansha District, Guangzhou, Guangdong, 511455, People's Republic of China;Shenyang University of Technology, No.111, Shenliao West Road, Economic and Technological Development Zone, Shenyang, Liaoning, 110870, People's Republic of China ~72: AN, Luming;FAN, Lilong;LI, Hongwei;LIU, Peng;LIU, Yintao;LU, Hongping;REN, Yanlong;WANG, Yuanqing;ZHANG, Pengzhi;ZHAO, Jian~ 33:CN ~31:202111266301.5 ~32:28/10/2021

2022/08509 ~ Complete ~54:ANTI-CD71 ACTIVATABLE ANTIBODY DRUG CONJUGATES AND METHODS OF USE THEREOF ~71:AbbVie Inc., 1 North Waukegan Road, NORTH CHICAGO 60064, IL, USA, United States of America ~72: BADAGNANI, Ilaria;HENRIQUES, Tracy;LEANNA, Marvin Robert;MORGAN-LAPPE, Susan E.;RALSTON, Sherry L.;RICHARDSON, Jennifer Hope;SERWER, Laura Patterson;SINGH, Shweta;TERRETT, Jonathan Alexander~ 33:US ~31:62/572,467 ~32:14/10/2017

2022/08530 ~ Complete ~54:SYSTEMS AND METHODS FOR ASSISTING INDIVIDUALS IN A BEHAVIORAL-CHANGE PROGRAM ~71:Cilag GmbH International, Gubelstrasse 34, ZUG 6300, SWITZERLAND, Switzerland ~72: BALBIERZ, Daniel;BUNDICK, Linda;CHANCELLOR, Joe;DOTSON, Laura;JAMESON, Allen;JOSHI,

Aneesh;UTLEY, David S.;VAIDYANATHAN, Rajiv~ 33:US ~31:62/955,214 ~32:30/12/2019;33:US ~31:62/955,219 ~32:30/12/2019

2022/08532 ~ Complete ~54:USE OF CO VALUES IN SMOKING CESSATION ~71:McNeil AB, Box 941, HELSINGBORG 251 09, SWEDEN, Sweden ~72: HALL, Matthew;JAMESON, Allen;UTLEY, David S.~ 33:US ~31:62/955,555 ~32:31/12/2019

2022/08536 ~ Complete ~54:THERAPEUTIC USES OF DULAGLUTIDE ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: GERSTEIN, Hertzel Chaim~ 33:US ~31:62/967,790 ~32:30/01/2020

2022/08538 ~ Complete ~54:DNA SYNTHESIS YIELD IMPROVEMENTS ~71:Touchlight IP Limited, 40 Queen Anne Street, LONDON W1G 9EL, UNITED KINGDOM, United Kingdom ~72: KYSH, Daniel;PORTER, Neil;ROTHWELL, Paul~ 33:GB ~31:2002068.1 ~32:14/02/2020

2022/08518 ~ Complete ~54:FLOTATION ARRANGEMENT, PLANT AND METHOD RELATED THERETO ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: RINNE, Antti;SHERRELL, Ian~ 33:US ~31:63/046,059 ~32:30/06/2020

2022/08525 ~ Complete ~54:3D CONCRETE PRINTING WITH FLEXIBLE REINFORCING STRUCTURE ~71:NV BEKAERT SA, Bekaertstraat 2, 8550, Zwevegem, Belgium ~72: ANNE HOEKSTRA;MATTHIAS GOUWY~ 33:EP ~31:20160826.2 ~32:04/03/2020

2022/08535 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PREVENTING AND TREATING CORONAVIRUS INFECTION-SARS-COV-2 VACCINES ~71:Beth Israel Deaconess Medical Center, Inc., 330 Brookline Avenue, BOSTON 02215, MA, USA, United States of America;Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Rd., TITUSVILLE 08560, NJ, USA, United States of America ~72: BAKKERS, Mark Johannes Gerandus;BAROUCH, Dan H.;BOS, Rinke;LANGEDIJK, Johannes Petrus Maria;LE GARS, Mathieu Claude Michel;RUTTEN, Lucy;SADOFF, Jerald C.;VANDEBOSCH, An;WEGMANN, Frank;ZUJJDGEEST, David Adrianus Theodorus Maria~ 33:US ~31:62/969,008 ~32:31/01/2020;33:US ~31:62/994,630 ~32:25/03/2020;33:US ~31:63/014,467 ~32:23/04/2020;33:US ~31:63/025,782 ~32:15/05/2020;33:US ~31:62/705,187 ~32:15/06/2020;33:US ~31:62/705,308 ~32:21/06/2020;33:US ~31:63/043,090 ~32:23/06/2020;33:US ~31:62/706,366 ~32:12/08/2020;33:US ~31:63/066,147 ~32:14/08/2020;33:US ~31:62/706,676 ~32:02/09/2020;33:US ~31:62/706,937 ~32:18/09/2020;33:US ~31:62/706,958 ~32:21/09/2020;33:US ~31:63/198,089 ~32:28/09/2020;33:US ~31:63/198,306 ~32:09/10/2020;33:US ~31:63/112,900 ~32:12/11/2020;33:CA ~31:3101131 ~32:28/11/2020;33:US ~31:63/121,482 ~32:04/12/2020;33:US ~31:63/133,969 ~32:05/01/2021;33:US ~31:63/135,182 ~32:08/01/2021;33:US ~31:63/141,913 ~32:26/01/2021;33:US ~31:63/142,977 ~32:28/01/2021

2022/08541 ~ Complete ~54:INHIBITORS OF ECTONUCLEOTIDE PYROPHOSPHATASE/PHOSPHODIESTERASE 1 (ENPP1) AND METHODS OF USE THEREOF ~71:STINGRAY THERAPEUTICS, INC., 2450 Holcombe Blvd., Suite X, United States of America ~72: KAADIGE, Mohan Rao;KALAKUNTLA, Raman Kumar;KASIBHATLA, Srinivas Rao;SHARMA, Sunil;THODE, Trason;WESTON, Alexis~ 33:US ~31:62/970,138 ~32:04/02/2020

2022/08485 ~ Complete ~54:METHOD FOR DIVERTING WATER FROM ANCHOR-CABLE GROUTING HOLE FOR CONSTRUCTION IN ROCK BRUST MINE ~71:Shandong University of Science and Technology, No.579, Qianwangang Road, Huangdao District, Qingdao City, Shandong Province, 266590, People's Republic of China ~72: Gu, Xuebin;Guo, Weiyao;Zhang, Chengguo;Zhao, Tongbin~ 33:CN ~31:202210504612.9 ~32:10/05/2022

2022/08491 ~ Complete ~54:WIND-RESISTANT PROTECTION DEVICE FOR VEGETATION RESTORATION TREES IN OPEN LIMESTONE MINING AREA ~71:BINZHOU UNIVERSITY, No. 391, Huanghe 5th Road, Bincheng District, Binzhou City, Shandong Province, People's Republic of China ~72: Jiangbao XIA;Jun ZHANG;Ke JI;Kedi ZHAO;Lucheng WANG;Meiyan WEI;Ruiqing CHEN;Siming GUO;Xiuping SONG;Yongliang LUO~ 33:CN ~31:202210581451.3 ~32:26/05/2022

2022/08513 ~ Complete ~54:WATERPROOF STRUCTURE OF CONSTRUCTION EXPANSION JOINT ~71:CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD., No. 251, Beiyangwa, Liyuan Town, Tongzhou District, People's Republic of China ~72: CHEN, Jian;HU, Xiaoke;WANG, Zhen;WEN, Tao;ZHENG, Kaixuan~

2022/08520 ~ Complete ~54:NOVEL SALMONELLA-BASED CORONAVIRUS VACCINE ~71:NEC ONCOLMMUNITY AS, Ullernchausseen 64, Norway ~72: LUBENAU, Heinz;MANSOUR, Marc~ 33:EP ~31:20167405.8 ~32:31/03/2020

2022/08528 ~ Complete ~54:A CLOSURE DEVICE FOR ASEPTIC LIQUID CONTAINING CONTAINERS ~71:ELOPAK GMBH, Havellandstrasse 14, 68309 , Mannheim, Germany ~72: FRODE ENEMARK;SEBASTIAN LAUHOF~ 33:EP ~31:20153936.8 ~32:27/01/2020;33:EP ~31:20203931.9 ~32:26/10/2020

2022/08533 ~ Complete ~54:BREATH SENSOR CALIBRATION METHODS AND APPARATUS ~71:McNeil AB, Box 941, HELSINGBORG 251 09, SWEDEN, Sweden ~72: HEROLD, Brian; JAMESON, Allen; TRIDAS, Eric~ 33:US ~31:62/955,558 ~32:31/12/2019

2022/08537 ~ Complete ~54:AN ENCODER, A DECODER AND CORRESPONDING METHODS FOR ADAPTIVE LOOP FILTERING ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ALSHINA, Elena Alexandrovna;ESENLIK, Semih;GAO, Han;KOTRA, Anand Meher;WANG, Biao~ 33:IB ~31:2020/051788 ~32:24/01/2020

2022/08540 ~ Complete ~54:A HEAVY-DUTY TRUSS MANIPULATOR AND MES SYSTEM INTERACTION METHOD ~71:NINGBO WELLLIH ROBOTS TECHNOLOGY CO., LTD., 48 Xiangqiao Road, Langxia Street Yuyao, People's Republic of China ~72: FU, Diyong;JIN, Chaochao;YUN, Jie~

2022/08482 ~ Provisional ~54:BUFFER ~71:LEVELOK ENGINEERING (PTY) LTD., 12 Grobler Street, Potchindustria, Potchefstroom, North West, 2520, South Africa ~72: BEREND JAN WERKMAN;JACOBUS JOHANNES CLAASSEN;JAUNDRÉ TALJAARD~

2022/08515 ~ Complete ~54:A LIFTABLE LARGE TRUCK MUD COVER ~71:CHENGDU VOCATIONAL AND TECHNICAL COLLEGE OF INDUSTRY, No. 818, Da'an Road, Zhengxing Street, Tianfu New District, Chengdu City, People's Republic of China ~72: YU, Zhigang~ 33:CN ~31:202210747495.9 ~32:29/06/2022

2022/08517 ~ Complete ~54:IDLE STATE UE SIGNAL RECEPTION METHOD, APPARATUS, STORAGE MEDIUM, AND TERMINAL ~71:UNISOC (CHONGQING) TECHNOLOGIES CO., LTD., No. 117-368, Yunhan Avenue, Beibei District, People's Republic of China ~72: GUAN, Wei;TAN, Shu;XIAN, Miao~ 33:CN ~31:201911402023.4 ~32:30/12/2019

2022/08524 ~ Complete ~54:3D CONCRETE PRINTING WITH DUCTILE CORDS ~71:NV BEKAERT SA, Bekaertstraat 2, 8550, Zwevegem, Belgium ~72: ANNE HOEKSTRA;MATTHIAS GOUWY~ 33:EP ~31:20160827.0 ~32:04/03/2020

2022/08531 ~ Complete ~54:BREATH SENSOR MEASUREMENT METHODS AND APPARATUS ~71:McNeil AB, Box 941, HELSINGBORG 251 09, SWEDEN, Sweden ~72: BALBIERZ, Daniel;HEROLD, Brian;JAMESON, Allen;TRIDAS, Eric;UTLEY, David S.~ 33:US ~31:62/955,561 ~32:31/12/2019

2022/08490 ~ Complete ~54:PROCESSING METHOD OF ANCIENT TEA TREE BLACK TEA ~71:CHONGQING ACADEMY OF AGRICULTURAL SCIENCES, Nongke Avenue, Baishi Yi Town, Jiulongpo District, Chongqing, People's Republic of China ~72: DENG Min;LUO Hongyu;WANG Jie;WU Quan;WU Xiuhong;XU Ze;YUAN Linying;ZHANG Ying;ZHONG Yingfu~

2022/08495 ~ Complete ~54:METHOD FOR IMPROVING PLANTING SURVIVAL RATE OF SEEDLINGS IN ROCKY MOUNTAIN AREAS ~71:BINZHOU UNIVERSITY, No. 391, Huanghe 5th Road, Bincheng District, Binzhou City, Shandong Province, People's Republic of China ~72: Chengrong BAI;Dandan ZHAO;Fanglei GAO;Hongjun YANG;Hongyan HAN;Jiangbao XIA;Jun ZHANG;Qiqi CAO;Wanli ZHAO;Yongkai LUO~ 33:CN ~31:202210582712.3 ~32:26/05/2022

2022/08504 ~ Complete ~54:INTRADIALYTIC USE OF SODIUM NITRITE ~71:HOPE MEDICAL ENTERPRISES, INC. DBA HOPE PHARMACEUTICALS, 16416 N. 92nd Street #125, Scottsdale, Arizona, United States of America ~72: CRAIG SHERMAN~ 33:US ~31:62/468,857 ~32:08/03/2017

2022/08527 ~ Complete ~54:CLOSURE DEVICE FOR A PAPER OR PAPERBOARD-BASED PACKAGE ~71:ELOPAK GMBH, Havellandstrasse 14, 68309 , Mannheim, Germany ~72: FRODE ENEMARK;SEBASTIAN LAUHOF~ 33:EP ~31:20153936.8 ~32:27/01/2020

2022/08539 ~ Complete ~54:A HEAVY-DUTY TRUSS ROBOT RACK AND PINION CLEARANCE ADJUSTMENT DEVICE ~71:NINGBO WELLLIH ROBOTS TECHNOLOGY CO., LTD., 48 Xiangqiao Road, Langxia Street Yuyao, People's Republic of China ~72: JIN, Chaochao;SHI, Chao;YUAN, ZhongLiang~

2022/08480 ~ Provisional ~54:FROTH FLOTATION CELL ~71:A.N.T Trust, 20 Belgrade Avenue, Spartan Ext 2, South Africa ~72: TERBLANCHE, Andre Nardus (Jnr);TERBLANCHE, Andre Nardus (Snr)~

2022/08479 ~ Provisional ~54:CANNED FOOD ~71:Astonandco (Pty) Ltd, 6 Trek Road, Mkondeni, South Africa ~72: JANAS, Justin~

2022/08489 ~ Complete ~54:METHOD FOR MONITORING HEAVY METALS IN SOIL OF WETLAND PARK ~71:Northwest Institute of Plateau Biology, Chinese Academy of Sciences, No. 23, Xinning Road, Chengxi District, Xining City, Qinghai Province, 810008, People's Republic of China ~72: CHEN, Kelong;LUO, Caiyun;WANG, Shiping;ZHAO, Liang;ZHAO, Xinquan;ZUO, Chao~

2022/08492 ~ Complete ~54:METHOD FOR ARTIFICIALLY PROMOTING VEGETATION RESTORATION IN ROCKY MINES ~71:BINZHOU UNIVERSITY, No. 391, Huanghe 5th Road, Bincheng District, Binzhou City, Shandong Province, People's Republic of China ~72: Fanglei GAO;Hongjun YANG;Jiangbao XIA;Jidun FANG;Jun ZHANG;Qiqi CAO;Wanli ZHAO;Ximei ZHAO;Yinping CHEN;Yongkai LUO~ 33:CN ~31:202210580654.0 ~32:26/05/2022

2022/08494 ~ Complete ~54:CONTROLLED RELEASE FERTILIZER SPECIAL FOR ALFALFA AND PREPARATION METHOD THEREOF ~71:Shanxi Agricultural University, No. 81, Longcheng Street, Xiaodian District, Taiyuan City, Shanxi Province, People's Republic of China ~72: Chen Yanni;Guo Fang;Han Zhishun;Kang Jiahui;Li Xiaofeng;Liang Xiuzhi;Wang Hui;Yang Fu;Zheng Minna~

2022/08497 ~ Complete ~54:DEEP SPACE FILE TRANSMISSION METHOD BASED ON LTP ASYNCHRONOUS ACCELERATED RETRANSMISSION STRATEGY ~71:Zhaoqing University, Zhaoqing Avenue, Duanzhou District, Zhaoqing City, Guangdong Province, People's Republic of China ~72: LIANG Yingchun;WU Haitao~

2022/08505 ~ Complete ~54:SURVEYING AND MAPPING QUALITY SUPERVISION AND INSPECTION SYSTEM AND METHOD ~71:ZHENGBING WEN, Room 302, No. 70 Qiaole New Village, Shadong Street, Tianhe District, Guangzhou, Guangdong, 510599, People's Republic of China ~72: ZHENGBING WEN~

2022/08488 ~ Complete ~54:SEISMIC TEST METHOD FOR FULL-SCALE FUEL ASSEMBLY ~71:China Institute of Water Resources and Hydropower Research, China Institute of Water Resources and Hydropower Research, No. 20, Chegongzhuang West Road, Haidian District, Beijing, 100044, People's Republic of China ~72: GAO, Jianyong;HU, Xiao;LV, Wei;XING, Guoliang;YANG, Chen;ZENG, Di;ZENG, Xinxiang;ZHANG, Lihong;ZHANG, Yanhong;ZHU, Hongdong~ 33:CN ~31:202110960174.2 ~32:20/08/2021

2022/08493 ~ Complete ~54:DEEP SPACE FILE TRANSMISSION METHOD BASED ON LTP MULTI-SESSION AGGREGATION STRATEGY ~71:Zhaoqing University, Zhaoqing Avenue, Duanzhou District, Zhaoqing City, Guangdong Province, People's Republic of China ~72: LIANG Yingchun;WU Haitao~

2022/08498 ~ Complete ~54:RAW MATERIAL STIRRING DEVICE FOR PRODUCTION OF DIAGNOSTIC REAGENTS ~71:Tianjin Hengren Biotech Co., Ltd., Room S604 and S624, 6th Floor, Experimental Building, Tianjin International Joint Academy of Biomedicine, No. 220, Dongting Road, Tianjin Economic-Technological Development Area, Tianjin, 300457, People's Republic of China ~72: JIA Wei;PENG Bo;ZHANG Xiaoni~

2022/08501 ~ Complete ~54:APPLICATION OF PROTEIN SUCCINYLATION MODIFICATION TO PREPARATION OF TUMOR CELL METABOLISM REGULATOR ~71:Bo Tang, Tianjin Medical University Cancer Institute and Hospital, Huanhu West Road, Hexi District, Tianjin, 300060, People's Republic of China ~72: Bo Tang;Liang Zhao~

- APPLIED ON 2022/08/01 -

2022/08543 ~ Provisional ~54:FLOAT ASSEMBLY FOR A LEVEL CONTROL VALVE ~71:DE KLERK, Nico, 2 POLITICIAN STREET, South Africa;PÖHL, Etienne Johan, 2 POLITICIAN STREET, South Africa ~72: DE KLERK, Nico;PÖHL, Etienne Johan~

2022/08544 ~ Complete ~54:A MULTI-FACTOR AUTHENTICATION METHOD AND SYSTEM ~71:Safe Take Cash (Pty) Ltd., 46 Mafunyane Street, South Africa ~72: VAN DER MERWE, Alwyn~ 33:ZA ~31:2021/05449 ~32:02/08/2021

2022/08549 ~ Complete ~54:ACTIVE NOISE REDUCTION HEADREST ~71:No. 719 Research Institute of China State Shipbuilding Corporation Limited, No. 19, Yangqiaohu Avenue, Canglong Island Development Zone, Jiangxia District, Wuhan City, Hubei Province, 430205, People's Republic of China ~72: CUI, Haijian;LEI, Chengyou;MA, Xunjun;WANG, Li~

2022/08557 ~ Complete ~54:METHOD FOR PREPARING PECTINASE BY FERMENTING PENICILLIUM OXALICUM CURRIE &THOM FROM GOOSE ~71:Animal Husbandry and Veterinary Station, Longshan Street, Haiyang City, Dayanjia veterinary station, Longshan street, Haiyang City, Yantai City, Shandong Province, People's Republic of China;Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao, Shandong, People's Republic of China;Qingdao Huihe Biotechnology Co., Ltd, No. 115, Yanyang Road, Chengyang street, Chengyang District, Qingdao, Shandong, People's Republic of China ~72: JING Lizhen;WANG Baowei;WANG Binghan;YUE Bin;ZHANG Ming'ai~ 2022/08559 ~ Complete ~54:PREPARATION METHOD OF HIGH-ACTIVITY CELLULOSE DECOMPOSITION COMPOSITE ENZYME MAGNETIC MICROSPHERE ~71:Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao, Shandong, People's Republic of China;Qingdao Huihe Biotechnology Co., Ltd, No. 115, Yanyang Road, Chengyang street, Chengyang District, Qingdao, Shandong, People's Republic of China ~72: FAN Wenlei;WANG Baowei;WANG Binghan;YUE Bin;ZHANG Ming'ai;ZOU Yi~

2022/08564 ~ Complete ~54:A POWDER AND TECHNICAL METHOD USED IN LASER CLADDING OF ALUMINUM BRONZE ALLOY GRADIENT COATING ~71:Shenyang University of Technology, No.111,Shenliao West Road,Economic&Technological Development Zone, Shenyang, People's Republic of China ~72: Jin Feng;Yin Tingyu;Zhang Chunhua;Zhang Song;Zhao Te~

2022/08567 ~ Complete ~54:A POWDER AND METHOD FOR LASER CLADDING WEAR-RESISTANT AND CORROSION-RESISTANT HIGH ENTROPY ALLOY COATING ON THE SURFACE OF STAINLESS STEEL ~71:Shenyang University of Technology, No.111,Shenliao West Road,Economic&Technological Development Zone, Shenyang, People's Republic of China ~72: Wang Dingchen;Wu Chenliang;Wu Hao;Zhang Chunhua;Zhang Song~

2022/08571 ~ Complete ~54:A DECOUPLING DRIVING FORCE CLASSIFICATION MODEL FOR INDUSTRIAL CARBON EMISSION ~71:Suzhou University, No. 49, Bianhe Middle Road, Suzhou City, Anhui Province, People's Republic of China ~72: Dong Chuanbing;Han Yafen;Li Qi;Xu Guowei~

2022/08575 ~ Complete ~54:SYNTHESIS PROCESS AND 808 NM LASER LIGHT EXCITED NOVEL BROADBAND EMITTING HO3+/YB3+/ND3+ CO DOPED KALF4UP CONVERTING PHOSPHOR FOR BIO IMAGING AND DISPLAY APPLICATIONS ~71:BOKARE, Prashant S., GONDWANA UNIVERSITY, GADCHIROLI, India;DHOBLE, Sanjay J., DEPARTMENT OF PHYSICS, R.T.M. NAGPUR UNIVERSITY, NAGPUR, India;JANBANDHU, Kapil S., DEPARTMENT OF APPLIED-PHYSICS, LAXMINARAYAN INSTITUTE OF TECHNOLOGY, R.T.M. NAGPUR UNIVERSITY, NAGPUR, India;PAWADE, VIJAY B., DEPARTMENT OF APPLIED-PHYSICS, LAXMINARAYAN INSTITUTE OF TECHNOLOGY, R.T.M. NAGPUR UNIVERSITY, NAGPUR, India;YERPUDE, Atul N., DEPARTMENT OF PHYSICS, N. H. COLLEGE, BRAMHAPURI, India ~72: BOKARE, Prashant S.;DHOBLE, Sanjay J.;JANBANDHU, Kapil S.;PAWADE, VIJAY B.;YERPUDE, Atul N.~

2022/08576 ~ Complete ~54:A SYSTEM TO PROVIDE RAGA MUSIC THERAPY FOR ALLEVIATING HUMAN AILMENTS AND A METHOD THEREOF ~71:Dr. Milind Uttam Nemade, A-603, Yash Residency, Plot No. 6 Sector-6, Airoli, India;Dr. Suresh Ukarande, Neelkanth Sadan, Flat No. B. 308, Sector-10, Khanda Colony, India;K. J, Somaiya Institute of Engineering and Information Technology Sion, Mumbai, Somaiya Ayurvihar Complex, Everard Nagar, Eastern Express Highway, Sion East, India ~72: Dr. Milind Uttam Nemade~

2022/08581 ~ Complete ~54:COMMUNICATION METHOD OF INTERFACE CONVERTER BASED ON KG510 RELAY STATION ~71:JIMEI UNIVERSITY, No. 185, Yinjiang Road, Jimei District, Xiamen City, People's Republic of China ~72: DU, Yong;HONG, Weixin;JIANG, Jingxia;LI, Tiejun;OUCHEN, Jianing;TANG, Xinyi;XU, Chujie;YUAN, Zhansheng;ZHENG, Wenjie~

2022/08584 ~ Complete ~54:INJECTION DEVICE AND A REUSABLE PART THEREFOR ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: HEISIEP, Joerg;JUNG, Andree;LEBAU, Olaf~ 33:EP ~31:20159319.1 ~32:25/02/2020

2022/08591 ~ Complete ~54:RECOVERY OF VANADIUM FROM ALKALINE SLAG MATERIALS ~71:AVANTI MATERIALS LTD, Level 1, 1292 Hay Street, West Perth, Western Australia, 6005, Australia ~72: DAVID ROBINSON;MARK DANIEL URBANI~ 33:AU ~31:2020900347 ~32:07/02/2020;33:AU ~31:2020900699 ~32:06/03/2020;33:AU ~31:2020902038 ~32:19/06/2020;33:AU ~31:2020904441 ~32:30/11/2020
2022/08596 ~ Complete ~54:EXPANDED DRY PRODUCT FOR CALORIC RESTRICTION AND SATIETOGENIC EFFECT, USES AND PROCESS FOR MANUFACTURE THEREOF ~71:MARS, INCORPORATED, 6885 Elm Street, McLean, Virginia, 22101-3883, United States of America ~72: LAURA TRASSY;NADIA DOUBLI-BOUNOUA~ 33:EP ~31:20305125.5 ~32:10/02/2020

2022/08578 ~ Complete ~54:CYMBOPOGON CITRATUSPLANT-MEDIATED SYNTHESIS PROCESS OF AL2O3:EU PHOSPHORS FOR ENHANCING WLEDS AND SOLAR CELL EFFICIENCY ~71:BOKARE, Prashant S., GONDWANA UNIVERSITY, GADCHIROLI, India;DHOBLE, Sanjay J., DEPARTMENT OF PHYSICS, R.T.M. NAGPUR UNIVERSITY, NAGPUR, India;PARAUHA, Yatish R., DEPARTMENT OF PHYSICS, R.T.M. NAGPUR UNIVERSITY, NAGPUR, India;TANWAR, Shruti, DEPARTMENT OF MICROBIOLOGY, TAYWADE COLLEGE, MAHADULA-KORADI, NAGPUR, India;THERE, Yogesh, DEPARTMENT OF MICROBIOLOGY, TAYWADE COLLEGE, MAHADULA-KORADI, NAGPUR, India ~72: BOKARE, Prashant S.;DHOBLE, Sanjay J.;PARAUHA, Yatish R.;TANWAR, Shruti;THERE, Yogesh~

2022/08585 ~ Complete ~54:METHODS AND COMPOSITIONS FOR REDUCING DELETERIOUS ENTERIC ATMOSPHERIC GASES IN LIVESTOCK ~71:LOCUS IP COMPANY, LLC, 30500 Aurora Road, Suite 180, United States of America ~72: ALIBEK, Ken;FARMER, Sean;HEIDECORN, Keith;KARATHUR, Karthik, N.~ 33:US ~31:62/972,973 ~32:11/02/2020;33:US ~31:63/024,191 ~32:13/05/2020;33:US ~31:63/038,985 ~32:15/06/2020;33:US ~31:63/126,711 ~32:17/12/2020

2022/08589 ~ Complete ~54:ANTIBODIES AGAINST KLK5 ~71:UCB BIOPHARMA SRL, Allée de la Recherche, 60, 1070, Brussels, Belgium ~72: ALISON TURNER;DAVID JAMES MCMILLAN;GILLIAN CLAIRE NESS;KERRY LOUISE TYSON;MARTIN ANTHONY REDHEAD;NEESHA DEDI;NICCOLO PENGO;PETER CHARLES ELLIOTT;SEAN MASON;SEPPE FRANS ROMAN LEYSEN~ 33:GB ~31:2001447.8 ~32:03/02/2020;33:GB ~31:2008022.2 ~32:28/05/2020

2022/08593 ~ Complete ~54:IGNITER TUBE FOR A PROPELLANT CHARGE ~71:EURENCO, 26 Allée des Saules, Sorgues, 84700, France ~72: ARNAUD FONTAINE;ROMAIN LEGLISE;SÉBASTIEN CUVELIER;SERGE LECUME~ 33:FR ~31:FR2000428 ~32:17/01/2020

2022/08594 ~ Complete ~54:DEVICE FOR LAYING PASTE PATTERNS IN A TUBE ~71:EURENCO, 26 Allée des Saules, Sorgues, 84700, France ~72: BASTIEN CHAUTAR;JULIEN LOYER;SÉBASTIEN CUVELIER~ 33:FR ~31:FR2000429 ~32:17/01/2020

2022/08603 ~ Provisional ~54:GULP PUMP ~71:Letlhogonolo Mogopodi, B615 Ralesobesobe Section, Luka, South Africa ~72: Letlhogonolo Mogopodi~ 33:ZA ~31:5/02 ~32:30/07/2022

2022/08558 ~ Complete ~54:ULTRAFINE GRINDING DEVICE FOR FOOD RAW MATERIALS ~71:Bozhou University, 2266 Tangwang Avenue, Economic Development Zone, Bozhou City, Anhui Province, People's Republic of China ~72: DONG Shujia;LIU Lu;PU Shunchang;XING Shuang~

2022/08568 ~ Complete ~54:ALL-ALUMINUM AUTO-INDUCTION SPICE LIFTING PLATFORM FOR SMART HOME ~71:Shandong Fanglin Aluminum Technology Co., Ltd, No. 205, Baiyun 6th Road, Haosheng sub district office, Zouping City, Shandong Province, People's Republic of China ~72: Wang Qi~

2022/08573 ~ Complete ~54:COAL MINE UNDERGROUND GAS PURIFY DEVICE ~71:CCTEG Chongqing Research Institute Co., Ltd, No. 6, Kecheng Road, Jiulongpo District, Chongqing, People's Republic of China;CCTEG Coal Mining Research Institute Co., Ltd, No.5 qingniangou Road, Hepingli, Chaoyang District, Beijing, People's Republic of China;Chongqing university, No. 174, shazheng street, Shapingba District, Chongqing, People's Republic of China;North China University of science and technology, No. 467 Xueyuan Street, Sanhe Yanjiao Development Zone, Langfang City, Hebei Province, People's Republic of China ~72: Chen Guangjin;Chen Haoyi;Chen Liang;Cheng Zhiheng;Gao Haobin;Li Zhenhua;Wang Hongbing;Xu Zhenwei;Xue Ao;Zhang Jinhu;Zhang Yongjiang;Zhao Zhiyan;Zou Quanle~

2022/08579 ~ Complete ~54:ADDITIVE MANUFACTURING THROUGH BINDER JETTING TECHNIQUE FOR BIOMEDICAL EQUIPMENT ~71:Dr.Bhimraj Gawade, Assistant Professor, Department of Chemistry, Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada, India; Dr.D.Rosy Salomi Victoria, Associate Professor, Department of CSE, St.Joseph's College of Engineering, Chennai, India; Dr.J.Sai Chandra, Assistant Professor, Department of Chemistry, JNTUH University College of Engineering, Sultanpur, India; Dr.Kazi Kutubuddin Sayyad Liyakat, S/o Dilshadbegam Kazi, House No:299, Khed, North Solapur, Solapur, India; Dr. Kumar Pratyush, Assistant Professor, Department of Pharmaceutical Chemistry, SVKM's Institute of Pharmacy, Dhule, India; Dr. Sushma Jaiswal, Assistant Professor, Department of Computer Science & amp; Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur, India;Mr.A.Sampath Dakshina Murthy, Assistant Professor, Department of ECE, Vignan's Institute of Information Technology (A), Visakhapatnam, India; Mr. Anuj Kumar Sharma, Assistant Professor, Department of ECE, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar, India; Mr. Gajendra Singh Rawat, Assistant Professor, Department of EE, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar, India; Mr.Shiv Kumar Singh, Assistant Professor, Department of ECE, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar, India ~72: Dr.Bhimraj Gawade; Dr.D.Rosy Salomi Victoria; Dr.J.Sai Chandra; Dr.Kazi Kutubuddin Sayyad Liyakat; Dr.Kumar Pratyush; Dr.Sushma Jaiswal; Mr.A.Sampath Dakshina Murthy:Mr.Anui Kumar Sharma:Mr.Gaiendra Singh Rawat:Mr.Shiv Kumar Singh~

2022/08583 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF THE COD PEPTIDE CHELATED FERROUS HYDROGEL ~71:QINGDAO UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 99 Songling Road, Laoshan District, Qingdao City, People's Republic of China;YELLOW SEA FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCE, No. 106 Nanjing Road, Shinan District, Qingdao City, People's Republic of China ~72: LIU, Qi;YU, Yueqin;ZHAO, Ling~

2022/08587 ~ Complete ~54:AURISTATIN-RELATED COMPOUNDS, CONJUGATED AURISTATIN-RELATED COMPOUNDS, AND METHODS OF USE THEREOF ~71:CYTOMX THERAPEUTICS, INC., 151 OYSTER POINT BOULEVARD, SUITE 400, SOUTH SAN FRANCISCO, CALIFORNIA 94080, USA, United States of America ~72: CHALLITA-EID, Pia;JACKSON, Dowdy;KEMBALL, Christopher;MENDELSOHN, Brian, A.;SCHLEYER, Siew~ 33:US ~31:62/957,780 ~32:06/01/2020

2022/08601 ~ Complete ~54:RESIN REACTORS IN SERIES PEPTIDE SYNTHESIZER ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: JOHNSON, Martin D.;KOPACH, Michael E.;WEBSTER, Luke P.~ 33:US ~31:62/970,247 ~32:05/02/2020

2022/08613 ~ Complete ~54:METHODS FOR IMPROVING CELL VIABILITY IN A PRODUCTION BIOREACTOR ~71:GENZYME CORPORATION, 50 Binney Street, Cambridge, MA, United States of America ~72: JOHNSON, Timothy;LU, Jiuyi;MCLARTY, Jean;REN, Yukun;SHAH, Neha;WALTHER, Jason;WANG, Jonathan~ 33:US ~31:62/644,339 ~32:16/03/2018;33:US ~31:62/645,755 ~32:20/03/2018

2022/08550 ~ Complete ~54:MULTI-TARGET TRACKING DEVICE BASED ON MOBILE ROBOT PLATFORM ~71:Zhuhai City Polytechnic, Jiner Road, Xihucheng District, Jinwan District, Zhuhai City, Guangdong Province, 519040, People's Republic of China ~72: LIU, Yujie;MA, Weimin;QIU, Xiaoqun;YAN, Yupei;YANG, Yu;ZHU, Leping;ZHU, Shaoping~

2022/08554 ~ Complete ~54:THE POWDER AND TECHNICAL METHOD USED IN LASER CLADDING OF SELF-LUBRICATING WEAR-RESISTANT CO-BASED ALLOY ~71:Shenyang University of Technology,

No.111,Shenliao West Road,Economic&Technological Development Zone, Shenyang, People's Republic of China ~72: Huang Yichi;Wu Chenliang;Xu Tongzhou;Zhang Chunhua;Zhang Song~

2022/08562 ~ Complete ~54:A POWDER AND METHOD FOR PREPARING A WEAR-CORROSION-RESISTANT CLADDING LAYER ON THE SURFACE OF TI6AL4V ~71:Shenyang University of Technology, No.111,Shenliao West Road,Economic&Technological Development Zone, Shenyang, People's Republic of China ~72: Wu Chenliang;Zhang Chunhua;Zhang Hanfang;Zhang Song;Zhao Te~

2022/08566 ~ Complete ~54:A METHOD FOR TESTING THE INTERFACE BONDING STRENGTH OF LASER CLADDING STAINLESS STEEL CLADDING LAYERS ~71:Shenyang University of Technology, No.111,Shenliao West Road,Economic&Technological Development Zone, Shenyang, People's Republic of China ~72: Nie Minghao;Wu Chenliang;Xu Tongzhou;Zhang Chunhua;Zhang Song~

2022/08570 ~ Complete ~54:COMBINE TRAINING SPORT EQUIPMENT ~71:Anhui Medical College, No. 632, Furong Road, economic development zone, Hefei, Anhui, People's Republic of China ~72: Xu Hui~

2022/08590 ~ Complete ~54:A METHOD FOR COOLING OF A USER SPACE AND AIR CONDITIONING ARRANGEMENT ~71:LOCUS BONUM AB, Söderborgsvägen 32, 67195, KIässbol, Sweden ~72: ADAM FJAESTAD~ 33:SE ~31:2050061-7 ~32:23/01/2020

2022/08597 ~ Complete ~54:METHODS OF TREATMENT FOR ALPHA-1 ANTITRYPSIN DEFICIENCY ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: BOSHENG TIAN;BRENDA CIRINCIONE;BRIAN J HARE;CARMEN BOZIC;DAVID KENT STILES;DAVID RHEE;EDWARD INGENITO;GAUTHAM MARIGOWDA;MARK CHRISTOPHER PETERSON;PORNTULA PANORCHAN;SANJEEV KUMAR;WEIYAN ZHANG~ 33:US ~31:62/967,878 ~32:30/01/2020;33:US ~31:63/029,971 ~32:26/05/2020

2022/08602 ~ Complete ~54:BCMA CAR-T CELLS WITH ENHANCED ACTIVITIES ~71:Allogene Therapeutics, Inc., 210 E. Grand Avenue, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BALAKUMARAN, Arun;LIN, Regina Junhui;PANOWSKI, Siler;SASU, Barbra Johnson;SOMMER, Cesar Adolfo;VAN BLARCOM, Thomas John~ 33:US ~31:62/980,914 ~32:24/02/2020;33:US ~31:63/020,713 ~32:06/05/2020;33:US ~31:63/053,409 ~32:17/07/2020;33:US ~31:63/092,681 ~32:16/10/2020

2022/08546 ~ Complete ~54:A CANTILEVER ROLLER ~71:VESCONITE BEARINGS, 77 MIMETES ROAD, DENVER, JOHANNESBURG, 2094, SOUTH AFRICA, South Africa ~72: FOURIE, Petrus, Johannes;LEGER, Jean-Patrick;VAN WYK, Juan~ 33:ZA ~31:2021/05768 ~32:13/08/2021

2022/08547 ~ Complete ~54:PROCESS FOR DETECTING FRAUDULENT BEHAVIOURS IN ACTIVITIES CONDUCTED BY USERS OF CONTENT MANAGEMENT SYSTEMS ~71:UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR), Avenida de la Paz 137,, Spain ~72: BURGOS SOLANS, Daniel~

2022/08551 ~ Complete ~54:STRATIFIED SAMPLING DEVICE FOR POLLUTION CONTROL OF CULTIVATED LANDS BASED ON GREEN AGRICULTURE ~71:Institute of Resources and Environment, Tibet Academy of Agricultural and Animal Husbandry Sciences, Agricultural Science and Technology Innovation Park, Nongke Road, Chengguan District, Lhasa City, Tibet Autonomous Region, People's Republic of China ~72: XIEYongchun~

2022/08556 ~ Complete ~54:SUBSTRATE FOR SOILLESS CULTURE OF GINSENG AND METHOD FOR SOILLESS CULTURE OF GINSENG ~71:Yanbian University, No. 977 Park Road, Yanji City, Yanbian Korean Autonomous Prefecture, Jilin Province, 133002, People's Republic of China ~72: FANG, Xue;FU, Minjie;HAN, Lianhua;LI, Xiangguo;ZHOU, Peihua~

2022/08560 ~ Complete ~54:PURPLE WHEAT-INFUSED LIQUOR AND PREPARATION METHOD THEREOF ~71:Guantao County Huayezhuangyuan Black Wheat Industry Co Ltd, Guantao County, Handan city, Hebei Province, People's Republic of China;Institute of Cereal and Oil Crops, Hebei Academy of agriculture and forestry Sciences, No. 162, Heng-shan Street, Hi-tech district, Shijiazhuang, Hebei Province, People's Republic of China ~72: LAN Suque;LI Xingpu;MENG Yaning;NIU Zhenhua;ZHANG Yelun~

2022/08565 ~ Complete ~54:A POWDER AND METHOD FOR LASER ADDITIVE MANUFACTURING OF NB-CONTAINING CORROSION-RESISTANT STAINLESS STEEL ~71:Shenyang University of Technology, No.111,Shenliao West Road,Economic&Technological Development Zone, Shenyang, People's Republic of China ~72: Cui Xue;Liang Xudong;Wu Chenliang;Zhang Chunhua;Zhang Song~

2022/08577 ~ Complete ~54:A LOW COST UVC BASED AIR PURIFIER ~71:BOKARE, Prashant S., GONDWANA UNIVERSITY, GADCHIROLI, India;CHOPRA, Vibha, P.G. DEPARTMENT OF PHYSICS & amp; ELECTRONICS, DAV COLLEGE, AMRITSAR, India;DHOBLE, Sanjay J., DEPARTMENT OF PHYSICS, R.T.M. NAGPUR UNIVERSITY, NAGPUR, India ~72: BOKARE, Prashant S.;CHOPRA, Vibha;DHOBLE, Sanjay J.~

2022/08582 ~ Complete ~54:ALLYL DISULFIDE TEST BASE WITH ANTI-TOPPLING FUNCTION ~71:WUTONG AROMA CHEMICALS CO., LTD., West Yandong Village, Jiangtun Town, Tengzhou City, Zaozhuang City, People's Republic of China ~72: CHEN, Xiang;SONG, Yang;YAN, Peiliang;YIN, Lina;ZANG, Chuanjin;ZHANG, Guangjun;ZHANG, Hua;ZHANG, Leiliang~ 33:CN ~31:202122711804.0 ~32:08/11/2021

2022/08588 ~ Complete ~54:ANTIBODIES AGAINST KLK5 ~71:UCB BIOPHARMA SRL, Allée de la Recherche, 60, 1070, Brussels, Belgium ~72: ALISON TURNER;DAVID JAMES MCMILLAN;GILLIAN CLAIRE NESS;KERRY LOUISE TYSON;MARTIN ANTHONY REDHEAD;NEESHA DEDI;NICCOLO PENGO;PETER CHARLES ELLIOTT;SEAN MASON;SEPPE FRANS ROMAN LEYSEN~ 33:GB ~31:2001447.8 ~32:03/02/2020

2022/08595 ~ Complete ~54:EXPANDED DRY PRODUCT FOR IMPROVING THE DENTAL HYGIENE OF A PET ~71:MARS, INCORPORATED, 6885 Elm Street, McLean, Virginia, 22101-3883, United States of America ~72: KARINE BRECIN;LAURA TRASSY~ 33:EP ~31:20305127.1 ~32:10/02/2020

2022/08599 ~ Complete ~54:TIE2-BINDING AGENTS AND METHODS OF USE ~71:GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080-4990, United States of America ~72: DANIELLE MARIE DICARA;ERIN L CHRISTENSEN;GU ZHANG;JULIE Q HANG;MINHONG YAN;NICHOLAS JOHN AGARD;PHILIP E HASS;ROBERT PAUL MORSE;SARAH SANOWAR;VITTAL SHIVVA~ 33:US ~31:62/993,930 ~32:24/03/2020;33:US ~31:63/046,318 ~32:30/06/2020

2022/08580 ~ Complete ~54:A BRIDGE BEARING WITH STABLE INSTALLATION AND STABLE STRUCTURE ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, New District, Pingdingshan City, People's Republic of China ~72: CAI, Jing;CAI, Yujie;CHEN, Yajin;LAN, Qixun;LI, Deying;LI, Yajie;LIU, Yuxiao;MU, Jingjing;WANG, Chaoyong;WANG, Dongxia;WANG, Zhe;XIE, Fan;XU, Huafeng;ZHANG, Xiaoguo;ZHANG, Yao;ZHAO, Xupei;ZHOU, Shuke~

2022/08586 ~ Complete ~54:ARRANGEMENT OF ELECTRONIC MODULES FOR IMMOBILIZING AND DEMOBILIZING GOODS VEHICLES, WITH ENGINE TAMPER DETECTION SYSTEM, AS WELL AS OPERATING PARAMETER CAPTURE AND OUT-OF-SIGNAL-COVERAGE-AREA SECURITY SYSTEM ~71:3 SIL SOLUÇÕES INTEGRADAS EM LOGÍSTICA DE FROTAS AUTOMOTIVAS LTDA., ALAMEDA ARAGUAIA, 270 - 2 ANDAR - ALPHAVILLE 06455-000 BARUERI, Brazil ~72: GUILHERME DE CASTRO BICUDO PISANI~ 33:BR ~31:BR1020200015320 ~32:23/01/2020 2022/08592 ~ Complete ~54:HOLDING DEVICE FOR A NON-RETURN VALVE FLAP AND METHOD FOR POSITIONING SAME ~71:ELECTRICITE DE FRANCE, 22-30, avenue de Wagram, 75008, Paris, France ~72: CORALIE FRENEAU;FABIEN HOUSSAY;MAURICE DANTIC~ 33:FR ~31:FR2000946 ~32:31/01/2020

2022/08598 ~ Complete ~54:ISOFORM-SELECTIVE ANTI-TGF-BETA ANTIBODIES AND METHODS OF USE ~71:GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080-4990, United States of America ~72: DARYLE DEPIANTO;DHAYA SESHASAYEE;JIA WU;JIAN PING YIN;JOSEPH R ARRON;PATRICK J LUPARDUS;THIRUMALAI RAJAN RAMALINGAM;TIANHE SUN;TULIKA TYAGI;WEI-CHING LIANG;WEIYU LIN;WENDY GREEN HALPERN;YAN WU~ 33:US ~31:62/991,806 ~32:19/03/2020;33:US ~31:63/044,478 ~32:26/06/2020

2022/08600 ~ Complete ~54:PHARMACEUTICAL FORMULATIONS ~71:Novo Nordisk A/S, Novo Allé, BAGSVÆRD 2880, DENMARK, Denmark ~72: HANSEN, Rosa Rebecca Erritzøe;POULSEN, Christian;SANDER, Tommy~ 33:EP ~31:20157963.8 ~32:18/02/2020;33:EP ~31:20171240.3 ~32:24/04/2020;33:EP ~31:20180645.2 ~32:17/06/2020;33:EP ~31:20180832.6 ~32:18/06/2020;33:EP ~31:21150056.6 ~32:04/01/2021;33:EP ~31:21151004.5 ~32:11/01/2021;33:EP ~31:21154657.7 ~32:02/02/2021

2022/08542 ~ Provisional ~54:EXPLOSIVES ICT CONTROL ~71:Thabang Joy Bogopa, Stand no 253 Makotse village, South Africa ~72: Thabang Joy Bogopa~ 33:ZA ~31:1 ~32:08/08/2019

2022/08545 ~ Complete ~54:A METHOD AND SYSTEM OF AUTHORIZING A PAYMENT TRANSACTION ~71:Safe Take Cash (Pty) Ltd., 46 Mafunyane Street, South Africa ~72: VAN DER MERWE, Alwyn~ 33:ZA ~31:2021/05450 ~32:02/08/2021

2022/08548 ~ Complete ~54:METHOD FOR MANUFACTURING SHEET METAL PART WITH S-SHAPED SECTION ~71:XUANCHENG VOCATIONAL & amp; TECHNICAL COLLEGE, No. 698, Xunhua Road, Xuancheng City, Anhui Province, 242000, People's Republic of China ~72: CHUNMEI DING;LI WANG;LIYONG HU;QINGSONG LU;TINGTING YAN;ZHAOMING HUANG~ 33:CN ~31:2022108258618 ~32:14/07/2022

2022/08552 ~ Complete ~54:HIGH-PERFORMANCE RUBBER-MODIFIED ASPHALT FACTORY PRODUCTION EQUIPMENT ~71:GUANGXI TRANSPORTATION SCIENCE AND TECHNOLOGY GROUP CO., LTD, No. 158, Xinkang West Road, Xixiangtang District, Nanning, Guangxi, 530007, People's Republic of China;Guangxi Jiaoke New Materials Technology Co.,Ltd., No. 6, Gaoxin 2nd Road, Xixiangtang District, Nanning, Guangxi, 530007, People's Republic of China ~72: LIN, Jiasheng;LIU, Ping;PAN, Zhiqiong;TAN, Jizong;WANG, Xiaolei;XIONG, Baolin;YIN, Yehao;YUAN, Haitao;ZHANG, Chenxi;ZHANG, Hongbo;ZHANG, Honggang~

2022/08555 ~ Complete ~54:DRIP IRRIGATION DEVICE FOR ARTIFICIAL ECOLOGICAL RESTORATION IN OPEN-PIT LIMESTONE MINES ~71:BINZHOU UNIVERSITY, No. 391, Huanghe 5th Road, Bincheng District, Binzhou City, Shandong Province, People's Republic of China ~72: Chengrong BAI;Fanglei GAO;Hongjun YANG;Jiangbao XIA;Jun ZHANG;Qiqi CAO;Siming GUO;Wanli ZHAO;Ximei ZHAO;Yinping CHEN~ 33:CN ~31:202210580862.0 ~32:26/05/2022

2022/08561 ~ Complete ~54:HIGH-PERFORMANCE AND HIGH-STRENGTH TANDEM SEAT TYPE COMPOSITE MATERIAL FUSELAGE STRUCTURE ~71:Wuhu Zhongke Aircraft Manufacturing Co., Ltd., Wuhu Aviation Industrial Park, Wanzhi District, Wuhu, Anhui, 241199, People's Republic of China ~72: Chao Wang;Hailu Wang;Liu Yang;Zhaoyun Sun;Zhijun Li~

2022/08572 ~ Complete ~54:COAL MINE SAFETY PROTECTION DEVICE ~71:Foshan Saiyu extreme sports goods Co., Ltd, No. 91101-91104, floor 11, building 9, Guangfo Zhicheng, No. 85, Lingnan Road, Dali Town, Nanhai District, Foshan City, Guangdong Province, People's Republic of China; Jiangsu hengyichuang Intelligent

Technology Co., Ltd, Room 216, unit 2, South B-17, big data Industrial Park, Yannan high tech Zone, Yancheng City, Jiangsu Province, People's Republic of China;North China University of science and technology, No. 467 Xueyuan Street, Sanhe Yanjiao Development Zone, Langfang City, Hebei Province, People's Republic of China ~72: Chen Liang;Cheng Zhiheng;Gao Haobin;Guo Kai;Hou Jianjun;Huang Zhiting;Li Meichen;Xue Ao;Zhang Jingui;Zhang Pu~

2022/08574 ~ Complete ~54:AN ADVERSE EVENT RISK PREDICTION METHOD BASED ON PATIENTS' ELECTRONIC HEALTH RECORDS ~71:University of Electronic Science and Technology of China, No.2006 Xiyuan Avenue, West Hi-Tech Zone, Chengdu City, Sichuan Province, 611731, People's Republic of China ~72: Fu Chong;Li Qiaoqin;Liu Yongguo;Zhang Yun;Zheng Hengjie;Zhu Jiajing~ 33:CN ~31:202210322129.9 ~32:30/03/2022

2022/08553 ~ Complete ~54:NEW TYPE OF RUBBER-MODIFIED ASPHALT PRODUCTION PROCESS METHOD ~71:GUANGXI TRANSPORTATION SCIENCE AND TECHNOLOGY GROUP CO., LTD, No. 158, Xinkang West Road, Xixiangtang District, Nanning, Guangxi, 530007, People's Republic of China;Guangxi Jiaoke New Materials Technology Co.,Ltd., No. 6, Gaoxin 2nd Road, Xixiangtang District, Nanning, Guangxi, 530007, People's Republic of China ~72: LIU, Ping;PAN, Zhiqiong;TAN, Jizong;WANG, Xiaolei;XIONG, Baolin;YIN, Yehao;YUAN, Haitao;ZHANG, Hongbo;ZHANG, Honggang~

2022/08563 ~ Complete ~54:A CONTROL METHOD OF RESIDUAL STRESS FOR LOW ALLOY STEEL PREPARED BY SELECTIVE LASER MELTING FOR HIGH-SPEED RAIL ~71:Shenyang University of Technology, No.111,Shenliao West Road,Economic&Technological Development Zone, Shenyang, People's Republic of China ~72: Cui Xue;Wu Chenliang;Zhang Chunhua;Zhang Hanfang;Zhang Song~

2022/08569 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE FORMULA FOR RESISTING ANIMALS DERMATOMYCOSIS AND PREPARATION METHOD THEREOF ~71:Sichuan Agricultural University, 211 Huimin Road, Wenjiang District, Chengdu City, Sichuan Province, People's Republic of China ~72: Cai Dongjie;Gu Yu;Liu Jie;Liu Zhen;Ma Xiaoping;Zuo Zhicai~ 33:CN ~31:202111359256.8 ~32:17/11/2021

- APPLIED ON 2022/08/02 -

2022/08607 ~ Provisional ~54:A DEVICE FOR RECEIVING, STORING AND TRANSFERRING ELECTRONIC TOKENS ~71:RYAN EDGAR DENNIS ROSEVEARE, 21 York Avenue, Craighall Park, Johannesburg, South Africa;WAYNE LESLIE LURIE, 7A York Avenue Craighall Park , Johannesburg, 2196, South Africa ~72: RYAN EDGAR DENNIS ROSEVEARE;WAYNE LESLIE LURIE~

2022/08616 ~ Complete ~54:A DEVICE FOR POSITIONING AND SECURING BLAST EQUIPMENT IN A BLAST HOLE ~71:LUBBE, Gert, Petrus, 74 GRIETJIE HOEWES, PHALABORWA, 1390, SOUTH AFRICA, South Africa ~72: LUBBE, Gert, Petrus~

2022/08618 ~ Complete ~54:MEASUREMENT DEVICE AND MEASUREMENT SYSTEM FOR PERCUTANEOUS OXYGEN SATURATION, AND METHOD FOR USING MEASUREMENT SYSTEM ~71:THE FIRST AFFILIATED HOSPITAL OF ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY (HUAINAN FIRST PEOPLE'S HOSPITAL), No. 203, Huaibin Road, Tianjia'an, Huainan City, People's Republic of China ~72: CAI, Fulin;CHEN, Xiufeng;XUE, Sheng;ZHANG, Mei~

2022/08624 ~ Complete ~54:LITHIUM DISILICATE GLASS-CERAMIC WITH HIGH STRENGTH AND HIGH PERMEABILITY AND PREPARATION METHOD AND USE THEREOF ~71:Aidite (Qinhuangdao) Technology Co., Ltd., No. 9, Dushan Road, Economic and Technological Development Zone, Qinhuangdao, Hebei, 066000, People's Republic of China ~72: NIE, Quanyi;WANG, Xiaojun;YU, Yong;ZHANG, Jiaxin;ZHAO, Lijia;ZHOU, Shenggang~ 33:CN ~31:202110901288.X ~32:06/08/2021

2022/08628 ~ Complete ~54:NUMERICAL SIMULATION CALCULATION METHOD AND SYSTEM FOR CONTROLLING GROUTING ~71:Hunan Agricultural University, No. 1 Nongda Road, Furong District, Changsha City, Hunan Province, 410011, People's Republic of China;Hunan Xiangyuan Zhenxing Information Technology Service Co., Ltd., No. 618, Heping Road, Longping Hi-Tech Park, Changsha Furong District, China (Hunan) Pilot Free Trade Zone, Hunan Province, 410000, People's Republic of China ~72: CHEN, Cheng;FU, Jianjun;LI, Zhe;ZHANG, Hao~

2022/08633 ~ Complete ~54:DOUBLE FRICTION DRAFT GEAR ASSEMBLY ~71:AMSTED RAIL COMPANY, INC., 311 South Wacker, Suite 5300, United States of America ~72: ALEYNIKOV, Igor;HARRIS, Zachary~ 33:US ~31:62/988,435 ~32:12/03/2020;33:US ~31:17/007,317 ~32:31/08/2020

2022/08641 ~ Complete ~54:QUANTITATIVE CONTROL OF ACTIVITY OF ENGINEERED CELLS EXPRESSING UNIVERSAL IMMUNE RECEPTORS ~71:THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, 3600 Civic Center Boulevard 9th Floor, Philadelphia, Pennsylvania, 19104, United States of America ~72: ANDREW TSOURKAS;DANIEL J POWELL JR;NICHOLAS MINUTOLO~ 33:US ~31:62/965,593 ~32:24/01/2020

2022/08635 ~ Complete ~54:ANTI D-DIMER RECOMBINANT ANTIBODIES, METHODS AND USES THEREOF ~71:F. HOFFMANN-LA ROCHE AG, Grenzacherstrasse 124, Switzerland ~72: BERRY, Jody;BOOTH, Elizabeth A.;HOLZ, Charles;MONTANINI, Virginia;WASLEY, Tristan~ 33:US ~31:62/979,253 ~32:20/02/2020

2022/08640 ~ Complete ~54:VACCINES AND USES THEREOF TO INDUCE AN IMMUNE RESPONSE TO SARS-COV2 ~71:GEOVAX, INC., 1900 Lake Park Drive, Suite 380, Smyrna, Georgia, 30080, United States of America ~72: ARBAN DOMI;FARSHAD GUIRAKHOO;MARY JO HAUSER~ 33:US ~31:62/976,913 ~32:14/02/2020;33:US ~31:62/977,402 ~32:16/02/2020;33:US ~31:62/992,710 ~32:20/03/2020;33:US ~31:63/026,580 ~32:18/05/2020

2022/08648 ~ Complete ~54:COMBINATION THERAPY COMPRISING A2A/A2B AND PD-1/PD-L1 INHIBITORS ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: CARLSEN, Peter Niels;HUANG, Taisheng;LI, Yong;LIN, Luping;QI, Chao;THEKKAT, Pramod Unnikrishnan;WANG, Hui;WANG, Xiaozhao;WU, Liangxing;YAO, Wenqing;ZHU, Wenyu~ 33:US ~31:62/956,960 ~32:03/01/2020

2022/08605 ~ Provisional ~54:IMPROVED COMPUTER METHOD ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: Chiao-Shing Lin;Daniel Barend Rademeyer;Dieter Sydney-Charles Mellet;Dylan Els;Frederick Johannes Bruwer;Frederick Johannes Bruwer Jnr.;Jacobus Daniel van Wyk~

2022/08611 ~ Provisional ~54:SELF CLEANING WATER AND MUD RECOVERY SYSTEM ~71:TITAN MINING (PTY) LTD, Plot 67, Vlakplaas 20, Tarlton, KRUGERSDORP 1739, Gauteng, SOUTH AFRICA, South Africa ~72: LAWRENCE, Allen Preston~

2022/08621 ~ Complete ~54:PREPARATION METHOD OF GRAPHENE POLYESTER-NYLON BLENDED YARN ~71:WEIFANG BUSINESS VOCATIONAL COLLEGE, NO. 5600, FENGHUANG ROAD, People's Republic of China ~72: HAO, Baomin;JIA, Dewei~

2022/08627 ~ Complete ~54:POLYMETALLIC CATALYST FOR THE CATALYTIC OXIDATION OF OZONE FOR THE REMOVAL OF COD AND CHROMATICITY FROM WASTEWATER AND A PREPARATION METHOD THEREOF ~71:Renmin University of China, No. 59 Zhongguancun Street, Haidian District, Beijing, People's Republic of China ~72: LI Qiangang;LIU Guohua;QI Lu;Xu Xianglong~ 2022/08632 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS OF LIPOIC ACID CHOLINE ESTER SALTS AND METHODS OF TREATMENT USING SAME ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: BUCHER, Christoph;FLUBACHER, Dietmar;FOUTCH, Jeremiah, Douglas;GHOSH, Malay;KLUGE, Johannes, Franz;LI, Zaixing;MCALISTER, Cale, Ry;WAYKOLE, Liladhar, Murlidhar;WORTHMANN, Jens, Soren;ZHU, Tingying~ 33:CN ~31:PCT/CN2020/079271 ~32:13/03/2020;33:US ~31:63/013,836 ~32:22/04/2020

2022/08642 ~ Complete ~54:RELATED TARGET FOR TREATING FIBROTIC DISEASES AND APPLICATIONS THEREOF ~71:Shanghai Synvida Biotechnology Co. Ltd., Building C, No.888, Huanhu West 2nd Road, Lin-gang Special Area, China (Shanghai) Pilot Free Trade Zone, SHANGHAI 201303, CHINA (P.R.C.), People's Republic of China ~72: FAN, Xuemei;GENG, Yan;LI, Lin;LIU, Junling~ 33:CN ~31:202010076729.2 ~32:23/01/2020;33:CN ~31:202011212639.8 ~32:03/11/2020

2022/08650 ~ Complete ~54:PROCESS FOR SITE-SPECIFIC MODIFICATION OF AN ANTIBODY ~71:ORANO MED, 125 Avenue de Paris, France ~72: A. STALLONS, Tania;E. KIEFER, Garry;ROJAS-QUIJANO, Federico;TORGUE, Julien~ 33:EP ~31:20305138.8 ~32:13/02/2020

2022/08608 ~ Provisional ~54:GUIDE APPARATUS FOR DISPLACING A SUBMERSIBLE PUMP SYSTEM ~71:SPEARPOINT ENGINEERING (PTY) LTD, 564 SECTION C, KWAMHLANGA VILLAGE, South Africa ~72: ZWANE, Elias Vusi~

2022/08622 ~ Complete ~54:ELASTIC EPOXY GROUTING MATERIAL AND PREPARATION METHOD THEREOF ~71:China Institute of Water Resources and Hydropower Research, A-1 Fuxing Road, Haidian District, Beijing, 100038, People's Republic of China ~72: LU, Wei;REN, Zengzeng;WANG, Lijuan;WANG, Wenzhao;ZHANG, Jinjie;ZHAO, Weiquan;ZHOU, Jianhua~

2022/08626 ~ Complete ~54:BACILLUS SIMPLEX S62 AND ITS APPLICATION ~71:Qinghai Academy of Agriculture and Forestry Sciences, No.251 Ningda Road, Xining City, Qinghai Province, People's Republic of China ~72: LI Wei;SHEN Shuo~

2022/08631 ~ Complete ~54:AN ALLOY COMPOSITION FOR HOLLOW CYLINDRICAL BLANK COMPONENT AND A METHOD FOR PRODUCING THE SAME ~71:MOHATTA, Saurabh, Alok, Grand Paradi CHS Ltd. B Wing, 12th Floor, Flat B 122, 26, August Kranti Marg, Kemps Corner, India ~72: MOHATTA, Saurabh, Alok~ 33:IN ~31:202121020398 ~32:04/05/2021

2022/08638 ~ Complete ~54:BIOCATALYST ADAPTATION AS LOAD FOLLOWING SOLUTION ~71:ELECTROCHAEA GMBH, Semmelweisstrasse 3, Germany ~72: COCIANCICH, Matteo;HAFENBRADL, Doris;LARDON, Laurent;PINDER, Zachary~ 33:DE ~31:10 2020 103 803.8 ~32:13/02/2020

2022/08645 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INDUCING AN IMMUNE RESPONSE ~71:Oxford University Innovation Limited, Buxton Court, 3 West Way, OXFORD OX2 0JB, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: GILBERT, Sarah C.;LAMBE, Teresa;SEBASTIAN, Sarah~ 33:GB ~31:2003670.3 ~32:13/03/2020;33:GB ~31:2006608.0 ~32:05/05/2020;33:GB ~31:2007062.9 ~32:13/05/2020;33:GB ~31:2009239.1 ~32:17/06/2020;33:GB ~31:2010569.8 ~32:09/07/2020;33:GB ~31:2016922.3 ~32:26/10/2020;33:GB ~31:2017284.7 ~32:30/10/2020;33:GB ~31:2017677.2 ~32:09/11/2020;33:GB ~31:2018410.7 ~32:23/11/2020;33:GB ~31:2018718.3 ~32:27/11/2020;33:GB ~31:2100034.4 ~32:04/01/2021

2022/08636 ~ Complete ~54:FORMULATIONS AND USES THEREOF ~71:MA, Joyce, H., 751 Hilltop Drive #31, United States of America ~72: MA, Joyce, H.~ 33:US ~31:62/982,918 ~32:28/02/2020

2022/08647 ~ Complete ~54:POLYURETHANE MULTI-PART KIT SYSTEM ~71:LANXESS Solutions Australia Pty. Ltd., 5 Comserv Close, WEST GOSFORD 2250, NEW SOUTH WALES, AUSTRALIA, Australia ~72: BUDD, Brett;TRAN, Loc~ 33:US ~31:62/971,275 ~32:07/02/2020

2022/08766 ~ Provisional ~54:WIRE BRICK ~71:Sibusiso, 208 L bluegumbosch, South Africa ~72: Sibusiso~ 33:ZA ~31:0671359056 ~32:01/08/2022

2022/08653 ~ Provisional ~54:ERECTION OF GRAIN WASHING AND PACKAGING PLANT IN THE TOWNSHIP AROUND SOUTH AFRICA ~71:MANONO LESLIE BONOKO, 7 PLAIN STREET, GROEN KOL, MPUMALANGA, South Africa ~72: MANONO LESLIE BONOKO ~

2022/08606 ~ Provisional ~54:CTFYD ~71:Tshimangadzo Tshikomba, 95 Rahima Moosa Street, South Africa ~72: Tshimangadzo Tshikomba~

2022/08614 ~ Complete ~54:MULTI-DISC BRAKE HAVING RADIAL WEAR PIN CARTRIDGE AND INTEGRATED WATER JACKET ~71:AUSCO PRODUCTS, INC., 2245 Pipestone Road, Benton Harbor, MI, United States of America ~72: BALDEOSINGH, Howard;DENNIS, Brian, P.;LEONARD, Nancy~ 33:US ~31:63/229,128 ~32:04/08/2021

2022/08617 ~ Complete ~54:SYSTEM FOR DETERMINATION OF SOIL ATTRIBUTES USING MACHINE LEARNING TECHNIQUES FOR NON-IMAGERY SPECTROSCOPIC DATA ~71:DESHMUKH, Ratnadeep R., PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND IT, DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD, India;GAIKWAD, CHITRA MADHUSUDAN, ASSISTANT PROFESSOR IN IT, GOVERNMENT COLLEGE OF ENGINEERING, AURANGABAD, India;GHULE, Anjana Narayanrao, ASSISTANT PROFESSOR IN IT, GOVERNMENT COLLEGE OF ENGINEERING, AURANGABAD, India;KAKARWAL, Sangeeta N., PROFESSOR IN COMPUTER SCIENCE AND ENGINEERING, PES COLLEGE OF ENGINEERING, AURANGABAD, India ~72: DESHMUKH, Ratnadeep R.;GAIKWAD, Chitra Madhusudan;GHULE, Anjana Narayanrao;KAKARWAL, Sangeeta N.~

2022/08629 ~ Complete ~54:POWER GRID MAINTENANCE AND UNMANNED PATROL INTEGRATED OPERATION PLATFORM ~71:Shihezi University, No.221 Beisi Road, Shihezi, Xinjiang Uygur Autonomous Region, 832000, People's Republic of China ~72: Bo Jia;Bo Li;Dexin Wang;Huidong Li;Jie Song;Jie Zhang;Jin Lei;Tianming Feng;Xinyan Qin;Yanqi Wang;Zhaojun Li~

2022/08634 ~ Complete ~54:MANUFACTURER OF ICE FOR FOOD USE WITH AN INCORPORATED ICE CONTAINER HAVING AN INTEGRATED SANITISING SYSTEM ~71:SCOTSMAN ICE S.R.L., Via Lainate 31, Italy ~72: VANIA, Tommaso~ 33:IT ~31:102020000016333 ~32:06/07/2020

2022/08644 ~ Complete ~54:PROTECTIVE GARMENT ~71:Hanes Innerwear Australia Pty Ltd, Level 1, 115 Cotham Road, KEW 3101, VICTORIA, AUSTRALIA, Australia ~72: MELLOS, Heidi~ 33:AU ~31:2020900547 ~32:26/02/2020

2022/08609 ~ Provisional ~54:360 FULL COLOR GRAPHIC ON AND AROUND GOLF BALL ~71:JOHANN YSSEL & amp; DIVAN YSSEL, 78 4th street , Northmead , Benoni, South Africa ~72: DIVAN YSSEL;JOHANN YSSEL~

2022/08620 ~ Complete ~54:PRODUCTION METHOD OF SELENIUM-RICH POTATO NOODLES ~71:ZHENPING COUNTY SELENIUM SOURCE FOOD CO., LTD., HUANGLONGTAN, ZHUXI RIVER, CHENGGUAN TOWN, ZHENPING COUNTY, People's Republic of China ~72: ZHANG, Ligui~

2022/08625 ~ Complete ~54:E-COMMERCE COMMODITY PUSHING SYSTEM AND METHOD BASED ON BIG DATA ~71:LUOYANG NORMAL UNIVERSITY, No. 6, Jiqing Road, Yibin District, Luoyang, Henan, People's Republic of China ~72: ZHANG Rongguang~

2022/08639 ~ Complete ~54:CORONAVIRUS RNA VACCINES ~71:MODERNATX, INC., 200 Technology Square, Cambridge, Massachusetts, 02139, United States of America ~72: ANDREA CARFI;ELISABETH NARAYANAN;GUILLAUME STEWART-JONES;HAMILTON BENNETT;MIHIR METKAR;VLADIMIR PRESNYAK~ 33:US ~31:62/967,006 ~32:28/01/2020;33:US ~31:62/971,825 ~32:07/02/2020;33:US ~31:63/002,094 ~32:30/03/2020;33:US ~31:63/009,005 ~32:13/04/2020;33:US ~31:63/016,175 ~32:27/04/2020

2022/08643 ~ Complete ~54:METHOD FOR OPERATING A MACHINE FOR HARVESTING AND/OR SEPARATING ROOT CROPS, ASSOCIATED MACHINE AND ASSOCIATED COMPUTER PROGRAM PRODUCT ~71:Grimme Landmaschinenfabrik GmbH & Co. KG, Hunteburger Straße 32, DAMME 49401, GERMANY, Germany ~72: STROTHMANN, Wolfram~ 33:DE ~31:10 2020 103 941.7 ~32:14/02/2020

2022/08649 ~ Complete ~54:PROTECTIVE REFORMER DEVICE FOR THE PROTECTION OF AN ANODE SECTION OF A FUEL CELL STACK ~71:AVL LIST GMBH, Hans-Lists-Platz 1, Austria ~72: NEUBAUER, Raphael;STRASSER-KRAUSS, Thomas~ 33:AT ~31:A50092/2020 ~32:06/02/2020

2022/08703 ~ Provisional ~54:ESTABLISHMENT OF SMALL BUSINESS IN THE TOWNSHIP USING CONVERTED SHEEPING CONTAINER TO PRODUCE CLEANING MATERIALS ~71:MANONO LESLIE BONOKO, 7 PLAIN STREET, GROEN KOL, MPUMALANGA, South Africa ~72: MANONO LESLIE BONOKO ~

2022/08604 ~ Provisional ~54:BAG FOR DOG EXCREMENT ~71:WILLEM NICOLAAS VAN RENSBURG, 56 4th street, Linden, South Africa ~72: WILLEM NICOLAAS VAN RENSBURG~

2022/08610 ~ Provisional ~54:SYSTEM FOR WATERING PLANTS ~71:SUPA SOLUTION (PTY) LTD, 5 Emerald Court, Stellenbosch, Western Cape, 7600, South Africa ~72: Heinz Otto Reinstorf;Malem Scheepers Heymans~

2022/08615 ~ Complete ~54:ROTARY PISTON FILLER ARRANGEMENT ~71:FILKRAFT PTY LTD, Unit 3, The Pearl, Zandwyk Park, Old Paarl Road, South Africa ~72: Elias Lourens KAMFER;Jacobus Cornelius LOCK~ 33:ZA ~31:2021/02980 ~32:04/05/2021

2022/08619 ~ Complete ~54:MOLECULAR MARKER-ASSISTED BREEDING METHOD FOR CUCUMBER ~71:Zhejiang Academy of Agricultural Sciences, 198 Shiqiao Road, Hangzhou City 310021, Zhejiang Province, CHINA (P.R.C.), People's Republic of China ~72: WANG, Xin;ZHANG, Peng;ZHOU, Shengjun;ZHU, Yuqiang~

2022/08623 ~ Complete ~54:STEEL CABLE NET CONSTRUCTION PLATFORM FOR SIGHTSEEING PATIO IN SUPER HIGH-RISE BUILDING AND CONSTRUCTION METHOD THEREOF ~71:Beijing Shunxin Tianyu Construction Engineering Co., Ltd., 6th Floor, Building C, Global Home Furnishing Headquarters Base, Guomen No. 1, No. 3, Anping Street, Houshayu Town, Shunyi District, Beijing, 101318, People's Republic of China ~72: GONG, Jinjing;LIU, Ruihai;LU, Tianxiang;ZHANG, Bo;ZHU, Xiaolin~ 33:CN ~31:202110948546.X ~32:18/08/2021;33:CN ~31:202111029580.3 ~32:03/09/2021

2022/08637 ~ Complete ~54:APPARATUS AND METHOD OF PRODUCING A TOMOGRAM ~71:ADAPTIX LIMITED, BEGBROKE SCIENCE PARK, CENTRE FOR INNOVATION AND ENTERPRISE (CIE), WOODSTOCK ROAD, BEGBROKE, OXFORDSHIRE OX5 1PF, UNITED KINGDOM, United Kingdom ~72: HOLDEN, Martin;MITCHELL, Ian;TRAVISH, Gil;WELLS, Steve~ 33:GB ~31:2000238.2 ~32:08/01/2020

2022/08646 ~ Complete ~54:HETEROCYCLIC GLP-1 AGONISTS ~71:Gasherbrum Bio, Inc., 2145 Clement St., SAN FRANCISCO 94121, CA, USA, United States of America ~72: JENNINGS, Andrew;LEI, Hui;LIN,

Xichen;MENG, Qinghua;XING, Weiqiang;ZHANG, Haizhen~ 33:IB ~31:2020/074537 ~32:07/02/2020;33:IB ~31:2020/109304 ~32:14/08/2020

2022/08651 ~ Provisional ~54:COUGH SYRUP ~71:THAKGUDI THOKWANE, P.O. BOX 74, STEELPOORT, LIMPOPO, South Africa ~72: THAKGUDI THOKWANE~

2022/08652 ~ Provisional ~54:PRODUCTION OF PAVING BRICKS FROM RECYCLED TYRES ~71:MANONO LESLIE BONOKO, 7 PLAIN STREET, GROEN KOL, MPUMALANGA, South Africa ~72: MANONO LESLIE BONOKO ~

2022/08704 ~ Provisional ~54:INTRODUCING OR ESTABLISHMENT OF PURCHASING A STAND ALONE POLICY OR PLAN FOR BURIAL IN A PRIVATE CEMETERY ~71:MANONO LESLIE BONOKO, 7 PLAIN STREET, GROEN KOL, MPUMALANGA, South Africa ~72: MANONO LESLIE BONOKO~

- APPLIED ON 2022/08/03 -

2022/08656 ~ Provisional ~54:SELF INFLATING FLOATATION ASSISTANCE DEVICE ~71:ATLANTIS SPECIALIST TECHNOLOGIES PROPRIETARY LIMITED, 215 The Cliffs, Office Block 1, Niagara Road, Tygerfalls, Carl Cronje Drive, Bellville, 7536, SOUTH AFRICA, South Africa ~72: DUMONT, Terence Paul~

2022/08673 ~ Complete ~54:A DEVICE FOR FABRICATING (FA)2BICUI6 BASED PEROVSKITE SOLAR CELLS ~71:DEEPTHI JAYAN KOODALI, Assistant Professor, Department of Basic Sciences & Amp; Humanities, Rajagiri School of Engineering & Amp; Technology (Autonomous), India ~72: Deepthi Jayan Koodali~

2022/08677 ~ Complete ~54:TAIL GAS OF GAS FERMENTATION TO DRY GASIFICATION FEEDSTOCK ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: ALLAN HAIMING GAO;ROBERT JOHN CONRADO~ 33:US ~31:62/990,148 ~32:16/03/2020;33:US ~31:17/180,619 ~32:19/02/2021

2022/08697 ~ Complete ~54:METHOD AND APPARATUS OF HARMONIZING WEIGHTED PREDICTION WITH NON-RECTANGULAR MERGE MODES ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ALSHINA, Elena Alexandrovna;CHEN, Huanbang;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich;YANG, Haitao~ 33:US ~31:62/960,134 ~32:12/01/2020

2022/08764 ~ Complete ~54:NUT CRACKER ~71:DUNSHEA, Christopher Laurence, Pine Valley Estate, Farm Rietvallei 256 JT Portion 11, Schagen, South Africa ~72: BERLEIN, Anthony Walter~ 33:ZA ~31:2019/07766 ~32:09/12/2019;33:WO ~31:PCT/IB2020/061624 ~32:08/12/2020

2022/08659 ~ Complete ~54:A BALE PROCESSING APPARATUS ~71:ROASTECH CC, c/o Dominee Kok and Dominee Kotze Streets, South Africa ~72: TESELING, Frederick Willem~ 33:ZA ~31:2021/02962 ~32:03/05/2021

2022/08665 ~ Complete ~54:LIGHT-SIMPLIFIED FERTILIZATION METHOD FOR HIGH YIELD-TRIPLE CROPPING-DIRECT SEEDING RAPE IN RED-SOIL RICE FIELD ~71:Jiangxi Red Soil Research Institute, Zhanggong Town, Jinxian County, Nanchang City, Jiangxi Province, People's Republic of China ~72: Hu Wenting;Huang Tianbao;Li Yazhen;Liu Xiaosan;Lv Weisheng;Wu Yan;Xiao Guobin;Xiao Xiaojun;Yechuan;Zheng Wei~

2022/08669 ~ Complete ~54:ONE-PART GEOPOLYMER FULLY RECYCLED AGGREGATE SELF-INSULATION CONCRETE BLOCK ~71:FUJIAN NO.1 CONSTRUCTION GROUP CO.,LTD., Building 8, No. 182, Xinshi Middle Road, Sanyuan District, Sanming City, Fujian Province, People's Republic of China;SANMING UNIVERSITY, No.

25, Jingdong Road, Sanming City, Fujian Province, People's Republic of China ~72: LIN Zhongdong;LIU Jifeng;WU Panlong;ZHANG Changtao;ZHANG Huizhi~

2022/08765 ~ Complete ~54:LOW FOAMING SOLID CLEANING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ARCHANA SINHA;NEETU VERMA;NITYA SRIVASTAVA;PRADEEP SALUNKHE;SEETHARAM PADMANABHAN NURANI;YOGITA AJAY PINGLE~ 33:IN ~31:202021010283 ~32:11/03/2020;33:EP ~31:20170764.3 ~32:22/04/2020

2022/08706 ~ Provisional ~54:HOUSE OF BASADI BOOKMARK W/FABRIC FLORET ~71:Winnie Lynette Johnson, Daventry Court, 10 Riviera Road, Killarney, South Africa ~72: Winnie Lynette Johnson~

2022/08654 ~ Provisional ~54:ROCK ANCHOR ~71:Theodore Daniel Swemmer, PO Box 75746, South Africa ~72: Theodore Daniel Swemmer~

2022/08657 ~ Provisional ~54:FINANCIAL INSTRUMENT TO DIFFUSE INNOVATION THROUGH THE ECONOMY ~71:BAYLIS, Dudley Edward, Plot 112, Mnandi Road, Diepsloot Agricultural Holdings, South Africa ~72: BAYLIS, Dudley Edward~

2022/08671 ~ Complete ~54:HIGH-TEMPERATURE RESISTANT POLYMER ASPHALT AND PREPARATION METHOD THEREOF ~71:Beihua University, 3999 Binjiang East Road, Jilin City, Jilin Province, People's Republic of China ~72: CHANG Guangli;YANG Xujiao;ZHAO Huan~

2022/08676 ~ Complete ~54:USE OF PHARMACEUTICAL COMPOSITION IN PREPARING ANTI-VIRAL DRUG ~71:SHIJIAZHUANG YILING PHARMACEUTICAL CO., LTD., No.238, Tianshan Street Hi-Tech, Development District Shijiazhuang, People's Republic of China ~72: JIA, Zhenhua~ 33:CN ~31:202010153827.1 ~32:07/03/2020

2022/08678 ~ Complete ~54:MODULAR STRUCTURE FOR PROVIDING ON-SITE PROTECTION ~71:BAM NUTTALL LIMITED, St James House Knoll Road, Camberley Surrey, United Kingdom ~72: PROTHERO, John~ 33:GB ~31:2001631.7 ~32:06/02/2020

2022/08689 ~ Complete ~54:BARLEY PLANTS WITH HIGH LIMIT DEXTRINASE ACTIVITY ~71:CARLSBERG A/S, J.C. Jacobsens Gade 1, 1799, Copenhagen V, Denmark ~72: ALEXANDER STRIEBECK;FINN LOK;HANNE THOMSEN;JOSE ANTONIO CUESTA-SEIJO;KATARZYNA BIRCH BRAUNE;LUCIA MARRI;OLE OLSEN;PAI ROSAGER PEDAS;SØREN KNUDSEN~ 33:EP ~31:20160355.2 ~32:02/03/2020

2022/08692 ~ Complete ~54:SEALS FOR DOCK LEVELLING SYSTEMS, AND METHODS OF SEALING GAPS IN DOCK LEVELLING SYSTEMS ~71:RENTOKIL INITIAL 1927 PLC, Riverbank Meadows Business Park, Blackwater, Camberley, Surrey, GU17 9AB, United Kingdom ~72: MARK BROWN~ 33:GB ~31:2001231.6 ~32:29/01/2020

2022/08696 ~ Complete ~54:SYSTEMS AND METHODS FOR LYNCHPIN STRUCTURE APPLICATIONS ~71:HOWARD, T. Dashon, 301 W. Grand Avenue, Suite 342, CHICAGO 60654, IL, USA, United States of America ~72: HOWARD, T. Dashon~ 33:US ~31:16/733,536 ~32:03/01/2020

2022/08702 ~ Complete ~54:ROULETTE WHEEL READING APPARATUS ~71:TCS JOHN HUXLEY EUROPE LIMITED, Festival Trade Park Unit 6, Crown Road, United Kingdom ~72: FRENCH, Nicholas Richard Baker~ 33:GB ~31:2001493.2 ~32:04/02/2020

2022/08667 ~ Complete ~54:PLANTING METHOD OF ANNUAL TWO-PLANTING AND FOUR-HARVESTING IN RED-SOIL RICE FIELD ~71:Jiangxi Red Soil Research Institute, Zhanggong Town, Jinxian County, Nanchang City, Jiangxi Province, People's Republic of China ~72: Chen Guojun;Hu Wenting;Huang Tianbao;Li Yazhen;Li

Zhongping;Liu Xiaosan;Lv Weisheng;Wu Yan;Xiao Fuliang;Xiao Guobin;Xiao Xiaojun;Ye Chuan;Ye Deping;Zheng Wei~

2022/08683 ~ Complete ~54:DIRECT COUPLING DEVICE FOR GENERATING HYDROGEN FROM CONCENTRATED SUNLIGHT ~71:FUSION WELCOME-FUEL, UNIPESSOAL LDA, Rua da Fábrica, S/N, Sabugo, Portugal ~72: FERREIRA SILVA, Jaime Domingos~ 33:PT ~31:116152 Y ~32:10/03/2020

2022/08685 ~ Complete ~54:LIPID NANOPARTICLES ~71:ETHERNA IMMUNOTHERAPIES NV, Galileilaan 19, Belgium;VRIJE UNIVERSITEIT BRUSSEL, Pleinlaan 2, Belgium ~72: BEVERS, Sanne;DE KOKER, Stefaan;KOOIJMANS, Sander Alexander Antonius;SCHIFFELERS, Raymond Michel~ 33:EP ~31:20152938.5 ~32:21/01/2020;33:EP ~31:20152995.5 ~32:21/01/2020;33:EP ~31:20179434.4 ~32:11/06/2020

2022/08690 ~ Complete ~54:MATTRESSES, METHODS OF MANUFACTURE AND COMPONENTS ~71:ASHLEY FURNITURE INDUSTRIES, LLC, One Ashley Way, Arcadia, Wisconsin, 54612, United States of America ~72: TRAVIS WAGNER~ 33:US ~31:62/978,288 ~32:18/02/2020

2022/08698 ~ Complete ~54:METHOD AND APPARATUS OF SIGNALING THE NUMBER OF CANDIDATES FOR MERGE MODE ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ALSHINA, Elena Alexandrovna;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:62/961,159 ~32:14/01/2020

2022/08661 ~ Complete ~54:EQUIPMENT AND METHOD FOR EXTRACTING PLANT VOLATILE OIL ~71:Zhengzhou University of Industrial Technology, No. 16, Xueyuan Road, Xinzheng City, Zhengzhou City, Henan Province, 451150, People's Republic of China ~72: CAI Wei;FENG Yali;JIANG Yaling;LI Wenyuan;YIN Weiping~

2022/08663 ~ Complete ~54:ORAL PREPARATION OF SYRINGA PUBESCENS TURCZ. FOR CLEARING THROAT AND BENEFITING LUNG, PREPARATION METHOD AND APPLICATION THEREOF ~71:Zhengzhou University of Industrial Technology, No. 16, Xueyuan Road, Xinzheng City, Zhengzhou City, Henan Province, 451150, People's Republic of China ~72: CONG Yang;FENG Yali;LI Ke;LIAN Chuang;SUN Shuaihao;YAO Huina;YIN Weiping;ZHENG Yujing~

2022/08680 ~ Complete ~54:NOVEL PROMOTER AND USE THEREOF ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: JUNG, Moo Young;KIM, Heeyeong;KIM, Hyun Ah;KIM, Kyungrim;KWON, Nara;LEE, Jaemin;PARK, Sojung~ 33:KR ~31:10-2021-0064855 ~32:20/05/2021

2022/08682 ~ Complete ~54:METHOD FOR FLOTATION OF A PHOSPHATE-CONTAINING ORE ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: CARVALHO, Susan;KAMKIN, Rostislav;MICHAILOVSKI, Alexej;SOBOTKA, Bettina~ 33:RU ~31:PCT/RU2020/000001 ~32:09/01/2020

2022/08693 ~ Complete ~54:SUSTAINED IMMUNOTHERAPY ~71:FUSION PHARMACEUTICALS INC., 270 Longwood Road South, Hamilton, Ontario, L8P 0A6, Canada ~72: ERIC STEVEN BURAK;JOHN FITZMAURICE VALLIANT;JULIE METCALF;MEIDUO HU;NATALIE GRINSHTEIN;SONAL PATEL~ 33:US ~31:62/959,879 ~32:10/01/2020;33:US ~31:63/037,520 ~32:10/06/2020

2022/08670 ~ Complete ~54:ANTI-STRESS ENHANCING REAGENT FOR FRUIT TREES, APPLICATION METHOD AND APPLICATION THEREOF ~71:Shandong Institute of Pomology, 66 Longtan Road, Tai'an

City, Shandong Province, People's Republic of China ~72: CHEN Hongfei;DONG Fang;LU Ninglin;NIE Peixian;WANG Laiping;XUE Xiaomin~

2022/08679 ~ Complete ~54:THERAPEUTIC ENGINEERED MICROBIAL CELL SYSTEMS AND METHODS FOR TREATING HYPERURICEMIA AND GOUT ~71:UNLOCKED LABS INC., 1938 HARNEY ST., STE 247, LARAMIE, WY 82072, UNITED STATES OF AMERICA, United States of America ~72: GEISLER, Christoph~ 33:US ~31:62/959,991 ~32:12/01/2020

2022/08687 ~ Complete ~54:ANTIBODIES BINDING TO B7H4 ~71:GENMAB A/S, Kalvebod Brygge 43, 1560, Copenhagen V, Denmark ~72: DAVID SATIJN;DENNIS VERZIJL;EDWARD N VAN DEN BRINK;ESTHER C W BREIJ;FREDERIKKE L EGEROD;LOUISE KOOPMAN;PATRICK ENGELBERTS;RIK RADEMAKER;SIETO BOSGRA~ 33:EP ~31:20164059.6 ~32:18/03/2020

2022/08705 ~ Provisional ~54:ELEPHANT HANDLE ~71:Josh Enslin, 19 tuscany villas, west beach, South Africa ~72: Josh Enslin~

2022/08655 ~ Provisional ~54:COLLISION MITIGATION DEVICE ~71:Daryl Anthony SPENCER, 4 Vian Road, Winston Park, South Africa ~72: SPENCER, Daryl Anthony~

2022/08660 ~ Complete ~54:A COMPOSITION AND A METHOD FOR INVESTIGATING INTERMOLECULAR INTERACTIONS OF BIOACTIVE MOLECULE AND SURFACTANT ~71:Dr. Poonam Sharma, Jaypee University of Information Technology, Waknaghat. District – Solan, India;Dr. Vikrant Abbot, Jaypee University of Information Technology, Waknaghat. District – Solan, India ~72: Dr. Poonam Sharma;Dr. Vikrant Abbot~

2022/08688 ~ Complete ~54:USE OF FERMENTATION TAIL GAS IN INTEGRATED GASIFICATION AND GAS FERMENTATION SYSTEM ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: ALLAN HAIMING GAO;FRANZ-MARCUS NOWAK;GREGORY MORIN;RICHARD ROSIN;ROBERT JOHN CONRADO~ 33:US ~31:62/990,216 ~32:16/03/2020;33:US ~31:17/180,583 ~32:19/02/2021

2022/08694 ~ Complete ~54:MACROCYCLIC CHELATES AND USES THEREOF ~71:FUSION PHARMACEUTICALS INC., 270 Longwood Road South, Hamilton, Ontario, L8P 0A6, Canada ~72: ERIC S BURAK;JOHN F VALLIANT;MATTHEW D MORAN;MELISSA CHASSÉ;MICHAEL B JOHANSEN;RYAN W SIMMS;STUART J MAHONEY~ 33:US ~31:62/959,665 ~32:10/01/2020

2022/08666 ~ Complete ~54:PRE-HARVEST APPLICATION METHOD FOR IMPROVING PRESERVATIVE AND FRESH-KEEPING EFFECT OF CHERRY TOMATOES ~71:Environment and Plant Protection Institute, Chinese Academy of Tropical Agricultural Sciences, No.4, Xueyuan Road, Longhua District, Haikou City, Hainan Province, People's Republic of China ~72: GAO Zhaoyin;GONG Deqiang;HU Meijiao;LI Min~

2022/08674 ~ Complete ~54:A METHOD AND DEVICE FOR EXTRACTING OIL-BASED DRILLINGCUTTINGS ~71:CHONGQING TECHNOLOGY AND BUSINESS UNIVERSITY, No. 19, Xuefu Avenue, Nan'an District, People's Republic of China ~72: CHEN, Yafei;CHEN, Ziqiang;DENG, Yuan;GONG, Haifeng;HE, Donglin;YIN, Hong~ 33:CN ~31:202210724671.7 ~32:24/06/2022

2022/08681 ~ Complete ~54:RANDOM ACCESS FOR LOW-COMPLEXITY USER EQUIPMENT ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BEHRAVAN, Ali;HÖGLUND, Andreas;HOSSAIN, Istiak;KADAN VEEDU, Sandeep, Narayanan;MOZAFFARI, Mohammad;SUI, Yutao~ 33:US ~31:62/958,990 ~32:09/01/2020

2022/08700 ~ Complete ~54:7-(METHYLAMINO)PYRAZOLO[1,5-A]PYRIMIDINE-3-CARBOXAMIDE COMPOUNDS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: BLEISCH, Thomas John;CHEN, Zhaogen;JESSOP, Theodore Curtis~ 33:US ~31:62/975,257 ~32:12/02/2020

2022/08691 ~ Complete ~54:SEALS FOR DOCK LEVELLING SYSTEMS, METHODS OF SEALING GAPS IN DOCK LEVELLING SYSTEMS, AND METHODS OF ARRANGING SEALS FOR DOCK LEVELLING SYSTEMS FOR STORAGE OR TRANSPORTATION ~71:RENTOKIL INITIAL 1927 PLC, Riverbank Meadows Business Park, Blackwater, Camberley, Surrey, GU17 9AB, United Kingdom ~72: GARY WINGETT;MARK BROWN;ROBERT SHAND~ 33:GB ~31:2001230.8 ~32:29/01/2020

2022/08695 ~ Complete ~54:USE OF LIQUID CHROMATOGRAPHY AND MASS SPECTROMETRY TO CHARACTERIZE OLIGONUCLEOTIDES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: HUANG, Ming;LI, Ning;QIU, Haibo;XU, Xiaobin~ 33:US ~31:62/968,368 ~32:31/01/2020

2022/08662 ~ Complete ~54:EFFICIENT COUPLED TYPE RECYCLABLE RURAL SEWAGE TREATMENT DEVICE ~71:Renmin University of China, No. 59 Zhongguancun Street, Haidian District, Beijing, People's Republic of China ~72: LI Qiangang;LIU Guohua;QI Lu;WANG Jian;XU Xianglong~

2022/08668 ~ Complete ~54:GEOPOLYMER CONCRETE AND PREPARATION METHOD THEREOF ~71:FUJIAN NO.1 CONSTRUCTION GROUP CO.,LTD., Building 8, No. 182, Xinshi Middle Road, Sanyuan District, Sanming City, Fujian Province, People's Republic of China;SANMING UNIVERSITY, No. 25, Jingdong Road, Sanming City, Fujian Province, People's Republic of China ~72: LIN Zhongdong;LIU Jifeng;WU Panlong;ZHANG Changtao;ZHANG Huizhi~

2022/08658 ~ Complete ~54:OPERATOR ASSISTANCE SYSTEM FOR WORK MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: GALOFRE, Camilo;RUTH, Eric James;SANCHEZ, Rodrigo~ 33:US ~31:17/411,445 ~32:25/08/2021

2022/08664 ~ Complete ~54:5E TEACH SYSTEM AND METHOD FOR VISUAL PERCEPTION OF HEARING-IMPAIRED STUDENT ~71:Chen GuiLin, Guangdong Vocational Education Research Institute, room 098, selfmade 2001, middle section of the second floor, No. 227 shatai South Road, Tianhe District, Guangzhou, Guangdong, People's Republic of China;Song PanTao, Shandong special education vocational college, No. 326, nanxinzhuang West Road, Shizhong District, Jinan City, Shandong Province, People's Republic of China ~72: Chen GuiLin;Song PanTao~

2022/08672 ~ Complete ~54:A SYSTEM FOR PROCESSING A LOCATION BASED SERVICE REQUEST ~71:MARCUS STEFAAN VOSLOO, 18 Elderberry Drive Glenhills, Durban North, KwaZulu Natal, 4051, South Africa ~72: MARCUS STEFAAN VOSLOO~ 33:ZA ~31:2021/02960 ~32:03/05/2021

2022/08675 ~ Complete ~54:CORE-SHEATH COMPOSITE FIBER FOR ARTIFICIAL HAIR, HEADWEAR PRODUCT INCLUDING SAME, AND PRODUCTION METHOD FOR SAME ~71:KANEKA CORPORATION, 3-18 Nakanoshima 2-chome, Kita-ku, Japan ~72: INO, Yurina~ 33:JP ~31:2020-036162 ~32:03/03/2020

2022/08684 ~ Complete ~54:METHOD FOR PRODUCING MONOSULFOXIDE DERIVATIVE ~71:KUMIAI CHEMICAL INDUSTRY CO., LTD, 4-26, Ikenohata 1-Chome, Japan ~72: SAITO, Narumasa~ 33:JP ~31:2020-080620 ~32:30/04/2020

2022/08686 ~ Complete ~54:FUSED RING SUBSTITUTED AROMATIC COMPOUND AND PREPARATION METHOD THEREFOR, HERBICIDAL COMPOSITION, AND USE THEREOF ~71:QINGDAO KINGAGROOT

CHEMICAL COMPOUND CO., LTD., No.53, Qinglonghe Road, Huangdao District, Qingdao, Shandong, 266000, People's Republic of China ~72: DE ZHAO;LEI LIAN;QI CUI;RONGBAO HUA;XUEGANG PENG~ 33:CN ~31:202010056836.9 ~32:16/01/2020;33:CN ~31:202010131605.X ~32:28/02/2020

2022/08699 ~ Complete ~54:POTASSIUM SALT OF 2-[(4S)-8-FLUORO-2-[4-(3-METHOXYPHENYL)PIPERAZIN-1-YL]-3-[2-METHOXY-5-(TRIFLUOROMETHYL)PHENYL]-4H-QUINAZOLIN-4-YL]ACETIC ACID ~71:AIC246 AG & Co. KG, Friedrich-Ebert-Str. 475, WUPPERTAL 42117, GERMANY, Germany ~72: BUSCHMANN, Helmut;CERON BERTRAN, Jordi Carles;GOLDNER, Thomas~ 33:EP ~31:20159742.4 ~32:27/02/2020

2022/08701 ~ Complete ~54:PIN ASSEMBLY ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: ASHFORD, Dustin L.;GREWELL, Christopher E.;LECHTENBERG, Craig D.;MCCULLUM, Shawn M.;ZIMMERMAN, Lee A.~ 33:US ~31:62/971,900 ~32:07/02/2020

- APPLIED ON 2022/08/04 -

2022/08750 ~ Complete ~54:SYSTEM AND METHOD FOR MANUFACTURING AND ASSEMBLING PACKAGED ELECTRONIC MODULES ~71:ELLIPSE WORLD, INC., 8615 Washington Blvd., Culver City, California, 90232, United States of America ~72: CYRIL LALO;JACQUES ESSEBAG;SEBASTIEN POCHIC~ 33:US ~31:16/745,186 ~32:16/01/2020

2022/08752 ~ Complete ~54:PAPER-BASED OR PAPERBOARD-BASED CONTAINER AND RELATED METHODS ~71:ELOPAK ASA, P.O. Box 24, 3431, Spikkestad, Norway ~72: GERD UNNI KVAM;MARTIN KURT WIESER~ 33:EP ~31:20151241.5 ~32:10/01/2020;33:NO ~31:20200803 ~32:09/07/2020

2022/08763 ~ Complete ~54:LIQUID PHARMACEUTICAL COMPOSITION COMPRISING ENSIFENTRINE AND GLYCOPYRROLATE ~71:VERONA PHARMA PLC, One Central Square, United Kingdom ~72: FRENCH, Edward James;HAYWOOD, Phillip Andrew;SPARGO, Peter Lionel~ 33:GB ~31:2002786.8 ~32:27/02/2020

2022/08759 ~ Complete ~54:ENVIRONMENT-FRIENDLY CORROSION-RESISTANT GLASS ELECTRIC MELTING FURNACE ~71:ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY, No. 9 Donghua Road, Fengyang County, Chuzhou, Anhui, 233100, People's Republic of China ~72: CHEN, Chen;CHEN, Junhua;CHENG, Zhanqiang;CHU, Jianqiang;DING, Zhijie;GUO, Yu;KE, Xiang;YAN, Haoran;ZHANG, Dapeng;ZHANG, Keyun;ZHAO, Wei;ZHOU, Yongsheng~ 33:CN ~31:202111256612.3 ~32:27/10/2021

2022/08708 ~ Provisional ~54:A METHOD OF APPLYING A MONOLITHIC REFRACTORY ON A PORTION OF AN INNER SURFACE OF A COKE DRUM PRESSURE VESSEL ~71:TSHWANE UNIVERSITY OF TECHNOLOGY, Staartsartillerie Road, South Africa ~72: MPOFU, KHUMBULANI;SIBAMBO, BELGRAVIN;SIERRA, LEONEAN;TAMBA, JAMIRU~

2022/08721 ~ Complete ~54:METHOD FOR ESTIMATING WHOLE-DAY PROTEIN YIELD BY ONE-TIME SAMPLING AND TESTING FOR MILK OF TWO-TIME MILKING IN ONE DAY ~71:Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No. 202, North Industry Road, Licheng District, Jinan City, Shandong Province, 250100, People's Republic of China ~72: BAO, Peng;CHANG, Ying;GAO, Yundong;LI, Jianbin;LI, Qinglei;LI, Rongling;LIU, Yan;XUE, Guanghui;YUAN, Zhaowei;ZHAO, Xiuxin~

2022/08793 ~ Complete ~54:APPLICATION OF IAA-PO1 GENE IN INDUCING FORMATION OF PRIMORDIUM OF OYSTER MUSHROOMS AND IN STRESS RESISTANCE OF GROWTH AND DEVELOPMENT OF OYSTER MUSHROOMS ~71:INSTITUTE OF PLANT NUTRITION AND RESOURCES, HENAN ACADEMY OF

AGRICULTURAL SCIENCES, 116 HUAYUAN ROAD, People's Republic of China ~72: CUI, Xiao;HU, Sujuan;KONG, Weili;LIU, Qin;WANG, Yanpo;ZHANG, Yuting;ZHANG, Zuofang~

2022/08724 ~ Complete ~54:PERMANENT MAGNET-BASED SHIP BERTHING METHOD, BERTHING DEVICE AND VERIFICATION METHOD ~71:Anhui Polytechnic University, Beijing Middle Road, Wuhu City, Anhui Province, People's Republic of China;WUHU MAGNETIC WHEEL TRANSMISSION TECHNOLOGY CO., LTD., No. 18-8 ouyanghu Road, Jiujiang District, Wuhu City, Anhui Province, People's Republic of China ~72: CHEN Siqi;LI Xueming;LU Yimin;SHAO Long;WANG Xiangdong;XU Manman;ZHANG Zhitao~

2022/08725 ~ Complete ~54:COMPOSITION OF AMPELOPS IGROSSEDENTATA AND FLOS LONICERA AND PREPARATION METHOD THEREOF ~71:Guizhou Institute of Biology, Longjiang Lane NO.1, Huaxi District, Guiyang City, Guizhou Province, 550009, People's Republic of China ~72: LIU Yan;LIU Yingying;LUO Wenmin~

2022/08727 ~ Complete ~54:PHOTOVOLTAIC GRID-CONNECTED POWER GENERATION SYSTEM LOW-VOLTAGE RIDE-THROUGH METHOD BASED ON FUZZY CONTROL ~71:ANHUI JIANZHU UNIVERSITY, 292 ziyun Road, Hefei, Anhui, 230601, People's Republic of China ~72: Duanbiao WANG;Fangbin WANG;Guanyu CHEN;Jinrui CUI;Runmei ZHANG;Xiangdong SUN;Xueping ZHANG~

2022/08739 ~ Provisional ~54:SLOW COMBUSTION CONVERSION ASSEMBLY ~71:Shaun Maggs, 7 Curtis Rd, South Africa ~72: Shaun Maggs~

2022/08743 ~ Complete ~54:FUEL DISPENSING SYSTEM ~71:Redcot Company Ltd, 50 Mirambo Street, 3rd Floor, United Republic of Tanzania ~72: CHAGGAMA, Joseph Mapenzi~ 33:ZA ~31:2020/00825 ~32:10/02/2020

2022/08748 ~ Complete ~54:CONVEYOR-BELT DRUM WITH SLIDING REGIONS ~71:RWE POWER AG, RWE Platz 2 45141 Essen, Germany ~72: ANDREAS MIKETTA~ 33:DE ~31:10 2020 104 251.5 ~32:18/02/2020

2022/08762 ~ Complete ~54:POLYPEPTIDES AND THEIR USE ~71:UNIVERSITY OF WASHINGTON, 4545 Roosevelt Way NE, Suite 400, United States of America ~72: FIALA, Brooke;KING, Neil, P.;NATTERMANN, Una;VEESLER, David;WALKEY, Carl;WALLS, Alexandra, C.;WANG, Jing, Yang~ 33:US ~31:62/977,036 ~32:14/02/2020

2022/08730 ~ Complete ~54:EMERGENCY OPEN STRUCTURE FOR CIRCUIT BREAKER ~71:Sichuan Electric Group Medium and Low Voltage Intelligent Power Distribution Co., Ltd., No. 107, Nanzheng Street, Tangchang Town, Pidu District, Chengdu, Sichuan, People's Republic of China ~72: Dai Andong;Liu Ou;Wang Yong;Yang Changzheng;Yang Yong;Zhang Zhiming~

2022/08710 ~ Complete ~54:ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: DALY, Thomas;FRANKLIN, Matthew;LI, Ning;PALACKAL, Nisha;PYLES, Erica;TUSTIAN, Andrew;VARTAK, Ankit;WANG, Shunhai~ 33:US ~31:62/944,635 ~32:06/12/2019;33:US ~31:63/065,012 ~32:13/08/2020

2022/08712 ~ Complete ~54:ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: DALY, Thomas;LI, Ning;PALACKAL, Nisha;PYLES, Erica;TUSTIAN, Andrew;VARTAK, Ankit;WANG, Shunhai~ 33:US ~31:62/944,635 ~32:06/12/2019;33:US ~31:63/065,012 ~32:13/08/2020

2022/08716 ~ Complete ~54:METHOD AND APPARATUS FOR EFFICIENT DELIVERY AND USAGE OF AUDIO MESSAGES FOR HIGH QUALITY OF EXPERIENCE ~71:FRAUNHOFER-GESELLSCHAFT ZUR

FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: CZELHAN, Bernd;FUCHS, Harald;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EP ~31:17196255.8 ~32:12/10/2017

2022/08715 ~ Complete ~54:PRIMERS, PROBE, KIT AND METHOD FOR QPCR DETECTION OF PHENACOCCUS MANIHOTI ~71:GONGBEI CUSTOMS TECHNOLOGY CENTER, NO. 501, YINHUA ROAD, People's Republic of China;HANGZHOU AGRICULTURE TECHNOLOGY EXTENSION CENTER, NO. 768 HANGHAI ROAD, People's Republic of China;JINHUA PLANT PROTECTION STATION, NO. 828 SHUANGLONG SOUTH STREET, People's Republic of China;ZHEJIANG ACADEMY OF SCIENCE & amp; TECHNOLOGY FOR INSPECTION & amp; QUARANTINE, NO. 398 JIANSHESAN ROAD, People's Republic of China;ZHENGZHOU CUSTOMS TECHNOLOGY CENTER, NO. 9-1, JINSHUI EAST ROAD, People's Republic of China ~72: DANG, Zhihao;FANG, Wenyuan;HUANG, Fang;LI, Yuehong;REN, Yan;TANG, Huiji;TIAN, Hongwei;WU, Zhiyi;XU, Miaofeng;ZHANG, Lili~

2022/08717 ~ Complete ~54:METHOD AND APPARATUS FOR EFFICIENT DELIVERY AND USAGE OF AUDIO MESSAGES FOR HIGH QUALITY OF EXPERIENCE ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: CZELHAN, Bernd;FUCHS, Harald;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EP ~31:17196255.8 ~32:12/10/2017

2022/08742 ~ Complete ~54:STORAGE SYSTEM CONFIGURED FOR USE WITH AN ENERGY MANAGEMENT SYSTEM ~71:ENPHASE ENERGY, INC., 1420 North McDowell Boulevard Petaluma, United States of America ~72: BOZCHALUI, Mohammad Chehreghani~ 33:US ~31:62/959,419 ~32:10/01/2020

2022/08744 ~ Complete ~54:STRUCTURE PROTECTION SHEET, CONCRETE BLOCK, AND METHOD FOR MANUFACTURING REINFORCED STRUCTURE ~71:KEIWA INCORPORATED, 10-5, Nihonbashikayabacho 2chome, Chuo-ku, Tokyo, 1030025, Japan ~72: AKIRA NINOMIYA;KENTA SHIMOTANI;MASAO ASHIKAGA;NORIYUKI HORIUCHI;TOSHIKATSU FURUNAGA;YOSHIKI NAKAJIMA;YUKI MATSUNO;YUKINOBU IKEDA~ 33:JP ~31:2020-036255 ~32:03/03/2020;33:JP ~31:2020-036256 ~32:03/03/2020;33:JP ~31:2020-036257 ~32:03/03/2020;33:JP ~31:2020-088210 ~32:20/05/2020

2022/08747 ~ Complete ~54:TERMINATION BOX ~71:COMMSCOPE TECHNOLOGIES LLC, 1100 CommScope Place SE, Hickory, North Carolina, 28602, United States of America ~72: PAUL DAVID HUBBARD~ 33:US ~31:62/984,894 ~32:04/03/2020

2022/08753 ~ Complete ~54:A SOAP BAR WITH HIGH WATER CONTENT ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GISLENE SPLENDORE BORTOLAI;LYNDSAY M LEAL;NIKHIL J FERNANDES;RODRIGO ALVES DE MATTOS;SERGIO ROBERTO LEOPOLDINO;UWE HAGEMANN;YURIY KONSTANTINOVICH YAROVOY~ 33:EP ~31:20163161.1 ~32:13/03/2020

2022/08757 ~ Complete ~54:PREFERENTIALLY EXPRESSED ANTIGEN IN MELANOMA (PRAME) T CELL RECEPTORS AND METHODS OF USE THEREOF ~71:Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, TARRYTOWN 10591, NY, USA, United States of America ~72: BOWERMAN, Natalie;HANSEN, Johanna~ 33:US ~31:62/965,231 ~32:24/01/2020

2022/08755 ~ Complete ~54:HEAT-TRANSFER FLUID WITH LOW CONDUCTIVITY COMPRISING AN AMIDE INHIBITOR, METHODS FOR ITS PREPARATION AND USES THEREOF ~71:Arteco N.V., Metropoolstraat 25, SCHOTEN 2900, BELGIUM, Belgium ~72: CLERICK, Sander;LIEVENS, Serge~ 33:EP ~31:20156627.0 ~32:11/02/2020

2022/08754 ~ Complete ~54:FUNGICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BEATTIE, David;BOU HAMDAN, Farhan;HAAS, Ulrich

Johannes;HOFFMAN, Thomas James;QUARANTA, Laura;RENDINE, Stefano;WEISS, Matthias;WILLIAMS, Simon~ 33:GB ~31:2003214.0 ~32:05/03/2020;33:GB ~31:2020137.2 ~32:18/12/2020

2022/08761 ~ Complete ~54:POLYPEPTIDES, COMPOSITIONS, AND THEIR USE TO TREAT OR LIMIT DEVELOPMENT OF AN INFECTION ~71:UNIVERSITY OF WASHINGTON, 4545 Roosevelt Way NE, Suite 400, United States of America ~72: KING, Neil, P.;VEESLER, David;WALKEY, Carl;WALLS, Alexandra, C.;WANG, Jing, Yang~ 33:US ~31:62/977,036 ~32:14/02/2020;33:US ~31:63/046,159 ~32:30/06/2020;33:US ~31:63/064,235 ~32:11/08/2020

2022/08707 ~ Provisional ~54:SANITIZING AGENT ~71:OLGENSTINE HOLDINGS (PTY) LTD, 2 Seder Villas, Seder Street, South Africa ~72: JORDAAN, MARIUS~

2022/08709 ~ Provisional ~54:BELT LIFTER ~71:THIEL DESIGN SOLUTIONS (PTY) LTD., 36 Suikerbossie Residential Estate, Sugarbush Estate, Noordheuwel, Krugersdorp, 1739, South Africa ~72: JONATHAN DAVID THIEL~

2022/08711 ~ Complete ~54:ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BHUPENDER BHALLA, Amardeep Singh;CHEN, Hunter;LI, Ning;WANG, Shunhai~ 33:US ~31:62/944,635 ~32:06/12/2019;33:US ~31:63/065,012 ~32:13/08/2020

2022/08714 ~ Complete ~54:METHOD AND APPARATUS FOR EFFICIENT DELIVERY AND USAGE OF AUDIO MESSAGES FOR HIGH QUALITY OF EXPERIENCE ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: CZELHAN, Bernd;FUCHS, Harald;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EP ~31:17196255.8 ~32:12/10/2017

2022/08718 ~ Complete ~54:TRANFORMER MONITORING DEVICE, AND SYSTEM INCLUDING SAME ~71:ALLBRO (PTY) LTD, 121, 13th Avenue, Anderbolt Ext 32, Boksburg, Gauteng, South Africa ~72: QUINTIN LAMPRECHT~ 33:ZA ~31:2021/02981 ~32:04/05/2021

2022/08719 ~ Complete ~54:HALOCYNTHIA RORETZI NANO-CELLULOSE-BASED HEAVY METAL ADSORBENT AND A PREPARATION METHOD THEREOF ~71:Shandong University, No. 180, Wenhua West Road, Weihai City, Shandong, 264209, People's Republic of China ~72: CHE, Yuju;LIU, Feng;LIU, Xiaonan;MA, Qinglin;MENG, Fanjun;XIONG, Pan~ 33:CN ~31:202110950248.4 ~32:18/08/2021

2022/08729 ~ Complete ~54:CULTURE MEDIUM FOR PREPARING STOMACH-PROTECTING FERMENTATION PRODUCT AND PREPARATION METHOD THEREOF ~71:Zhejiang Academy of Agricultural Sciences, Shiqiao Road 198#, Hangzhou, Zhejiang Province, People's Republic of China ~72: Guoying LV;Jianfei CHEN;Mei WANG;Yuntao LI;Zuofa ZHANG~

2022/08732 ~ Complete ~54:AN INTELLIGENT CONTROL PANEL ~71:HENAN POLYTECHNIC, Ping'an Avenue, Zhengdong New District, Zhengzhou City, Henan Province, People's Republic of China ~72: Ji Xiaobang;Li Chenyang;Li Feigao;Liu Yue;Qin Lianming;Sun Leiming~

2022/08723 ~ Complete ~54:CULTIVATION METHOD FOR IMPROVING RICE SEED SETTING RATE ~71:Jiangsu Xuhuai Huaiyin Agricultural Science Research Institute, No. 104, Huaihai North Road, Huai'an City, Jiangsu Province, 223001, People's Republic of China ~72: DU, Xiaofeng;GU, Dalu;JIA, Yanyan;PI, Daming;WEN, Tinggang;WEN, Zhangrong;WU, Chuanwan;YANG, Wenfei;YIN, Xiaodong~

2022/08726 ~ Complete ~54:CONTROLLABLE AIR-BLOWING AND LIQUID-FLUSHING DEVICE FOR SURGICAL FIELD IN CARDIAC SURGERY ~71:Guang 'an People's Hospital, No. 1, Section 4, Binhe

Road, Guang 'an District, Guang 'an city, People's Republic of China ~72: Chen Qinmei;Dong Bin;He Jiahong;Liu Huan;Mao Huanhuan;Peng Chuan;Yang Ning;Yu Yinghong~

2022/08728 ~ Complete ~54:ENERGY-SAVING MATERIAL PNEUMATIC SORTING SYSTEM AND SORTING METHOD ~71:Institute of Agricultural Mechanization, Xinjiang Academy of Agricultural Sciences, No. 291, Nanchang South Road, Urumqi, Xinjiang, People's Republic of China ~72: CUI Kuanbo;LIU Jia;LIU Kui;LUO Wenjie;MA Wenqiang;MAIHEMUJIANG Batuer;SHEN Xiaohe;XU Le;YANG Liling;ZHU Zhanjiang~

2022/08734 ~ Complete ~54:WATER TREATMENT INSTRUMENT DEVICE FOR POWER PLANT ~71:Yunqiao Technology (Hainan) Co., Ltd, Room a30-104, floor 5, business incubation center, No. 266 Nanhai Avenue, national high tech Industrial Development Zone, Haikou, Hainan Province, People's Republic of China ~72: Fu Hong Lei~ 33:CN ~31:202210761687.5 ~32:30/06/2022

2022/08735 ~ Complete ~54:LOCKS ~71:LDD MARKETING (PTY) LTD, 17 Bainskloof Street, South Africa ~72: PILLAY, Sabashnie;PILLAY, Strinivasan Kisten;PILLAY, Thirosan Strinivasan~ 33:ZA ~31:2021/03199 ~32:12/05/2021

2022/08737 ~ Complete ~54:METHOD AND APPARATUS FOR EFFICIENT DELIVERY AND USAGE OF AUDIO MESSAGES FOR HIGH QUALITY OF EXPERIENCE ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: CZELHAN, Bernd;FUCHS, Harald;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EP ~31:17196255.8 ~32:12/10/2017

2022/08745 ~ Complete ~54:ELECTRIC RESISTANCE WELDED STEEL PIPE, METHOD FOR MANUFACTURING THE SAME, AND AUTOMOTIVE STRUCTURAL MEMBER ~71:JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 1000011, Japan ~72: HIROYUKI SHIROSAWA;RYO NAKAZAWA;SHINSUKE IDE~ 33:JP ~31:2020-047317 ~32:18/03/2020

2022/08720 ~ Complete ~54:IMAGE ANOMALY DETECTION METHOD BASED ON VARIATIONAL AUTO-ENCODER ALGORITHM ~71:Liaoning Technical University, No. 188, Longwan South Street, Xingcheng City, Huludao City, Liaoning Province, 123000, People's Republic of China ~72: JIN, Haibo;MA, Linlin;TIAN, Guiyuan~

2022/08722 ~ Complete ~54:PREPARATION METHOD FOR IMPROVING FLUIDITY AND MOISTURE RESISTANCE OF WELDING ADDITIVE CALCIUM TITANATE ~71:Anhui Shenghong Electronics Co., Ltd., Jinniu Town, Lujiang County, Hefei City, Anhui Province, 230000, People's Republic of China ~72: LIU, Guoqiang;ZHANG, Haijun;ZHANG, Kuanwen~

2022/08751 ~ Complete ~54:ANTIMICROBIAL COMPOUNDS AND COMPOSITIONS ~71:AGROFRESH INC., 510-530 Walnut Street, Suite 1350, Philadelphia, Pennsylvania, 19106, United States of America ~72: DANIEL MACLEAN;ESTHER GACHANGO;RICHARD M JACOBSON~ 33:US ~31:62/970,285 ~32:05/02/2020

2022/08756 ~ Complete ~54:COSMETIC COMPOSITION ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: DE TOLLENAERE, Morgane;REYNAUD , Romain;SCANDOLERA, Amandine;SENNELIER PORTET, Bénédicte~ 33:GB ~31:2003184.5 ~32:05/03/2020

2022/08713 ~ Complete ~54:METHOD AND APPARATUS FOR EFFICIENT DELIVERY AND USAGE OF AUDIO MESSAGES FOR HIGH QUALITY OF EXPERIENCE ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: CZELHAN, Bernd;FUCHS, Harald;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EP ~31:17196255.8 ~32:12/10/2017

2022/08741 ~ Provisional ~54:TOW ME ~71:PHATHUTSHEDZO MUNYAI, 245 NGCOBO SREET, South Africa ~72: phathutshedzo munyai~

2022/08746 ~ Complete ~54:PRE-SCREENING AND TUNING HETEROJUNCTIONS FOR TOPOLOGICAL QUANTUM COMPUTER ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: BERNARD VAN HECK;CHETAN VASUDEO NAYAK;DMITRY PIKULIN;ESTEBAN ADRIAN MARTINEZ;GEORG WOLFGANG WINKLER;GIJSBERTUS DE LANGE;LUCAS CASPARIS;MASON L THOMAS;ROMAN MYKOLAYOVYCH LUTCHYN;SEBASTIAN HEEDT;TORSTEN KARZIG~ 33:US ~31:62/984,911 ~32:04/03/2020;33:US ~31:16/886,670 ~32:28/05/2020

2022/08749 ~ Complete ~54:METHOD OF TREATMENT OF CANCER OR TUMOUR ~71:ADAPTIMMUNE LIMITED, 60 Jubilee Avenue Milton Park, Abingdon, Oxfordshire, OX14 4RX, United Kingdom ~72: NICHOLAS JONATHAN PUMPHREY~ 33:US ~31:62/976,493 ~32:14/02/2020

2022/08760 ~ Complete ~54:CARBON-BASED COMPOSITE MATERIAL, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF ~71:QINGDAO HENGNENGDA ENERGY TECHNOLOGIES CO., LTD., Room2501, Unit 1, Building 4, No.18.YinChuan East Road, Laoshan District, Qingdao, Shandong, 266000, People's Republic of China ~72: ZHANG Yongheng~ 33:CN ~31:202011370284.5 ~32:30/11/2020

2022/08758 ~ Complete ~54:SYSTEM FOR THE ELECTRO-PHYSIOLOGICAL ANALYSIS OF ONE OR MORE PLANTS ~71:LE BOURDIEC, Fabian, 53 Cours Marc Nouaux, 33000, Bordeaux, France ~72: COCHETEUX, Patrice;LE BOURDIEC, Fabian~ 33:FR ~31:FR2000094 ~32:07/01/2020

2022/08731 ~ Complete ~54:SCREENING METHOD FOR PHOSPHORUS EFFICIENCY OF DIFFERENT RICE VARIETIES ~71:Cereal Crop Institute, Hainan Academy of Agricultural Sciences, No. 9 Liufang Road, Haikou City, Hainan Province, People's Republic of China;Sanya Institute, Hainan Academy of Agricultural Sciences(Hainan Laboratory Animal Research Centre), No. 496-9, 4th Floor, Building 1, Yonyou Industrial Park, Yazhou Bay Science and Technology City, Sanya City, Hainan Province, People's Republic of China ~72: Cao Bing;Cen Xinjie;Chen Jianxiao;Lin Chaoshang;Shao Junwei;Tang Feng;Wang Xiaoning~

2022/08733 ~ Complete ~54:INFRARED POLARIZATION VISIBLE LIGHT FACE TRANSLATION METHOD BASED ON GENERATIVE ADVERSARIAL NETWORK ~71:ANHUI JIANZHU UNIVERSITY, 292 ziyun Road, Hefei, Anhui, 230601, People's Republic of China ~72: Darong ZHU;Fangbin WANG;Haixia WANG;Jianguo LI;Mengting QI;Sheng TANG;Xi TANG;Xu JIN;Zhong CHEN;Zini WANG~

2022/08736 ~ Complete ~54:A SYSYTEM FOR AIDING EDUCATION ~71:GAMMA EDUCATION TECHNOLOGIES (PTY) LTD, 1 BOSCH STREET, RUSTENBURG, 0299, REPUBLIC OF SOUTH AFRICA, South Africa ~72: MOOSA, Muhammad, Yaseen;SURTY, Muhammed~ 33:ZA ~31:2021/03049 ~32:06/05/2021

2022/08738 ~ Complete ~54:ADJUSTABLE AUXILIARY DEVICE FOR INSTALLATION OF CROSS ARM ~71:Binjie Liao, Suburban Power Supply Co., Ltd., Qinzhou, Guangxi Zhuang Autonomous Region, 535000, People's Republic of China ~72: Binjie Liao;Ruiqi Li~

2022/08740 ~ Provisional ~54:CHASSIS SHEET METAL PUNCH ACCESSORY ~71:Lance Matthews, 138 Saint Kilda Road, , Crawford, South Africa ~72: Lance Peter Matthews~

2022/08873 ~ Provisional ~54:ANTI-FUNGAL GRAFTING TAPE ~71:André Jooste, 2 Vredenzicht Crescant, Vredenzichte Estate, South Africa;Willem Jacobus Opperman, 2 Thibault Avenue, South Africa ~72: Willem Jacobus Opperman~

- APPLIED ON 2022/08/05 -

2022/08780 ~ Complete ~54:PREDICTING AND WARNING METHOD BASED ON ABNORMAL HYDROGEN CONSUMPTION OF HYDROGEN LEAKAGE FOR HYDROGEN INTERNAL COMBUSTION ENGINE VEHICLE OR HYDROGEN FUEL CELL VEHICLE ~71:CATARC Automotive Test Center (Tianjin) Co., Ltd., No. 68, Xianfeng East Road, Dongli District, Tianjin, 300300, People's Republic of China;CHINA AUTOMOTIVE TECHNOLOGY AND RESEARCH CENTER CO.,LTD., No. 68, Xianfeng East Road, Dongli District, Tianjin, 300300, People's Republic of China ~72: GUO, Ting;LI, Jingyuan;LIANG, Rongliang;LING, Jian;REN, Meilin;WU, Chunling;WU, Taoyang~

2022/08768 ~ Complete ~54:DIFFERENTIAL PRESSURE CONTROL VALVE ~71:I-CAT INTERNATIONAL CONSULTING AND TRADING (PTY) LTD, N4 GATEWAY INDUSTRIAL PARK WEST, 38 AMATOLE ROAD, CRN. SOLOMON MAHLANGU DRIVE & amp; BRONKHORSTSPRUIT ROAD, WILLOW MANOR PARK X65, PRETORIA, South Africa ~72: ROTHMANN, David, Schalk;VAN DER MERWE, Antonie, Duminy~ 33:ZA ~31:2021/05819 ~32:16/08/2021

2022/08776 ~ Complete ~54:METHOD FOR CONSTRUCTING COMPLEX WIND FIELD MODEL BASED ON MULTIPLE INDEPENDENT CONTROL PARAMETERS ~71:Sichuan Academy of Animal Husbandry Science, Building 5, No. 7, Niusha Road, Jinjiang District, Chengdu, Sichuan Province, 610066, People's Republic of China ~72: AN, Rui;CHEN, Xiaohui;GONG, Jianjun;GU, Yiren;HE, Zhiping;HU, Zihui;LEI, Yunfeng;LIANG, Yan;LV, Xuebin;TAO, Xuan;TU, Teng;WANG, Yan;YANG, Kun;YANG, Xuemei;YANG, Yuekui;YING, Sancheng;ZENG, Kai;ZHANG, Qing;ZHONG, Zhijun~

2022/08806 ~ Complete ~54:SYSTEMS AND METHODS FOR METERING, MIXING, AND DISPENSING LIQUIDS, INCLUDING ALCOHOLIC AND NON-ALCOHOLIC BEVERAGES ~71:SUSTAINABLE BEVERAGE TECHNOLOGIES INC., 16050 Table Mountain Pkwy, Suite 100, Golden, United States of America ~72: BROH, Raphael;TATERA, Patrick J.~ 33:US ~31:62/959,071 ~32:09/01/2020

2022/08781 ~ Complete ~54:A DEVICE FOR MANUFACTURING FUNCTIONALLY GRADED COMPOSITE MATERIAL MATRIX AND A METHOD THEREOF ~71:C. Ahilan, Department of Mechanical Engg.: SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY (Autonomous), Tirupati, Chittoor, India;Chikesh Ranjan, Department of Mechanical Engg.; BIRLA INSTITUTE OF TECHNOLOGY, Mesra, Ranchi, India;G. Ranjith Kumar, Department of Mechanical Engg.; SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY (Autonomous), Tirupati, Chittoor, India;Kaushik Kumar, Department of Mechanical Engg.; BIRLA INSTITUTE OF TECHNOLOGY, Mesra, Ranchi, India ~72: C. Ahilan;Chikesh Ranjan;G. Ranjith Kumar;Kaushik Kumar~

2022/08800 ~ Complete ~54:COMPOSITIONS ~71:MEXICHEM FLUOR S.A. DE C.V., Eje 106, (sin número), Zona Industrial, Mexico ~72: LOW, Robert E.~ 33:GB ~31:2002052.5 ~32:14/02/2020

2022/08805 ~ Complete ~54:SYSTEM AND METHOD FOR LOCKING A CONTROLLED MEDICAL THERAPY DEVICE ~71:10XBETA, Bldg. 128 New Lab, 19 Morris Ave., United States of America ~72: BOTHA, Marcel;BREDENKAMP, Johannes Michiel;KRUGER, Frederick Zacharias~ 33:US ~31:62/969,421 ~32:03/02/2020

2022/08769 ~ Complete ~54:A HIGH-YIELD, WIDELY-ADAPTED AND DISEASE-RESISTANT WHEAT VARIETY BREEDING METHOD ~71:INSTITUTE OF WHEAT RESEARCH, SHANXI AGRICULTURAL UNIVERSITY, Wheat Research Institute, No. 635 Gulou North Dajie, Linfen City, People's Republic of China ~72: PEI, Lei;QIU, Jiandong;XIE, Lili;XING, Cuiping;ZHANG, Dingyi;ZHANG, Jianhua;ZHANG, Yanjie~ 33:CN ~31:202111405696.2 ~32:24/11/2021

2022/08771 ~ Complete ~54:A FIXED AND ADJUSTABLE BRACKET ~71:HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH, 2nd and 3rd floor, Huashi Hotel, No. 52 Hongqi Street, Qiaoxi

District, Shijiazhuang City, People's Republic of China ~72: GENG, Yehua;LI, Guipeng;QIAO, Qiang;SUN, Hao;ZHAO, Haiyu;ZHENG, Junbin~ 33:CN ~31:202210792650.9 ~32:05/07/2022

2022/08798 ~ Complete ~54:ANTI-TIGIT ANTIBODIES, MULTISPECIFIC ANTIBODIES COMPRISING THE SAME AND METHODS OF USING THE SAME ~71:SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No.222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong District, People's Republic of China ~72: JIANG, Wei-Dong;XU, Wenfeng;XUE, Jie;YANG, Ming~ 33:CN ~31:PCT/CN2020/071340 ~32:10/01/2020

2022/08802 ~ Complete ~54:COMPOSITIONS ~71:MEXICHEM FLUOR S.A. DE C.V., Eje 106, (sin número), Zona Industrial, Mexico ~72: LOW, Robert E.~ 33:GB ~31:2002063.2 ~32:14/02/2020

2022/08797 ~ Complete ~54:CELL ISOLATION DEVICE AND METHOD ~71:CUTISS AG, Grabenstrasse 11, Switzerland ~72: DITTRICH, Anna-Lena;EISENBERG, Jascha;FREI, Reto;HOLENSTEIN, Claude Nicolas;RONFARD, Vincent;WOLLMANN, Sebastian;WULLSCHLEGER, Christian Stefan~ 33:US ~31:62/970,773 ~32:06/02/2020

2022/08804 ~ Complete ~54:A METHOD OF MEASURING THE PH OF A SAMPLE ~71:DIAGONAL BIO AB, Medicon Village, Sweden ~72: NYBERG, Per Andreas;PEACOCK, Martin;PUNYANI, Kushagr;SØPSTAD, Sindre;SHIN, Jae Yen;XIONG, Linhongjia~ 33:EP ~31:20168019.6 ~32:03/04/2020;33:EP ~31:20197572.9 ~32:22/09/2020

2022/08812 ~ Complete ~54:NEW TACKIFIER FOR ELASTOMER COMPOUNDS ~71:Rain Carbon Germany GmbH, Kekuléstr. 30, CASTROP-RAUXEL 44579, GERMANY, Germany ~72: LIU, Jun;RAUSER, Marian~ 33:EP ~31:20156034.9 ~32:07/02/2020

2022/08819 ~ Complete ~54:SUPPORT FOR TEST DEVICE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: CHRISTOPHER HUNTER;DAVID VANHOUTE;MELISSA SHER;STEVEN DAVIS~ 33:US ~31:62/971,469 ~32:07/02/2020

2022/08824 ~ Complete ~54:CAPSULE FOR BEVERAGES ~71:SARONG SOCIETA' PER AZIONI, Via Colombo 18, 42046 Reggiolo, (Reggio Emilia), Italy ~72: ANDREA BARTOLI;DAVIDE CAPITINI~ 33:IT ~31:102020000003425 ~32:19/02/2020;33:IT ~31:102020000007669 ~32:09/04/2020

2022/08786 ~ Complete ~54:ZERO-SAMPLE PICTURE QUESTION-AND-ANSWER METHOD BASED ON SEMANTIC SPACE MAPPING ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province, 564500, People's Republic of China ~72: FENG HUAZHONG;LI LANG;LIU YUN;SHEN SHIXUN;TIAN PENG;ZHOU KE~ 33:CN ~31:202210678060.3 ~32:15/06/2022

2022/08784 ~ Complete ~54:CHARGING SYSTEM FOR SWAPPING STATION OR ENERGY STORAGE STATION ~71:AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP, Block 1, Room 606, No. 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou, Guangdong, 510700, People's Republic of China;SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., Building 1, No.4766, Jiangshan Road, Nicheng Town, Pudong New Area Shanghai, 201308, People's Republic of China ~72: BING LIU;JIANPING ZHANG;ZHIMIN CHEN~ 33:CN ~31:201911370518.3 ~32:26/12/2019

2022/08788 ~ Complete ~54:SELF-SYNCHRONIZING CONTROL METHOD AND DEVICE FOR CASCADED STATCOM SYSTEM ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province , 564500, People's Republic of China ~72: FENG HUAZHONG;LI LANG;LIU YUN;SHEN SHIXUN;TIAN PENG;ZHOU KE~ 33:CN ~31:202210670257.2 ~32:14/06/2022

2022/08791 ~ Complete ~54:A COMPOSITE TAILGATE ASSEMBLY FOR A VEHICLE AND A METHOD THEROF ~71:MAHINDRA & amp; MAHINDRA LIMITED, Mahindra Research Valley, Mahindra World City, Plot No:41/1, India ~72: Anbarasan Manoharan;Sakthivel S;Satinder Dwivedi;Venugopal Pandurangan;Vinayak Hebbar;Vinoth C~ 33:IN ~31:202141035692 ~32:06/08/2021

2022/08783 ~ Complete ~54:KRAS MUTANT PROTEIN INHIBITORS ~71:JACOBIO PHARMACEUTICALS CO., LTD., Unit 2, Building 5, BYBP, No.88 Kechuang Street 6th, Business Development Area, Daxing, Beijing, 101111, People's Republic of China ~72: AMIN LI;CHAOJIE DANG;DAN LIU;PENG WANG;SUJING LI~ 33:CN ~31:PCT/CN2019/126687 ~32:19/12/2019;33:CN ~31:PCT/CN2020/070885 ~32:08/01/2020;33:CN ~31:PCT/CN2020/073723 ~32:22/01/2020;33:CN ~31:PCT/CN2020/078565 ~32:10/03/2020

2022/08785 ~ Complete ~54:SYSTEM AND METHOD FOR PERMANENT CARBON DIOXIDE SEQUESTRATION USING A RENEWABLE ENERGY SOURCE ~71:PROTOSTAR GROUP LTD., 100 Cannon Street, London, EC4N 6EU, United Kingdom ~72: EHAB TASFAI;KARAN KHIMJI;TALAL HASAN~ 33:US ~31:63/230,843 ~32:09/08/2021

2022/08787 ~ Complete ~54:VIDEO QUESTION-AND-ANSWER METHOD BASED ON CROSS-MODALITY HETEROGENEOUS GRAPH NEURAL NETWORK ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province , 564500, People's Republic of China ~72: FENG HUAZHONG;LI LANG;LIU YUN;SHEN SHIXUN;TIAN PENG;ZHOU KE~ 33:CN ~31:202210680394.4 ~32:15/06/2022

2022/08810 ~ Complete ~54:PRMT5 INHIBITOR FOR USE IN A METHOD OF TREATING PSORIASIS AND OTHER AUTOIMMUNE CONDITIONS ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: LI, Meng;TOLCHER, Anthony William~ 33:US ~31:62/957,925 ~32:07/01/2020;33:US ~31:63/116,120 ~32:19/11/2020

2022/08813 ~ Complete ~54:ANTIBODIES TO PFGARP KILL PLASMODIUM FALCIPARUM MALARIA PARASITES AND PROTECT AGAINST INFECTION AND SEVERE DISEASE ~71:Rhode Island Hospital, 593 Eddy Street, PROVIDENCE 02903, RI, USA, United States of America ~72: KURTIS, Jonathan;MOHAPATRA, Alok Das;RAJ, Dipak K.;ZUROMSKI, Jenna~ 33:US ~31:62/959,851 ~32:10/01/2020

2022/08816 ~ Complete ~54:ROTOR ASSEMBLY ~71:MAX NICHOLAS RENEWABLES LTD, 22 The Pastures,, United Kingdom ~72: NORFOLK, Robert~ 33:GB ~31:2001035.1 ~32:24/01/2020

2022/08823 ~ Complete ~54:COMBINATION CONTAINING A DUOCARMYCIN DERIVATIVE-COMPRISING ANTIBODY-DRUG CONJUGATE AND THIOSULFATE ~71:BYONDIS B.V., Microweg 22, 6545CM, Nijmegen, Netherlands ~72: JOHANNES HENRICUS MATTHIAS SCHELLENS;RUDY GERARDUS ELISABETH COUMANS~ 33:EP ~31:20155842.6 ~32:06/02/2020

2022/08792 ~ Complete ~54:METHODS OF TREATING AND PREVENTING GRAFT VERSUS HOST DISEASE ~71:PHARMACYCLICS LLC, 995 East Arques Avenue, United States of America ~72: BYRD, John, C.;DUBOVSKY, Jason, A.;JOHNSON, Amy Jo;MIKLOS, David;MUTHUSAMY, Natarajan~ 33:US ~31:61/895,981 ~32:25/10/2013;33:US ~31:61/910,945 ~32:02/12/2013;33:US ~31:61/973,173 ~32:31/03/2014;33:US ~31:61/973,176 ~32:31/03/2014

2022/08772 ~ Complete ~54:A PHOTOVOLTAIC MODULE FIXING BRACKET ~71:HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH, 2nd and 3rd floor, Huashi Hotel, No. 52 Hongqi Street, Qiaoxi District, Shijiazhuang City, People's Republic of China ~72: DING, Chunxing;LIU, Yi;QIAO, Qiang;WU, Tao;YI, Yang;ZHAO, Haiyu~ 33:CN ~31:202210840791.3 ~32:18/07/2022 2022/08818 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ENGRAFTMENT OF BASE EDITED CELLS ~71:BEAM THERAPEUTICS INC., 238 Main Street, 9th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: DANA LEVASSEUR;JONATHAN YEN;SARAH SMITH~ 33:US ~31:62/976,239 ~32:13/02/2020

2022/08820 ~ Complete ~54:PRODUCING FLINT GLASS USING SUBMERGED COMBUSTION MELTING ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: SHANE RASHLEY;UDAYA VEMPATI;WILLIAM PINC~ 33:US ~31:16/788,609 ~32:12/02/2020

2022/08767 ~ Provisional ~54:WATER MANAGEMENT SYSTEM ~71:WET WATER DISTIBUTION CC, 22 Smithville, South Africa ~72: MUTHUSAMY, LOGANATHAN~

2022/08770 ~ Complete ~54:A DIRECT-DRIVE WIND TURBINE GENERATOR GRID-CONNECTED SYSTEM AND METHOD ~71:HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH, 2nd and 3rd floor, Huashi Hotel, No. 52 Hongqi Street, Qiaoxi District, Shijiazhuang City, People's Republic of China ~72: LIU, Yi;QIAO, Qiang;TONG, Xiaoqin;WANG, Xiangwei;ZHAO, Changjiang;ZHAO, Haiyu~ 33:CN ~31:202210816137.9 ~32:12/07/2022

2022/08778 ~ Complete ~54:METHOD FOR ACCOUNTING CARBON VALUES OF THREE UTILIZATION PATTERNS OF GRASSLAND ~71:Northwest Institute of Plateau Biology, Chinese Academy of Sciences, No. 23, Xinning Road, Chengxi District, Xining City, Qinghai Province, 810008, People's Republic of China ~72: CHEN, Kelong;CHEN, Xin;HUO, Lili;LUO, Caiyun;WANG, Shiping;ZHAO, Liang;ZHAO, Xinquan;ZUO, Chao~

2022/08801 ~ Complete ~54:COMPOSITIONS ~71:MEXICHEM FLUOR S.A. DE C.V., Eje 106, (sin número), Zona Industrial, Mexico ~72: LOW, Robert E.~ 33:GB ~31:2002048.3 ~32:14/02/2020

2022/08807 ~ Complete ~54:ANTI-TIGIT ANTIBODIES AND USAGE METHOD ~71:SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No.222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong District, People's Republic of China ~72: JIANG, Wei-Dong;XU, Wenfeng;XUE, Jie;YANG, Ming~ 33:CN ~31:202010024565.9 ~32:10/01/2020

2022/08809 ~ Complete ~54:METHOD FOR ROASTING COFFEE BEANS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BIGLER, Nicolas;DUBIEF, Flavien Florent~ 33:EP ~31:20152009.5 ~32:15/01/2020

2022/08779 ~ Complete ~54:HIGHLY ROBUST PARTIAL DISCHARGE PATTERN RECOGNITION METHOD ~71:NORTH CHINA EIECTRIC POWER UNIVERSITY, 2 Beinong Road, Huilongguan Street, Changping District, Beijing, People's Republic of China ~72: CAI Yang;DUAN Qijun;LI Jinghang;LI Yan;LV Fangcheng;WANG Chunxin;XIE Jun;XIE Qing;XU Zhikang;ZHANG Yutong~

2022/08773 ~ Complete ~54:A TEST CUP FOR TESTING THE OIL RESISTANCE OF RUBBER PRODUCTS ~71:Xuzhou College of Industrial Technology, No. 1 Xiangwang Road, Gulou District, Xuzhou City, Jiangsu Province, 221000, People's Republic of China ~72: Liu Feng;Liu Taichuang;Wang Yanqiu;Wang Zaixue;Wang Zhongguang;Weng Guowen;Xu Yunhui;Yang Zhao;Zhang Zhaohong;Zhao Guiying;Zhao Xuan~

2022/08794 ~ Complete ~54:MAGNETOHYDRODYNAMIC HYDROGEN ELECTRICAL POWER GENERATOR ~71:BRILLIANT LIGHT POWER, INC., 493 Old Trenton Road, Cranbury, United States of America ~72: MILLS, Randell, L.~ 33:US ~31:62/971,938 ~32:08/02/2020;33:US ~31:62/980,959 ~32:24/02/2020;33:US ~31:62/992,783 ~32:20/03/2020;33:US ~31:63/001,761 ~32:30/03/2020;33:US ~31:63/012,243 ~32:19/04/2020;33:US ~31:63/024,487 ~32:13/05/2020

2022/08790 ~ Complete ~54:METHOD FOR CONSTRUCTING SPATIAL EXTENT OF QUALITATIVE LOCATION BASED ON A KNOWLEDGE GRAPH ~71:HEFEI UNIVERSITY OF TECHNOLOGY, No. 193 Tunxi Road, Hefei City, Anhui Province, People's Republic of China;SHENZHEN DATA MANAGEMENT CENTER OF PLANNING AND NATURAL RESOURCE, Shanshui Building, 1st Floor, West Block, No. 69, News Road, Futian District, Shenzhen, People's Republic of China ~72: CHUNJU ZHANG;LEI ZHANG;XIN CHEN;XUEYE CHEN~

2022/08795 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ORGAN-PROTECTIVE EXPRESSION AND MODULATION OF CODING RIBONUCLEIC ACIDS ~71:COMBINED THERAPEUTICS, INC., 251 Little Falls Drive, Wilmington, Delaware, United States of America ~72: DUVAL, Valerie;MICOL, Romain~ 33:US ~31:62/979,619 ~32:21/02/2020;33:US ~31:63/059,458 ~32:31/07/2020

2022/08774 ~ Complete ~54:METHOD FOR PRODUCING PIG BILE SALTS ~71:Changde Yungang Biotechnology Co., Ltd., NO.8 Fenglin Road, Sujiadu Community, Zhangmuqiao Street, Changde Economic and Technological Development Zone, Changde City, Hunan Province, 415001, People's Republic of China ~72: DENG, Jiaguo;LI, Guojun;LI, Yuezhong;OUYANG, Wenkai;SHENG, Min;TANG, Xuewen;XIE, Xiaoguo;ZENG, Fei~ 33:CN ~31:202111370590.3 ~32:18/11/2021

2022/08775 ~ Complete ~54:BINHAI CYNANCHUM AURICULATUM ROOT BEER WITH HIGH AUXILIARY MATERIAL RATIO AND PREPARATION METHOD THEREOF ~71:Yancheng Teachers University, No. 2, South Road of Xiwang Avenue, Yancheng Development Zone, Jiangsu Province, 224007, People's Republic of China ~72: HONG, Jian;KANG, Yijun;SHEN, Min;SUN, Miao;TANG, Xingyao;WANG, Huanli;ZHANG, Yanzhou;ZHU, Dewei~ 33:CN ~31:202111043878.X ~32:07/09/2021

2022/08777 ~ Complete ~54:WATER-STOP STEEL PLATE REINFORCEMENT DEVICE ~71:The First Construction Engineering Company LTD. Of China Construction Second Engineering Bureau, Floor 1-7, Building 1, Yard 9, Kechuang 4th Street, Beijing Economic Development Zone, Beijing, 100023, People's Republic of China ~72: CHEN, Chao;HE, Junhong;LI, Pengfei;OU, Qingsong;SHANG, Liying;WU, Zhongmao;ZHANG, Han;ZHONG, Yingshu~ 33:CN ~31:202220815871.9 ~32:08/04/2022

2022/08782 ~ Complete ~54:METHODS OF ADMINISTERING BETA7 INTEGRIN ANTAGONISTS ~71:GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080, United States of America ~72: BANMEET ANAND;ERIC STEFANICH;JENNIFER VISICH;MARNA WILLIAMS;MEINA TANG;SHARON O'BYRNE~ 33:US ~31:61/470,360 ~32:31/03/2011;33:US ~31:61/550,216 ~32:21/10/2011

2022/08808 ~ Complete ~54:USING OPTICAL REMOTE SENSORS AND MACHINE LEARNING MODELS TO PREDICT AGRONOMIC FIELD PROPERTY DATA ~71:Climate LLC, 201 Third Street, Suite 1050, SAN FRANCISCO 94103, CA, USA, United States of America ~72: CASAS, Angeles;KIM, Ho Jin;WARD, Steven;YANG, Xiaoyuan~ 33:US ~31:62/958,211 ~32:07/01/2020

2022/08811 ~ Complete ~54:TEAR-OPEN POUCH THAT STAYS IN ONE PIECE AFTER OPENING ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: CHEVET-DOUELLE, Fanny Claire Emmanuelle;WYSER, Yves Roger~ 33:EP ~31:20151961.8 ~32:15/01/2020

2022/08814 ~ Complete ~54:HYDROPHOBIC MEDIA FOR THE COLLECTION OF MINERAL PARTICLES IN AQUEOUS SYSTEMS ~71:BYK-Chemie GmbH, Abelstraße 45, WESEL 46483, GERMANY, Germany;CiDRA Corporate Services LLC, 50 Barnes Park North, WALLINGFORD 06492, CT, USA, United States of America ~72: COPPOLA, Michael D.;GELORME, Jeff;GREENE, Allison K.;IBANEZ, Jordi Calveras;RYAN, Michael Stephen;SACKINGER, Kathryn;YANG, Guozhen~ 33:US ~31:62/970,820 ~32:06/02/2020

2022/08817 ~ Complete ~54:PROCESS FOR MAKING CERIUM AND ZIRCONIUM CONTAINING COMPOSITIONS USING MESITYLENE AND COMPOSITION MADE BY SAME ~71:NEO PERFORMANCE MATERIALS (SINGAPORE) PTE. LTD., #01-19 The Galen, 61 Science Park Road, Singapore Science Park Road III, 117525, Singapore ~72: BARRY HUANG;STEFFI TAN;SZU HWEE NG~ 33:US ~31:62/976,927 ~32:14/02/2020

2022/08821 ~ Complete ~54:FEED MATERIAL FOR PRODUCING COLORLESS GLASS USING SUBMERGED COMBUSTION MELTING ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: UDAYA VEMPATI;WILLIAM PINC~ 33:US ~31:16/788,631 ~32:12/02/2020

2022/08796 ~ Complete ~54:METHODS AND COMPOSITIONS FOR PREVENTING ADSORPTION OF THERAPEUTIC PROTEINS TO DRUG DELIVERY SYSTEM COMPONENTS ~71:APTEVO RESEARCH AND DEVELOPMENT LLC, 2401 FOURTH AVENUE, SUITE 1050, SEATTLE, WASHINGTON 98121, USA, United States of America ~72: CLAPPER, Jonathan;LI, Gang;WEE, Siowfong~ 33:US ~31:62/960,602 ~32:13/01/2020

2022/08799 ~ Complete ~54:ANTI-TIGIT ANTIBODIES, MULTISPECIFIC ANTIBODIES COMPRISING THE SAME AND METHODS OF USING THE SAME ~71:SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No.222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong District, People's Republic of China ~72: JIANG, Wei-Dong;XU, Wenfeng;XUE, Jie;YANG, Ming~ 33:CN ~31:PCT/CN2020/071336 ~32:10/01/2020

2022/08803 ~ Complete ~54:REFRIGERANT COMPOSITIONS AND USE THEREOF ~71:MEXICHEM FLUOR S.A. DE C.V., Eje 106, Zona Industrial, Mexico ~72: LOW, Robert~ 33:GB ~31:2002050.9 ~32:14/02/2020

2022/08789 ~ Complete ~54:DECENTRALIZED ECONOMICAL OPERATION CONTROL METHOD FOR MICRO-GRID BASED ON CASCADED INVERTERS ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province , 564500, People's Republic of China ~72: FENG HUAZHONG;LI LANG;LIU YUN;SHEN SHIXUN;TIAN PENG;ZHOU KE~ 33:CN ~31:202210670015.3 ~32:14/06/2022

2022/08815 ~ Complete ~54:NEW MACROCYCLIC COMPOUNDS, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM ~71:Les Laboratoires Servier, 35 rue de Verdun, SURESNES CEDEX 92284, FRANCE, France ~72: BERGER, Sylvie;DURAND, Didier;DUVIVIER, Valérie;GYURIS, Márió;KISS, Árpád;MADARÁSZ, Zoltán;MARTINY, Virginie;MOLNÁR, Mark;NYERGES, Miklós;RUDASOVÁ, Monika;SÁPI, Attila;SEEDORF, Klaus;THERET, Isabelle;VINSON, Cédric;WÉBER, Csaba~ 33:EP ~31:20305207.1 ~32:28/02/2020

2022/08822 ~ Complete ~54:GLASS REDOX CONTROL IN SUBMERGED COMBUSTION MELTING ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: UDAYA VEMPATI;WILLIAM PINC~ 33:US ~31:16/788,635 ~32:12/02/2020

- APPLIED ON 2022/08/08 -

2022/08827 ~ Provisional ~54:ACCESS CONTROL SYSTEM AND ELECTRONIC LOCK ~71:BURGER, Cornelius, 6 Avalon, 1 Bishop Bird Street, Wierdapark, Centurion, South Africa;SCHOEMAN, Jurgens Johannes, 19 Lawley ave, Northcliff, South Africa ~72: BURGER, Cornelius~

2022/08959 ~ Complete ~54:DEBLOCKING FILTER FOR SUB-PARTITION BOUNDARIES CAUSED BY INTRA SUB-PARTITION CODING TOOL ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;ESENLIK, Semih;GAO, Han;KOTRA, Anand Meher;WANG, Biao~ 33:US ~31:62/791,003 ~32:10/01/2019

2022/08838 ~ Complete ~54:A MODIFIED MRS-BASED MEDIUM SPECIALIZED FOR LACTIC ACID BACTERIA ISOLATION FROM LIVESTOCK AND POULTRY FECES ~71:SHANXI AGRICULTURAL UNIVERSITY, No. 1 Mingxian South Road, Taigu District, Jinzhong City, People's Republic of China ~72: CHEN, Liqin;HUO, Nairui;LI, Hongquan;PEI, Wenyue;YANG, Rujie;ZHANG, Ting;ZHAO, Donghao~ 33:CN ~31:202210746990.8 ~32:29/06/2022

2022/08840 ~ Complete ~54:EXPLORATION AND BLOCKING METHOD FOR GROUNDWATER CONTAMINATION CHANNEL OF COAL MINE GOAF ROOF ~71:LIUPANSHUI NORMAL UNIVERSITY, No 19, Minghu Road Zhongshan District, Liupanshui City, People's Republic of China ~72: GAO, Ying;LI, Bo;LI, Tao;LIU, Jiangang~ 33:CN ~31:202210670206.X ~32:14/06/2022

2022/08856 ~ Complete ~54:PROCESS FOR PREPARING S-BEFLUBUTAMID BY RESOLVING 2-BROMOBUTANOIC ACID ~71:CHEMINOVA A/S, Melrose, Denmark ~72: DONGJIE PENG;INDRAJEET M JAMANE;JIANHUA MAO;RAVINDRA V DATAR;RICHARD M CORBETT;SHAILESHKUMAR K PATEL~ 33:US ~31:62/972,788 ~32:11/02/2020

2022/08960 ~ Complete ~54:SINUSOIDAL TUBULAR CONDUCTING BUSBAR ~71:FRANCISQUINI, Melquisedec, Rua Duarte da Costa, 2052, COATIA 06706-060, SÃO PAULO II, BRAZIL, Brazil ~72: FRANCISQUINI, Melquisedec~ 33:BR ~31:10 2020 003216-0 ~32:14/02/2020

2022/08961 ~ Complete ~54:METHOD AND PLANT FOR THE ELECTROCHEMICAL PRODUCTION OF OXYGEN ~71:Linde GmbH, Dr.-Carl-von-Linde-Straße 6-14, PULLACH 82049, GERMANY, Germany ~72: HENTSCHEL, Benjamin;PESCHEL, Andreas~ 33:DE ~31:10 2020 000 936.0 ~32:14/02/2020;33:EP ~31:20020168.9 ~32:09/04/2020

2022/08830 ~ Complete ~54:COUPLING HAVING TABBED RETAINER ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, United States of America ~72: BOWMAN, Matthew A.;MADARA, Scott D.;SITH, Ahmad~ 33:US ~31:62/336,885 ~32:16/05/2016

2022/08831 ~ Complete ~54:SYSTEM AND METHOD OF MANAGING UNITS FOR USE IN ACCESSING A SERVICE ~71:ENVISAGED PLATFORM TO EXCITE CONVERGENCE (PTY) LTD, 14 ULUZI STREET AMANDA, South Africa ~72: LAMBERT, BOKOLOSHE LUNGILE;MKUBELO, XOLANI~ 33:ZA ~31:2021/05858 ~32:17/08/2021

2022/08834 ~ Complete ~54:FORMULATION OF SELF-MICROEMULSIFYING DRUG DELIVERY SYSTEM CONTAINING COMBINATION OF 5-FLUOROURACIL WITH CURCU-T TO TARGET COLON CANCER ~71:Dr. Vishwanath Karad MIT-World Peace University, MIT World Peace University S.No.124, Paud Road, Kothrud, Pune, India;POLSHETTIWAR, Satish Arunrao, MIT World Peace University S.No.124, Paud Road, Kothrud, Pune, India ~72: AKHARE, Gauri Ranjan;JAGDALE, Swati C.;POLSHETTIWAR, Satish Arunrao~

2022/08846 ~ Complete ~54:AUTOMATIC PROCESSING DEVICE FOR BEARING OUTER RING AND THE PROCESSING METHOD THEREOF ~71:Jiashan APM Industrial Bushing Co., Ltd., Floors 1-2, building 4, No. 168, Linhu Avenue, Yaozhuang Town, Jiashan County, Jiaxing City, Zhejiang Province, People's Republic of China ~72: Li Jianqing;Li Yingjie~

2022/08849 ~ Complete ~54:SENSOR-ENABLED SYSTEM AND METHOD FOR MONITORING THE HEALTH, CONDITION, AND/OR STATUS OF INFRASTRUCTURE ~71:TENSAR INTERNATIONAL CORPORATION, 2500 Northwinds Parkway Suite 500, United States of America ~72: CAVANAUGH, Joseph;HAMMOND, Matthew;WALLACE, John~ 33:US ~31:62/967,733 ~32:30/01/2020;33:US ~31:62/967,736 ~32:30/01/2020;33:US ~31:63/030,485 ~32:27/05/2020

2022/08859 ~ Complete ~54:MUSCLE TARGETING COMPLEXES AND USES THEREOF FOR TREATING DYSTROPHINOPATHIES ~71:DYNE THERAPEUTICS, INC., Melrose, United States of America ~72: BRENDAN QUINN;CODY A DESJARDINS;JASON P RHODES;MOHAMMED T QATANANI;ROMESH R SUBRAMANIAN;TIMOTHY WEEDEN~ 33:US ~31:62/959,796 ~32:10/01/2020;33:US ~31:62/965,748 ~32:24/01/2020;33:US ~31:62/968,443 ~32:31/01/2020;33:US ~31:62/980,874 ~32:24/02/2020;33:US ~31:63/055,537 ~32:23/07/2020;33:US ~31:63/069,066 ~32:23/08/2020;33:US ~31:63/132,929 ~32:31/12/2020

2022/08839 ~ Complete ~54:APPLICATION OF 3,4-DIHYDROXYACETOPHENONE DERIVATIVE IN PREPARATION OF LIPID-LOWERING DRUG ~71:WEIFANG MEDICAL UNIVERSITY, No. 7166, Baotong West Street, Weifang City, People's Republic of China ~72: CAO, Daihong;GUO, Juntang;LI, Wentao;LIU, Dongmei;LIU, Jiangyue;WANG, Yunhan;ZHANG, Daijuan;ZHANG, Lan'e~

2022/08844 ~ Complete ~54:METHOD FOR DETERMINING POLLUTANTS BY COMBINING DBD SPECTROSCOPY WITH MACHINE LEARNING ~71:Tianjin University, Yaguan Road 135, Jinnan District, Tianjin, People's Republic of China;Tianjin University of Commerce, Guangrong Road 409,Beichen District, Tianjin, People's Republic of China ~72: CHEN Guanyi;CHENG Zhanjun;CUI Xiaoqiang;GUO Wei;HOU Donghao;LI Jian;LI Ning;LIN Fawei;TAO Junyu;YAN Beibei~

2022/08851 ~ Complete ~54:USE OF FXR AGONISTS FOR TREATING AN INFECTION BY HEPATITIS D VIRUS ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 RUE MICHEL ANGE, 75016 PARIS, FRANCE, France;ECOLE NORMALE SUPERIEURE DE LYON, 15 PARVIS RENÉ DESCARTES, 69007 LYON, FRANCE, France;ENYO PHARMA, 60 AVENUE ROCKEFELLER BIOSERRA 1 - BÂTIMENT B, 69008 LYON, FRANCE, France;INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), 101 RUE DE TOLBIAC, 75013 PARIS, FRANCE, France;UNIVERSITE CLAUDE BERNARD LYON 1, 43 BOULEVARD DU 11 NOVEMBRE 1918, 69622 VILLEURBANNE, FRANCE, France ~72: ANDRE, Patrice;DARTEIL, RaphaëI;DURANTEL, David;LACOMBE, Benoît;LOTTEAU, Vincent;LUCIFORA, Julie;RAMIERE, Christophe~ 33:EP ~31:20305024.0 ~32:15/01/2020

2022/08854 ~ Complete ~54:MUSCLE TARGETING COMPLEXES AND USES THEREOF FOR TREATING MYOTONIC DYSTROPHY ~71:DYNE THERAPEUTICS, INC., Melrose, United States of America ~72: BRENDAN QUINN;CODY A DESJARDINS;MOHAMMED T QATANANI;ROMESH R SUBRAMANIAN;TIMOTHY WEEDEN~ 33:US ~31:62/959,776 ~32:10/01/2020;33:US ~31:62/965,712 ~32:24/01/2020;33:US ~31:62/968,383 ~32:31/01/2020;33:US ~31:63/055,499 ~32:23/07/2020;33:US ~31:63/069,063 ~32:23/08/2020;33:US ~31:63/132,856 ~32:31/12/2020

2022/08858 ~ Complete ~54:MUSCLE TARGETING COMPLEXES AND USES THEREOF FOR TREATING FACIOSCAPULOHUMERAL MUSCULAR DYSTROPHY ~71:DYNE THERAPEUTICS, INC., Melrose, United States of America ~72: BRENDAN QUINN;CODY A DESJARDINS;JASON P RHODES;MOHAMMED T QATANANI;ROMESH R SUBRAMANIAN;TIMOTHY WEEDEN~ 33:US ~31:62/959,788 ~32:10/01/2020;33:US ~31:62/965,740 ~32:24/01/2020;33:US ~31:62/968,761 ~32:31/01/2020;33:US ~31:63/055,513 ~32:23/07/2020;33:US ~31:63/061,833 ~32:06/08/2020;33:US ~31:63/132,929 ~32:31/12/2020

2022/08865 ~ Complete ~54:PROCESS FOR THE SYNTHESIS OF S-BEFLUBUTAMID FROM (R)-2-AMINOBUTANOIC ACID ~71:CHEMINOVA A/S, Melrose, Denmark ~72: JIANHUA MAO;RAVINDRA V DATAR~ 33:US ~31:62/972,802 ~32:11/02/2020

2022/08871 ~ Provisional ~54:POWER SUPPLY DEVICE STAND ~71:NQOBILE THABANI ZONDI, P.O. BOX 75, South Africa ~72: NQOBILE THABANI ZONDI ~

2022/08832 ~ Complete ~54:FORMULATION OF SOLID SELF-MICRO EMULSIFIED DRUG DELIVERY SYSTEM OF CURCU-T ~71:Dr. Vishwanath Karad MIT-World Peace University, MIT World Peace University S.No.124, Paud Road, Kothrud, Pune, India;POLSHETTIWAR, Satish Arunrao, MIT World Peace University S.No.124, Paud Road, Kothrud, Pune, India ~72: JAGDALE, Swati C.;PINGLE, Snehal Dnyaneshwar;POLSHETTIWAR, Satish Arunrao~

2022/08835 ~ Complete ~54:A SYSTEM AND METHOD TO DEVELOP A HUMAN-COMPUTER INTERACTION BASED USER INTERFACE FOR FACILITATING MUSICAL INSTRUMENT RENTALS ~71:DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;JOSHI, Prachi Manoj, FLAT NO 7, 4TH FLOOR, INDUMATI APARTMENT, SANEWADI, AUNDH, India;MAHESHWARI, Shrey Rajesh, C5-903, BRAMHA AVENUE, NEAR JYOTI RESTAURANT, KONDHWA, India;PANDE, Milind Sudhakar, E103, INDRADHANU SOCIETY, BEHIND VANAZ COLONY, KOTHRUD, PUNE, India;VISHWARUPE, Varad Vivek, VARDAYINEE, SHIVAJI NAGAR, OPP VIVEKANAND SCHOOL, DATEY COLLEGE ROAD, YAVATMAL, India ~72: JOSHI, Prachi Manoj;MAHESHWARI, Shrey Rajesh;PANDE, Milind Sudhakar;VISHWARUPE, Varad Vivek~

2022/08857 ~ Complete ~54:CAPSULE FOR BEVERAGE ~71:SARONG SOCIETA' PER AZIONI, Melrose, Italy ~72: ANDREA BARTOLI;DAVIDE CAPITINI~ 33:IT ~31:10202000003425 ~32:19/02/2020;33:IT ~31:102020000007669 ~32:09/04/2020;33:IT ~31:102020000015676 ~32:29/06/2020

2022/08870 ~ Provisional ~54:SPITTING CONTAINER (JACK SPIT) ~71:JACK THALUKI KOMAPE, 188 MORITING SECTION, TEMBISA, GAUTENG, South Africa ~72: JACK THALUKI KOMAPE~

2022/08962 ~ Complete ~54:VIDEO DECODING METHOD AND APPARATUS FOR OBTAINING QUANTIZATION PARAMETER, AND VIDEO ENCODING METHOD AND APPARATUS FOR TRANSMITTING QUANTIZATION PARAMETER ~71:Samsung Electronics Co., Ltd., 129, Samsung-ro, Yeongtong-gu, SUWON-SI 16677, GYEONGGI-DO, REPUBLIC OF KOREA, Republic of Korea ~72: CHOI, Kiho;KIM, Chanyul;PARK, Minsoo;PARK, Minwoo;PIAO, Yinji;SOHN, Yumi~ 33:US ~31:62/959,452 ~32:10/01/2020

2022/08826 ~ Provisional ~54:GREENER METHODS FOR THE ENANTIOSELECTIVE CHEMOENZYMATIC SYNTHESIS OF PHARMACEUTICALS DERIVED FROM B-HYDROXYLATED ESTER INTERMEDIATES ~71:Daniel Pienaar, 262 Carina Street, South Africa ~72: Daniel Petzer Pienaar~ 33:ZA ~31:1 ~32:07/08/2022

2022/08836 ~ Complete ~54:SYSTEM AND METHOD TO INTELLIGENTLY DISPLAY OR SUSPEND SOCIAL MEDIA NOTIFICATIONS USING EXPLAINABLE ARTIFICIAL INTELLIGENCE AND HUMAN COMPUTER INTERACTION ~71:DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;JOSHI, Prachi Manoj, FLAT NO 7, 4TH FLOOR, INDUMATI APARTMENT, SANEWADI, AUNDH, India;PANDE, Milind Sudhakar, E103, INDRADHANU SOCIETY, BEHIND VANAZ COLONY, KOTHRUD, PUNE, India;VISHWARUPE, Varad Vivek, VARDAYINEE, SHIVAJI NAGAR, OPP VIVEKANAND SCHOOL, DATEY COLLEGE ROAD, YAVATMAL, India ~72: JOSHI, Prachi Manoj;PANDE, Milind Sudhakar;VISHWARUPE, Varad Vivek~

2022/08837 ~ Complete ~54:A SYSTEM AND METHOD TO GENERATE INTELLIGENT PAYMENT ALERTS BASED ON ARTIFICIAL INTELLIGENCE ~71:DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;MAHESHWARI, Shrey Rajesh, C5-903, BRAMHA AVENUE, NEAR JYOTI RESTAURANT, KONDHWA, India;MATHIAS, Nicole Wilma Patrick, 2A/903, ASHOK NAGAR, MILITARY ROAD, ANDHERI WAST, India;PANDE, Milind Sudhakar, E103, INDRADHANU SOCIETY, BEHIND VANAZ COLONY, KOTHRUD, PUNE, India;VISHWARUPE, Varad Vivek, VARDAYINEE, SHIVAJI NAGAR, OPP VIVEKANAND SCHOOL, DATEY COLLEGE ROAD, YAVATMAL, India ~72: MAHESHWARI, Shrey Rajesh;MATHIAS, Nicole Wilma Patrick;PANDE, Milind Sudhakar;VISHWARUPE, Varad Vivek~

2022/08845 ~ Complete ~54:WINE AGING DEVICE AND AGING METHOD BASED ON TERAHERTZ TECHNOLOGY ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic and Technological Development Zone, Shenyang, liaoning province, 110870, People's Republic of China ~72: Fang Wei;Huang Xiaoyue;Liu Weiwei;Qi Shuo;Yan Siyu;Zhang Yifan;Zhao Chentong;Zou Mingyang~

2022/08855 ~ Complete ~54:CAMPTOTHECIN DERIVATIVES AND CONJUGATES THEREOF ~71:MEDIBOSTON, INC., Melrose, United States of America ~72: WEI LI~ 33:US ~31:62/981,197 ~32:25/02/2020

2022/08862 ~ Complete ~54:CUTIBACTERIUM ACNES STRAIN AND MEDICAL USES THEREOF ~71:AILEENS PHARMA S.R.L., Melrose, Italy ~72: FRANCA VERGALITO;GIULIO PETRONIO PETRONIO;IRENE MAGNIFICO;LAURA PIETRANGELO;MARCO ALFIO CUTULI;NOEMI VENDITTI;ROBERTO MARIA ANTONIO DI MARCO;SONIA LONGO SORMANI~ 33:IT ~31:10202000003233 ~32:18/02/2020

2022/08869 ~ Provisional ~54:POWER APP ~71:ONKARABILE MOAGI, PLOT 103, FELICITY ROAD, GAUTENG, South Africa ~72: ONKARABILE MOAGI~

2022/08829 ~ Provisional ~54:TELEPHOTO CAMERA AND WIDE CAMERA AND LASER AUTOFOCUS WITH REMOVABLE SD (SECURE DIGITAL) CARD PUSH-IN SLOT AND BUILT-IN RECHARGEABLE BATTERY VIRTUAL REALITY HEADSET. ~71:AHMED WASEEF SAIB, 24 Park Avenue, Desainager, South Africa ~72: AHMED WASEEF SAIB~

2022/08847 ~ Complete ~54:PROTEASE-PROCESSED MOLECULES ~71:SANOFI, 54 rue La Boétie, France ~72: LANGER, Thomas;RAO, Ercole;WEIL, Sandra~ 33:EP ~31:20305233.7 ~32:05/03/2020

2022/08852 ~ Complete ~54:IMMUNOGENIC COMPOSITIONS TO TREAT AND PREVENT MICROBIAL INFECTIONS ~71:LONGHORN VACCINES & amp; DIAGNOSTICS, LLC, 2 Bethesda Metro Center, Suite 910, United States of America ~72: DAUM, Luke T.;FISCHER, Gerald W.;SEI, Clara J.~ 33:US ~31:62/971,036 ~32:06/02/2020;33:US ~31:62/971,654 ~32:07/02/2020;33:US ~31:63/109,966 ~32:05/11/2020

2022/08861 ~ Complete ~54:PROCESS FOR THE SYNTHESIS OF S-BEFLUBUTAMID USING ASYMMETRIC HYDROGENATION ~71:CHEMINOVA A/S, Melrose, Denmark ~72: KÅRE SØNDERGAARD~ 33:US ~31:62/972,779 ~32:11/02/2020

2022/08863 ~ Complete ~54:METHODS OF TREATING AND PREVENTING ENGRAFTMENT ARRHYTHMIAS ~71:UNIVERSITY OF WASHINGTON, Melrose, United States of America;VANDERBILT UNIVERSITY, Melrose, United States of America ~72: BJORN KNOLLMANN;CHARLES E MURRY;KENTA NAKAMURA;ROBERT SCOTT THIES;WILLIAM ROBB MACLELLAN~ 33:US ~31:62/972,330 ~32:10/02/2020

2022/08866 ~ Complete ~54:AZOLE DERIVATIVE, METHOD FOR PRODUCING AZOLE DERIVATIVE, AGENT FOR AGRICULTURAL AND HORTICULTURAL USE, AND INDUSTRIAL MATERIAL PROTECTION AGENT ~71:KUREHA CORPORATION, 3-3-2, Nihonbashi-Hamacho, Japan ~72: HIRATA, Junya;KOUGE, Tomoyuki;MASANO, Taiga;MIYAKE, Taiji;MUKADE, Tsutomu~ 33:JP ~31:2020-039353 ~32:06/03/2020

2022/08825 ~ Provisional ~54:ROCK BOLT THREADED SPIN MECHANICAL ANCHORED CABLE BOLT ~71:Theodore Daniel Swemmer, PO Box 75746, South Africa ~72: Theodore Daniel Swemmer~

2022/08842 ~ Complete ~54:A COMPOUND FOR PREVENTING AND TREATING MYOPIA ~71:WANG Shuqing, Hanxiyuan 11-2-202, Liqizhuang Rd, Xiqing Dist, Tianjin, People's Republic of China;ZHANG Yan,

Guanglin Yuan 7-1-1108, Guangkai 4th Rd, Nankai Dist, Tianjin, People's Republic of China ~72: WANG Shuqing;ZHANG Yan~

2022/08843 ~ Complete ~54:A SINGLE COLUMN AUTOMATIC THREE-DIMENSIONAL WAREHOUSE WITH STACKER ~71:Shenzhen shengdafeng Trading Co., Ltd, 608, building 5, Pengyi garden, No. 1020, Shangbu North Road, Hualin community, Yuanling street, Futian District, Shenzhen, Guangdong, 518000, People's Republic of China ~72: Nong Shuhua~ 33:CN ~31:202210415657.9 ~32:18/04/2022

2022/08872 ~ Provisional ~54:MULTIPLE JOINT ACTUATOR ~71:NERIA HLATSHWAYO I/D 9101090746089, 622/136 TAMBOTI STREET FLEURHOF EXTENSION 4 1709, South Africa ~72: NERIA HLATSHWAYO I/D 9101090746089~

2022/08833 ~ Complete ~54:METHOD OF EXTRACTION USING SUGAR-ORGANIC ACID BASED EUTECTIC SOLVENTS FOR EXTRACTION OF CAROTENOIDS FROM MARIGOLD FLOWERS ~71:DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, India;KUTTY, Nithya N., SCHOOL OF BIOLOGY, MIT WORLD PEACE UNIVERSITY, SURVEY NO 124, PAUD RD, KOTHRUD, PUNE, India ~72: KUTTY, Nithya N.;LONDHE, Rutuja;PATIL, Rajeshree Narendra~

2022/08841 ~ Complete ~54:METHOD FOR ESTIMATING WHOLE-DAY MILK FAT YIELD BY ONE-TIME SAMPLING AND TESTING FOR MILK OF TWO-TIME MILKING IN ONE DAY ~71:Shandong Jinlan Dairy Co., Ltd., No. 429, Nigou Village, Manzhuang Town, Daiyue District, Tai'an City, Shandong Province, 271024, People's Republic of China;Shandong Jinlan Ecological Agriculture Technology R And D Co., Ltd., No. 8 Sangyuan Road, Licheng District, Jinan City, Shandong Province, 250100, People's Republic of China;Tai'an Jinlan Dairy Farming Co.,Ltd., Nigou Village, Manzhuang Town, Daiyue District, Tai'an City, Shandong Province, 271024, People's Republic of China ~72: FA, Jia;FA, Wenjing;FA, Yong;GAO, Shujuan;MA, Chenglong;WANG, Hui;WANG, Ning;WANG, Zhongkun;YI, Hui;ZHAO, Cui;ZHAO, Xiaoguo~

2022/08848 ~ Complete ~54:COMPOSITION FOR USE IN A TREATMENT OF CERVICAL CELL ABNORMALITIES COMPRISING SELENITE COMPOUND AND ACID ~71:SELO MEDICAL GMBH, Moosham 29, Austria ~72: FUCHS, Norbert~ 33:EP ~31:20160817.1 ~32:03/03/2020

2022/08850 ~ Complete ~54:METHOD OF PRODUCING A SUPPORT FOR POLYURETHANE-BASED IMITATION LEATHER FREE OF DIMETHYLFORMAMIDE (DMFA) OR OTHER SOLVENTS OR WATER, AND RELATED METHOD OF PRODUCING AN IMITATION LEATHER ~71:CONDOR TRADE S.R.L., Via Kennedy, 46, Italy ~72: FIDANZA, Virginio Abbondio;VENTURA, Emanuele~ 33:IT ~31:10202000003401 ~32:19/02/2020

2022/08853 ~ Complete ~54:HLA CLASS I-RESTRICTED T CELL RECEPTORS AGAINST RAS WITH G12D MUTATION ~71:THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, Office of Technology Transfer, National Institutes of Health, 6701 Rockledge Drive, Suite 700, MSC 7788, United States of America ~72: LEVIN, Noam;PARIA, Biman C.;ROSENBERG, Steven A.;YOSEPH, Rami~ 33:US ~31:62/975,544 ~32:12/02/2020

2022/08860 ~ Complete ~54:DEGRADATIVE METHOD ~71:CATEXEL TECHNOLOGIES LIMITED, Melrose, United Kingdom ~72: FABIEN PIERRE GUY GAULARD;FATEMEH BAKHSHANDEH ROSTAMI;RONALD HAGE~ 33:EP ~31:20160204.2 ~32:28/02/2020

2022/08864 ~ Complete ~54:PREPARATION OF S-BEFLUBUTAMID BY RESOLVING 2-(4-FLUORO-3-(TRIFLUOROMETHYL)PHENOXY)BUTANOIC ACID ~71:CHEMINOVA A/S, Melrose, Denmark ~72: JIANHUA MAO;RAVINDRA V DATAR;SHAILESHKUMAR K PATEL~ 33:US ~31:62/972,795 ~32:11/02/2020

2022/08867 ~ Complete ~54:PEPTIDE COMPOUNDS AND METHODS OF TREATING DISEASES USING SAME ~71:IMMUNITY PHARMA LTD., 28 Meron Street, Israel ~72: BEN-SHIMON, Avi;COHEN, Ilana;OVADIA, Eran~ 33:IL ~31:272074 ~32:15/01/2020

2022/08868 ~ Provisional ~54:DINTSA KAE ~71:TUMELO PRINCE LEKGOWANE, 251 MAGDALENA WILLERS STREET, KILNERPARK, GAUTENG, South Africa ~72: TUMELO PRINCE LEKGOWANE ~

2022/08828 ~ Provisional ~54:COUNTER-FLUX-FLOW TRANSFORMER OR INDUCTOR APPARATUS ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2022/08874 ~ Provisional ~54:MONEY CASH CODE ~71:Tshegofatso Ubisi, 8051-21 Brooklyn Street, Beverly Hills, South Africa ~72: Tshegofatso Ubisi~

- APPLIED ON 2022/08/09 -

2022/08883 ~ Complete ~54:SYNTHESIZING USER TRANSACTIONAL DATA FOR DE- IDENTIFYING SENSITIVE INFORMATION ~71:YODLEE, INC., 999 Baker Way, Suite 100, United States of America ~72: ADIB, Atif;MITRA, Rahul;PATIL, Deepak;SINGHAL, Gaurav~ 33:US ~31:17/506,508 ~32:20/10/2021

2022/08893 ~ Complete ~54:A POSITIONING METHOD OF PIPELINE ROBOT ~71:Lu'an Fuhua Intelligent Information Technology Co., Ltd, Room 108, building 15, Yipin Shangdu, economic and Technological Development Zone, Lu'an, Anhui Province, 237000, People's Republic of China ~72: Li Jialin~

2022/08897 ~ Complete ~54:A COMMUNICATION SYSTEM OF PIPELINE ROBOT ~71:Lu'an Zhengjian Information Technology Co., Ltd., Room 11, Mark A, building 3, Dongdu Nga Court, Economic and Technological Development Zones, Lu'an, Anhui province, 237000, People's Republic of China ~72: Li Huaicheng~

2022/08890 ~ Complete ~54:PREFABRICATED STEEL STRUCTURE STEEL STRUCTURE SUPPORTING DEVICE FOR BUILDING CONSTRUCTION ~71:Guangzhou City Polytechnic, NO. 248 Guangyuan Middle Road, Baiyun District, Guangzhou City, Guangdong Province, People's Republic of China ~72: LEI Hua~

2022/08892 ~ Complete ~54:EFFICIENT CULTIVATION METHOD OF CYMBIDIUM GOERINGII ~71:Fujian Institute of Tropical Crops, Wufeng Farm, Tianbao Town, Xiangcheng District, Zhangzhou City, Fujian Province, People's Republic of China;Zhangzhou Baiguan Guolan Co., Ltd., Linqian Village, Jiuhu Town, Longhai City, Fujian Province, People's Republic of China ~72: HE Xuejiao;WU Shaohua;YU Zhicheng~

2022/08896 ~ Complete ~54:PLANTING METHOD OF OXYTROPIS GLACIALIS IN PLATEAU AREA ~71:Tibet University, 10 Zangdadong Road, Lhasa, Tibet, People's Republic of China ~72: CAO Pengxi;LIU Xing;LIU Yixuan;MA Hongmei;PU Dun~

2022/08931 ~ Complete ~54:USE OF PHARMACEUTICAL COMPOSITION IN PREPARING ANTIBACTERIAL DRUG ~71:SHIJIAZHUANG YILING PHARMACEUTICAL CO., LTD., No.238, Tianshan Street Hi-Tech, Development District Shijiazhuang, People's Republic of China ~72: JIA, Zhenhua~ 33:CN ~31:202010153831.8 ~32:07/03/2021

2022/08885 ~ Complete ~54:MULTIFUNCTIONAL SELF-HEATING MEAL BOX ~71:Institute of Applied Chemistry, Jiangxi Academy of Sciences, No. 7777, Changdong Avenue, Gaoxin Technology Development Zone, Nanchang, Jiangxi, 330096, People's Republic of China;Jiangxi Agricultural University, Economic and Technological Development Zone, Nanchang, Jiangxi, 330045, People's Republic of China ~72: GU, Zhen;LIN, Jiaxin;LIU, Yunfei;XU, Gang;XU, Jianguo;ZHANG, Senwang~

2022/08875 ~ Provisional ~54:PORTABLE WASH ROOM ~71:Modular Container Solutions, 300 Koos de la Rey Str, Pretoria North, South Africa ~72: ANDRE van der WALT~

2022/08876 ~ Provisional ~54:PASSENGERS SOCCER-DEBATE ~71:SELBY RANTHO, 405 HERBETH AVE, South Africa ~72: ZINHLE JOHANA RANTHO~

2022/08888 ~ Complete ~54:IMPROVED ASSEMBLED STEEL STRUCTURE BUILDING CONNECTOR AND CONSTRUCTION METHOD THEREOF ~71:Guangzhou City Polytechnic, NO. 248 Guangyuan Middle Road, Baiyun District, Guangzhou City, Guangdong Province, People's Republic of China ~72: XU Bingjin~

2022/08894 ~ Complete ~54:AN OPERATION AND MAINTENANCE QUALITY EVALUATION SYSTEM OF EMERGENCY BROADCAST ~71:Lu'an Lutuo Information Technology Co., Ltd., No. 508, floor 5, building 2, Lu'an e-commerce Industrial Park, economic and Technological Development Zone, Lu'an, Anhui Province, 237000, People's Republic of China ~72: Wang Dawei~

2022/08884 ~ Complete ~54:EXTERNAL INTELLIGENT PLATFORM FOR MICROSCOPE, USING METHOD AND MICROSCOPE ~71:CHINA UNIVERSITY OF GEOSCIENCES (BEIJING), No. 29, Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China ~72: CHEN, Xuewu;GUAN, Ziheng;LI, Xiaoming;LIANG, Guodong;TANG, Xuan;WANG, Meng;WU, Wen;YU, Runfeng;ZHONG, Haoran~ 33:CN ~31:202210105949.2 ~32:28/01/2022

2022/08886 ~ Complete ~54:METHOD FOR PREPARING THIN SECTIONS OF SALINE MINERALS AND METHOD FOR IDENTIFYING SALINE MINERALS IN CHLORIDE BRINE ~71:Qinghai Province Geology and Mineral Testing Application Center, No. 9 Xincheng North Road, Chengzhong District, Xining City, Qinghai Province, 810000, People's Republic of China ~72: BA, Huiwen;LIU, Yuchuan;XIONG, Xin;YING, Yongpeng;ZHAO, Yuqing~

2022/08887 ~ Complete ~54:TALENT EVALUATION ANALYSIS METHOD BASED ON BAYESIAN NETWORK ~71:North China Electric Power University, No.2 Beinong Road, Huilongguan Street, Changping District, Beijing, People's Republic of China ~72: HAO Yujiao;YU Shunkun~

2022/08889 ~ Complete ~54:OPERATION AND MAINTENANCE MANAGEMENT SYSTEM BASED ON BIM PLATFORM ~71:Guangzhou City Polytechnic, NO. 248 Guangyuan Middle Road, Baiyun District, Guangzhou City, Guangdong Province, People's Republic of China ~72: LIAO Xiaobo~

2022/08891 ~ Complete ~54:FORMULA AND PROCESSING METHOD OF MINIATURE RUBBER CYCLONE WHEEL ~71:Fuquan zhuangqian Technology Co., Ltd, No. 3 standardized workshop, industrial park, machangping office, Fuquan City, Guizhou Province, People's Republic of China ~72: Li Peijian~

2022/08895 ~ Complete ~54:A COLLECTION METHOD OF SYSTEM OPERATION AND MAINTENANCE DATA BASED ON EMERGENCY BROADCAST INTERFACE DATA FILES ~71:Lu'an Lutuo Information Technology Co., Ltd., No. 508, floor 5, building 2, Lu'an e-commerce Industrial Park, economic and Technological Development Zone, Lu'an, Anhui Province, 237000, People's Republic of China ~72: Wang Dawei~

2022/08898 ~ Complete ~54:A MACHINING CENTER WITH A TOOL STORAGE DEVICE ~71:North China University of Science and Technology, 21 Bohai Avenue, Caofeidian District, Tangshan City, Hebei Province, 063210, People's Republic of China ~72: Duo Zhang;Haoqiang Zhang;Suoxia Hou;Xin Jin;Xinge Wang~ 33:CN ~31:202210254747.4 ~32:15/03/2022

2022/08877 ~ Provisional ~54:AN APPARATUS FOR A RESERVATORY HOLDING PALPABLE SUBSTANCES ~71:Louis Jacobs, 23 Estantia, Woodlands Drive, Queenswood, South Africa ~72: Louis Jacobs~ 33:ZA ~31:2021/07503 ~32:06/10/2021;33:ZA ~31:2021/09599 ~32:29/11/2021

2022/08932 ~ Complete ~54:ANTI-GITR ANTIBODIES AND USES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BABB, Robert;DUDGEON, Drew;HUANG, Yu;MOLDEN, Rosalynn;OLSON, William;SKOKOS, Dimitris;SLEEMAN, Matthew;WANG, Bei~ 33:US ~31:62/986,494 ~32:06/03/2020

- APPLIED ON 2022/08/10 -

2022/08899 ~ Complete ~54:PORTABLE TIRE REPAIRING TOOL ~71:Nicolaas Jacobus Ferreira, 18 Slagveld Road, Rooihuiskraal, Centurion, Gauteng, 0154, South Africa ~72: Nicolaas Jacobus Ferreira~

2022/08914 ~ Complete ~54:MINING AREA THREE-DIMENSIONAL GEOLOGICAL MODELING SYSTEM BASED ON MULTI-SOURCE DATA FUSION ~71:East China University of Technology, NO.418 guanglan avenue, economic development zone, Nanchang, Jiangxi province, People's Republic of China;Geological Survey of Jiangxi Province, NO.938 yingbin north avenue, qingyunpu zone, Nanchang, Jiangxi province, People's Republic of China ~72: GONG Liangxin;GUO Fusheng;GUO Jinshan;LI Bin;LI Zenghua;LOU Fasheng;QIN Yaozu;WU Shijin;WU Zhichun;ZHOU Wanpeng~

2022/08917 ~ Complete ~54:SELF-SERVICE TERMINAL DEVICE FOR DIGITAL LIBRARY ~71:Zhejiang University of science and technology, No. 318, Liuhe Road, Xihu District, Hangzhou, Zhejiang Province, People's Republic of China ~72: Guo Yao;Wu Lin;Xu Tao~ 33:CN ~31:202210870628.1 ~32:23/07/2022

2022/08924 ~ Complete ~54:SOLAR CELL BASED ON CARBON NANOSTRUCTURE ~71:HuangHuai University, No.76 Kaiyuan Avenue, Zhumadian City, Henan Province, People's Republic of China ~72: GUO Xiaolei;HU Jingyu;LIU Wenfu;QI Xinghua;WANG Yinling;YAO Haizi~

2022/08928 ~ Complete ~54:PALLET TOP CAP ~71:APL CARTONS (PTY) LTD, Abattoir Road, South Africa ~72: BARENDILLA, Clyde;GROBBELAAR, Dewald;KLEINHANS, Frederick Dewald~

2022/08944 ~ Complete ~54:STABILIZED UREA CONTAINING FERTILIZER BLENDS ~71:SABIC GLOBAL TECHNOLOGIES B.V., Melrose, Netherlands ~72: RAJAMALLESWARAMMA KORIPELLY;RAVI HEGDE;SAMIK GUPTA;SATISH BURLA~ 33:US ~31:62/983,166 ~32:28/02/2020

2022/08946 ~ Complete ~54:SUBSTITUTED 5,6-DIPHENYL-3(2H)-PYRIDAZINONES FOR USE AS FUNGICIDES ~71:FMC CORPORATION, Melrose, United States of America ~72: JEFFREY KEITH LONG;LIANA HIE~ 33:US ~31:62/976,573 ~32:14/02/2020

2022/08952 ~ Complete ~54:METHOD OF DECREASING AMYLOID BETA MONOMER LEVELS IN PATIENTS WITH COGNITIVE DECLINE ~71:Cognition Therapeutics, Inc., 2403 Sidney Street, Suite 261, PITTSBURGH 15203, PA, USA, United States of America ~72: CATALANO, Susan;IZZO, Nicholas~ 33:US ~31:62/976,325 ~32:13/02/2020

2022/08958 ~ Complete ~54:PREPARATION OF A P2X3 ANTAGONIST ~71:BELLUS HEALTH COUGH INC., 275 Armand-Frappier Boulevard, Laval, Canada ~72: CHAURET, Nathalie;GREEN, Jeremy;KRONENTHAL, David R.;VILLENEUVE, Karine~ 33:US ~31:62/977,004 ~32:14/02/2020;33:US ~31:63/144,902 ~32:02/02/2021

2022/08879 ~ Provisional ~54:AN EDIBLE RECEPTACLE ~71:GROSS, Frederick, Jacobus, 45 VLOK STREET, RENSBURG, HEIDELBERG, GAUTENG, SOUTH AFRICA, South Africa ~72: GROSS, Frederick, Jacobus~

2022/08901 ~ Complete ~54:STRETCHING DEVICE FOR YOGA TRAINING ~71:Bao Liang, No. 297, Beijing Middle Road, Tongguanshan District, Tongling City, Anhui Province, 244000, People's Republic of China;Qian Zhi, No. 297, Beijing Middle Road, Tongguanshan District, Tongling City, Anhui Province, 244000, People's Republic of China ~72: Bao Liang;Qian Zhi~

2022/08903 ~ Complete ~54:METHOD FOR PREPARING SODIUM POTASSIUM TITANATE WITH HIGH FLUIDITY AND MOISTURE RESISTANCE ~71:Anhui Shenghong Electronics Co., Ltd., Jinniu Town, Lujiang County, Hefei City, Anhui Province, 230000, People's Republic of China ~72: LIU, Guoqiang;ZHANG, Haijun;ZHANG, Kuanwen~

2022/08907 ~ Complete ~54:TESTING VERIFICATION METHOD FOR MODEL CO-SIMULATION ~71:Nanchang Hangkong University, No. 696, Fenghe South Avenue, Nanchang City, Jiangxi Province, 330199, People's Republic of China ~72: NIE, Jiahao;WU, Ting;XIAO, Peng;YANG, Fengyu;ZHENG, Wei~

2022/08910 ~ Complete ~54:RHEUMATOID ARTHRITIS EXERCISE MOVEMENT DEVICE ~71:Guyuan Institute of Traditional Chinese Medicine and Acupuncture, Qianzhen hospital, Yuanzhou District, Guyuan City, Ningxia Hui Autonomous Region, People's Republic of China ~72: LI Wenai~

2022/08913 ~ Complete ~54:MULTIFUNCTIONAL CAMERA MOUNTING PLATFORM ~71:JIAXING VOCATIONAL & amp; TECHNICAL COLLEGE, No. 547, Tongxiang Avenue, Jiaxing City, Zhejiang Province, People's Republic of China ~72: LU Chun;ZHAO Yude~

2022/08921 ~ Complete ~54:PRODUCTION PROCESS FOR HIGH-STRENGTH ALUMINUM ALLOY FOR BICYCLE FRAMES ~71:Anhui kelante Aluminum Industry Co., Ltd, Guangde Economic Development Zone, Xuancheng City, Anhui Province, People's Republic of China ~72: Maoqing Xiong;Xuebing Yuan;Zutang Pan~ 33:CN ~31:114350993A ~32:30/12/2021

2022/08938 ~ Complete ~54:COMPOSITIONS FOR MANAGING CHRONIC OBSTRUCTIVE PULMONARY DISEASE ~71:SAMI-SABINSA GROUP LIMITED, 19/1 & 19/2, I MAIN, II PHASE, PEENYA INDUSTRIAL AREA, KARNATAKA, BANGALORE 560058, INDIA, India ~72: BANI, Sarang;MAJEED, Muhammed;NAGABHUSHANAM, Kalyanam;PANDEY, Anjali~ 33:US ~31:62/962,343 ~32:17/01/2020;33:US ~31:63/126,920 ~32:17/12/2020

2022/08943 ~ Complete ~54:IMAGE CODING/DECODING METHOD AND DEVICE FOR SELECTIVELY SIGNALING FILTER AVAILABILITY INFORMATION, AND METHOD FOR TRANSMITTING BITSTREAM ~71:LG ELECTRONICS INC., Melrose, Republic of Korea ~72: HYEONG MOON JANG;JUNG HAK NAM;NAE RI PARK~ 33:US ~31:62/977,060 ~32:14/02/2020

2022/08948 ~ Complete ~54:CAPSULE FOR BEVERAGES ~71:SARONG SOCIETA' PER AZIONI, Melrose, Italy ~72: ANDREA BARTOLI;DAVIDE CAPITINI~ 33:IT ~31:102020000003425 ~32:19/02/2020;33:IT ~31:102020000007669 ~32:09/04/2020

2022/08950 ~ Complete ~54:NEW METHOD OF SYNTHESIS OF CHITOSAN DERIVATIVES AND USES THEREOF ~71:Novochizol SA, Route de l'Ile-au-Bois 1a, MONTHEY 1870, SWITZERLAND, Switzerland ~72: FOMENKO, Vladislav;KARGAPOLOV, Yuriy~ 33:EP ~31:20156732.8 ~32:11/02/2020;33:RU ~31:2020106398 ~32:11/02/2020

2022/08881 ~ Provisional ~54:CITY FUN RECREATION APPS & NOTIFICATION NETWORK ~71:Tumelo Prince Lekgowane, 251 Magdeline Willers street, South Africa ~72: Tumelo Prince Lekgowane~
2022/08882 ~ Provisional ~54:TEMORIAL ~71:Somelezo Matutu, P.O Box 34, South Africa ~72: Somelezo Matutu~

2022/08902 ~ Complete ~54:PUBLIC SERVICE SPACE ACCESSIBILITY MEASUREMENT METHOD AND APPARATUS BASED ON PEOPLE DEMANDS ~71:Institute of Urban Environment, Chinese Academy of Sciences, No. 1799, Jimei Avenue, Jimei District, Xiamen City, Fujian Province, 361021, People's Republic of China ~72: CAO, Xin;LIN, Tao;LIU, Wenhui;ZHANG, Guoqin;ZHAO, Yu~ 33:CN ~31:202111341582.6 ~32:12/11/2021

2022/08905 ~ Complete ~54:METHOD FOR INHIBITING FORMATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN GRILLED MEAT THROUGH ONION SKIN EXTRACT ~71:Yanbian University, No. 977 Gongyuan Road, Yanji City, Jilin Province, 133002, People's Republic of China ~72: CUI, Mingxun;LI, Guanhao;LI, Hongmei;LIANG, Chengyun;MU, Baide;NAN, Jingxi;PIAO, Chunxiang;WANG, Juan;WANG, Shitong~

2022/08911 ~ Complete ~54:PATH PLANNING METHOD, EQUIPMENT AND STORAGE MEDIUM FOR REALIZING SHORTEST HAMILTON LOOP ~71:DONGGUAN CITY UNIVERSITY, 1st Wenchang Road, Liaobu, Dongguan, Guangdong, People's Republic of China;DONGGUAN POLYTECHNIC, 3rd Daxue Road, Songshan Lake, Dongguan, Guangdong, People's Republic of China;LUO Jianfeng, 3rd Daxue Road, Songshan Lake, Dongguan, Guangdong, People's Republic of China;RUAN Chunyan, 1st Wenchang Road, Liaobu, Dongguan, Guangdong, People's Republic of China ~72: LUO Jianfeng;RUAN Chunyan~

2022/08922 ~ Complete ~54:HIGH-TEMPERATURE ALUMINUM ALLOY FOR FLOOR HEATING PIPES AND PRODUCTION PROCESS THEREFOR ~71:Anhui kelante Aluminum Industry Co., Ltd, Guangde Economic Development Zone, Xuancheng City, Anhui Province, People's Republic of China ~72: Maoqing Xiong;Xuebing Yuan;Zutang Pan~ 33:CN ~31:114369746A ~32:31/12/2021

2022/08926 ~ Complete ~54:COMPUTER IMPLEMENTED SYSTEM FOR ANALYSIS RELATIONSHIP OF CORPORATE SOCIAL PERFORMANCE AND FINANCIAL PERFORMANCE ~71:CHINNADORAI, KM, Principal, Kamban College of Arts and Science, India;DHANASEKAR, Dhamotharan, Ph.D. Research Scholar in Management, Bharathidasan University, India;RAJA, Mariappan, Assistant Professor in Commerce, Department of Commerce, Bharathidasan University, Constituent College, India;RAMASAMY, Venkatachalam, Founder and Consultant, The MindPedia Portfolio Consultancy, India;SANTHOSHKUMAR, Sakthivel, Ph.D. Research Scholar in Commerce Inter-disciplinary in Management, Bharathidasan University, India;SELVAM, Murugesan, Professor and Head, Department of Commerce and Financial Studies, Bharathidasan University, India;VENKATESWAR, Sankaran, Professor, Accounting Department Chair and Accounting Program Director, School of Economics & amp; Business Administration, Saint Mary's College of California, Brother Urban Gregory (BUG) Hall, 1928 St Marys Rd, United States of America ~72: CHINNADORAI, KM;DHANASEKAR, Dhamotharan;RAJA, Mariappan;RAMASAMY, Venkatachalam;SANTHOSHKUMAR, Sakthivel;SELVAM, Murugesan;VENKATESWAR, Sankaran~

2022/08930 ~ Complete ~54:SYSTEMS FOR IDENTIFICATION OF HISTOPATHOLOGY IMAGES OF BREAST TUMOUR CELLS USING CNN ~71:Dr. Mridula Singh, Associate Professor, Department of Computer Science & Engineering, College of Engineering Roorkee (COER), 7 kms Roorkee-Haridwar Road (NH-58), Post Box No. 27, Vardhmanpuram, Roorkee, Haridwar, India;Mradul Kumar Jain, Research Scholar, Veer Madho Singh Bhandari Uttarakhand Technical University, Dehradun, Post Office, Chandanwadi, Prem Nagar Sudhowala, Dehradun, India;Prof. Brij Mohan Singh, Director, College of Engineering Roorkee (COER), 7 kms Roorkee-Haridwar Road (NH-58), Post Box No. 27, Vardhmanpuram, Roorkee, Haridwar, India ~72: Dr. Mridula Singh;Mradul Kumar Jain;Prof. Brij Mohan Singh~

2022/08934 ~ Complete ~54:CONTAINER SYSTEM AND USE THEREOF ~71:CAPARTIS AG, GRABENSTRASSE 15, 8200 SCHAFFHAUSEN, SCHAFFHAUSEN, SWITZERLAND, Switzerland ~72: WOHLGENANNT, Herbert~ 33:EP ~31:20157357.3 ~32:14/02/2020

2022/08937 ~ Complete ~54:VIEWING OPTIC WITH CONTOURS ~71:SHELTERED WINGS, INC. d/b/a VORTEX OPTICS, ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72: BLOK, Jordan;LENZ, Jesse;MCDERMOT, Connor~ 33:US ~31:62/961,447 ~32:15/01/2020

2022/08954 ~ Complete ~54:RADAR SYSTEM ~71:Thales Nederland B.V., Zuidelijke Havenweg 40, HENGELO NL-7550 GD, THE NETHERLANDS, Netherlands ~72: HOGEMAN, Edwin Leonardus Josephus;KAPPEL, Eric André~

2022/08935 ~ Complete ~54:ROLLER MILL HAVING CROSSWISE GRINDING ROLLERS ~71:GEBR. PFEIFFER SE, BARBAROSSA-STRAßE 50 - 54, 67655 KAISERSLAUTERN, GERMANY, Germany ~72: ALVE, Johannes;HANAUER, Saskia;HOFFMANN, Dirk~ 33:EP ~31:20151718.2 ~32:14/01/2020

2022/08936 ~ Complete ~54:ZOOM CELL ~71:SHELTERED WINGS, INC., ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72: MCDERMOT, Connor~ 33:US ~31:62/961,464 ~32:15/01/2020

2022/08953 ~ Complete ~54:KNOTLESS SOFT TISSUE IMPLANT SYSTEMS AND RELATED METHODS ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: HARTSON, Kyle James~ 33:US ~31:62/968,765 ~32:31/01/2020

2022/08880 ~ Provisional ~54:MAXILLARY AIRWAY DEVICE ~71:SELWYN GRUSD, Melrose, South Africa ~72: SELWYN GRUSD~

2022/08878 ~ Provisional ~54:WELDING HELMET ~71:WILLEM NICOLAAS VAN RENSBURG, 56 4th street, Linden, South Africa ~72: WILLEM NICOLAAS VAN RENSBURG~

2022/08900 ~ Complete ~54:ALUMINUM ALLOY PROCESSING TECHNOLOGY FOR HIGH-STRENGTH ANTI-THEFT LOCK CYLINDER ~71:Anhui kelante Aluminum Industry Co., Ltd, Guangde Economic Development Zone, Xuancheng City, Anhui Province, People's Republic of China ~72: Maoqing Xiong;Xuebing Yuan;Zutang Pan~ 33:CN ~31:114273616A ~32:31/12/2021

2022/08904 ~ Complete ~54:METHOD FOR SIMULTANEOUSLY DERIVATIZING, EXTRACTING AND DETECTING PHENOL COMPOUNDS AND ORGANIC ACID COMPOUNDS IN MEAT ~71:Yanbian University, No. 977 Gongyuan Road, Yanji City, Jilin Province, 133002, People's Republic of China ~72: NAN, Jingxi;WANG, Juan~

2022/08906 ~ Complete ~54:METHOD FOR CALCULATING CARBON SINK VALUE OF WETLAND PARK ~71:Northwest Institute of Plateau Biology, Chinese Academy of Sciences, No. 23, Xinning Road, Chengxi District, Xining City, Qinghai Province, 810008, People's Republic of China ~72: CHEN, Kelong;LUO, Caiyun;WANG, Shiping;ZHAO, Liang;ZHAO, Xinquan;ZUO, Chao~

2022/08908 ~ Complete ~54:WATER-LOCKING MOISTURIZING MASK CLOTH, PREPARATION METHOD AND APPLICATION THEREOF ~71:Anhui Polytechnic University, Beijing Middle Road, Wuhu City, Anhui Province, People's Republic of China ~72: RUAN Fangtao;SHU Cuicui;WANG He;WANG Hongjie;YAO Lan;ZUO Hongmei~ 2022/08915 ~ Complete ~54:TOWER-TYPE WIND POWER GENERATION SYSTEM ~71:Zhang Lei, No. 47, Dasha Dong'ao Shangzhang, Xiaosha sub district, Dinghai District, Zhoushan City, Zhejiang Province, 071051, People's Republic of China ~72: Zhang Lei~

2022/08919 ~ Complete ~54:PROCESS FOR RECLAMATION OF POLYESTER BY REACTOR ADDITION ~71:OCTAL SAOC FZC, SULTANATE OF OMAN, Melrose, Oman ~72: JERRY BRADNAM;KLAUS HAARMANN;MOHAMMED RAZEEM;MUTEEB SIDDIQUI;NICHOLAS P BARAKAT;SEAN BROWN;TARUN JOSHI;WILLIAM J BARENBERG~ 33:US ~31:62/850,168 ~32:20/05/2019;33:US ~31:16/808,939 ~32:04/03/2020

2022/08920 ~ Complete ~54:A BRIDGE STRUCTURE DYNAMICS TESTING DEVICE ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, New District, Pingdingshan City, People's Republic of China ~72: CAI, Jing;CAI, Yujie;CHEN, Yajin;CHEN, Yao;LAN, Qixun;LI, Deying;LI, Hua;LI, Yajie;LIU, Yuxiao;MU, Jingjing;WANG, Chaoyong;WANG, Dongxia;WANG, Zhe;XIE, Fan;XU, Huafeng;ZHANG, Xiaoguo;ZHANG, Yao;ZHOU, Shuke~

2022/08933 ~ Complete ~54:NOVEL GLUTAMINE-HYDROLYZING GMP SYNTHASE VARIANT AND METHOD FOR PRODUCING PURINE NUCLEOTIDE BY USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: BAE, Hyun-jung;HUH, Lan;KIM, Bina;KIM, Dae Young;KIM, Eunji;KWON, Nara;LEE, Ji Hyun;SON, Sung Kwang;YOO, Hyeryun~ 33:KR ~31:10-2021-0125841 ~32:23/09/2021

2022/08940 ~ Complete ~54:SYSTEM AND METHOD FOR AUTOMATED DRILLING ACTIVITY MONITORING ~71:CATERPILLAR GLOBAL MINING LLC, 875 W. Cushing Street, United States of America ~72: CLARE, Ben Lincoln;COLLINS, Darryl V.;DOHERTY, Thomas Frank~ 33:US ~31:16/791,064 ~32:14/02/2020

2022/08947 ~ Complete ~54:HIGHLY ACTIVE COMPOUNDS AGAINST COVID-19 ~71:ATEA PHARMACEUTICALS, INC., Melrose, United States of America ~72: ADEL MOUSSA;JEAN-PIERRE SOMMADOSSI~ 33:US ~31:62/982,670 ~32:27/02/2020;33:US ~31:62/994,206 ~32:24/03/2020;33:US ~31:63/032,247 ~32:29/05/2020;33:US ~31:63/039,352 ~32:15/06/2020;33:US ~31:63/040,985 ~32:18/06/2020;33:US ~31:63/054,680 ~32:21/07/2020;33:US ~31:63/073,328 ~32:01/09/2020;33:US ~31:63/146,456 ~32:05/02/2021

2022/08956 ~ Complete ~54:PROGRAMMING DEVICE ~71:KRAUSS-MAFFEI WEGMANN GMBH & amp; CO. KG, Krauss-Maffei-Str. 11, Germany ~72: HILD, Simon;SCHNEIDER, Lars~ 33:DE ~31:10 2020 108 567.2 ~32:27/03/2020

2022/08909 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF CARBON NANOFIBER ~71:Anhui Polytechnic University, Beijing Middle Road, Wuhu City, Anhui Province, People's Republic of China ~72: BAI Weikang;RUAN Fangtao;SUN Ran;WANG He;WANG Hongjie;XU Rongrong;ZUO Hongmei~

2022/08912 ~ Complete ~54:LITSEA CUBEBA QUICK PEELING AND SORTING DEVICE ~71:JIANGXI AGRICULTURAL UNIVERSITY, 1101 Fangzhimin Dadao, Economic and Technological Development Zone, Nanchang, Jiangxi Province, People's Republic of China ~72: CHEN Shangxing;LIU Juan;LUO Hai;TANG Ming;WANG Dan;WANG Jiawei;WANG Zongde;XU Ying~

2022/08918 ~ Complete ~54:LIBRARY INFORMATION SERVICE EQUIPMENT ~71:Zhejiang University of science and technology, No. 318, Liuhe Road, Xihu District, Hangzhou, Zhejiang Province, People's Republic of China ~72: Guo Yao;Wu Lin;Xu Tao~ 33:CN ~31:202210883862.8 ~32:26/07/2022

2022/08941 ~ Complete ~54:COSMETIC COMPOSITIONS CONTAINING A SUGAR ALCOHOL, A SACCHARIDE COMPOUND AND PECTIN AND METHODS OF USE ~71:L'ORÉAL, 14 RUE ROYALE, France ~72: COMERON-DECARLO, Vanessa;PARIKH, Dhara;SULEIMAN, Aziza Khader~ 33:US ~31:16/805,032 ~32:28/02/2020;33:FR ~31:2003162 ~32:31/03/2020

2022/08942 ~ Complete ~54:METAL (HYDR)OXIDE COMPOSITE COMPRISING POORLY SOLUBLE DRUG, METHOD FOR MANUFACTURING SAME, AND PHARMACEUTICAL COMPOSITION COMPRISING SAME ~71:CNPHARM CO., LTD, B-455, 52, Ewhayeodae-gil, Seodaemun-gu, Republic of Korea;WEBIOTREE CO., LTD, 3F, 4-1 Yeongsin-ro 54-gil, Yeongdeungpo-gu, Republic of Korea ~72: JIN, Geun Woo;KIM, Ho Jun;KIM, Ki Yeok~ 33:US ~31:63/084,423 ~32:28/09/2020;33:US ~31:63/085,605 ~32:30/09/2020;33:US ~31:63/125,122 ~32:14/12/2020;33:US ~31:63/126,717 ~32:17/12/2020;33:US ~31:63/150,235 ~32:17/02/2021;33:US ~31:63/153,206 ~32:24/02/2021;33:US ~31:63/157,181 ~32:05/03/2021;33:KR ~31:PCT/KR2021/005208 ~32:23/04/2021

2022/08949 ~ Complete ~54:AUTOMATIC MULTI-BLOOD-GROUP SYSTEM TEST CARD AND TEST METHOD ~71:CHONGQING UNIVERSITY, 174 Shazheng Street, Shapingba District, Chongqing, 400044, People's Republic of China ~72: LUO, Yang;ZHANG, Hong~ 33:CN ~31:202010143305.3 ~32:04/03/2020

2022/08957 ~ Complete ~54:P2X3 MODULATORS ~71:BELLUS HEALTH COUGH INC., 275 Armand-Frappier Boulevard, Laval, Canada ~72: CHAURET, Nathalie;GREEN, Jeremy;VILLENEUVE, Karine~ 33:US ~31:62/977,008 ~32:14/02/2020

2022/08916 ~ Complete ~54:MUNICIPAL SEWAGE TREATMENT DEVICE ~71:Qianshi JIAYE environmental protection (Suzhou) Co., Ltd, Room 1218, building 4, No. 99, Xingang Road, Chengnan street, economic development zone, Wuzhong District, Suzhou, Jiangsu province, 071051, People's Republic of China ~72: Fu Hong Lei~ 33:CN ~31:202210761699.8 ~32:30/06/2022

2022/08923 ~ Complete ~54:EVALUATION METHOD OF MALNUTRITION IN NASOPHARYNGEAL CARCINOMA PATIENTS ~71:College of nursing, Guangxi Medical University, No. 8, Shuangyong Road, Nanning, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: BAO Jingru;FENG Yan;HUANG Jie;HUANG Xueling;LI Binggeng;LIAO Jinlian;LIU Jieying;LU Lan;SU Tong;WANG Liuyan;WANG Pengpeng;WEI Minyi;WU Hualin;WU Liucong;YUE Yuanyuan;ZENG Pingping;ZENG Xiaofen;ZHANG Yulin~

2022/08925 ~ Complete ~54:TARGET ANTIBACTERIAL PEPTIDE FOR RESISTING YERSINIA PSEUDOTUBERCULOSIS AND YERSINIA ENTEROCOLITICA AND PREPARATION METHOD AND APPLICATION THEREOF ~71:HEILONGJIANG AGRICULTURAL ECONOMY VOCATIONAL COLLEGE, National Highway 201, Xi'an District, Mudanjiang City, Heilongjiang Province, People's Republic of China ~72: FAN Xuewei;JIANG Xin;LI Shudong;LI Xiaojuan;ZHANG Chunfeng;ZHAO Zhi~

2022/08927 ~ Complete ~54:AN INSTRUMENT PANEL FOR A VEHICLE ~71:Mahindra and Mahindra Limited, Mahindra Research Valley, Mahindra World City, Plot No:41/1, India ~72: GAHANAAY; Ganeaysh;KAKADE; Ritesh;SHAIK; Amith;SHARMA; Anil Kumar;SHINDE; Niraj~ 33:IN ~31:202141036081 ~32:10/08/2021

2022/08951 ~ Complete ~54:SARS-COV-2 VACCINE ~71:Board of Regents, the University of Texas System, 210 West 7th St., AUSTIN 78701, TX, USA, United States of America;The United States of America, as represented by the Secretary, Department of Health and Human Services, National Institutes of Health, Office of Technology Transfer, 6011 Executive Boulevard, Suite 325, MSC 7660, BETHESDA 20892-7660, MD, USA, United States of America;Trustees of Dartmouth College, 11 Rope Ferry Road, #6210, HANOVER 03755-1404, NH, USA, United States of America ~72: ABIONA, Olubukola;CORBETT, Kizzmekia;GRAHAM, Barney;HUTCHINSON, Geoffrey;MCLELLAN, Jason;WANG, Nianshuang;WRAPP, Daniel~ 33:US ~31:62/972,886 ~32:11/02/2020

2022/08955 ~ Complete ~54:TETRALIN AND TETRAHYDROQUINOLINE COMPOUNDS AS INHIBITORS OF HIF-2ALPHA ~71:ARCUS BIOSCIENCES, INC., 3928 Point Eden Way, Hayward, United States of America ~72: BEATTY, JOEL WORLEY;DREW, SAMUEL LAWRIE;EPPLIN, MATTHEW;FOURNIER, JEREMY THOMAS ANDRE;GAL, BALINT;GUNEY, TEZCAN;HAELSIG, KARL T.;HARDMAN, CLAYTON;JACOB, STEVEN DONALD;JEFFREY, JENNA LEIGH;KALISIAK, JAROSLAW;LAWSON, KENNETH VICTOR;LELETI, MANMOHAN REDDY;LINDSEY, ERICK ALLEN;MAILYAN, ARTUR KARENOVICH;MANDAL, DEBASHIS;MATA, GUILLAUME;MOON, HYUNYOUNG;POWERS, JAY PATRICK;ROSEN, BRANDON REID;SU, YONGLI;TRAN, ANH THU;WANG, ZHANG;YAN, XUELEI;YU, KAI~ 33:US ~31:62/991,952 ~32:19/03/2020;33:US ~31:63/120,875 ~32:03/12/2020

2022/08929 ~ Complete ~54:A SYSTEM FOR ROAD TRAFFIC PREDICTION AND OPTIMAL ALTERNATE PATH SELECTION AND A METHOD THEREOF ~71:Abhimanyu Kumar, Assistant Professor, Department of Computer Science and Engineering, National Institute of Technology, India; Alok Kumar Pani, Assistant Professor, Department of Computer Science and Engineering, CHRIST(Deemed to be University), Bangalore, India;Ashok Kumar Bhoi, Assistant Professor, Department of Computer Science & Amp; Engineering, Government College of Engineering, Bhawanipatna, Kalahandi, India; Manohar Manur, Associate Professor, Department of Computer Science and Engineering, CHRIST(Deemed to be University), Bangalore, India; Mohammad Aknan, Assistant Professor, Department of Computer Science and Engineering, Gaya College of Engineering, Gaya, Sri Krishna Nagar, Khizarsarai Rd, Gaya, India; Neeraj Kumar, Assistant Professor, Department of Computer Science and Engineering, Sitamarhi Institute of Technology, Sitamarhi, India: Pankaj Kumar, Assistant Professor, Department of Computer Science and Engineering, Motihari College of Engineering, Motihari, India; Pratik Ranjan, Assistant Professor, Department of Computer Science and Engineering, Motihari College of Engineering, Motihari, India; Sourav Roy, Assistant Professor, Department of Electronics and Communication Engineering, CHRIST(Deemed to be University), Bangalore, India;Suvendu Chandan Nayak, Associate Professor, Department of Computer Science & amp; Information Technology, GITA Autonomous College, Bhubaneswar, India ~72: Abhimanyu Kumar; Alok Kumar Pani; Ashok Kumar Bhoi; Manohar Manur; Mohammad Aknan; Neeraj Kumar; Pankaj Kumar; Pratik Ranjan; Sourav Roy; Suvendu Chandan Nayak~

2022/08939 ~ Complete ~54:REDUNDANT STEERING SYSTEM AND MACHINES AND METHODS THEREOF ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: MATE, Edward William~ 33:US ~31:16/788,998 ~32:12/02/2020

2022/08945 ~ Complete ~54:A MULTI-LAYER SLEEPING COMPARTMENT ~71:AIR NEW ZEALAND LIMITED, Melrose, New Zealand ~72: KATE ELIZABETH CAMERON-DONALD;ZOE MARIE-JOSEE JULIA WENN~ 33:NZ ~31:761879 ~32:20/02/2020

- APPLIED ON 2022/08/11 -

2022/08987 ~ Complete ~54:DEVICE FOR MELTING METALS ~71:TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG, Akademiestrasse 6, Germany ~72: Andreas KESSLER;Gotthard WOLF~ 33:DE ~31:10 2020 202 484.7 ~32:26/02/2020

2022/08988 ~ Complete ~54:BIPOLAR PLATE FOR FUEL CELL STACKS ~71:OBSHCHESTVO S OGRANICHENNOJ OTVETSTVENNOSTYU "INENERGY" (OOO "INENERGY"), ul.Elektrodnaya d.12, str. 1, et.2, pom.5, Moscow, 111524, Russian Federation ~72: LEVCHENKO, Egor Aleksandrovich;MELNIKOV, Alexey Petrovich;RYCHKOV, Andrei Aleksandrovich;SIVAK, Aleksandr Vladimirovich~ 33:RU ~31:2019145110 ~32:30/12/2019

2022/08992 ~ Complete ~54:FGFR TYROSINE KINASE INHIBITORS FOR THE TREATMENT OF HIGH-RISK NON-MUSCLE INVASIVE BLADDER CANCER ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-

2340, BELGIUM, Belgium ~72: BAIG, Mahadi Ali;MONGA, Manish~ 33:US ~31:62/975,547 ~32:12/02/2020;33:US ~31:63/018,914 ~32:01/05/2020;33:US ~31:63/118,475 ~32:25/11/2020

2022/08997 ~ Complete ~54:CD122 WITH ALTERED ICD STAT SIGNALING ~71:SYNTHEKINE, INC., Melrose, United States of America ~72: PATRICK J LUPARDUS;PAUL-JOSEPH PENAFLOR ASPURIA~ 33:US ~31:62/961,157 ~32:14/01/2020

2022/09000 ~ Complete ~54:OVERHEAD AUTOMATIC HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) APPARATUS ~71:LAWRENCE RUTHERFORD, Melrose, United States of America ~72: LAWRENCE RUTHERFORD~ 33:US ~31:16/743,642 ~32:15/01/2020

2022/09002 ~ Complete ~54:LIQUID FORMULATION OF GM-CSF FOR INHALATION ~71:DRUGRECURE APS, Melrose, Denmark ~72: ALAN WATTS;LARS SKRIVER~ 33:US ~31:62/990,810 ~32:17/03/2020;33:EP ~31:20164648.6 ~32:20/03/2020

2022/09007 ~ Complete ~54:BACTERIAL QUANTIFICATION METHOD ~71:MICROBIO PTY LTD, 8 Bellfield Place, Australia ~72: HUYGENS, Flavia~ 33:AU ~31:2020900167 ~32:22/01/2020

2022/08966 ~ Complete ~54:SUSPENDED FORCE MEASURING DEVICE FOR AGRICULTURAL IMPLEMENT AND METHOD THEREOF ~71:HEILONGJIANG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES, No. 156 Haping Road, Nangang District, Harbin City, Heilongjiang Province, People's Republic of China ~72: Aiguo PENG;Baihui SUN;Jingwen WU;Ruxin YANG;Shengchun WANG;Shiming SUN;Xiaobo YU;Xiaoyan JIN;Xupeng JIANG;Zengxin TAN~

2022/09001 ~ Complete ~54:VIRAL VECTORS EXPRESSING THERAPEUTIC PROTEINS SPECIFICALLY IN MYELOID CELLS AND MICROGLIA ~71:UNIVERSITÄT ZÜRICH, Melrose, Switzerland ~72: JANINE REICHENBACH;MARTINA NUBIE;ULRICH SILER~ 33:EP ~31:20176939.5 ~32:27/05/2020

2022/09008 ~ Complete ~54:PROCESSING OF LIGNOCELLULOSIC BIOMASS ~71:NOVA PANGAEA TECHNOLOGIES (UK) LIMITED, Leaholme Building, Wilton International, United Kingdom ~72: BARR, Kristopher Thomas;HOLM, Martin Spangsberg;LEWIS, Gene~ 33:GB ~31:2002587.0 ~32:24/02/2020

2022/08968 ~ Complete ~54:OPEN-PIT COAL MINING METHOD AND SYSTEM BASED ON FOUR-ELEMENT GLOBAL OPTIMIZATION ~71:Northeastern University, No. 11, Lane 3, Wenhua Road, Heping District, Shenyang City, Liaoning Province, 110057, People's Republic of China ~72: GU, Xiaowei;WANG, Hao;WANG, Qing;XU, Xiaochuan~ 33:CN ~31:202210491534.3 ~32:07/05/2022

2022/08977 ~ Complete ~54:SOLVING THE PROBLEM OF WATER LOGGING, MODERN METHOD OF IRRIGATION IN AGRICULTURE WITH THE HELP OF DRONES ~71:Dr.K.Gurnadha Gupta, Associate Professor, St.Martin's Engineering College, Survey No. 563, Near Forest Academy, Dulapally, Secunderabad, India;Dr.Mamta Sharma, Assistant Professor, HOD, Department of Computer Science and Engineering, Arni University, Kangra, India;Dr.Ramesh Kumar Yadav, Assistant Professor, FST Department, THE ICFAI University, Raipur, India;Dr.Rashmi Ashtagi, Assistant Professor, Department of Computer Engineering, Zeal College of Engineering and Research, Pune, India;Dr.S.Sathappan, Associate Professor, St.Martin's Engineering College, Survey No. 563, Near Forest Academy, Dulapally, Secunderabad, India;Dr.Sushma Jaiswal, Assistant Professor, Department of Computer Science & amp; Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur, India;Mr.H.M.Naveen, Assistant Professor, RYM Engineering College, Ballari, India;Mr.Rishi Kumar Prajapati, Assistant Professor, Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar, India;Mr.Rohit Kumar, Assistant Professor, Department of Computer Science and Engineering, Arni University, Kangra, India;Mr.Tarun Jaiswal, Research Scholar, Department of Computer Application, National Institute of Technology (NITRR), Raipur, India ~72: Dr.K.Gurnadha Gupta;Dr.Mamta Sharma;Dr.Ramesh Kumar Yadav;Dr.Rashmi Ashtagi;Dr.S.Sathappan;Dr.Sushma Jaiswal;Mr.H.M.Naveen;Mr.Rishi Kumar Prajapati;Mr.Rohit Kumar;Mr.Tarun Jaiswal~

2022/08979 ~ Complete ~54:QUANTITATIVE CALCULATION METHOD AND SYSTEM FOR ECOLOGICAL IMPACT GENERATED BY OPEN-PIT COAL MINING ~71:Northeastern University, No. 11, Lane 3, Wenhua Road, Heping District, Shenyang City, Liaoning Province, 110057, People's Republic of China ~72: GU, Xiaowei;WANG, Hao;WANG, Qing;XU, Xiaochuan~ 33:CN ~31:202210474610.X ~32:29/04/2022

2022/08982 ~ Complete ~54:ORAL FAST-DISPERSING DOSAGE FORM OF RIMEGEPANT ~71:BIOHAVEN PHARMACEUTICAL HOLDING COMPANY LTD., 215 Church Street, New Haven, CT, United States of America ~72: CONWAY, Charles, M.;CORIC, Vladimir;CROOP, Robert;FROST, Marianne~ 33:US ~31:62/982,456 ~32:27/02/2020

2022/08964 ~ Complete ~54:ULTRA-LIGHT WEIGHT AND HIGH NOISE ABSORBENT FOAM MATERIAL HVAC DUCT FOR VEHICLE ~71:MAHINDRA & amp; MAHINDRA LTD., Mahindra Research Valley, Mahindra World City, India ~72: JOSEPH, Sareesh;KAKANI, Phani;NIMMAGADDA, Ramakrishna;PATTANASHETTI, Harsha;SRIPERUMBUDUR, Srivatsa;SUDHIR, Srikanth~ 33:IN ~31:202141036253 ~32:11/08/2021

2022/08965 ~ Complete ~54:PRIMERS, PROBE, KIT AND METHOD FOR QPCR DETECTION OF PHENACOCCUS MADEIRENSIS ~71:GONGBEI CUSTOMS TECHNOLOGY CENTER, NO. 501, YINHUA ROAD, People's Republic of China;HANGZHOU XIAOSHAN AIRPORT CUSTOMS, CUSTOMS BUILDING, XIANGYUE ROAD, People's Republic of China;JINHUA PLANT PROTECTION STATION, NO. 828 SHUANGLONG SOUTH STREET, People's Republic of China;ZHEJIANG ACADEMY OF SCIENCE & amp; TECHNOLOGY FOR INSPECTION & amp; QUARANTINE, NO. 398 JIANSHESAN ROAD, People's Republic of China;ZHENGZHOU CUSTOMS TECHNOLOGY CENTER, NO. 9-1, JINSHUI EAST ROAD, People's Republic of China ~72: CHEN, Pengcheng;CHENG, Fan;DANG, Zhihao;FAN, Ling;FANG, Wenyuan;HUANG, Fang;LI, Yuehong;REN, Yan;TANG, Huiji;TIAN, Hongwei;WU, Zhiyi;XU, Miaofeng~

2022/08970 ~ Complete ~54:AN ELECTRONIC LABEL CHIP PACKAGING PROCESS ~71:Shenzhen Shiguang Semiconductor Co., Ltd, 3rd floor, Jinxing building, Heping Industrial Park, Heping Road, Yucui community, Longhua street, Longhua District, Shenzhen, Guangdong, 518000, People's Republic of China ~72: Quan Xiangshou;Zhou Chunwu;Zhou Shanshan;Zou Sujie~ 33:CN ~31:202210067828.3 ~32:20/01/2022

2022/08974 ~ Complete ~54:VIBRATION PICKING CASTOR HARVESTER ~71:Inner Mongolia Minzu University, NO.536,West Huolinhe Street, Horqin District, Tongliao City, Inner Mongolia Autonomous Region, People's Republic of China;Inner Mongolia Tongruida Biotechnology Co., Ltd., Baolongshan Town Industrial Park Management Committee of Horqin Left Wing Middle Banner, Tongliao City, Inner Mongolia Autonomous Region, People's Republic of China;Qingdao University of Technology, NO.11,Fushun Road, Shibei District, Qingdao City, Shandong Province, People's Republic of China ~72: Bayierta;HUANG Fenglan;LI Changhe;QIU Hongxiang;YU Xiaoze;Yongsheng;ZHANG Dandan;ZHAO Genxiong;ZHAO Huayang~

2022/08976 ~ Complete ~54:A NOVEL METHOD OF GENERATING TOURISM LITERARY ~71:Amit Ranjan Gupta, C-62 Rustomjee Central Park, Andheri Kurla Road, Andheri, India;Dr. Avtar Singh, Principal, GTB National College, Dakha, Ludhiana, India;Dr. Dharmendra Ramgopalji Mundhada, Principal and Professor, Agnihotri College of Pharmacy. Agnihotri College Campus, Ramnagar, Wardha, India;Dr. Gyanesh Jain, Senior Data Scientist, Playpowerlabs Ltd., Dhirubhai Ambani Institute of Information and Communication, Nr. Indroda Circle, Gandhinagar, India;Dr. Renu Pareek, Dean, Jaipur School of Business, JECRC University, Jaipur, India;Dr. Sushil Kalyani, Associate Professor and Area Director, Management Area, NIIT University, Japanese Zone, Jaipur Delhi Highway, Neemrana, India;Kumari Pragya Prayesi, Assistant Professor, Chandigarh University, NH-05,

Chandigarh-Ludhiana Highway, Mohali, India;Nihar Ranjan Pradhan, Assistant Professor, School of Computer Science and Engineering, (SCOPE), VIT AP University, Vijayawada, India;Prof. B. Ramesh, Head, Synergy Business School, Former Professor, Goa Business School & Mamp; Dean, Goa University, Muraharpalli, Shameerpet, Medchal, Hyderabad, India;Shaina Arora, Assistant Professor, Chandigarh University, NH-05, Chandigarh-Ludhiana Highway, Mohali, India;Shilpi Gupta, Assistant Professor, Chandigarh University, NH-05, Chandigarh-Ludhiana Highway, Mohali, India;Sunil Dutt Trivedi, Research Scholar, IIM Rohtak, Rohtak, India ~72: Amit Ranjan Gupta;Dr. Avtar Singh;Dr. Dharmendra Ramgopalji Mundhada;Dr. Gyanesh Jain;Dr. Renu Pareek;Dr. Sushil Kalyani;Kumari Pragya Prayesi;Nihar Ranjan Pradhan;Prof. B. Ramesh;Shaina Arora;Shilpi Gupta;Sunil Dutt Trivedi~

2022/08981 ~ Complete ~54:COMPACT COFFEE PRESS ~71:CENTRAL UNIVERSITY OF TECHNOLOGY, FREE STATE, 20 President Brand Street, South Africa ~72: HUGO, George;KINNEAR, William Allan;VAN HEERDEN, Altus~ 33:ZA ~31:2021/05534 ~32:06/08/2021

2022/08996 ~ Complete ~54:COMPOSITIONS COMPRISING HYDROLYSED PROTEINS ~71:Croda International Plc, Cowick Hall, Snaith, GOOLE DN149AA, EAST YORKSHIRE, UNITED KINGDOM, United Kingdom;Croda, Inc., 777 Scudders Mill Road, Bldg. 2, Suite 200, PLAINSBORO 08536, NJ, USA, United States of America ~72: JAMES, Neil;PARK, Kimun~ 33:US ~31:62/982,862 ~32:28/02/2020

2022/09009 ~ Complete ~54:LIQUID FORMULATIONS OF GLUCAGON ANALOGUES ~71:ZEALAND PHARMA A/S, Sydmarken 11, Denmark ~72: GOTTSCHALK BØVING, Tine Elisabeth;VILLADSEN, Jesper Skodborg~ 33:EP ~31:20163408.6 ~32:16/03/2020

2022/09081 ~ Complete ~54:REACTOR AND METHOD FOR CARRYING OUT A CHEMICAL REACTION ~71:BASF SE, Carl-Bosch-Str. 38, Germany;LINDE GMBH, Dr.-Carl-von-Linde-Strasse 6-14, Germany ~72: DELHOMME-NEUDECKER, Clara;HOFSTÄTTER, Martin;LANG, Christian;POSSELT, Heinz;ZELLHUBER, Mathieu~ 33:EP ~31:20156463.0 ~32:10/02/2020

2022/08971 ~ Complete ~54:AN AUTOMATIC THREE-DIMENSIONAL WAREHOUSE WITH TOP DESTACKING FUNCTION ~71:Shenzhen Fengde Trading Co., Ltd, 1605, Tiansheng Pavilion, block B, Xinhua City, Meilong Road, Xinniu community, Minzhi sub district, Longhua District, Shenzhen, Guangdong, 518000, People's Republic of China ~72: Li Kaijiang~ 33:CN ~31:202210551819.1 ~32:18/05/2022

2022/08975 ~ Complete ~54:A FUNCTIONAL AGED DUCK BRAISED WITH FEATURED FLAVOR AND ITS PREPARATION METHOD ~71:NINGBO UNIVERSITY, No. 818, Fenghua Road, Jiangbei District, Ningbo City, Zhejiang Province, 315211, People's Republic of China ~72: Pan Daodong;Sun Yangying~

2022/08984 ~ Complete ~54:MODIFIED BINDING POLYPEPTIDES FOR OPTIMIZED DRUG CONJUGATION ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, MA, United States of America ~72: BRUN, Marie-Priscille;DUFFIEUX, Francis;PARK, Sunghae;QIU, Huawei;ZHOU, Qun~ 33:US ~31:62/982,943 ~32:28/02/2020

2022/08991 ~ Complete ~54:FGFR TYROSINE KINASE INHIBITORS AND ANTI-PD1 AGENTS FOR THE TREATMENT OF UROTHELIAL CARCINOMA ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: MONGA, Manish~ 33:US ~31:62/975,526 ~32:12/02/2020;33:US ~31:63/025,817 ~32:15/05/2020;33:US ~31:63/055,187 ~32:22/07/2020;33:US ~31:63/078,205 ~32:14/09/2020;33:US ~31:63/078,736 ~32:15/09/2020;33:US ~31:63/083,316 ~32:25/09/2020

2022/08995 ~ Complete ~54:ANTI-AXL ANTIBODIES AND COMPOSITIONS ~71:Symphogen A/S, Pederstrupvej 93, BALLERUP DK-2750, DENMARK, Denmark ~72: GJETTING, Torben;HANSEN, Randi Westh;JAKOBSEN,

Janus Schou;LINDSTED, Trine;MELANDER, Eva Maria Carlsen;WILLER, Anton;WORSAAE, Anne~ 33:US ~31:62/982,852 ~32:28/02/2020

2022/09004 ~ Complete ~54:A BOOM ARRANGEMENT FOR AN AGRICULTURAL SPRAYER, AGRICULTURAL SPRAYER, AND METHOD FOR OPERATING AN AGRICULTURAL SPRAYER ~71:KVERNELAND GROUP NIEUW-VENNEP B.V., Melrose, Netherlands ~72: RENÉ VAN DER KROGT;THEODORUS LUDOVICUS SIMON KONIJN~ 33:EP ~31:20169005.4 ~32:09/04/2020

2022/08967 ~ Complete ~54:DEVICE FOR MEASURING OPERATION RESISTANCE AND OPERATION AREA OF HINGED TRACTION AGRICULTURAL IMPLEMENT AND METHOD THEREOF ~71:HEILONGJIANG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES, No. 156 Haping Road, Nangang District, Harbin City, Heilongjiang Province, People's Republic of China ~72: Aiguo PENG;Baihui SUN;Jingwen WU;Ruxin YANG;Shengchun WANG;Shiming SUN;Xiaobo YU;Xiaoyan JIN;Xupeng JIANG;Zengxin TAN~

2022/08963 ~ Provisional ~54:PHENOTYPE BIOSENSOR FOR BREAST CANCER DRUG - TAMOXIFEN (B-PHENOSENS) ~71:Emmanuel Iheanyichukwu Iwuoha, SensorLab (University of the Western Cape Sensor Laboratories), South Africa;Usisipho Feleni, SensorLab (University of the Western Cape Sensor Laboratories), South Africa ~72: Prof Emmanuel I. Iwuoha;Prof Usisipho Feleni~

2022/08986 ~ Complete ~54:A BEVERAGE FILTER ~71:DE WET, Pieter Oloff, 62A Utrecht Street, South Africa ~72: DE WET, Pieter Oloff~ 33:ZA ~31:2020/00253 ~32:15/01/2020

2022/08989 ~ Complete ~54:WHEEL HUB MADE OF HIGH-ENTROPY ALLOY STRENGTHENED ALUMINUM-BASED GRADIENT MATERIAL AND METHOD FOR MANUFACTURING SAME ~71:JIANGSU POMLEAD CO., LTD, 1 Pomlead Road, Economic development, Pei County, Xuzhou City, Jiangsu Province, 221000, People's Republic of China ~72: DONG, Qi;HUANG, Ningning;MAO, Wen;PENG, Guiyun;PENG, Yazhen;WAN, Jinhua;WANG, Fei;XIA, Chengqiang;ZHANG, Tong;ZHOU, Jinfeng~ 33:CN ~31:202011349171.7 ~32:26/11/2020

2022/08993 ~ Complete ~54:METHODS FOR TREATING TOBACCO MATERIAL, APPARATUS FOR TREATING TOBACCO MATERIAL, TREATED TOBACCO MATERIAL AND USES THEREOF ~71:British American Tobacco (Investments) Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: FRANKE, Dietmar;KNOTHE, Josef;LINK, Matthias;PLUECKHAHN, Frank~ 33:GB ~31:2002790.0 ~32:27/02/2020

2022/08998 ~ Complete ~54:IL2 MUTEINS ~71:SYNTHEKINE, INC., Melrose, United States of America ~72: JAN EMMERICH;SCOTT ALLAN MCCAULEY;STEVE KAUDER~ 33:US ~31:62/960,847 ~32:14/01/2020

2022/09005 ~ Complete ~54:METHOD AND MEASUREMENT SYSTEM FOR DETERMINING CHARACTERISTICS OF PARTICLES OF A BULK MATERIAL ~71:KVERNELAND GROUP NIEUW-VENNEP B.V., Melrose, Netherlands ~72: BART DE BOER~ 33:EP ~31:20167901.6 ~32:03/04/2020

2022/08978 ~ Complete ~54:DYNAMIC YIELDING FRICTION STABILISER BOLT ~71:RSC MINING (PTY) LTD, 2 Tedstone Road, Wadeville, South Africa ~72: STEYN, Johann;SWEMMER, Theodore Daniel~ 33:ZA ~31:2022/00298 ~32:06/01/2022

2022/08980 ~ Complete ~54:CRANE MONITORING ~71:VAN NIEKERK, De Wet, 25 Rosherville Street, Frane Villas No. 5, Vaalpark, South Africa ~72: VAN NIEKERK, De Wet~ 33:ZA ~31:2021/03165 ~32:11/05/2021

2022/08985 ~ Complete ~54:LAYERED NONWOVEN TEXTILE ~71:PFNONWOVENS HOLDING S.R.O., Hradcanske namesti 67/8, Czech Republic ~72: Michael KAUSCHKE;Pavlina KASPARKOVA;Zdenek MECL~ 33:CZ ~31:PV 2020-105 ~32:29/02/2020

2022/08990 ~ Complete ~54:PROTECTIVE DEVICE AND SLOPE STABILIZATION ~71:NAUE GMBH & amp; CO. KG, Gewerbestrasse 2, Germany ~72: Dr. Martina PRAMBAUER;Manuel EICHER~ 33:DE ~31:10 2020 103 812.7 ~32:13/02/2020

2022/08994 ~ Complete ~54:MULTI-DIMENSIONAL LIGAND-ASSISTED CHROMATOGRAPHY METHOD FOR THE PURIFICATION OF COMPLEX REE AND OTHER METAL IONS FORM MIXTURES/MINERALS ~71:DING, Yi, 2433 Neil Armstrong Drive #20, WEST LAFAYETTE 47906, IN, USA, United States of America;HARVEY, David, 3308 Peppermill Drive, WEST LAFAYETTE 47906, IN, USA, United States of America;Purdue Research Foundation, Office Of Technology Commercialization, 101 Foundry Drive, Suite 2500, WEST LAFAYETTE 47906, IN, USA, United States of America;WANG, Nien-hwa, Linda, 20 Brynteg Estates, WEST LAFAYETTE 47907, IN, USA, United States of America ~72: DING, Yi;HARVEY, David;WANG, Nien-hwa, Linda~ 33:US ~31:62/982,811 ~32:28/02/2020

2022/08999 ~ Complete ~54:BIASED IL2 MUTEINS METHODS AND COMPOSITIONS ~71:SYNTHEKINE, INC., Melrose, United States of America ~72: JAN EMMERICH;MARTIN OFT;SCOTT ALAN MCCAULEY;STEVE KAUDER~ 33:US ~31:62/961,141 ~32:14/01/2020;33:US ~31:63/136,599 ~32:12/01/2021

2022/09003 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTORS WITH CD2 ACTIVATION ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Melrose, United States of America ~72: AIDAN TOUSLEY;CHRISTOPHER MOUNT;CRYSTAL L MACKALL;LOUAI LABANIEH;MICHELLE MONJE-DEISSEROTH;ROBBIE G MAJZNER~ 33:US ~31:62/976,997 ~32:14/02/2020;33:US ~31:63/109,831 ~32:04/11/2020

2022/08969 ~ Complete ~54:AN LED LAMP BEAD WITH ADJUSTABLE FOCAL LENGTH ~71:Shenzhen Xiangguan optoelectronics Co., Ltd, 2 / F, 6 / F and 7 / F, hardware building, Xinghong science and Technology Park, shuiku Road, fenghuanggang community, Xixiang street, Bao'an District, Shenzhen, Guangdong, 518000, People's Republic of China ~72: Chen Jianping;Chen Xiaofang;Gong Zhi;Zhang Zhihua;Zhang Zhongyou~ 33:CN ~31:202111054323.5 ~32:09/09/2021

2022/08972 ~ Complete ~54:EFFICIENT PREPARATION METHOD OF POLYSACCHARIDE FROM SPARASSIS CRISPA ~71:Zhejiang Academy of Agricultural Sciences, Shiqiao Road 198#, Hangzhou, Zhejiang Province, People's Republic of China ~72: Aizhen HE;Guoying LV;Jianfei CHEN;Jinrong CHEN;Mei WANG;Yuntao LI;Zuofa ZHANG~

2022/08973 ~ Complete ~54:DISINFECTING ROOM FOR EPIDEMIC PREVENTION AND CONTROL ~71:The Affiliated Hospital of Youjiang Medical University for Nationalities, No.18 Zhongshan 2nd Road, Youjiang District, Baise City, Guangxi Zhuang Autonomous Region, 533000, People's Republic of China ~72: LIN Qiqing;PENG Hao;XU Shuzhen~

2022/08983 ~ Complete ~54:DEVICE AND METHOD FOR SEPARATING TISSUE FROM AN INTESTINE ~71:VAN HESSEN HOLDING B.V., 115, Hoogeveenenweg, 2913 LV NIEUWERKERK, Netherlands ~72: DE WINTER, Frederik Marcel, D.;DE WINTER, Thomas Jozef, S.;SMITS, Jürgen, Johannes, Antonius, Thomas~ 33:NL ~31:2024837 ~32:05/02/2020

2022/09006 ~ Complete ~54:PREDICTIVE MODELING OF WEAR AND HEALTH OF A DRIVEN GEAR IN AN OPEN GEAR SET ~71:JASON SHUMKA, Melrose, Canada;THOMAS SHUMKA, Melrose, Canada ~72: JASON SHUMKA;THOMAS SHUMKA~ 33:CA ~31:3068179 ~32:13/01/2020

2022/09080 ~ Complete ~54:PANEL JOINING ARRANGEMENT FOR A VEHICLE CANOPY ~71:ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD, 46 Eden Park Drive, Mkondeni, South Africa ~72: VOSS, Michael~ 33:ZA ~31:2019/07353 ~32:06/11/2019

- APPLIED ON 2022/08/12 -

2022/09066 ~ Complete ~54:ANTIBODIES THAT BIND INTEGRIN AVB8 AND USES THEREOF ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, Office of Technology Transfer 1111 Franklin Street, 12th Floor, Oakland, California, 94607-5200, United States of America ~72: ANTHONY CORMIER;JAMES D MARKS;JIANLONG LOU;JODY L BARON;MELODY G CAMPBELL;SABURO ITO;STEPHEN L NISHIMURA;YIFAN CHENG~ 33:US ~31:62/961,625 ~32:15/01/2020;33:US ~31:63/017,868 ~32:30/04/2020

2022/09073 ~ Complete ~54:CATIONIC LIPIDS FOR LIPID NANOPARTICLE DELIVERY OF THERAPEUTICS TO HEPATIC STELLATE CELLS ~71:GENEVANT SCIENCES GMBH, Viadukstrasse 8, 4051, Basel, Switzerland ~72: JAMES HEYES;KIEU MONG LAM;RICHARD J HOLLAND;WENXUAN ZHANG~ 33:US ~31:62/975,116 ~32:11/02/2020

2022/09013 ~ Provisional ~54:ELECTROCHEMICAL INTERFERON-GAMMA APTASENSOR TEST FOR TB (TB-IFG APTASENSOR TEST) ~71:Emmanuel I. Iwuoha, SensorLab (University of the Western Cape Sensor Laboratories), South Africa;Onyinyechi V. Uhuo, SensorLab (University of the Western Cape Sensor Laboratories), South Africa;Samantha F. Douman, SensorLab (University of the Western Cape Sensor Laboratories), South Africa ~72: Dr Samantha F. Douman;Ms Onyinyechi V. Uhuo;Prof Emmanuel I. Iwuoha~

2022/09020 ~ Complete ~54:STRESS DETECTION SYSTEM CAPABLE OF ADJUSTING EXTERNAL TEMPERATURE ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: HE, Luyao;LIAN, Zheng;LIU, Bin;MA, Xue;MA, Zeyu;WU, Zihan;YANG, Lijian;YU, Hui;ZHANG, He~

2022/09023 ~ Complete ~54:CLOSED THORACIC DRAINAGE TUBE ~71:The Affiliated Hospital of Southwest Medical University, No.25,Taiping Road,Jiangyang, Luzhou, Sichuan, People's Republic of China ~72: DENG Mingbin;FU Yong;GAN Yang;LIAO Bin;LIAO Ruili;LIU Feng;LIU Hui;NIE Yongmei;WAN Juyi;YU Fengxu;ZHANG Pei~

2022/09027 ~ Complete ~54:A PREPARATION METHOD OF GOLDEN POMFRET NOODLES WITH DEEP SEA SALT ~71:Hainan Tropical Ocean University, Yucai Rd 1#, Jiyang District, Sanya, Hainan, People's Republic of China;Sanya Yazhou Bay South China Sea Deep Water Research Institute Co., Ltd, No. 201-02, Second Floor, Building 2, Yazhou Bay Science and Technology City Industrial Park, Yazhou District, Sanya City, Hainan Province, People's Republic of China ~72: Hu Yaqin;Hu Zhiheng;Lu Zijing;Xu Yuanzhe;Yang Xin~

2022/09032 ~ Complete ~54:MINE WATER INRUSH DISASTER MONITORING AND EARLY WARNING SYSTEM AND CONTROL METHOD THEREOF ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY-BEIJING, Ding No.11 Xueyuan Road, Haidian District, Beijing, People's Republic of China;INSTITUTE OF DISASTER PREVENTION, No. 465,Xueyuan street, Yanjiao high tech Zone, Sanhe City, Hebei Province, People's Republic of China;NORTH CHINA INSTITUTE OF SCIENCE & amp; TECHNOLOGY, No. 467, Xueyuan street, Sanhe Yanjiao Development Zone, Langfang, Hebei Province, People's Republic of China ~72: LIAN Huiqing;LIU Demin;XIA Xiangxue;XU Bin;YIN Huichao;YIN Shangxian;ZHANG Gaizhuo~

2022/09072 ~ Complete ~54:SARS-COV-2 MRNA DOMAIN VACCINES ~71:MODERNATX, INC., 200 Technology Square, Cambridge, Massachusetts, 02139, United States of America ~72: ANDREA CARFI;GUILLAUME STEWART-JONES;MIHIR METKAR;SAYDA MAHGOUB ELBASHIR~ 33:US

~31:62/971,825 ~32:07/02/2020;33:US ~31:63/016,175 ~32:27/04/2020;33:US ~31:63/044,330 ~32:25/06/2020;33:US ~31:63/063,137 ~32:07/08/2020

2022/09065 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING 2-[(4S)-8-FLUORO-2-[4-(3-METHOXYPHENYL)PIPERAZIN-1-YL]-3-[2-METHOXY-5-(TRIFLUOROMETHYL)PHENYL]-4H-QUINAZOLIN-4-YL]ACETATE AND SODIUM IONS ~71:AIC246 AG & Co. KG, Friedrich-Ebert-Str. 475, WUPPERTAL 42117, GERMANY, Germany ~72: BUSCHMANN, Helmut;CERON BERTRAN, Jordi Carles;GOLDNER, Thomas;HAWE, Andrea;HOHMANN, Dorothea;LUCKE, Matthias;REDMER, Jessica;ROSA, Monica~ 33:EP ~31:20159711.9 ~32:27/02/2020

2022/09067 ~ Complete ~54:POWER SAVING METHODS FOR A MOBILE STATION ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: FOCAI PENG;JUN XU;MENGZHU CHEN;QIUJIN GUO;XIAOYING MA;XUAN MA;YUZHOU HU~

2022/09077 ~ Complete ~54:BENDING MACHINE ~71:SCHWARZE-ROBITEC GMBH, Olpener Strasse 460-474, Germany ~72: ZORN, Hubert~ 33:DE ~31:10 2020 107 919.2 ~32:23/03/2020

2022/09011 ~ Provisional ~54:BELEC-REACTOR (BIPOLAR ELECTROCHEMICAL REACTOR) ~71:Emmanuel I. Iwuoha, SensorLab (University of the Western Cape Sensor Laboratories), South Africa;Kefilwe V. Mokwebo, SensorLab (University of the Western Cape Sensor Laboratories), South Africa;Samantha F. Douman, SensorLab (University of the Western Cape Sensor Laboratories), South Africa ~72: Dr Samantha F. Douman;Ms Kefilwe V. Mokwebo;Prof Emmanuel I. Iwuoha~

2022/09075 ~ Complete ~54:METHOD FOR EXTRACTING VANADIUM FROM VANADIUM-CONTAINING CARBONATE LEACHING SOLUTION AND RECYCLING RAFFINATE FROM VANADIUM PRECIPITATION PROCESS ~71:PANGANG GROUP RESEARCH INSTITUTE CO., LTD., Room 1006, 10th Floor, Unit 1, Building 17, No. 89, Hezuo Road, High-tech Zone, Chengdu, Sichuan, 611731, People's Republic of China ~72: JINSHU WU;YOU WU;YUZHONG RAO;ZIBI FU~ 33:CN ~31:202111391734.3 ~32:19/11/2021

2022/09069 ~ Complete ~54:ANTIBODIES AND CHIMERIC ANTIGEN RECEPTORS TARGETING GLYPICAN-3 (GPC3) AND METHODS OF USE THEREOF ~71:NANJING LEGEND BIOTECH CO., LTD., No.6 Building of Nanjing Life Science Town, No. 568 Longmian Avenue, Jiangning District Nanjing, Jiangsu, 211100, People's Republic of China ~72: JIE MAO;QIUCHUAN ZHUANG;RUIXUE WANG;XIAOHU FAN~ 33:CN ~31:PCT/CN2020/076937 ~32:27/02/2020

2022/09076 ~ Complete ~54:PRODUCTION OF SOLUBLE RECOMBINANT PROTEIN ~71:FINA BIOSOLUTIONS, LLC, 9430 Key West Ave., Suite 200, Rockville, United States of America ~72: CHANG, Min-Ju;LEES, Andrew;OGANESYAN, Natalia~ 33:US ~31:16/819,775 ~32:16/03/2020;33:US ~31:62/990,083 ~32:16/03/2020;33:US ~31:63/152,954 ~32:24/02/2021

2022/09016 ~ Provisional ~54:SUPERCRATE KESTERITE SOLAR CELL (SUPRA-KTR SOLAR CELL) ~71:Emmanuel I. Iwuoha, SensorLab (University of the Western Cape Sensor Laboratories), South Africa;Sodiq T. Yussuf, SensorLab (University of the Western Cape Sensor Laboratories), South Africa ~72: Dr Sodiq T. Yussuf;Prof Emmanuel I. Iwuoha~

2022/09031 ~ Complete ~54:EXPERIMENTAL METHOD FOR FLUID-SOLID COUPLING PHYSICAL SIMULATION IN CONFINED AQUIFER ~71:NORTH CHINA INSTITUTE OF SCIENCE & amp; TECHNOLOGY, No. 467, Xueyuan street, Sanhe Yanjiao Development Zone, Langfang, Hebei Province, People's Republic of China ~72: CHEN Zheng;GAO Pengcheng;WANG Yue;WANG Yun;WU Jinsui;XU Bin;YI Sihai;YIN Shangxian;ZHONG Rui~

2022/09042 ~ Complete ~54:A FRICTION STABILISER BOLT ~71:RSC MINING (PTY) LTD, 2 Tedston Road, Wadeville, South Africa ~72: STEYN, Johann;SWEMMER, Theodore Daniel~

2022/09043 ~ Complete ~54:DIFFERENT-WEIGHT FEEDING METHOD AND DIFFERENT-WEIGHT FEEDING SYSTEM ~71:Chuda Intelligent (Wuhan) Technology Research Institute Co., Ltd., No. 5, 4th Floor, Building 2, International Enterprise Center, No. 1, Optics Valley Avenue, Donghu New Technology Development Zone, WUHAN 430074, HUBEI, CHINA (P.R.C.), People's Republic of China ~72: CAI, Zhixiang;DENG, Jiahui;FAN, Shengzheng;GUO, Yunfei;LIU, Hu;NIE, Yunfei~33:CN ~31:202210014344.2 ~32:07/01/2022

2022/09024 ~ Complete ~54:HYDROXYPROPYL CHITOSAN/CARBOXYMETHYL CHITOSAN DRUG-LOADED PARTICLES BASED ON EUPATORIUM ADENOPHORUM EXTRACT AND PREPARATION METHOD THEREOF ~71:GUANGDONG CITY TECHNICIAN COLLEGE, No. 289, Tianlu South Road, Huangpu District, Guangzhou, Guangdong, People's Republic of China;Guangzhou Zhongjian TCM Technology Co., Ltd, Room 113 and 114, underground, No. 195, Shuixi Road, Huangpu District, Guangzhou, Guangdong, People's Republic of China;South China University of Technology, Wushan Road, Tianhe District, Guangzhou, Guangdong, People's Republic of China ~72: JIA Demin;JIA Zhixin;ZHANG Qingzhong;ZHAO Hui;ZHAO Qi~

2022/09058 ~ Complete ~54:AC TO DC CONVERTER FOR ELECTROLYSIS ~71:HYGRO TECHNOLOGY BV, De Thien 5, Netherlands ~72: DAMEN, Michiel Eduard Cornelis;GROENEMANS, Johannes Hubertus GuliëIma Hendricus~ 33:NL ~31:2024916 ~32:14/02/2020;33:NL ~31:2024917 ~32:14/02/2020

2022/09078 ~ Complete ~54:SUNFLOWER PHOSPHOLIPID COMPOSITION CONTAINING PHOSPHATIDYLCHOLINE ~71:LIPOID GMBH, Frigenstr. 4, Germany ~72: HEIDECKE, Christoph;VAN HOOGEVEST, Peter~ 33:EP ~31:20162785.8 ~32:12/03/2020

2022/09045 ~ Complete ~54:NOVEL ANTI-LAM AND ANTI-PIM6/LAM MONOCLONAL ANTIBODIES FOR DIAGNOSIS AND TREATMENT OF MYCOBACTERIUM TUBERCULOSIS INFECTIONS ~71:RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, Old Queen's Somerset Street, New Brunswick, New Jersey, 08901, United States of America ~72: ABRAHAM PINTER;ALOK CHOUDHARY~ 33:US ~31:62/293,406 ~32:10/02/2016

2022/09022 ~ Complete ~54:DEVICE FOR PRODUCING GRAPHITE-TYPE EXPANDABLE POLYSTYRENE BY BULK POLYMERIZATION ~71:Guangdong University of Petrochemical Technology, No. 139, Guandu 2nd Road, Maonan District, Maoming City, Guangdong Province, 525000, People's Republic of China ~72: Guiyin Li;Huizhi Liu;Xinchun Zhou;Zhide Zhou;Zhongmin Su~ 33:CN ~31:202210767027.8 ~32:30/06/2022

2022/09028 ~ Complete ~54:DOUBLE-END WATER SHUTOFF DEVICE AND METHOD FOR PREVENTING BOREHOLE PLUGGING ~71:CCTEG CHINA COAL RESEARCH INSTITUTE, No. 5, qingniangou East Road,Hepingli, Chaoyang District, Beijing, People's Republic of China;CHINA UNIVERSITY OF MINING AND TECHNOLOGY-BEIJING, Ding No.11 Xueyuan Road, Haidian District, Beijing, People's Republic of China;NORTH CHINA INSTITUTE OF SCIENCE & amp; TECHNOLOGY, No. 467, Xueyuan street, Sanhe Yanjiao Development Zone, Langfang, Hebei Province, People's Republic of China;XI'AN RESEARCH INSTITUTE CO. LTD., CHINA COAL TECHNOLOGY AND ENGINEERING GROUP CORP, No. 82, Jinye 1st Road, high tech Zone, Xi'an, Shaanxi Province, People's Republic of China ~72: DONG Shuning;LI Shuxia;LIAN Huiqing;MA Hewen;WANG Hao;WEI Yuan;XIA Xiangxue;XU Bin;YI Sihai;YIN Shangxian~

2022/09030 ~ Complete ~54:AN INTELLIGENT LOGISTIC BIG DATA PROCESSING PLATFORM ~71:Yancheng Institute Of Technology, No. 1, hope Avenue Middle Road, Tinghu District, Yancheng City, Jiangsu Province, People's Republic of China ~72: Liu Ying~ 33:CN ~31:202210231519.5 ~32:09/03/2022

2022/09035 ~ Complete ~54:FIXTURE FOR PROCESSING SPLICED GEAR ~71:Wuhu Dengding Machinery Equipment Co., Ltd, Building 2, beisike Innovation Park, Fanchang Economic Development Zone, Fanchang District, Wuhu City, Anhui Province, People's Republic of China ~72: Mu guopei~

2022/09039 ~ Complete ~54:AN EXTRACTION METHOD AND A EXTRACTION SYSTEM OF FUZZY EXTENSION MATRIX RULES BASED ON BIG DATA ~71:Hebei Wangxin Technology Group Co., Ltd, 7th floor, administrative service center, northwest corner, intersection of Alishan street and Xingong Road, Shijiazhuang circular chemical industry park, Hebei (centralized registration), People's Republic of China ~72: Yan Rongxin~

2022/09062 ~ Complete ~54:FLUID CONTROL IN MICROFLUIDIC DEVICES ~71:LumiraDx UK Ltd., 3 More London Riverside, LONDON SE1 2AQ, UNITED KINGDOM, United Kingdom ~72: DEANE, John Iain William;FERNANDEZ DE SANNAMED, Lois Bello;FLETT, Michael;KEATCH, Steven Alexander;KHAN, Aman Murtaza;KHAN, Badr Aman;KHAN, Usman Ali;LANG, David Kinniburgh;LINDNER, Nigel Malcolm;LOWE, Phill;MCGUIGAN, Brian;MCINNES, Graeme John;QUINLAN, Thomas J.;SCOTT, Dave;TAYLOR, David William;TWOMEY, Marcus~ 33:US ~31:62/960,421 ~32:13/01/2020;33:US ~31:62/972,921 ~32:11/02/2020;33:US ~31:62/991,446 ~32:18/03/2020;33:US ~31:63/032,410 ~32:29/05/2020;33:US ~31:63/055,744 ~32:23/07/2020;33:US ~31:63/067,782 ~32:19/08/2020;33:US ~31:63/092,371 ~32:15/10/2020

2022/09070 ~ Complete ~54:A SYSTEM AND METHOD FOR THE IMPARTING OF OPTICAL DIGITAL CPUS AND ROMS TO DIVERSE PHYSICAL OBJECTS ~71:THINK4IR (PTY) LTD, 2nd Floor, 6 Sturdee Avenue, Rosebank, 2196, South Africa ~72: GAVIN RANDALL TAME~ 33:ZA ~31:2020/01099 ~32:21/02/2020

2022/09079 ~ Complete ~54:MICROCRYSTALLINE GLASS, AND MICROCRYSTALLINE GLASS PRODUCT AND MANUFACTURING METHOD THEREFOR ~71:CDGM GLASS CO., LTD, No.359, Sec.3, Chenglong Avenue, LongQuan YI District Chengdu, People's Republic of China ~72: CHEN, Xuemei;JIANG, Tao;LI, Sai;SU, Yong;YU, Tianlai;YUAN, Baoping~ 33:CN ~31:202110116889.X ~32:28/01/2021

2022/09014 ~ Provisional ~54:COMPOUNDS, COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING DISEASE ~71:VIRO-GEN PTY LTD, 313 CLIFF AVENUE, WATERKLOOF RIDGE x2, South Africa ~72: SMIT, MICHELLE OLGA PATRICIA GIESTEIRA DA SILVA~

2022/09044 ~ Complete ~54:WEAR ASSEMBLY ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: CONKLIN, Donald M.;JOHNSTON, Christopher A.;ROSKA, Michael B.;ROSSI, William D.;STANGELAND, Kevin S.~ 33:US ~31:61/563,448 ~32:23/11/2011;33:US ~31:61/720,928 ~32:31/10/2012

2022/09015 ~ Provisional ~54:PRE-FORMED ROOF SEALING MEMBRANE ~71:WALSH, Brian, 57 Sanctuary Place, Moseley, South Africa ~72: WALSH, Brian~

2022/09017 ~ Provisional ~54:PUBLIC CONVENIENCE ~71:MODULAR CONTAINER SOLUTIONS (PROPRIETARY) LIMITED, 300 Koos De La Rey Street, Pretoria-North, South Africa ~72: Andre van der Walt~

2022/09018 ~ Complete ~54:FIXED-POINT STRESS DETECTION SYSTEM ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: DING, Liying;FU, Yanduo;HE, Luyao;LIU, Bin;LIU, Tong;MA, Xue;REN, Jian;YANG, Lijian;ZENG, Fanyu;ZHANG, He~

2022/09021 ~ Complete ~54:ESTABLISHMENT METHOD OF STANDARD CURVE OF QRT-PCR ASSAY FOR DETECTION OF INFLAMMATORY FACTORS IN RATS WITH RHEUMATOID ARTHRITIS ~71:Shanxi University

of Chinese Medicine, No. 121, Daxue Street, University Zone, Jinzhong City, Shanxi Province, 030619, People's Republic of China ~72: LI, Zhen~

2022/09026 ~ Complete ~54:ASPHALT MIXTURE MODIFYING ADDITIVE, PREPARATION METHOD THEREOF AND HIGH-TOUGHNESS ASPHALT MIXTURE ~71:Research Institute of Highway Ministry of Transport, Xitucheng Road No.8, Haidian District, Beijing, People's Republic of China ~72: LI Jun;LI Mingliang;WU Hao~ 33:CN ~31:202210267743.X ~32:17/03/2022

2022/09029 ~ Complete ~54:DOUBLE-END WATER SHUTOFF DEVICE AND METHOD WITH INTEGRATED DRILLING PEEP FUNCTION ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY-BEIJING, Ding No.11 Xueyuan Road, Haidian District, Beijing, People's Republic of China;JILIN UNIVERSITY, No. 938, Minzhu West Street, Chaoyang District, Changchun City, Jilin Province, People's Republic of China;NORTH CHINA INSTITUTE OF SCIENCE & amp; TECHNOLOGY, No. 467, Xueyuan street, Sanhe Yanjiao Development Zone, Langfang, Hebei Province, People's Republic of China;XI'AN RESEARCH INSTITUTE CO. LTD., CHINA COAL TECHNOLOGY AND ENGINEERING GROUP CORP, No. 82, Jinye 1st Road, high tech Zone, Xi'an, Shaanxi Province, People's Republic of China ~72: DAI Zhenxue;DONG Shuning;HUANG Hao;LI Shuxia;LIAN Huiqing;XU Bin;YI Sihai;YIN Shangxian~

2022/09034 ~ Complete ~54:GEAR GRINDING DEVICE WITH HIGH AUTOMATION DEGREE ~71:Wuhu Dengding Machinery Equipment Co., Ltd, Building 2, beisike Innovation Park, Fanchang Economic Development Zone, Fanchang District, Wuhu City, Anhui Province, People's Republic of China ~72: Mu guopei~

2022/09041 ~ Complete ~54:COLLAR FOR A FRICTION STABILISER BOLT ~71:RSC MINING (PTY) LTD, 2 Tedstone Road, Wadeville, South Africa ~72: STEYN, Johann;SWEMMER, Theodore Daniel~ 33:ZA ~31:2022/00298 ~32:06/01/2022

2022/09055 ~ Complete ~54:EXPLOSION-PROOF WHEEL HUB WITH BUFFER STRUCTURE ~71:JIANGSU POMLEAD CO., LTD, 1 Pomlead Road, Economic development, Pei County, Xuzhou City, Jiangsu Province, 221000, People's Republic of China ~72: DONG, Qi;HUANG, Ningning;MAO, Wen;PENG, Guiyun;PENG, Yazhen;WAN, Jinhua;WANG, Fei;XIA, Chengqiang;ZHANG, Tong;ZHOU, Jinfeng~ 33:CN ~31:202011349173.6 ~32:26/11/2020

2022/09057 ~ Complete ~54:DEVICE AND METHOD FOR SEPARATING A SUSPENSION ~71:ANDRITZ DELKOR PTY LTD, Kyalami Boulevard 76, South Africa ~72: Adriaan DUVENHAGE~ 33:AT ~31:50513/2020 ~32:15/06/2020

2022/09061 ~ Complete ~54:HYDROCARBON RESIN AND PROCESS FOR PRODUCTION THEREOF ~71:Rain Carbon Germany GmbH, Kekuléstr. 30, CASTROP-RAUXEL 44579, GERMANY, Germany ~72: DREISEWERD, Björn;FUHRMANN, Edgar;HEITMANN, Matthias;LIU, Jun;NAU, Manuel~ 33:EP ~31:20157171.8 ~32:13/02/2020

2022/09019 ~ Complete ~54:STRESS SIGNAL FEATURE RESEARCH METHOD BASED ON FLAPW ALGORITHM ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: HE, Luyao;LIAN, Zheng;LIU, Bin;MA, Xue;REN, Jian;WU, Zihan;YANG, Lijian;YU, Hui~

2022/09025 ~ Complete ~54:EPOXY CORROSION COATING AND PREPARATION METHOD THEREOF ~71:Inner Mongolia Power (Group) Co.,Ltd., Bayannur Power Branch, Kaiyuan Road, Linhe District, Bayannur City, Inner Mongolia, People's Republic of China;Inner Mongolia Power (Group) Co.,Ltd., Inner Mongolia Power Research Institute Branch, No. 21, Xilin South Road, Yuquan

District, Hohhot, Inner Mongolia, People's Republic of China ~72: CHEN Yan;GE Lihong;KANG Haiping;LI Danyang;TANG Zhanrong;XUE Shouhong;YANG Yaoguo;YE Hailong~

2022/09033 ~ Complete ~54:MULTI-ANGLE PAINT SPRAY DEVICE FOR AUTOMOBILE PART ~71:Wuhu Heyu Electronic Technology Co., Ltd, Fan Yang Zhen Hua Yang Cun Wu Tong Lu Bian, Fanchang County, Wuhu City, Anhui Province, People's Republic of China ~72: Xu Yang~

2022/09036 ~ Complete ~54:HIGH-ACCURACY PERFORATE DEVICE FOR AUTOMOBILE PART ~71:Wuhu Heyu Electronic Technology Co., Ltd, Fan Yang Zhen Hua Yang Cun Wu Tong Lu Bian, Fanchang County, Wuhu City, Anhui Province, People's Republic of China ~72: Xu Yang~

2022/09047 ~ Complete ~54:COMBINATION COMPRISING ALPELISIB AND 6-(2,4-DICHLOROPHENYL)-5-[4-[(3S)-1-(3-FLUOROPROPYL)PYRROLIDIN-3-YL]OXYPHENYL]-8,9-DIHYDRO-7H-BENZO[7]ANNULENE-2-CARBOXYLIC ACID ~71:SANOFI, 54, rue de la Boétie, France ~72: BOUABOULA, Monsif;GUO, Zhuyan;POIRIER, Stéphane;SHOMALI, Maysoun;SUN, Fangxian~ 33:EP ~31:20305190.9 ~32:27/02/2020

2022/09049 ~ Complete ~54:FENCE ~71:GUARDIAR EUROPE BVBA, Blokkestraat 34b, Belgium ~72: MESSELIS, Timothy;SYNODINOS, Stefanos~ 33:GB ~31:2002340.4 ~32:20/02/2020

2022/09050 ~ Complete ~54:RAIL SYSTEM ~71:CAMPBELL, Robert Kenneth, 45 Bermuda Street, Australia;HAYES, Kerry, 45 Bermuda Street, Australia ~72: CAMPBELL, Robert Kenneth;HAYES, Kerry~ 33:AU ~31:2020100168 ~32:01/02/2020

2022/09051 ~ Complete ~54:FORMULATIONS FOR PROTEIN THERAPEUTICS ~71:APTEVO RESEARCH AND DEVELOPMENT LLC, 2401 FOURTH AVENUE, SUITE 1050, SEATTLE, WASHINGTON 98121, USA, United States of America ~72: BIENVENUE, David;CLAPPER, Jonathan;MCMAHAN, Catherine, J.;STROMATT, Scott~ 33:US ~31:62/960,562 ~32:13/01/2020;33:US ~31:63/121,633 ~32:04/12/2020

2022/09060 ~ Complete ~54:ENGINEERED ANTI-IL-2 ANTIBODIES ~71:AULOS BIOSCIENCE, INC, 700 Larkspur Landing Circle Suite 108, United States of America ~72: AMIT, Inbar;BARAK FUCHS, Reut;BLUVSHTEIN YERMOLAEV, Olga;FISCHMAN, Sharon;GROSSMAN, Noam;LEVIN, Itay;LEVITIN, Natalia;NIMROD, Guy;OFRAN, Yanay;SASSON, Yehezkel;STRAJBL, Marek;WYANT, Timothy;ZHENIN, Michael~ 33:US ~31:62/977,292 ~32:16/02/2020;33:US ~31:63/139,315 ~32:20/01/2021

2022/09063 ~ Complete ~54:SODIUM 2-[(4S)-8-FLUORO-2-[4-(3-METHOXYPHENYL)PIPERAZIN-1-YL]-3-[2-METHOXY-5-(TRIFLUOROMETHYL)PHENYL]-4H-QUINAZOLIN-4-YL]ACETATE AND PHARMACEUTICAL COMPOSITIONS THEREOF ~71:AIC246 AG & amp; Co. KG, Friedrich-Ebert-Str. 475, WUPPERTAL 42117, GERMANY, Germany ~72: BUSCHMANN, Helmut;GOLDNER, Thomas;HAWE, Andrea;HOHMANN, Dorothea;LUCKE, Matthias;REDMER, Jessica;ROSA, Monica~ 33:EP ~31:20159699.6 ~32:27/02/2020

2022/09068 ~ Complete ~54:DIAMINE-LINKED RECEPTOR-SPECIFIC CYCLIC PEPTIDES ~71:PALATIN TECHNOLOGIES, INC., 4-B Cedar Brook Drive, Cedar Brook Corporate Center, Cranbury, New Jersey, 08512, United States of America ~72: AXEL METZGER;JOHN H DODD;WEI YANG~ 33:US ~31:62/969,311 ~32:03/02/2020;33:US ~31:63/124,927 ~32:14/12/2020

2022/09010 ~ Provisional ~54:DRILLING MONITORING SYSTEM ~71:HOLTZHAUSEN, Johann, Andre, RONDEVOUX 1, 13 KUISIS ROAD PRETORIA, BRUMMERIA X 16, 0184, SOUTH AFRICA, South Africa;THERON, Riaan, Dawid, PERSEEL 4, GARIEP NEDERSETTING, !KHEIS MUNISIPALITEIT, GROOTDRINK, 8822, SOUTH AFRICA, South Africa ~72: HOLTZHAUSEN, Johann, Andre;THERON, Riaan, Dawid~ 2022/09071 ~ Complete ~54:PICKUP TRUCK CARGO BOX SUBASSEMBLY ~71:AERLYTE, INC., 3504 Cliffs Dr. Petoskey, Michigan, 49770, United States of America ~72: CHRISTOPHER VII JOHNSTON~ 33:US ~31:16/794,579 ~32:19/02/2020

2022/09012 ~ Provisional ~54:A ROCK BOLT ~71:JOZISCAPE (PTY) LTD, CNR OF MAIN 6TH STREET, GA-RANKUWA INDUSTRIAL PARK, GA-RANKUWA, GAUTENG, 0208, South Africa ~72: BOTHA, Raymond, Mark;MARSHALL, Elton;MARSHALL, Garth~

2022/09038 ~ Complete ~54:A PREPARATION METHOD OF ALPHA-HEMIHYDRATE PHOSPHOGYPSUM AND THE ALPHA-HEMIHYDRATE PHOSPHOGYPSUM ~71:Zhejiang Boming Environmental Protection and Energy Saving Technology Co.,Ltd, Tongyi village,Hezhuang Township, Qiantang county, Hangzhou City, Zhejiang Province, 071052, People's Republic of China ~72: Weng boming~

2022/09046 ~ Complete ~54:A GRASS GRID LAYING ROBOT ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic & amp; Technological Development Zone, Shenyang, People's Republic of China ~72: GUO, Zhongfeng;HE, Qihua;YANG, Junlin~

2022/09054 ~ Complete ~54:WHEELCHAIR WHEEL ~71:P + L INNOVATIONS GMBH, Am Krozinger Weg 11, Germany ~72: Michael EICH;Wolf-Dietrich PFLAUMBAUM~ 33:DE ~31:10 2020 103 171.8 ~32:07/02/2020

2022/09056 ~ Complete ~54:TECHNOLOGICAL METHOD FOR PREPARING HIGH-HARDNESS CORROSION-RESISTANT WHEEL HUB COATING ~71:JIANGSU POMLEAD CO., LTD, 1 Pomlead Road, Economic development, Pei County, Xuzhou City, Jiangsu Province, 221000, People's Republic of China ~72: DONG, Qi;HUANG, Ningning;MAO, Wen;PENG, Guiyun;PENG, Yazhen;WAN, Jinhua;WANG, Fei;XIA, Chengqiang;ZHANG, Tong;ZHOU, Jinfeng~ 33:CN ~31:202011349201.4 ~32:26/11/2020

2022/09037 ~ Complete ~54:MULTIFUNCTIONAL INTELLIGENT SWEEPING ROBOT ~71:Wuhu Kedi Electronic Technology Co., Ltd, Fanyang town Huayang village, Fanchang County, Wuhu City, Anhui Province, People's Republic of China ~72: Chen Lin~

2022/09040 ~ Complete ~54:FORMULATION FOR IMPROVING INSULIN RESISTANCE IN GESTATIONAL DIABETES MELLITUS ~71:Dr. Biplab Debnath, Professor & amp; Vice-Principal, Bharat Technology , Banitabla, Uluberia, Howrah, India;Dr. Pranay Wal, Professor & amp; Dean Pharmacy, Pranveer Singh Institute of Technology, Pharmacy, NH-2 Bhauti Road, India;Dr. Ramesh Kumari Dasgupta, Professor, Department of Pharmaceutical Chemistry, Mata Gujri College of Pharmacy, Mata Gujri University, Purabpali Road, Kishanganj, India;Dr. Sangram Keshari Panda, Professor cum Principal, Jeypore College of Pharmacy, Rondapalli, Koraput, Jeypore, India;Jisu Das, Lecturer, Huda Group of Institution, Kanuwamari, Samaguri, Nagaon, India;Joyanta Kishore Debnath, Lecturer, School of Pharmaceutical Science and Technology, Kanuwamari, Samaguri, Nagaon, India;Mr. Uddhav Patangia, Assistant Professor, Girijananda Chowdhury Institute of Pharmaceutical Science, Tezpur, India;Rrs. Manasi Khadanga, Assistant Professor, Jeypore College of Pharmacy, Rondapalli, Koraput, Jeypore, India;Ranadeep Borgohain, Assistant Professor, Girijananda Chowdhury Institute of Pharmaceutical Science, Hatkhowa para, Guwahati, India ~72: Dr. Biplab Debnath;Dr. Pranay Wal;Dr. Ramesh Kumari Dasgupta;Dr. Sangram Keshari Panda;Jisu Das;Joyanta Kishore Debnath;Mokinur Rahaman;Mr. Uddhav Patangia;Mrs. Manasi Khadanga;Ranadeep Borgohain~

2022/09048 ~ Complete ~54:FC VARIANT AND PREPARATION THEREOF ~71:ZYDUS LIFESCIENCES LIMITED, Zydus Corporate Park, Scheme No. 63, Survey No. 536, Khoraj (Gandhinagar), Nr. Vaishnodevi Circle, India ~72: HANDA, Satish;KALITA, Pankaj;KASERA, Ramkrashan;MENDIRATTA, Sanjeev, Kumar;PANDYA, Hardik;PARIKH, Aashini;PATEL, Chirag;PATEL, Heena;SHAH, Anushree;SHARMA, Vibhuti;SINGH, Arun, Kumar;SONI, Swagat;VYAS, Narayani~ 33:IN ~31:202021021451 ~32:21/05/2020

2022/09052 ~ Complete ~54:EXTRACTION APPARATUS AND EXTRACTION METHOD FOR A FERMENTATION MEDIUM ~71:MICO-SYSTEMS GMBH, Münchnerstrasse 2, Germany ~72: BÖHM, Georg;LUNG, Gerhard;VON KÖNEMANN, Olaf~ 33:EP ~31:20160130.9 ~32:28/02/2020

2022/09053 ~ Complete ~54:IMPROVED EXTERNAL FIXATION STRUT ~71:ORTHOFIX S.R.L., Via delle Nazioni, 9, Italy;TEXAS SCOTTISH RITE HOSPITAL FOR CHILDREN, 2222 Welborn Street, United States of America ~72: CHERKASHIN, Alexander;MILANO, Gianluca;OTTOBONI, Andrea;ROSS, John David Jr.;SAMCHUKOV, Mikhail;STANDEFER, Karen Divita;VENTURINI, Daniele~ 33:EP ~31:20164789.8 ~32:23/03/2020;33:US ~31:16/827,269 ~32:23/03/2020;33:EP ~31:20217764.8 ~32:30/12/2020

2022/09059 ~ Complete ~54:METHODS FOR PERFORMING DISCONTINUOUS RECEPTION ON SIDELINK ~71:IDAC HOLDINGS, INC., Suite 300 200 Bellevue Parkway, United States of America ~72: DENG, Tao;FREDA, Martino;HOANG, Tuong;LEE, Moon IL;MARINIER, Paul;PELLETIER, Ghyslain;RAO, Jaya~ 33:US ~31:62/975,238 ~32:12/02/2020;33:US ~31:62/985,604 ~32:05/03/2020;33:US ~31:63/061,388 ~32:05/08/2020;33:US ~31:63/090,992 ~32:13/10/2020;33:US ~31:63/125,446 ~32:15/12/2020

2022/09064 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTORS WITH CD28 MUTATIONS AND USE THEREOF ~71:Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, NEW YORK 10065, NY, USA, United States of America ~72: BRENTJENS, Renier J.;DANIYAN, Anthony~ 33:US ~31:62/970,401 ~32:05/02/2020

2022/09074 ~ Complete ~54:METHOD FOR EXTRACTING VANADIUM FROM VANADIUM SLAG BY CARBONATION LEACHING AND RECYCLING MEDIUM ~71:PANGANG GROUP RESEARCH INSTITUTE CO., LTD., Room 1006, 10th Floor, Unit 1, Building 17, No. 89, Hezuo Road, High-tech Zone, Chengdu, Sichuan, 611731, People's Republic of China ~72: NING WANG;YOU WU;YUZHONG RAO;ZIBI FU~ 33:CN ~31:202111288819.9 ~32:02/11/2021

- APPLIED ON 2022/08/15 -

2022/09105 ~ Complete ~54:COMPUTER VISION-BASED HUMAN BEHAVIOR RECOGNITION DEVICE ~71:SUQIAN UNIVERSITY, No. 399 Huanghe Nan Road, Suqian City, Jiangsu Province, 223800, People's Republic of China ~72: KUN LV~

2022/09114 ~ Complete ~54:MULTISPECIFIC ANTIBODIES FOR USE IN TREATING DISEASES ~71:YEDA RESEARCH AND DEVELOPMENT CO. LTD., at the Weizmann Institute of Science, P.O. Box 95, Israel ~72: DAHAN, Rony;SALOMON, Ran~ 33:IL ~31:272194 ~32:22/01/2020

2022/09118 ~ Complete ~54:ENGINEERED ANTI-HER2 BISPECIFIC PROTEINS ~71:Denali Therapeutics Inc., 161 Oyster Point Blvd., SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: KANNAN, Gunasekaran;KIM, Do Jin;KWAN, Wanda;TONG, Raymond Ka Hang~ 33:US ~31:62/978,758 ~32:19/02/2020

2022/09104 ~ Complete ~54:INTRADIALYTIC USE OF SODIUM THIOSULFATE ~71:HOPE MEDICAL ENTERPRISES, INC. DBA HOPE PHARMACEUTICALS, 16416 N. 92nd Street #125, Scottsdale, Arizona, United States of America ~72: CRAIG SHERMAN~ 33:US ~31:62/468,871 ~32:08/03/2017

2022/09085 ~ Complete ~54:A DROUGHT EVENT RECOGNITION METHOD BASED ON THREE-DIMENSIONAL PERSPECTIVE ~71:Institute of Water Resources for Pastoral Area, Ministry of Water Resources, No.128, Daxue East Street, Saihan District, Hohhot City, Inner Mongolia Autonomous Region, 010020, People's Republic of China ~72: Hang Yin;Jiuji An;Qiang Quan;Quancheng Zhou;Shuixia Zhao;Wei Li;Weijie Zhang;Wenjun Wang;Xiaojun Chen;Yingjie Wu~ 2022/09106 ~ Complete ~54:ARTIFICIAL INTELLIGENCE-BASED SAFETY EARLY WARNING DEVICE ~71:SUQIAN UNIVERSITY, No. 399 Huanghe Nan Road, Suqian City, Jiangsu Province, 223800, People's Republic of China ~72: KUN LV~

2022/09111 ~ Complete ~54:METHOD AND DEVICE FOR CONTROLLING COMMUNICATION-FREE SELF-ADAPTIVE VIRTUAL INERTIA OF SERIES MICROGRID ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province, 564500, People's Republic of China ~72: LI LANG;LIU YUN;SHEN SHIXUN;TIAN PENG;ZHANG LEILEI~ 33:CN ~31:202210832206.5 ~32:14/07/2022

2022/09121 ~ Complete ~54:GENE THERAPY VECTORS FOR TREATING HEART DISEASE ~71:Tenaya Therapeutics, Inc., 171 Oyster Point Boulevard, Suite 500, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: LOMBARDI, Laura~ 33:US ~31:62/976,160 ~32:13/02/2020;33:US ~31:63/047,633 ~32:02/07/2020

2022/09093 ~ Complete ~54:A HANDLING MANIPULATOR ~71:Shenyang University of Technology, 111, Shenliao West Road, Economic & amp; Technological Development Zone, Shenyang, People's Republic of China ~72: GUO Zhongfeng;LIN Shaokun~

2022/09099 ~ Complete ~54:A GRAB FOR BAGGED GOODS ~71:Shenyang University of Technology, 111, Shenliao West Road, Economic & amp; Technological Development Zone, Shenyang, People's Republic of China ~72: FU Xiaohan;GUO Zhongfeng;YANG Junlin~

2022/09089 ~ Complete ~54:FULL-AUTOMATIC TAR RESIDUE HARMLESS TREATMENT METHOD ~71:Anhui Firstt Smarttech Co., Ltd., Dangtu Industrial Park, Ma'anshan City, Anhui Province, 243100, People's Republic of China ~72: JIN, Yufeng;SUN, Zhanglian;XIA, Chonggui~

2022/09095 ~ Complete ~54:MICRO-INTERFACIAL STRENGTHENING REACTION SYSTEM ~71:NANJING YANCHANG REACTION TECHNOLOGY RESEARCH INSTITUTE CO. LTD, No.88, Tanchang South Road, Jiangbei New District Nanjing, Jiangsu, 210047, People's Republic of China ~72: LI, Lei;LUO, Huaxun;MENG, Weimin;TIAN, Hongzhou;WANG, Baorong;YANG, Gaodong;YANG, Guoqiang;ZHANG, Feng;ZHANG, Zhibing;ZHOU, Zheng~

2022/09097 ~ Complete ~54:METHOD FOR BREEDING AND PROPAGATING EVER-BEARING WHITE-FRUIT STRAWBERRIES ~71:Jiangsu Academy of Agricultural Sciences, No. 50, Zhongling Street, Xuanwu District, Nanjing City, Jiangsu Province, 210014, People's Republic of China ~72: Fuhua PANG;Hongmei YU;Huazhao YUAN;Jing WANG;Mizhen ZHAO;Weijian CAI;Xiaodong CHEN~

2022/09102 ~ Complete ~54:A PROCESSING METHOD OF YOGHOURT RICH IN RESVERATROL AND GAMMA-AMINOBUTYRIC ACID ~71:Ningbo University, No.818 Fenghua Road, Ningbo, Zhejiang, 315211, People's Republic of China ~72: Daodong Pan;Xiaoqun Zeng;Zhen Wu~

2022/09109 ~ Complete ~54:DFIG ADAPTIVE CONTROL STRATEGY AND COORDINATION METHOD COMPATIBLE WITH FEEDER AUTOMATION ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province, 564500, People's Republic of China ~72: FENG HUAZHONG;HUANG WEI;LI LANG;LIU YUN;PAN FENG;SHEN SHIXUN;TIAN PENG;ZHOU KE~ 33:CN ~31:202210353492.7 ~32:06/04/2022

2022/09112 ~ Complete ~54:METHODS FOR REDUCING HTT EXPRESSION ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: BENNETT, C., Frank;LANE, Roger;NORRIS, Daniel, A.;SMITH, Anne, V.~ 33:US ~31:62/980,010 ~32:21/02/2020

2022/09113 ~ Complete ~54:METHODS OF MAKING CHIMERIC ANTIGEN RECEPTOR-EXPRESSING CELLS ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: BARDROFF, Michael;BONDANZA, Attilio;BROGDON, Jennifer;CEBE, Regis;DRANOFF, Glenn;ENGELS, Boris;GRANDA, Brian Walter;GREENE, Michael R.;GUIMARAES, Carla;HACK, Anniesha;JAYASHANKAR, Shyamali;KODRASI, Olja;KOSHY, Sandeep Tharian;LIM, Hyungwook;MILLER, Sandra;PRATICO, Elizabeth Dorothy;PRICE, Andrew;RAYO, Amy;SOHONI, Akash;STEIN, Andrew, Marc;TREANOR, Louise;YANG, Jennifer;ZHU, Xu~ 33:US ~31:62/982,665 ~32:27/02/2020

2022/09115 ~ Complete ~54:CYPRINID FEED WITH IMMUNE-ENHANCING EFFECT AND METHOD OF RECYCLING POND CULTURE ~71:FRESHWATER FISHERIES RESEARCH CENTER,CAFS, No. 9, Shanshui East Road, Binhu District, Wuxi, Jiangsu, 214125, People's Republic of China;TONGWEI CO.,LTD., Tongwei International Center, No. 588 Middle Section of Tianfu Avenue,High-tech Zone, Chengdu, Sichuan, 610096, People's Republic of China ~72: LIAO Shengchen;MI Haifeng;REN Mingchun;TENG Tao;XUE Chunyu;ZHANG Lu~ 33:CN ~31:202210172530.9 ~32:24/02/2022

2022/09119 ~ Complete ~54:ANTI-HUMAN CD19 ANTIBODIES ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ALLAN, Barrett;BOYLES, Jeffrey Streetman;BUDELSKY, Alison Lee Sim;NA, Songqing;RUBTSOVA, Kira Vladimirovna;ZHANG, Guifeng~ 33:US ~31:62/983,093 ~32:28/02/2020

2022/09123 ~ Complete ~54:RECOMBINANT SUBUNIT VACCINE OF NOVEL CORONAVIRUS AND APPLICATION THEREOF ~71:BEIJING HEALTH GUARD BIOTECHNOLOGY, INC., Unit 201/202, Long Sheng Industry Park, #7 Rong Chang East Street, Beijing Economic-Technological Development Area, People's Republic of China ~72: CHEN, Xiao;LIU, Yongjiang;WANG, Yan;WU, Shuming;YIN, Fei;YUN, Bingling;ZHANG, Aijing;ZHANG, Haijiang;ZHANG, Yao~ 33:CN ~31:202011454175.1 ~32:10/12/2020

2022/09082 ~ Provisional ~54:HYPNOGOGIC REACT: AUTOMATION OF ACTIONS WHEN FALLING ASLEEP AND WAKING UP ~71:Chantelle Hattingh, 4 Zambesi Close, South Africa;Stephanus Gerhardus Hattingh, 4 Zambesi Close, South Africa ~72: Stephanus Gerhardus Hattingh~

2022/09124 ~ Complete ~54:PAYMENT METHOD, PAYMENT TERMINAL, CLOUD SUBSYSTEM, CLOUD SERVER AND SYSTEM ~71:CHINA UNIONPAY CO., LTD., CUP Tower, 36 Hanxiao Rd., Pudong New Area, People's Republic of China ~72: CAI, Hua;CHEN, Ke;JIANG, Haijian;LIN, Jinren;LIU, Gang;WANG, Yu;ZHANG, Zheng~ 33:CN ~31:202010099412.0 ~32:18/02/2020

2022/09087 ~ Complete ~54:A HIGHLY CONDUCTIVE CU-AG ALLOY AND ITS POWDERY PREPARING METHOD ~71:Institute of Applied Physics, Jiangxi Academy of Sciences, No. 7777, Changdong Avenue, Hightech development zone, Nanchang City, Jiangxi Province, 330096, People's Republic of China ~72: Wei Guo~

2022/09129 ~ Complete ~54:RAZOR ~71:DE KLERK, John Christopher, 8 Regency Crescent, Leopard Rock Estate, Plattekloof, South Africa;GOLDING, Andrew Mark, Wittebomen-Main House, 11 Pear Lane, Constantia, South Africa ~72: DE KLERK, John Christopher;GOLDING, Andrew Mark~ 33:ZA ~31:2021/05286 ~32:27/07/2021

2022/09125 ~ Complete ~54:NOVEL TRANSDUCTION ENHANCERS AND USES THEREOF ~71:UNIVERSITÄT ZÜRICH, Prorektorat Forschung Rämistrasse 71, 8006, Zürich, Switzerland ~72: JANINE REICHENBACH;OLEKSANDR PASTUKHOV;ULRICH SILER~ 33:EP ~31:20176940.3 ~32:27/05/2020;33:EP ~31:20200387.7 ~32:06/10/2020

2022/09127 ~ Complete ~54:GENERATION OF OPTIMIZED LOGIC FROM A SCHEMA ~71:AB INITIO TECHNOLOGY LLC, 201 Spring Street, Lexington, Massachusetts, 02421, United States of America ~72: IAN

SCHECHTER; JONAH EGENOLF; MARSHALL A ISMAN~ 33:US ~31:62/986,374 ~32:06/03/2020; 33:US ~31:17/025,751 ~32:18/09/2020

2022/09090 ~ Complete ~54:A RAW MATERIAL NANO-COMMINUTION MIXING DEVICE AND ITS METHOD ~71:Jilin Jianzhu University, No. 5088, Xincheng Avenue, Jingyue District, Changchun City, Jilin Province, 130118, People's Republic of China ~72: Shuai Zhang;Yabing Liu~

2022/09094 ~ Complete ~54:AN INTERACTION PREDICTION METHOD AND SYSTEM FOR MIRNA AND DISEASE ~71:University of Electronic Science and Technology of China, No.2006 Xiyuan Avenue, West Hi-Tech Zone, Chengdu City, Sichuan Province, 611731, People's Republic of China ~72: Chong Fu;Jiajing Zhu;Jihui Song;Qiaoqin Li;Xin Lu;Yongguo Liu;Yun Zhang~ 33:CN ~31:202210219782.2 ~32:08/03/2022

2022/09098 ~ Complete ~54:METHOD FOR EXTRACTING ANTIOXIDATIVE ASTAXANTHIN FROM SALMON ~71:Hainan Tropical Ocean University, Yucai Rd 1#, Jiyang District, Sanya, Hainan, People's Republic of China;Yazhou Bay Innovation Institute Hainan Tropical Ocean University, Hainan Ruize Office Building 6th floor, Yazhou Bay Science and Technology City, Sanya Yazhou District, Sanya, Hainan, People's Republic of China ~72: Han Qiuying;Hu Yaqin;Hu Zhiheng;Mao Yunxiang;Zhou Jiaying~

2022/09084 ~ Complete ~54:AN OPHTHALMIC EXTERNAL EYELID-OPENING APPARATUS ~71:Liuzhou Worker's Hospital, No.156, Heping Road, Liunan District, Liuzhou City, Guangxi Province, 545005, People's Republic of China ~72: Dexian Zhou;Le Han;Lili Liu;Liubin Lu;Min Hu;Peiyao Zhou;Shiyan Zhou~

2022/09083 ~ Provisional ~54:EMERGENCY REPORTING SYSTEM AND METHOD ~71:NYAMBI, Malwandla Cassius, 6 Anderson Street, Turffontein, South Africa ~72: NYAMBI, Malwandla Cassius~

2022/09126 ~ Complete ~54:EXCISION APPARATUS COMPRISING A HOUSING PROVIDED WITH A FIXATION PORTION ~71:DIRK CARL LUC COEMAN, De Pretlaan 3, 2950, Kapellen, Belgium ~72: DIRK CARL LUC COEMAN~ 33:NL ~31:2024926 ~32:17/02/2020

2022/09128 ~ Complete ~54:DEPLETION OF EXT1 EXPRESSION AND/OR ACTIVITY IMPROVES CELLULAR PRODUCTION OF BIOLOGICAL ENTITIES ~71:UNIVERSITÉ DE LIÈGE, Place du 20-Août, 7, 4000, Liège, Belgium ~72: DESPOINA KERSELIDOU;JEAN-CLAUDE TWIZERE~ 33:EP ~31:20158875.3 ~32:21/02/2020

2022/09096 ~ Complete ~54:METHOD AND DEVICE FOR DETECTING TYRE CREEP OF ROTARY KILN ~71:Tangshan UDO Technology Limited, Room 4-102, Building 117, Lanhai Jiayuan, Caofeidian Industrial Zone, Tangshan City, Hebei Province, 063000, People's Republic of China ~72: LI, Zhiyong~ 33:CN ~31:202111598623.X ~32:24/12/2021

2022/09100 ~ Complete ~54:STABILIZER COMPOSITIONS AND METHODS FOR USING SAME FOR PROTECTING ORGANIC MATERIALS FROM UV LIGHT AND THERMAL DEGRADATION ~71:Cytec Industries Inc., 5 Garret Mountain Plaza, WOODLAND PARK 07424, NJ, USA, United States of America ~72: CHO, Jian-Yang;ENG, J. Mon Hei;GUPTA, Ram B.;KHAWAM, Fadi;KOZAKIEWICZ, Joseph;RYLES, Roderick G.~ 33:US ~31:62/082,580 ~32:20/11/2014

2022/09086 ~ Complete ~54:A JOINT EXTRACTION METHOD OF DRUG ENTITIES AND RELATIONSHIPS BASED ON HIGH-LEVEL INTERACTION MECHANISM ~71:University of Electronic Science and Technology of China, No.2006 Xiyuan Avenue, West Hi-Tech Zone, Chengdu City, Sichuan Province, 611731, People's Republic of China ~72: Haohan Deng;Jiajing Zhu;Qiaoqin Li;Yongguo Liu;Yun Zhang~ 33:CN ~31:202210425479.8 ~32:21/04/2022 2022/09092 ~ Complete ~54:A DOUBLE TRACK LINKAGE FRUIT PICKING DEVICE ~71:Shenyang University of Technology, 111, Shenliao West Road, Economic & amp; Technological Development Zone, Shenyang, People's Republic of China ~72: QU Xinghua;WANG Heying~

2022/09101 ~ Complete ~54:INTERNATIONAL MIGRATION PREDICTION METHOD AND SYSTEM BASED ON GRAY MODEL HAVING POPULARITY LABEL ~71:PU, Tongzheng, No. 705, Dayangfu, Xiaobanqiao, Guandu District, Kunming City 650214, Yunnan Province, CHINA (P.R.C.), People's Republic of China;YANG, Yifei, No. 705, Dayangfu, Xiaobanqiao, Guandu District, Kunming City 650214, Yunnan Province, CHINA (P.R.C.), People's Republic of China ~72: PU, Tongzheng;YANG, Yifei~

2022/09103 ~ Complete ~54:ACRYLATE MODIFIED POLYURETHANE ADHESIVE HYDROGEL MATERIAL AND ITS PREPARATION METHOD ~71:SHANXI-ZHEDA INSTITUTE OF ADVANCED MATERIALS AND CHEMICAL ENGINEERING, No.79 Yingze West Street, Wanbailin District, Taiyuan, Shanxi, 030024, People's Republic of China;Taiyuan University of Technology, No.79 Yingze West Street, Wanbailin District, Taiyuan, Shanxi, 030024, People's Republic of China ~72: Hongwei He;Jiahao Shen;Jingxin Zhu;Lan Jia;Qiang Zheng;Zhiyi Zhang~ 33:CN ~31:202210089764.7 ~32:25/01/2022

2022/09088 ~ Complete ~54:A CU-AL ALLOY AND PLASTIC FORMING METHOD ~71:Institute of Applied Physics, Jiangxi Academy of Sciences, No. 7777, Changdong Avenue, High-tech development zone, Nanchang City, Jiangxi Province, 330096, People's Republic of China ~72: Wei Guo~

2022/09107 ~ Complete ~54:ULTRA-WIDEBAND WAVEGUIDE POWER SPLITTER ~71:SUQIAN UNIVERSITY, No. 399 Huanghe Nan Road, Suqian City, Jiangsu Province, 223800, People's Republic of China ~72: CHONGCAI XU;HAO DING;KUN LV;MIN LI~

2022/09110 ~ Complete ~54:DFIG COORDINATION CONTROL METHOD COMPATIBLE WITH FEEDER AUTOMATION ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province, 564500, People's Republic of China ~72: FENG HUAZHONG;HUANG WEI;LI LANG;LIU YUN;PAN FENG;SHEN SHIXUN;TIAN PENG;ZHOU KE~ 33:CN ~31:202210353579.4 ~32:06/04/2022

2022/09116 ~ Complete ~54:ARYLAMIDE DERIVATIVE HAVING ANTITUMOR ACTIVITY ~71:Chugai Seiyaku Kabushiki Kaisha, 5-1, Ukima 5-chome, Kita-ku, TOKYO 1158543, JAPAN, Japan ~72: AOKI, Toshihiro;HADA, Kihito;HATTORI, Kazuo;HYODO, Ikumi;ISSHIKI, Yoshiaki;KAWASAKI, Kenichi;TOMIZAWA, Masaki;WATANABE, Fumio~ 33:JP ~31:2020-008757 ~32:22/01/2020

2022/09108 ~ Complete ~54:INTEGRATED BASE STATION ANTENNA ~71:SUQIAN UNIVERSITY, No. 399 Huanghe Nan Road, Suqian City, Jiangsu Province, 223800, People's Republic of China ~72: CHONGCAI XU;HAIXIA LI;HONGWEI SHI;LEI CUI;LIN CHEN;MIN LI~

2022/09117 ~ Complete ~54:HERBICIDE COMPOSITIONS COMPRISING DICAMBA MONOETHANOLAMINE SALT AND A PPO-INHIBITOR ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, SAINT LOUIS 63167, MO, USA, United States of America ~72: JIMOH, Ganiyu~ 33:US ~31:62/961,809 ~32:16/01/2020;33:EP ~31:20157922.4 ~32:18/02/2020

2022/09120 ~ Complete ~54:FORMULATIONS OF HUMAN ANTI-TSLP ANTIBODIES AND METHODS OF USING THE SAME ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: LITOWSKI, Jennifer;ROSCHEN, Lauren~ 33:US ~31:62/978,201 ~32:18/02/2020

2022/09122 ~ Complete ~54:USE OF CYCLOSPORINE ANALOGUES FOR TREATING FIBROSIS ~71:HEPION PHARMACEUTICALS, INC., 399 Thornall Street, 1st Floor, Edison, United States of America ~72: FOSTER,

Robert T.;MAYO, Patrick R.;TREPANIER, Daniel J.;URE, Daren R.~ 33:US ~31:62/978,526 ~32:19/02/2020;33:US ~31:62/981,383 ~32:25/02/2020

2022/09130 ~ Complete ~54:NOVEL TRITERPENE DERIVATIVES AS HIV INHIBITORS ~71:HETERO LABS LIMITED, Plot No B-80 & amp; 81, India ~72: ADULLA, Panduranga Reddy;BANDI, Parthasaradhi Reddy;KASIREDDY, Bhaskar Reddy;KURA, Rathnakar Reddy~ 33:IN ~31:202041005909 ~32:11/02/2020

2022/09091 ~ Complete ~54:A RAW MATERIAL NANO-COMMINUTION MIXING DEVICE AND ITS METHOD ~71:Jilin Jianzhu University, No. 5088, Xincheng Avenue, Jingyue District, Changchun City, Jilin Province, 130118, People's Republic of China ~72: Shuai Zhang;Yabing Liu~

- APPLIED ON 2022/08/16 -

2022/09133 ~ Provisional ~54:AIR RELIEF VALVE ARRANGEMENT ~71:PLASTINTERNATIONAL (PROPRIETARY) LIMITED, 29 Bell Street Meadowdale, Germiston, Gauteng, South Africa ~72: LUCA AUGUSTO AMBROSI~

2022/09258 ~ Provisional ~54:CRIME EMERGENCY APP ~71:Mapula Mailula, 8126, South Africa ~72: Mapula Mailula~

2022/09146 ~ Complete ~54:BRICK FOR POWER GENERATION ~71:Mirza Faizan, 4017 Timberidge Drive, IRVING, Texas, 75038, United States of America ~72: Aamenah Saeed;Bilal Syed Ali Shah;Mehreen Afreen Syed;Mirza Faizan;Mirza Rizwan;Omar Aamir Memon;Rania Azeez;Yahya Siddiqui;Zain Khan~

2022/09154 ~ Complete ~54:STRESS MANAGEMENT SYSTEM ~71:Mirza Faizan, 4017 Timberidge Drive, IRVING, Texas, 75038, United States of America ~72: Bilaal Hassan;Bilal Nouiouat;Binu Varghese;Hiba Thayyil;Mansoor Hasan Khan;Marium Khan;Mirza Faizan;Mirza Rizwan;Saadia Asaf;Shafaat Ahsen;Sidra Ambreen;Vineet Anshuman~

2022/09183 ~ Complete ~54:COMBINATION TREATMENT OF STROKE WITH PLASMIN-CLEAVABLE PSD-95 INHIBITOR AND REPERFUSION ~71:NONO INC., 479A Wellington St., W Toronto, Ontario, M5V 1E7, Canada ~72: JONATHAN DAVID GARMAN;MICHAEL TYMIANSKI~ 33:US ~31:62/978,759 ~32:19/02/2020;33:US ~31:62/978,792 ~32:19/02/2020

2022/09190 ~ Complete ~54:MICROEMULSIONS WITH DICAMBA SALTS HAVING IMPROVED PROPERTIES ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST LOUIS 63167, MO, USA, United States of America ~72: JIMOH, Ganiyu~ 33:US ~31:62/962,338 ~32:17/01/2020;33:EP ~31:20157938.0 ~32:18/02/2020

2022/09193 ~ Complete ~54:QUASI-CO-LOCATION INFORMATION OBTAINING METHOD, COMMUNICATION NODE, AND STORAGE MEDIUM ~71:ZTE Corporation, ZTE Plaza, Keji Road South Hi-Tech Industrial Park, NANSHAN SHENZHEN 518057, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: GAO, Bo;LU, Zhaohua;WANG, Jianwei;XIAO, Huahua;ZHANG, Shujuan~ 33:CN ~31:202010054515.5 ~32:17/01/2020

2022/09195 ~ Complete ~54:DISPOSABLE SYSTEM AND METHOD FOR PREPARING A COMPRESSED HYDROGEL ~71:CUTISS AG, Grabenstrasse 11, Switzerland ~72: DONNAN, Jerry;HOLENSTEIN, Claude Nicolas;RONFARD, Vincent~ 33:US ~31:62/983,791 ~32:02/03/2020

2022/09196 ~ Provisional ~54:CONTRACT OR AGREEMENT TO SAFEGUARD AND KEEP HIDDEN PERSONAL AND PRIVATE INFORMATION ABOUT A RELATIONSHIP OR RELATING TO A SEXUAL PARTNER IN OR OUT OF LEGALLY RECOGNIZED UNION ~71:Dumisani Brian Mbuli, 98 Kerk Street,, South Africa ~72: Dumisani Brian Mbuli~ 2022/09145 ~ Complete ~54:WATER DESALINATION SYSTEM ~71:Mirza Faizan, 4017 Timberidge Drive, IRVING, Texas, 75038, United States of America ~72: Bilal Syed Ali Shah;Faizaan Syed Hussain;Mariya Kawish;Maryam Abid Bhojwani;Mirza Faizan;Mohammad Ayaan;Nimra Syeda Ali Shah~

2022/09147 ~ Complete ~54:METHOD AND APPARATUS FOR ENABLING COMMUNICATION OF DIFFERENTLY ABLED USERS ~71:Mirza Faizan, 4017 Timberidge Drive, Irving, Texas, 75038, United States of America ~72: Abdullah Ali Syed;Abdullah Hasani;Avaneesh Jakkireddy;Gautam Rao;Hamza Ali Zakir;Iliyan Ali Mithani;Mirza Faizan;Mishaal Qureshi;Nihal Yerubandi;Raj Kusumakar;Sanjiv Sridharan;Sheza Asif;Vihan Yerubandi;Yashas Vamsi Pradeep;Zayn Sohel Sachak~

2022/09156 ~ Complete ~54:METHOD FOR PRODUCING MIN PIG FEED BY FERMENTING HIGH-MOISTURE CORN ~71:INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, People's Republic of China ~72: CHEN, Heshu;FENG, Yanzhong;HE, Xinmiao;LIU, Di;LIU, Ziguang;TIAN, Ming;WANG, Wentao;WU, Saihui;YU, Xiaolong~

2022/09153 ~ Complete ~54:HYPOGLYCEMIC COMPOSITION MAINLY COMPOSED OF SPARASSIS LATIFOLIA, PREPARATION METHOD AND APPLICATION THEREOF ~71:Zhejiang Academy of Agricultural Sciences, Shiqiao Road 198#, Hangzhou, Zhejiang Province, People's Republic of China ~72: Aizhen HE;Guoying LV;Jianfei CHEN;Jinrong CHEN;Shizhu LIU;Yuntao LI;Zuofa ZHANG~

2022/09161 ~ Complete ~54:ARCHITECTURAL TEACHING SYSTEM ACHIEVING VIRTUALITY AND REALITY COMBINATION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHEN, Ruoxi;LI, Yuwei;REN, Shengnan;SHEN, Yuzhe;WANG, Tong;XING, Yan;ZHU, Xiaofei~

2022/09178 ~ Complete ~54:HETEROCYCLIC COMPOUNDS FOR MODULATING NR2F6 ~71:TES PHARMA S.R.L., Via Palmiro Togliatti 20 Loc. Taverne, 06073, Corciano, Italy ~72: ROBERTO PELLICCIARI~ 33:US ~31:62/981,418 ~32:25/02/2020;33:US ~31:63/139,262 ~32:19/01/2021

2022/09192 ~ Complete ~54:MULTI-DIMENSIONAL LIGAND-ASSISTED CHROMATOGRAPHY METHOD FOR THE PURIFICATION OF RARE EARTH ELEMENTS AND OTHER METAL IONS FROM WASTE MAGNETS ~71:DING, Yi, 2433 Neil Amstrong Drive #20, WEST LAFAYETTE 47906, IN, USA, United States of America;HARVEY, David, 3308 Pepermill Drive, WEST LAFAYETTE 47906, IN, USA, United States of America;Purdue Research Foundation, Office Of Technology Commercialization, 101 Foundry Drive, Suite 2500, WEST LAFAYETTE 47906, IN, USA, United States of America;WANG, Nien-hwa Linda, 20 Brynteg Estates, WEST LAFAYETTE 47907, IN, USA, United States of America ~72: DING, Yi;HARVEY, David;WANG, Nien-hwa Linda~ 33:US ~31:62/982,807 ~32:28/02/2020

2022/09140 ~ Complete ~54:MYOCARDIAL ABLATION DEVICE ~71:Shanghai University of Medicine And Health Sciences, No. 279, Zhouzhu Highway, Pudong New Area, Shanghai, 201318, People's Republic of China ~72: FANG, Wenjuan;LI, Yanfei;LIU, Shishi;NAN, Dehong;SHI, Jin;XU, Yixin;YANG, Zhifang~ 33:CN ~31:202210883182.6 ~32:26/07/2022

2022/09144 ~ Complete ~54:VEHICLE COLLISION AVOIDANCE SYSTEM ~71:Mirza Faizan, 4017 Timberidge Drive, IRVING, Texas, 75038, United States of America ~72: Ashton Rischer;Azal Amer;Connor Price-Gearey;Mirza Faizan;Mirza Rizwan;Nikitha Thoduguli;Rishab Sidamshetty;Ryan Xie;Shreeya Madhavanur~

2022/09159 ~ Complete ~54:MTORC MODULATORS AND USES THEREOF ~71:AEOVIAN PHARMACEUTICALS, INC., 8001 Redwood Boulevard, Novato, California, 94945, United States of America ~72: ALEXANDRE FROIDBISE;GUILLAUME EPPE;IAN J MASSEY;STELIOS T TZANNIS~ 33:US ~31:62/795,482 ~32:22/01/2019

2022/09166 ~ Complete ~54:POMFRET BONE EJIAO AND THE PREPARATION METHOD THEREOF ~71:Hainan Tropical Ocean University, Yucai Rd 1#, Jiyang District, Sanya, Hainan, People's Republic of China;Sanya Yazhou Bay South China Sea Deep Water Research Institute Co., Ltd, No. 201-02, Second Floor, Building 2, Yazhou Bay Science and Technology City Industrial Park, Yazhou District, Sanya City, Hainan Province, People's Republic of China ~72: Hu Yaqin;Hu Zhiheng;Lu Zijing;Xu Yuanzhe;Yang Xin~

2022/09172 ~ Complete ~54:AGRICULTURAL IMPLEMENTS HAVING ROW UNIT POSITION SENSORS AND AT LEAST ONE ADJUSTABLE WHEEL, AND RELATED CONTROL SYSTEMS AND METHODS ~71:AGCO CORPORATION, 4205 River Green Parkway, Duluth, United States of America ~72: DUERKSEN, Ross;FANSHIER, Benjamin;FIGGER, Robert;RANS, Monte;UNRAU, Zane~ 33:US ~31:63/007,114 ~32:08/04/2020

2022/09174 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING AND PREVENTING PREKALLIKREIN-ASSOCIATED CONDITIONS ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: ALEXANDER, Veronica, J.;BORDONE, Laura;NEWMAN, Kenneth;SCHNEIDER, Eugene;VINEY, Nicholas, J.~ 33:US ~31:62/989,427 ~32:13/03/2020

2022/09180 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING LONG COVID ~71:AIM IMMUNOTECH INC., 2117 SW Highway, 484, Ocala, Florida, 34473, United States of America ~72: DAVID R STRAYER;DIANE L YOUNG;THOMAS K EQUELS~ 33:US ~31:63/035,681 ~32:05/06/2020;33:US ~31:63/125,195 ~32:14/12/2020

2022/09186 ~ Complete ~54:METHOD FOR PRODUCING A PRECIOUS METAL-CONTAINING COLLECTOR ALLOY OR PURE SILVER ~71:HERAEUS DEUTSCHLAND GMBH & CO. KG, Heraeusstr. 12-14, Germany ~72: BAUER-SIEBENLIST, Bernhard;FRIEDRICH, Karl Bernhard;RÖHLICH, Christoph;VIETEN, Diana;WINKLER, Holger~ 33:EP ~31:20157810.1 ~32:18/02/2020

2022/09187 ~ Complete ~54:MULTIVALENT STREPTOCOCCUS VACCINES ~71:INVENTPRISE, LLC, 18133 NE 68th Street, d150, United States of America;THE BILL & amp; MELINDA GATES FOUNDATION, PO Box 23350, United States of America ~72: DATTA, Anup K.;KAPRE, Subhash V.;KLUGMAN, Keith P.~ 33:US ~31:62/962,535 ~32:17/01/2020

2022/09138 ~ Provisional ~54:COMPOSITE FRICTION MATERIAL ~71:Durban University of Technology, STEVE BIKO CAMPUS, 121 STEVE BIKO ROAD, South Africa ~72: Krishnan Kanny;Oluwatoyin Joseph Gbadeyan~

2022/09143 ~ Complete ~54:LACTIPLANTIBACILLUS PLANTARUN CAPABLE OF RELIEVING THE HARM OF FRYING OIL AND APPLICATION THEREOF ~71:UNIVERSITY OF SHANGHAI FOR SCIENCE AND TECHNOLOGY, No. 516, Jungong Road, Shanghai, People's Republic of China ~72: AI Lianzhong;LIN Xiangna;WANG Guangqiang;XIA Yongjun;XIONG Zhiqiang;ZHANG Hui~

2022/09179 ~ Complete ~54:ROBOTIZED LADLE TURRET SYSTEM ~71:VESUVIUS GROUP, S.A., rue de Douvrain 17, 7011, Ghlin, Belgium ~72: DAMIEN DELSINE;JEAN-LUC RENARD;XINGQI FAN~ 33:EP ~31:20157812.7 ~32:18/02/2020

2022/09182 ~ Complete ~54:ELECTRONIC CONDUCTANCE IN BIOELECTRONIC DEVICES AND SYSTEMS ~71:ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, 1475 N. Scottsdale Road, Suite 200, Scottsdale, Arizona, 85257, United States of America ~72: JOSHUA SADAR;QUAN QING;STUART LINDSAY~ 33:US ~31:62/975,748 ~32:12/02/2020

2022/09191 ~ Complete ~54:HERBICIDE COMPOSITIONS WITH AUXIN HERBICIDE MONOETHANOLAMINE SALTS WITH IMPROVED PROPERTIES ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST.

LOUIS 63167, MO, USA, United States of America ~72: JIMOH, Ganiyu~ 33:US ~31:62/962,330 ~32:17/01/2020;33:EP ~31:20157936.4 ~32:18/02/2020

2022/09148 ~ Complete ~54:GROUTING METHOD FOR REINFORCING SURROUNDING ROCK OF THREE-SOFT MINING ROADWAY ~71:Anhui University of Science and Technology, 168 Taifeng street, Tianjiaan District, Huainan City, Anhui Province, People's Republic of China;Anhui chen'an Mine Support Technology Co., Ltd., 701, 7 / F, building A, entrepreneurship and innovation center, Taining Street, Shannan New District, Huainan City, Anhui Province, People's Republic of China;Huaneng Coal Technology Research Co., Ltd., Room 301, floor 3, building 8, zone 17, No. 188, South Fourth Ring West Road, Fengtai District, Beijing, People's Republic of China;Shaanxi mining branch of Huaneng Coal Industry Co., Ltd., 3 / F, building 4, Xi'an Thermal Power Research Institute, No. 136 Xingqing Road, Beilin District, Xi'an City, Shaanxi Province, People's Republic of China;Xichuan coal mine branch of Huaneng Tongchuan Zhaojin Coal Power Co., Ltd., Yumen village, Miaowan Town, Yaozhou District, Tongchuan City, Shaanxi Province, People's Republic of China ~72: CAO Feifei;HAO Pengwei;JING Laiwang;JING Wei;LI Hanhan;LI Yongyuan;LIU Chengbo;LU Xingyi;WANG Yilong;XUE Weipei;ZHANG Duxue;ZHANG Lei;ZHOU Xiang~ 33:CN ~31:202111088550X ~32:16/09/2021

2022/09157 ~ Complete ~54:CLEFT GRAFTING METHOD OF PINUS KORAIENSIS ~71:SHAANXI ACADEMY OF FORESTRY SCIENCES, NO. 233, XIGUANZHENG STREET, People's Republic of China ~72: CAO, Qingxi;CAO, Shuangcheng;CHAI, Hongye;GAO, Chao;GAO, Dongzhi;LI, Jiangning;LI, Junhang;LI, Rong;LIU, Donglin;SHEN, Honglin;SHI, Changchun;SHI, Sheqiang;XI, Yanyun;YAO, Shuxiang;ZHAO, Xueqing~

2022/09160 ~ Complete ~54:ARCHITECTURAL INDOOR STAIR CAPABLE OF BEING DISASSEMBLED AND ASSEMBLED ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHEN, Ruoxi;CHEN, Zhuo;GAN, Taoran;LIU, Huapei;SHEN, Hongtian;XIN, Yicheng;ZHU, Xiaofei~

2022/09162 ~ Complete ~54:NON-CONTACT MAINTENANCE DEVICE FOR BROKEN ROAD ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: JI, Xiang;LV, Dawei;WANG, Xibin;XU, Jingsheng;YANG, Mingfei~

2022/09164 ~ Complete ~54:MECHANICAL-WATER JET COMBINED ROOT CUTTER FOR GRASSLAND IMPROVEMENT ~71:INNER MONGOLIA UNIVERSITY OF TECHNOLOGY, No. 49, Aimin Street, Xincheng District, Hohhot City, the Inner Mongolia Autonomous Region, People's Republic of China ~72: CEN Haitang;CHEN Yuhong;LIU Jianlan;QIN Jianguo;WEI Huijun~ 33:CN ~31:202210835202.2 ~32:15/07/2022

2022/09169 ~ Complete ~54:PORTABLE GAZEBO ~71:ROY NEVILLE MANN, 20 Trotter Road, South Africa ~72: MANN, ROY NEVILLE~ 33:ZA ~31:2021/05817 ~32:16/08/2021

2022/09176 ~ Complete ~54:ADHESIVELY ANCHORED ROCK BOLT ASSEMBLY ~71:INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, Aeroton, South Africa ~72: ABREU, Rual;PASTORINO, Paolo Ettore~ 33:ZA ~31:ZA 2020/01766 ~32:01/04/2020

2022/09131 ~ Provisional ~54:A ROCKFALL PROTECTION SYSTEM ~71:RAND YORK CASTINGS (PTY) LIMITED, 4 Lagoon Drive, South Africa ~72: CORBETT, Justin~

2022/09142 ~ Complete ~54:CARDIAC INTERVENTIONAL THERAPY APPARATUS ~71:Shanghai University of Medicine And Health Sciences, No. 279, Zhouzhu Highway, Pudong New Area, Shanghai, 201318, People's Republic of China ~72: FANG, Wenjuan;LI, Jue;LI, Yanfei;WANG, Cuiping;YANG, Lijun~ 33:CN ~31:202210880779.5 ~32:21/07/2022

2022/09151 ~ Complete ~54:METHOD FOR QUICKLY DETECTING MALIC ACID AS WAX GOURD TASTE DECISIVE FACTOR BASED ON NEAR-INFRARED SPECTROSCOPY ~71:Vegetable Research Institute, Guangdong Academy of Agricultural Sciences, Jinying Road, Tianhe District, Guangzhou, Guangdong, People's Republic of China ~72: CHEN Fengshi;LU Sen;WAN Xiaotong;XIE Dasen;XUE Shudan;ZHONG Yujuan~

2022/09168 ~ Complete ~54:MOBILE DUST SUPPRESSION APPARATUS ~71:SLP HOLDINGS INCORPORATED, 6S270 DENSMORE ROAD, AURORA, United States of America ~72: LULEWICZ, TIMOTHY RICHARD~

2022/09170 ~ Complete ~54:BEVERAGE CONTAINER ~71:DE KLERK, John Christopher, 8 Regency Crescent, Leopard Rock Estate, Platterkloof, South Africa;GOLDING, Andrew Mark, Wittebomen-Main House, 11 Pear Lane, Constantia, South Africa ~72: DE KLERK, John Christopher;GOLDING, Andrew Mark~ 33:ZA ~31:2021/05089 ~32:20/07/2021

2022/09175 ~ Complete ~54:ATMOSPHERIC WATER GENERATOR ~71:CIRRUS REHOS RENEWABLE POWER AND WATER (PTY) LTD, Suite 103 Wrenrose Court, 64 St Andrew Street, Birdhaven, South Africa ~72: ENSLIN, Johan Adam;MURRAY, Mike~ 33:ZA ~31:2020/00358 ~32:20/01/2020

2022/09185 ~ Complete ~54:ORAL PEPTIDE ADMINISTRATION ~71:SYDNEY LOCAL HEALTH DISTRICT, 575 Canterbury Road Campsie, New South Wales, 2194, Australia;THE UNIVERSITY OF SYDNEY, The University of Sydney, Sydney, New South Wales, 2006, Australia ~72: DAVID GEORGE LE COUTEUR;NICHOLAS HUNT;VICTORIA CARROLL COGGER~ 33:AU ~31:2020900129 ~32:17/01/2020

2022/09189 ~ Complete ~54:COTTON CROP ROW DETECTION METHOD AND APPARATUS BASED ON COMPUTER VISION, AND STORAGE MEDIUM ~71:ANHUI ZHONGKE INTELLIGENT PERCEPTION TECHNOLOGY CO., LTD., LIU, Yan, Room 225, Building 2, Chuangye Street, 8 Longhu Road, Sanshan Ditrict, Wuhu, Anhui, 241000, People's Republic of China ~72: WU, Xiaowei~

2022/09158 ~ Complete ~54:POSITIONING ARRANGEMENT ~71:Vortex Innovation Worx (Pty) Ltd, 4 Paddy Close,, South Africa ~72: Bester Jacobus PANSEGROUW~ 33:ZA ~31:2021/05906 ~32:18/08/2021

2022/09167 ~ Complete ~54:A LACTOBACILLUS PLANTARUM CAPABLE OF EFFECTIVELY RELIEVING DIABETES ~71:UNIVERSITY OF SHANGHAI FOR SCIENCE AND TECHNOLOGY, No. 516 Jungong Road, Yangpu District, People's Republic of China ~72: AI, Lianzhong;WANG, Guangqiang;XIA, Yongjun;XIONG, Zhiqiang;ZHANG, Hui~

2022/09171 ~ Complete ~54:8-[6-[3-(AMINO)PROPOXY]-3-PYRIDYL]-1 -ISOPROPYL-IMIDAZO[4,5-C]QUINOLIN-2-ONE DERIVATIVES AS SELECTIVE MODULATORS OF ATAXIA TELANGIECTASIA MUTATED (ATM) KINASE FOR THE TREATMENT OF CANCER ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: BARLAAM, Bernard Christophe;EATHERTON, Andrew John;HUNT, Thomas Anthony;PIKE, Kurt Gordon~ 33:GB ~31:1516504.6 ~32:17/09/2015

2022/09173 ~ Complete ~54:AGRICULTURAL IMPLEMENTS HAVING ROW UNIT POSITION SENSORS AND ACTUATORS CONFIGURED TO ROTATE TOOLBARS, AND RELATED CONTROL SYSTEMS AND METHODS ~71:AGCO CORPORATION, 4205 River Green Parkway, Duluth, United States of America ~72: DUERKSEN, Ross;FANSHIER, Benjamin;FIGGER, Robert;RANS, Monte;UNRAU, Zane~ 33:US ~31:63/007,182 ~32:08/04/2020

2022/09181 ~ Complete ~54:APOAEQUORIN AND CURCUMIN CONTAINING COMPOSITIONS AND METHODS ~71:QUINCY BIOSCIENCE, LLC, 726 Heartland Trail, Suite 300, Madison, Wisconsin, 53717, United States of America ~72: MARK Y UNDERWOOD~ 33:US ~31:62/980,785 ~32:24/02/2020

2022/09184 ~ Complete ~54:HYDRATABLE COSMETIC COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ALAN MICHAEL WEST;BRIAN ANDREW CROTTY;HASIBA BEKTO;TEANOOSH MOADDEL~ 33:EP ~31:20169457.7 ~32:14/04/2020

2022/09194 ~ Complete ~54:SYSTEM AND METHOD FOR MANAGEMENT SYSTEM DATA AGGREGATION AND TRANSFORMATION USING CLIENT-SPECIFIC CRITERIA ~71:OPTX Solutions, LLC, 5960 S. Rainbow Blvd., Suite 100, LAS VEGAS 89119, NV, USA, United States of America ~72: HARTWIG, Michael Roy;HERMOGENES, Jerome~ 33:US ~31:62/962,084 ~32:16/01/2020

2022/09149 ~ Complete ~54:PERFORMANCE PREDICTION METHOD OF ELECTROMECHANICAL EQUIPMENT BASED ON PROBABILISTIC DEEP NEURAL NETWORK MODEL ~71:BEIJING UNIVERSITY OF CIVIL ENGINEERING AND ARCHITECTURE, No. 1 Zhanlanguan Road, Xicheng District, Beijing, People's Republic of China ~72: LIN Yunlei;WANG Jinhai;YANG Jianwei;YAO Dechen~ 33:CN ~31:2022109554055 ~32:10/08/2022

2022/09150 ~ Complete ~54:DIHYDROXYETHYL BISPHENOL A ETHER AND PREPARATION METHOD THEREOF ~71:Zhejiang Huangma Shangyi New Material Co., Ltd., No. 8, Jingqi East Road, Shangyu economic and Technological Development Zone, Hangzhou Bay, Shangyu District, Shaoxing City, Zhejiang Province, People's Republic of China;Zhejiang Huangma Special Surfactant Research Institute Co., Ltd., Zhangzhen industrial new area, Shangyu District, Shaoxing City, Zhejiang Province, People's Republic of China;Zhejiang Huangma Technology Co., Ltd., Hangzhou Bay Shangyu economic and Technological Development Zone, Shangyu District, Shaoxing City, Zhejiang Province, People's Republic of China;Zhejiang Lvkean Chemistry Co., Ltd, Shangyu economic and Technological Development Zone, Hangzhou Bay, Shangyu City, Zhejiang Province, People's Republic of China ~72: JIN Yifeng;KOU Ran;WANG Ma Jishi;WANG Weisong;ZHANG Yu~

2022/09136 ~ Provisional ~54:STRUCTURAL PRODUCT ~71:KIRK, William James, 34 Laboria Roar, Isandovale, South Africa ~72: KIRK, William James;SEUTE, Horst~

2022/09139 ~ Complete ~54:OCCLUDER FOR TREATING HEART DISEASE ~71:Shanghai University of Medicine And Health Sciences, No. 279, Zhouzhu Highway, Pudong New Area, Shanghai, 201318, People's Republic of China ~72: CHEN, Xiaoyan;LI, Yanfei;NING, Zhongping;SHEN, Junwei~ 33:CN ~31:202210883258.5 ~32:26/07/2022

2022/09134 ~ Provisional ~54:A WATER BASED PAINT STRIPPER COMPOSITION, AND METHOD OF MANUFACTURING THE COMPOSITION ~71:FONZOPLEX (PTY) LTD, Equity Park - Block A, 257 Brooklyn Road, Brooklyn, Gauteng, 0081, South Africa ~72: GEORGE RONALD VAN DER WESTHUIZEN;JASON JOSEPH RANKIN~

2022/09152 ~ Complete ~54:A DUSTPROOF BLACKBOARD FOR TEACHING ~71:Beibu Gulf University, No. 12 Binhai Avenue, Binhai New Town, Qinzhou City, Guangxi, People's Republic of China ~72: DENG SHAOYUN;QIU QINGHUA~

2022/09155 ~ Complete ~54:KASP MOLECULAR MARKERS ASSOCIATED WITH THE MAJOR QTL FOR INOSITOL CONTENT IN PUMPKIN AND THEIR APPLICATIONS ~71:Vegetable Research Institute, Guangdong Academy of Agricultural Sciences, No. 66, Jinying Road, Tianhe District, Guangzhou, Guangdong, People's Republic of China ~72: DU Hu;HUANG Hexun;LIN Yue;LU Sen;XIE Dasen;XUE Shudan;YAO Chunpeng;ZHONG Yujuan~

2022/09163 ~ Complete ~54:METHOD FOR ELECTROCHEMICAL RECOGNITION AND DETECTION OF ASPARTIC ACID ENANTIOMER AND APPLICATION THEREOF ~71:Changzhou Institute of Technology, No.

666 Liaohe Road, Xinbei District, Changzhou City, Jiangsu Province, 213032, People's Republic of China ~72: CHEN, Xiaohui;CHEN, Yiyi;KONG, Xianqiang;SHANG, Jiajing~

2022/09165 ~ Complete ~54:A FULL-MECHANICAL LIFTING CLUTCH DEVICE AND THE HOISTING METHOD THEREOF ~71:Chang'an University, Chang'an University, Middle South Second Ring Road, Beilin District, Xi'an City, Shaanxi Province, People's Republic of China;Taian Qingsong Meter Co.,Ltd, Taian Qingsong Meter Co.,Ltd, East of Nantianmen Street, Taian High-tech Zone, Shandong Province, People's Republic of China ~72: Gao Jin;Hu Xiaofeng;Huang Yan;Peng Tingting;Sun Jian;Yin Guangqin;Yu Yang;Zhai Hengtao~

2022/09177 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ALLOGENEIC TRANSPLANTATION ~71:MAGENTA THERAPEUTICS, INC., 100 Technology Square, 5th Floor, Cambridge, Massachusetts, 02139, United States of America ~72: ANTHONY BOITANO;GEOFFREY O GILLARD;JENNIFER LYNN PROCTOR;MICHAEL COOKE;SHARON HYZY~ 33:US ~31:62/978,141 ~32:18/02/2020;33:US ~31:63/062,845 ~32:07/08/2020

2022/09188 ~ Complete ~54:ASSEMBLED UNIT HAVING LOCKING MECHANISM ~71:LOW, Engchoon, Unit Wealth Asia Pacific Pte Ltd, Singapore ~72: LOW, Engchoon~

2022/09135 ~ Provisional ~54:GRAPHYFREAK WATER DESALINATION SYSTEM ~71:Lebohang Lebeea, 11869 Dingalo street, South Africa ~72: Lebohang Lebeea~

2022/09132 ~ Provisional ~54:GLACIER BY SALLIE HEEL FITMENT ~71:MOSALE JACOBETH MALAU, UNIT 8 RIVERSIDE ESTATE 17 MARTHINUS OOSTHUIZEN STREET, South Africa ~72: MOSALE JACOBETH MALAU~

2022/09137 ~ Provisional ~54:A SECURE ENERGY TRANSACTION SYSTEM ~71:GREEN SHARE ENERGY (PTY) LTD, WEDGEFIELD OFFICE PARK, 17 MUSWELL ROAD, BRYANSTON, South Africa ~72: DESMOND THEMBA WILLIAMS~

2022/09141 ~ Complete ~54:MYOCARDIAL CUTTER ~71:Shanghai University of Medicine And Health Sciences, No. 279, Zhouzhu Highway, Pudong New Area, Shanghai, 201318, People's Republic of China ~72: MA, Linlin;SUN, Baihe;WU, Yue~ 33:CN ~31:202210864433.6 ~32:21/07/2022

- APPLIED ON 2022/08/17 -

2022/09197 ~ Provisional ~54:LAUNDRY LIQUID DETERGENT FOR PANTIES ~71:Itumeleng Mokeretla, 362 Broadacres Drive, South Africa ~72: Itumeleng Mokeretla~

2022/09205 ~ Complete ~54:CULTURE SUBSTRATE AND CULTURE METHOD OF AURICULARIA CORNEA ~71:Kunming Institute of Botany, Chinese Academy of Sciences, 132 Lanhei Road, Kunming City, Yunnan, 650201, People's Republic of China ~72: Basnayake Mudiyanselage Asanka Ranjana BANDARA;Jianchu XU;Peter E. MORTIMER;Shixi WU;Tianfu ZHANG;Zhiqiang GE~

2022/09225 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, AND CORRESPONDING ENCODING AND DECODING METHODS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;MA, Xiang;YANG, Haitao;ZHAO, Yin~ 33:US ~31:62/698,924 ~32:16/07/2018;33:US ~31:62/698,991 ~32:17/07/2018

2022/09228 ~ Complete ~54:VIBRATORY CONVEYOR FOR BULK MATERIAL ~71:Vibra Maschinenfabrik Schultheis GmbH & amp; Co., Im grossen Ahl 50, 63075, Offenbach, Germany ~72: Winfried Schultheis~ 33:EP ~31:21193891.5 ~32:30/08/2021

2022/09234 ~ Complete ~54:NOVEL ADDITIVES FOR AGROCHEMICAL FORMULATIONS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: CLASEN, Frank;KUHN, Steffen;MEIER, Wolfgang;MERTOGLU, Murat;NASH, Gina;RATHS, Hans-Christian;SCHREIECK, Jochen~ 33:US ~31:62/964,861 ~32:23/01/2020;33:US ~31:62/964,868 ~32:23/01/2020;33:US ~31:62/964,874 ~32:23/01/2020;33:EP ~31:20172833.4 ~32:05/05/2020;33:EP ~31:20172834.2 ~32:05/05/2020;33:EP ~31:20172837.5 ~32:05/05/2020;33:EP ~31:20200249.9 ~32:06/10/2020

2022/09243 ~ Complete ~54:NOVEL POLYPEPTIDE AND METHOD FOR PRODUCING L-LEUCINE USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, Dongho-ro, Jung-gu, Seoul, 04560, Republic of Korea ~72: HAYUN LEE;JI HYE LEE;JIHYUN SHIM;JU EUN KIM;SUNG GUN LEE~ 33:KR ~31:10-2020-0060578 ~32:20/05/2020

2022/09246 ~ Complete ~54:AMINO ACID SURFACTANTS ~71:ADVANSIX RESINS & amp; CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: ANDREI HONCIUC;EDWARD ASIRVATHAM;VOICHITA MIHALI~ 33:US ~31:62/967,175 ~32:29/01/2020

2022/09251 ~ Complete ~54:ANTI-E-SELECTIN ANTIBODIES, COMPOSITIONS AND METHODS OF USE ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: APGAR, James Reasoner;BOWLEY, Sheryl Rubio;ELWELL, Joanne Elizabeth-Ayriss;LIN, Laura;NARULA, Jatin;PARNG, Chuenlei;PITTMAN, Debra Denene;RAKHE, Swapnil;YU, Chihyi Vincent~ 33:US ~31:62/965,688 ~32:24/01/2020;33:US ~31:63/104,213 ~32:22/10/2020;33:US ~31:63/121,467 ~32:04/12/2020

2022/09207 ~ Complete ~54:RAPID IDENTIFICATION KIT, SPECIAL FEED BOTTLE AND METHOD FOR DRUG RESISTANCE OF SPODOPTERA FRUGIPERDA ~71:Guangzhou Jinnong Technology Development Co., Ltd., Dabanlong, Timian Town, Huadu District, Guangzhou, Guangdong, 510870, People's Republic of China;South China Agricultural University, 483 Wushan Road, Tianhe District, Guangzhou, 510642, People's Republic of China;Zhongkai University of Agriculture and Engineering, No.388, Guangxin Road, Zhongluotan Town, Baiyun District, Guangzhou, Guangdong, 510225, People's Republic of China ~72: Chang'an Huang;Dongmei Cheng;Hanhong Xu;Jiao Ding;Suqing Huang;Zhixiang Zhang~

2022/09209 ~ Complete ~54:AIR POLLUTION MONITORING DEVICE ~71:SUN, Juan, No. 175 Huju Road, Gulou District, Nanjing City, Jiangsu Province, 210009, People's Republic of China ~72: SUN, Juan~

2022/09213 ~ Complete ~54:MULTIFUNCTIONAL INTELLIGENT AUTOMATIC ASSEMBLY PRODUCTION LINE ~71:Zhengzhou University of Aeronautics, Daxue Middle Road No.2,Erqi District, Zhengzhou City, Henan Province, People's Republic of China ~72: LIU Huizhen;LIU Xing;ZHANG Guohui;ZHU Jie~

2022/09199 ~ Complete ~54:PRODUCTION AND DUST REMOVING DEVICE FOR BUILDING INSULATION BOARD ~71:ANHUI SONGDING BUILDING MATERIALS CO., LTD., 150 meters west of the intersection of Jiude Road and Gubei Road, Lu'an Economic and Technological Development Zone, People's Republic of China ~72: Ming HUANG~

2022/09202 ~ Complete ~54:BUILDING INDOOR FIRE HYDRANT CABINET ~71:ANHUI SONGDING BUILDING MATERIALS CO., LTD., 150 meters west of the intersection of Jiude Road and Gubei Road, Lu'an Economic and Technological Development Zone, People's Republic of China ~72: Ming HUANG~

2022/09208 ~ Complete ~54:APPARATUS FOR CONTROLLING RODENTS ON GRASSLAND ~71:Northwest Institute of Plateau Biology, Chinese Academy of Sciences, No. 23, Xinning Road, Chengxi District, Xining City, Qinghai Province, 810008, People's Republic of China ~72: LI, Jing;LIN, Fangzhou;QU, Jiapeng;TAN, Zhaoxian;ZHANG, Yan;ZHOU, Huakun~ 33:CN ~31:202210676237.6 ~32:15/06/2022 2022/09214 ~ Complete ~54:GRADING AND SCREENING EQUIPMENT FOR FINE-GRAINED MATERIALS ~71:North China University of Science and Technology, 21 Bohai Road, Caofeidian Xincheng, Tangshan, Hebei, 063210, People's Republic of China ~72: NIU Fusheng;ZHANG Jinxia~

2022/09218 ~ Complete ~54:PREPARATION METHOD OF DICTYOPHORA RUBROVOLVATA PASTE ~71:Guizhou Institute of Biology, No. 1 Longjiang Street, HuaXi District, Guiyang City, Guizhou Province, People's Republic of China;Zhijin Huiyuan Characteristic Agriculture Co.,Ltd, No. 41 Shuangyan Street, Zhijin County, Bijie City, Guizhou Province, People's Republic of China ~72: Chen Shaofen;Kang Chao;LiPeng;Luo Liping;Wang Wankun;Wu Xianlin;Xiang Zhun;Yang Ling;Zeng Weijun;Zheng xuan~

2022/09219 ~ Complete ~54:METHOD FOR PREPARING AGROCYBE AEGIRITA MEDIUM FROM TOBACCO STEMS AND THE APPLICATION THEREOF ~71:Guizhou Guifu Mushroom Industry Development Co.,Ltd, Zaojiao Ping Street, Yuping County, Tongren City, Guizhou Province, People's Republic of China;Guizhou Institute of Biology, No. 1 Longjiang Street, HuaXi District, Guiyang City, Guizhou Province, People's Republic of China ~72: Kang Chao;Li Jing;Li Wei;LiPeng;Lin Zhaohong;Luo Liping;Wang Wankun;Xiang Zhun;Yang Ling;Zeng Weijun;Zheng xuan;Zhou Jinming~

2022/09229 ~ Complete ~54:A DRUG RELOCATION METHOD AND SYSTEM BASED ON DRUG CLASSIFICATION GRAPH NEURAL NETWORK ~71:University of Electronic Science and Technology of China, No.2006 Xiyuan Avenue, West Hi-Tech Zone, Chengdu City, Sichuan Province, 611731, People's Republic of China ~72: Chong Fu;Jiajing Zhu;Qiaoqin Li;Sicheng Zhao;Xin Lu;Yongguo Liu;Yun Zhang~ 33:CN ~31:202210219786.0 ~32:08/03/2022

2022/09235 ~ Complete ~54:BEAM FAILURE RECOVERY FOR SINGLE DCI-BASED M-TRP URLLC TRANSMISSIONS ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 20000 MARINER AVENUE, SUITE 200, TORRANCE, CA 90503, USA, United States of America ~72: HUANG, Lei;KANG, Yang;KOH, Tien-Ming, Benjamin;NISHIO, Akihiko;OGAWA, Yoshihiko;SUZUKI, Hidetoshi;TRAN, Xuan Tuong~ 33:SG ~31:10202001583T ~32:22/02/2020

2022/09240 ~ Complete ~54:DATA COMPRESSION FOR ARTIFICIAL INTELLIGENCE-BASED BASE CALLING ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: DUTTA, Anindita;JAGANATHAN, Kishore;KASHEFHAGHIGHI, Dorna;KIA, Amirali;PARNABY, Gavin Derek;VESSERE, Gery~ 33:US ~31:62/979,399 ~32:20/02/2020;33:US ~31:62/979,411 ~32:20/02/2020;33:US ~31:17/179,395 ~32:18/02/2021;33:US ~31:17/180,480 ~32:19/02/2021;33:US ~31:17/180,513 ~32:19/02/2021

2022/09244 ~ Complete ~54:METHOD FOR RECOVERING METAL ZINC FROM SOLID METALLURGICAL WASTES ~71:ENGITEC TECHNOLOGIES S.P.A., Via Borsellino e Falcone, 31, 20026, Novate Milanese (MI), Italy ~72: ANDREA GRASSI;EDOARDO GUERRINI;MASSIMO GIUSEPPE MACCAGNI~ 33:IT ~31:10202000002515 ~32:10/02/2020

2022/09248 ~ Complete ~54:AMINO ACID SURFACTANTS ~71:ADVANSIX RESINS & amp; CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: ANDREI HONCIUC;EDWARD ASIRVATHAM;VOICHITA MIHALI~ 33:US ~31:62/967,170 ~32:29/01/2020

2022/09249 ~ Complete ~54:AMINO ACID SURFACTANTS ~71:ADVANSIX RESINS & amp; CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: ANDREI HONCIUC;EDWARD ASIRVATHAM;VOICHITA MIHALI~ 33:US ~31:62/967,179 ~32:29/01/2020

2022/09253 ~ Complete ~54:ANTI-ADRENOMEDULLIN (ADM) ANTIBODY OR ANTI-ADM ANTIBODY FRAGMENT OR ANTI-ADM NON-IG SCAFFOLD FOR USE IN THERAPY OR PREVENTION OF SHOCK

~71:AdrenoMed AG, Neuendorfstraße 15A, HENNIGSDORF 16761, GERMANY, Germany ~72: BERGMANN, Andreas~ 33:EP ~31:20159913.1 ~32:27/02/2020

2022/09200 ~ Complete ~54:CABLE PAY-OFF DEVICE FOR BUILDING CONSTRUCTION ~71:ANHUI SONGDING BUILDING MATERIALS CO., LTD., 150 meters west of the intersection of Jiude Road and Gubei Road, Lu'an Economic and Technological Development Zone, People's Republic of China ~72: Ming HUANG~

2022/09203 ~ Complete ~54:ELECTROSURGICAL CUTTING TOOL ~71:CREO MEDICAL LIMITED, Riverside Court, Beaufort Park Way, Chepstow, Monmouthshire, NP16 5UH, United Kingdom ~72: CHRISTOPHER PAUL HANCOCK;LOUIS TURNER;MALCOLM WHITE;PATRICK BURN;SANDRA MAY SWAIN;STEVEN MORRIS~ 33:GB ~31:1608679.5 ~32:17/05/2016

2022/09206 ~ Complete ~54:METHOD FOR SIMULTANEOUSLY DETERMINING CONCENTRATIONS OF 7 COMPONENTS ABSORBED INTO BLOOD IN EUCOMMIA ULMOIDES EXTRACT ~71:Guizhou Medical University, University Town, Gui'an New District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: CHEN, Siying;CHEN, Yi;GONG, Zipeng;HUANG, Jing;HUANG, Yong;JIN, Yang;LI, Mengting;LI, Yueting;PENG, Jianqing;ZHENG, Lin~

2022/09215 ~ Complete ~54:MUSCA DOMESTICA FEEDING DEVICE FOR QUICKLY COLLECTING EGGS AND CHANGING FEEDS AND FEEDING METHOD THEREOF ~71:SHANDONG AGRICULTURAL UNIVERSITY, No.61, Daizong Street, Taian, Shandong Province, People's Republic of China ~72: CHEN Menglei;LU Wenzhi;TAN Yanying;WAN Zixuan;XIE Lixia;YAN Yi;ZHANG Na;ZHANG Shuo~

2022/09220 ~ Complete ~54:SOCKET TYPE BOLT CONNECTION JOINT STRUCTURE FOR A MODULAR BUILDING WITH A STEEL STRUCTURE ~71:Hunan Construction Engineering Group No.2 Co., Ltd., No. 135, Yuejin Road, Tianxin District, Changsha City, Hunan Province, People's Republic of China ~72: Chao ZHOU;Jiangying WANG;Mingliang ZHANG;Qiliang WANG;Wei LIU~

2022/09221 ~ Complete ~54:METHOD FOR PREPARING SUGARED AGROCYBE AEGIRITA ~71:Guizhou Guifu Mushroom Industry Development Co.,Ltd, Zaojiao Ping Street, Yuping County, Tongren City, Guizhou Province, People's Republic of China;Guizhou Institute of Biology, No. 1 Longjiang Street, HuaXi District, Guiyang City, Guizhou Province, People's Republic of China ~72: Kang Chao;Li Jing;Li Wei;LiPeng;Lin Zhaohong;Luo Liping;Wang Wankun;Xiang Zhun;Yang Ling;Zeng Weijun;Zheng xuan;Zhou Jinming~

2022/09223 ~ Complete ~54:A FUNCTIONAL YOGURT WITH A COMPOUND FLAVOR OF COIX CHINENSIS TOD. AND SETARIA ITALICA AND A PREPARATION METHOD THEREOF ~71:NINGBO UNIVERSITY, No. 818, Fenghua Road, Jiangbei District, Ningbo City, Zhejiang Province, 315211, People's Republic of China;Ningbo Dairy Group, No. 6, Hongsheng Road, Jiangbei District, Ningbo, Zhejiang Province, 315000, People's Republic of China ~72: Lian Liwei;Pan Daodong;Tu Maolin;Wu Zhen;Zeng Xiaoqun~

2022/09237 ~ Complete ~54:PHYSICAL MANIPULATION APPARATUS AND METHODS OF USE AND MANUFACTURE ~71:CHIRONGEN (PROPRIETARY) LIMITED, 3 High Street, Rosenpark, South Africa ~72: VICTOR, Adriaan Albertus~ 33:ZA ~31:2020/00355 ~32:20/01/2020

2022/09247 ~ Complete ~54:AMINO ACID SURFACTANTS ~71:ADVANSIX RESINS & amp; CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: ANDREI HONCIUC;EDWARD ASIRVATHAM;VOICHITA MIHALI~ 33:US ~31:62/967,177 ~32:29/01/2020

2022/09256 ~ Complete ~54:MACROCYCLIC RIP2-KINASE INHIBITORS ~71:ONCODESIGN S.A., 20, Rue Jean Mazen B.P. 27 627, France ~72: BENDERITTER, Pascal André René;BRUSQ, Jean-

Marie; DAOUBI KHAMLICHI, Mourad; DENIS, Alexis; DODIC, Né rina; LAMOTTE, Yann; TAP, Auré lien~33:EP ~31:20154852.6 ~32:31/01/2020

2022/09257 ~ Complete ~54:COMPOSITIONS FOR DISRUPTING BIOFILM FORMATION AND FOR TREATING BIOFILM-RELATED DISORDERS ~71:AHV INTERNATIONAL B.V., Schokkerweg 10, Netherlands ~72: DE ROOIJ, Jan;STREEFLAND, Gerrit Jan~ 33:EP ~31:20163157.9 ~32:13/03/2020

2022/09222 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING DUCK FLAVIVIRUS AND THE PREPARATION METHOD THEREOF ~71:Gao Si Yu, Liu Shou Ying Zhen Hou Han Jia Lin Cun, Funing District, Qinhuangdao City, Hebei Province, People's Republic of China ~72: Gao Si Yu;Ni Li Xiang;Wang Jian Guo;Zang Zhao Yun~

2022/09230 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING SMN2 ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: DRURY, William John, III.;LING, Kar Yun Karen;PRAKASH, Thazha, P.;RIGO, Frank;WAN, W. Brad~ 33:US ~31:62/983,545 ~32:28/02/2020

2022/09212 ~ Complete ~54:LASER WELDING EQUIPMENT AND LASER WELDING METHOD FOR LONGITUDINAL WELD JOINT OF PIPE ~71:Shenzhen chengruixing Laser Technology Co., Ltd, 502, building 6, Wanyan Industrial Zone, Qiaotou community, Fuyong street, Bao'an District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Xiong Fumei~ 33:CN ~31:202210210853.2 ~32:04/03/2022

2022/09216 ~ Complete ~54:METHOD FOR PREDICTING PIN BREAKAGE OF MOVING BLADE OF FAN ~71:Huaneng Taicang Power Generation Co. LTD, Jinlanglanggang Village, Fuqiao Town, Taicang City, Jiangsu Province, People's Republic of China ~72: GUAN, Rixin;QIAN, Ziqiang;YANG, Fang;YU, Lingwei~ 33:CN ~31:202111159528.X ~32:30/09/2021

2022/09217 ~ Complete ~54:WIRING IDENTIFICATION METHOD FOR INLET CURRENT TRANSFORMER OF BUS DIFFERENTIAL PROTECTION DEVICE ~71:Huaneng Taicang Power Generation Co. LTD, Jinlanglanggang Village, Fuqiao Town, Taicang City, Jiangsu Province, People's Republic of China ~72: HUANG, Peng~ 33:CN ~31:202111159168.3 ~32:30/09/2021

2022/09227 ~ Complete ~54:A SOLAR-POWERED POOL SANITIZER ~71:ZOGHBY, Nicholas John, 6 Upper Portswood Road, Green Point, South Africa ~72: ZOGHBY, Nicholas John~

2022/09233 ~ Complete ~54:TRIAGING METHOD USING CELL FREE NUCLEOSOME LEVELS ~71:BELGIAN VOLITION SRL, 22 Rue Phocas, Lejeune, Isnes, Belgium ~72: ECCLESTON, Mark, Edward;MICALLEF, Jacob Vincent;TERRELL, Jason Bradley~ 33:GB ~31:2004100.0 ~32:20/03/2020;33:CN ~31:202010265531.9 ~32:07/04/2020;33:GB ~31:2006723.7 ~32:06/05/2020;33:GB ~31:2010446.9 ~32:07/07/2020;33:GB ~31:2014263.4 ~32:10/09/2020;33:GB ~31:2016403.4 ~32:16/10/2020

2022/09241 ~ Complete ~54:SPLIT ARCHITECTURE FOR ARTIFICIAL INTELLIGENCE-BASED BASE CALLER ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: DUTTA, Anindita;JAGANATHAN, Kishore;KASHEFHAGHIGHI, Dorna;KIA, Amirali;PARNABY, Gavin Derek;VESSERE, Gery~ 33:US ~31:62/979,399 ~32:20/02/2020;33:US ~31:62/979,411 ~32:20/02/2020;33:US ~31:17/179,395 ~32:18/02/2021;33:US ~31:17/180,480 ~32:19/02/2021;33:US ~31:17/180,513 ~32:19/02/2021

2022/09242 ~ Complete ~54:FLANGE MOUNT CYLINDER SENSOR ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: MARQUETTE, Matthew S.;SIDLES, Timothy G.~ 33:US ~31:16/797,957 ~32:21/02/2020

2022/09245 ~ Complete ~54:INTERMEDIATE FILM FOR LAMINATED GLASS AND LAMINATED GLASS ~71:SEKISUI CHEMICAL CO., LTD., 4-4, Nishitemma 2-chome, Kita-ku, Osaka-shi, Osaka, 5308565, Japan ~72: HIROMITSU NISHINO;JUN ISHIDA;TATSUYA IWAMOTO~ 33:JP ~31:2020-130796 ~32:31/07/2020

2022/09238 ~ Complete ~54:ARTIFICIAL INTELLIGENCE-BASED MANY-TO-MANY BASE CALLING ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: DUTTA, Anindita;JAGANATHAN, Kishore;KASHEFHAGHIGHI, Dorna;KIA, Amirali;VESSERE, Gery~ 33:US ~31:62/979,414 ~32:20/02/2020;33:US ~31:17/180,542 ~32:19/02/2021

2022/09198 ~ Complete ~54:PROCESSING DEVICE FOR BUILDING BOARD ~71:ANHUI SONGDING BUILDING MATERIALS CO., LTD., 150 meters west of the intersection of Jiude Road and Gubei Road, Lu'an Economic and Technological Development Zone, People's Republic of China ~72: Ming HUANG~

2022/09201 ~ Complete ~54:BUILDING CONSTRUCTION DEVICE ~71:ANHUI SONGDING BUILDING MATERIALS CO., LTD., 150 meters west of the intersection of Jiude Road and Gubei Road, Lu'an Economic and Technological Development Zone, People's Republic of China ~72: Ming HUANG~

2022/09204 ~ Complete ~54:SYSTEM FOR, AND METHOD OF, FACILITATING A TRANSACTION BETWEEN A REQUESTING PARTY AND ONE OR MORE USERS ~71:AMIDEL (PTY) LTD, Country Club Estate, Building 2, Woodlands Drive, Woodmead, Johannesburg, 2052, South Africa ~72: BHEKI NDABANDABA~

2022/09226 ~ Complete ~54:NON-NEURONAL SNARE-CLEAVING BOTULINUM NEUROTOXINS ~71:Ipsen Biopharm Limited, Unit 9, Ash Road, Wrexham Industrial Estate, WREXHAM LL13 9UF, UNITED KINGDOM, United Kingdom ~72: BINZ, Thomas;SIKORRA, Stefan~ 33:EP ~31:18153941.2 ~32:29/01/2018

2022/09236 ~ Complete ~54:COMPOSITION AND METHODS OF RNAI PROPHYLACTICS AND THERAPEUTICS FOR TREATMENT OF SEVERE ACUTE RESPIRATORY INFECTION CAUSED BY 2019 NOVEL CORONAVIRUS (2019-NCOV) ~71:SIRNAOMICS, INC., 401 PROFESSIONAL DRIVE, SUITE 280, GAITHERSBURG, MARYLAND 20879, USA, United States of America ~72: CHEN, Xueping;EVANS, David, M.;LU, Alan;LU, Patrick, Y.;SIMONENKO, Vera;TANG, Danny;WANG, Deling;XU, John~ 33:US ~31:62/965,063 ~32:23/01/2020

2022/09239 ~ Complete ~54:KNOWLEDGE DISTILLATION AND GRADIENT PRUNING-BASED COMPRESSION OF ARTIFICIAL INTELLIGENCE-BASED BASE CALLER ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: DUTTA, Anindita;JAGANATHAN, Kishore;KASHEFHAGHIGHI, Dorna;KIA, Amirali;VESSERE, Gery~ 33:US ~31:62/979,385 ~32:20/02/2020;33:US ~31:17/176,151 ~32:15/02/2021

2022/09250 ~ Complete ~54:BATTERY OPERATED GREASE GUN ~71:MACNAUGHT PTY LTD, 41-49 Henderson Street, Australia ~72: UCCELLANI, Marco;WONG, Matthias~ 33:US ~31:62/991,238 ~32:18/03/2020

2022/09255 ~ Complete ~54:METHOD OF FORMING AN ARTICLE ~71:Bockatech Ltd, Burnham House, Splash Lane, Wyton, HUNTINGDON PE28 2AF, UNITED KINGDOM, United Kingdom ~72: CLARKE, Peter Reginald~ 33:GB ~31:2003070.6 ~32:03/03/2020

2022/09224 ~ Complete ~54:NON-NEURONAL SNARE-CLEAVING BOTULINUM NEUROTOXINS ~71:Ipsen Biopharm Limited, Unit 9, Ash Road, Wrexham Industrial Estate, WREXHAM LL13 9UF, UNITED KINGDOM, United Kingdom ~72: BINZ, Thomas;SIKORRA, Stefan~ 33:EP ~31:18153941.2 ~32:29/01/2018

2022/09254 ~ Complete ~54:PROCESSES FOR UPGRADING ALKANES AND ALKYL AROMATIC HYDROCARBONS ~71:ExxonMobil Chemical Patents Inc., 5200 Bayway Drive, BAYTOWN 77520, TX, USA,

United States of America ~72: BAO, Xiaoying~ 33:US ~31:62/986,229 ~32:06/03/2020;33:EP ~31:20179508.5 ~32:11/06/2020

2022/09252 ~ Complete ~54:VEHICLE MOUNTED SYSTEM AND METHOD FOR DISTRIBUTED IRRITANT SPRAY ~71:COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH an Indian registered body incorporated under the Regn. of Soc. Act, Anusandhan Bhawan, 2, Rafi Marg, NEW DELHI 110 001, DELHI, INDIA, India ~72: CHATTERJEE, Avik;DAS, Lalgopal;HIRANI, Harish;KUMAR MAJI, Palash~ 33:IN ~31:202011009672 ~32:06/03/2020

2022/09231 ~ Complete ~54:ACTIVITY BASED HOST CELL PROTEIN PROFILING ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: MOLDEN, Rosalynn;QIU, Haibo~ 33:US ~31:62/982,346 ~32:27/02/2020;33:US ~31:63/021,181 ~32:07/05/2020;33:US ~31:63/073,125 ~32:01/09/2020

2022/09232 ~ Complete ~54:[1,3]DIAZINO[5,4-D]PYRIMIDINES AS HER2 INHIBITORS ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BOESE, Dietrich;ENGELHARDT, Harald;FUCHS, Julian;NEUMUELLER, Ralph;PETRONCZKI, Mark;SCHARN, Dirk;TREU, Matthias;WILDING, Birgit~ 33:EP ~31:20171221.3 ~32:24/04/2020

2022/09210 ~ Complete ~54:TARGET GENE, SPECIFIC PRIMER PAIR, DETECTION METHOD AND KIT FOR DETECTING SALMONELLA PARATYPHI A ~71:Anhui Science and Technology University, No. 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, 233100, People's Republic of China ~72: HUANG, Ju;LI, Ganghui;WANG, Junying;YANG, Jianting;ZHAI, Ligong~

2022/09211 ~ Complete ~54:MULTI-LAYER RUBBER ASPHALT DRAINAGE PAVEMENT STRUCTURE FOR ANTI-CRACKING AND ANTI-RUTTING ~71:GUANGXI TRANSPORTATION SCIENCE AND TECHNOLOGY GROUP CO., LTD., No. 158, Xinkang West Road, Xixiangtang District, Nanning, Guangxi, 530007, People's Republic of China;Guangxi Jiaoke New Materials Technology Co., Ltd., No. 6, Gaoxin 2nd Road, Xixiangtang District, Nanning, Guangxi, 530007, People's Republic of China ~72: CHEN, Jie;HUANG, Hui;JIAO, Xiaodong;TAN, Hua;TAN, Jizong;XIE, Zehua;XIONG, Baolin;XIONG, Jianping;XUAN, Weian;YUAN, Haitao;ZHANG, Hongbo;ZHANG, Honggang;ZHANG, Yangpeng~

- APPLIED ON 2022/08/18 -

2022/09267 ~ Complete ~54:SAFETY BARRIER ~71:DREAM AFRICAN FOUNDATION (PTY) LTD, 01 GARDENIA ROAD, South Africa ~72: MAKHETHA, SIPHIWE~

2022/09275 ~ Complete ~54:METHOD FOR IN VITRO PROPAGATION AND EFFECTIVE ROOTLESS SEEDLING GRAFTING OF WOODY RHODODENDRON ~71:Fujian Agriculture and Forestry University, No. 15, Shangxiadian Road, Cangshan District, Fuzhou City, Fujian Province, 350002, People's Republic of China ~72: Jie SHI;Lijin GUO;Wei LIN~

2022/09292 ~ Complete ~54:APPARATUS AND METHOD FOR SEPARATING A SLAG MATERIAL FROM A COLLECTOR MATERIAL ~71:FLSmidth A/S, Vigerslev Allé 77, VALBY 2500, DENMARK, Denmark ~72: BRUCE, Trevor Craig;DE JONG, Terre-Blanche;GLOSSOP, Charles~ 33:DK ~31:PA 2020 00204 ~32:19/02/2020

2022/09301 ~ Complete ~54:TEST ARRANGEMENT AND METHOD FOR TESTING BREAKAGE AND MECHANICAL PROPERTIES OF ROCK PARTICLES ~71:GEOPYÖRÄ OY, c/o Marcos de Paiva Bueno, Toppilansaarentie 3 B 39 90510, Oulu, 90570, Finland ~72: JANNE TORVELA;MARCOS DE PAIVA BUENO;RAJIV CHANDRAMOHAN~

2022/09303 ~ Provisional ~54:FOREIGN NATIONALS RESIDENTIALS ADDRESS VIEWED ON SA HOME AFFAIRS SYSTEM (BORDER GATES) ~71:MASOMBUKA GEORGE MAKHAYA, 1707 ALLEMANSDRIFT, MPUMALANGA, BUTHI, SIYABUSWA, South Africa ~72: MASOMBUKA GEORGE MAKHAYA ~

2022/09273 ~ Complete ~54:APPARATUS FOR MEASURING SHRINKAGE OF CONCRETE ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Shenyang Economic Development Zone, Shenyang City, Liaoning Province, 110027, People's Republic of China ~72: LI, Mingshuo;NING, Baokuan;SHI, Xinxin;ZHANG, Wenxin~

2022/09278 ~ Complete ~54:INTELLIGENT ELECTRICAL CABINET WITH AUTOMATIC DRYING FUNCTION ~71:Hunan Institute of Technology, 18 Henghua Rd., Zhuhui District, Hengyang, Hunan, 412007, People's Republic of China ~72: HONG, Lu;WANG, Chaoyuan~

2022/09286 ~ Complete ~54:ANTI-IDE ANTIBODIES AND USES OF SAME ~71:RAMOT AT TEL-AVIV UNIVERSITY LTD., P.O. Box 39296, Israel ~72: BENHAR, Itai;FRENKEL, Dan;FURSHT, Ofir;LIRAN, Mirit;NAHARY, Limor;NASH, Yuval~ 33:US ~31:62/964,139 ~32:22/01/2020

2022/09298 ~ Complete ~54:HIGH MOLECULAR WEIGHT HEPARIN COMPOSITIONS AND METHODS FOR DIAGNOSING, TREATING AND MONITORING EOSINOPHIL MEDIATED INFLAMMATORY DISEASES ~71:UNIVERSITY OF UTAH RESEARCH FOUNDATION, 615 Arapeen Drive, Suite 310, Salt Lake City, Utah, 84108, United States of America ~72: DEBRA ECKERT;GERALD J GLEICH;HEDIEH SAFFARI;KATHRYN A PETERSON;KRISTIN M LEIFERMAN;RUSSELL MORRIS CONDIE~ 33:US ~31:62/972,224 ~32:10/02/2020

2022/09268 ~ Complete ~54:OFF-ROAD DENITRATION CATALYST COATING MATERIAL AND ITS APPLICATION ~71:TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING, M.O.T, No. 37, Xingang 2nd Road, Tanggu Dist.,, Tianjin, 300450, People's Republic of China ~72: Boqun Liu;Fang Chang;Huiting Li;Junjie Zhao;Mingyu Guo;Shaoping Cui;Shina Li;Shipei Dong;Wei Ye;Yingjie Zhao~

2022/09271 ~ Complete ~54:METHOD FOR EXTRACTING SEISMIC LANDSLIDE VOLUME BY USING TANDEM-X BISTATIC INSAR ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: SUN, Yafei;WU, Yifei~

2022/09279 ~ Complete ~54:AN OPINION PREFERENCE ANALYSIS METHOD FOR COMMENTS ON MICROBLOG ~71:Zhejiang Wanli University, No. 8, Qianhu Road, College of Information and Intelligence Engineering, Zhejiang Wanli University, Ningbo, Zhejiang, 315100, People's Republic of China ~72: Xu Jin;Zhang Dingkai;Zhang Shaozhong;Zhong Haidong~

2022/09287 ~ Complete ~54:PAYMENT INFORMATION TRANSFER SYSTEM USING MOBILE TERMINAL AND PAYMENT INFORMATION TRANSFER METHOD USING SAME ~71:Allink Co., Ltd., (Yeouido-dong, O2 Tower), 4F,5F,6F,8F,17F,19F, 83, Uisadang-daero, Yeongdeungpo-gu, SEOUL 07325, REPUBLIC OF KOREA, Republic of Korea ~72: KIM, Kyung Dong~ 33:KR ~31:10-2020-0020635 ~32:19/02/2020

2022/09295 ~ Complete ~54:METHOD AND APPARATUS FOR MANAGING AND CONTROLLING RESOURCE, DEVICE AND STORAGE MEDIUM ~71:ENVISION DIGITAL INTERNATIONAL PTE. LTD., 1 Harbourfront Avenue, #17-01 Keppel Bay Tower, Singapore, 098632, Singapore;SHANGHAI ENVISION DIGITAL CO., LTD., No. 15, Lane 55, Chuanhe Road China (Shanghai), Pilot Free Trade Zone, Shanghai, People's Republic of China ~72: CUNFENG QIAN~ 33:CN ~31:202010066236.0 ~32:20/01/2020

2022/09270 ~ Complete ~54:A MIXING DEVICE FOR FEED PRODUCTION ~71:Chongqing Xintonglian Feed Co., Ltd., No.1 Caoba Branch Road, Degan Street, Jiangjin District, Chongqing City, 402284, People's Republic of China ~72: Li Chen~
2022/09283 ~ Complete ~54:USE OF ELECTROMAGNETIC RADIATION IN THE PRODUCTION OF POPCORN-CONTAINING SHAPED PARTS ~71:GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN STIFTUNG ÖFFENTLICHEN RECHTS, Wilhelmsplatz 1, Göttingen, Germany ~72: EURING, Markus;KHARAZIPOUR, Alireza~ 33:DE ~31:10 2020 105 205.7 ~32:27/02/2020

2022/09296 ~ Complete ~54:SYSTEM AND METHOD FOR ANALYZING VIDEOS IN REAL-TIME ~71:EDISN INC., 919 North Market Street, Suite 950, Wilmington, DE 19801, United States of America ~72: AKSHAY CHANDRASEKHAR;ARJUN KASHYAP;MONSIH KUMAR KESWANT;SHIVANK GUPTA~ 33:IN ~31:202041006309 ~32:13/02/2020

2022/09262 ~ Complete ~54:COMPREHENSIVE ANALYSIS METHOD OF AUXILIARY CONTROL SYSTEM OF BOOSTER STATION ~71:Huaneng Shantou Wind Power Co., Ltd., Floor 10, building 1, Junyue Huating, No. 99, Jinsha Road, Jinping District, SHANTOU CITY 510000, GUANGDONG PROVINCE, CHINA (P.R.C.), People's Republic of China ~72: JIANBIN, Wang;JIANJUN, Zhang;QINGXIN, Lin;WEI, Wang;YUN, Zeng;YUPENG, Dong~ 33:CN ~31:202111057890.6 ~32:09/09/2021

2022/09264 ~ Complete ~54:BEAM-ARCH COMBINED AND STEEL-CONCRETE COMPOSITE CONTINUOUS RIGID FRAME BRIDGE ~71:Chongqing Jiaotong University, No. 66, Xuefu Avenue, Nan'an District, Chongqing 400074, CHINA (P.R.C.), People's Republic of China ~72: DING, Yanchao;HUANG, Haidong;LAI, Yaping;LI, Yayong;LIU, Anshuang;QIAO, Yunqiang;XIANG, Nan;XIANG, Zhongfu;ZHENG, Bangyou;ZHOU, Xueyong~

2022/09281 ~ Complete ~54:CHIMERIC FUSIONS BETWEEN C4-BINDING PROTEIN C-TERMINAL SEGMENT AND ANGIOPOIETIN-1 FIBRINOGEN-LIKE DOMAIN AS ANGIOPOIETIN MIMETICS AND TIE2 AGONISTS TO TREAT VASCULAR DISEASES ~71:MANNIN RESEARCH INC., 303 E. Superior Stree, Suite 8-516, United States of America;NORTHWESTERN UNIVERSITY, 303 E. Superior Street, Suite 8-516, United States of America ~72: JIN, Jing;LIU, Pan;RYCZKO, Michael~ 33:US ~31:62/983,328 ~32:28/02/2020;33:US ~31:63/029,369 ~32:22/05/2020

2022/09289 ~ Complete ~54:AZELAIC ACID ESTERS IN THE TREATMENT OR PREVENTION OF DYSLIPIDEMIA AND ASSOCIATED CONDITIONS ~71:New Frontier Labs, LLC, 900 NE Loop 410, Suite D-119, SAN ANTONIO 78209-1403, TX, USA, United States of America ~72: IZBICKA, Elzbieta;STREEPER, Robert T.~ 33:US ~31:62/978,785 ~32:19/02/2020

2022/09290 ~ Complete ~54:PERFUME SYSTEM FOR PERFUMED CONSUMER PRODUCT ~71:Firmenich SA, 7, Rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: BERTHIER, Damien;HERRMANN, Andreas;PARET, Nicolas;TRACHSEL, Alain~ 33:EP ~31:20171256.9 ~32:24/04/2020

2022/09259 ~ Provisional ~54:A VALVE ~71:CONLOG (PTY) LTD, 10 Mzimkhulu Drive, Dube Trade Port, La Mercy, KwaZulu Natal, 4407, South Africa ~72: NORMAN ANTHONY NIEUWENHUIZEN~

2022/09276 ~ Complete ~54:METHOD FOR HEAVY METAL FIXATION AND SOILIZATION OF COPPER TAILINGS ~71:Kunming University of Science and Technology, Chenggong District, Kunming City, Yunnan Province, 650000, People's Republic of China ~72: LI, Qi;LONG, Xiaoxia;NING, Ping;QU, Guangfei;YANG, Zhijie;ZHANG, Dongdong~

2022/09282 ~ Complete ~54:METHOD OF ENHANCING AQUEOUS HUMOR OUTFLOW AND REDUCING INTRAOCULAR PRESSURE ~71:MANNIN RESEARCH INC., 303 E. Superior Stree, Suite 8-516, United States of America;NORTHWESTERN UNIVERSITY, 303 E. Superior Street, Suite 8-516, United States of America ~72: JIN, Jing;LIU, Pan;QUAGGIN, Susan;RYCZKO, Michael;THOMSON, Benjamin~ 33:US ~31:62/983,328 ~32:28/02/2020;33:US ~31:62/983,728 ~32:01/03/2020;33:US ~31:63/029,369 ~32:22/05/2020

2022/09297 ~ Complete ~54:GENE THERAPY ~71:SYNCONA INVESTMENT MANAGEMENT LIMITED, 8 Bloomsbury Street, 2nd Floor, London, WC1B 3SR, United Kingdom;THE UNIVERSITY OF BRISTOL, Beacon House, Queens Road, Bristol, BS8 1QU, United Kingdom ~72: DOMINIC SCHMIDT;GAVIN WELSH;MOIN SALEEM;VALERYIA KUZMUK~ 33:GB ~31:2003618.2 ~32:12/03/2020

2022/09269 ~ Complete ~54:DISINFECTOR FOR HEMATOPOIETIC STEM CELL TRANSPLANTATION FOR TREATING HEMATOLOGIC DISEASE ~71:CHEN, Xiangli, No. 7, Weiwu Road, Zhengzhou City, Henan Province, 450003, People's Republic of China ~72: CHEN, Xiangli;FU, Ying;LI, Ningning;WANG, Liancai;WEI, Zhenghong;XU, Nuo;ZANG, Yuzhu~

2022/09277 ~ Complete ~54:DOUBLE-PROTEIN YOGURT CONTAINING NATTOKINASE AND PREPARATION METHOD THEREOF ~71:Chengdu Academy of Agriculture and Forestry Sciences, No. 200, Gongping Nongke Road, Wenjiang District, Chengdu City, Sichuan Province, 611130, People's Republic of China ~72: BAI, Juhong;DI, Feida;FANG, Qiuye;FENG, Jun;LIU, Yijing;LIU, Zhiyu;ZHANG, Chisong~ 33:CN ~31:202110962047.6 ~32:20/08/2021

2022/09291 ~ Complete ~54:CROP HUSBANDRY COMPOSITION AND USE THEREOF ~71:Sasol Chemicals GmbH, Anckelmannsplatz 1, HAMBURG 20537, GERMANY, Germany ~72: BICKEL, Jennifer;NORMAND, Ollie;VARADARAJ, Ramesh~ 33:US ~31:62/978,511 ~32:19/02/2020;33:US ~31:63/112,255 ~32:11/11/2020

2022/09302 ~ Provisional ~54:QUAVA LEAVES HERBAL TEA BAGS ~71:CLAUDIA RIFHANDZU MAKENETE, 522 BLOCK R, SOSHANGUVE, GAUTENG, South Africa ~72: CLAUDIA RIFHANDZU MAKENETE ~

2022/09261 ~ Complete ~54:SYSTEM OF EFFECTIVE KEEPER BASED DOMINO CIRCUIT FOR LOW POWER APPLICATION ~71:Dr Hari Shanker Srivastava, Associate Professor, Department of Electronics, CMRIT, Hyderabad, India; Dr Shiv Prasad Kori, H.O.D., Department of Electronics and Telecommunication, Jijamata Govt Polytechnic College, Burhanpur, India; Dr Vijayshri Chaurasia, Assistant Professor, Department of Electronics and Communication Engineering, Maulana Azad National Institute of Technology, Bhopal, India; Dr. Abhinav Gupta, Assistant Professor, Department of Electronics and Communication, Rajkiya Engineering Sonbhadra, India; Dr. Amit Kumar Pandey, Assistant Professor, Department of Applied Science & amp; Humanities, Rajkiya Engineering College Ambedkar Nagar, India; Dr. Tarun Kumar Gupta, Assistant Professor, Department of Electronics and Communication Engineering, Maulana Azad National Institute of Technology, Bhopal, India; Mr. Prince Rajpoot, Assistant Professor, Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar, India; Mr. Shivendu Mishra, Assistant Professor, Department of Information Technology, Rajkiya, Engineering College Ambedkar Nagar, India; Mr. Vikas Patel, Assistant Professor, Department of Electrical Engineering, Raikiya Engineering College Ambedkar Nagar, India: Prof. Vishal Singh Chandel, Professor, Department of Applied Science & amp; Humanities, Rajkiya Engineering College, Ambedkar Nagar, India ~72: Dr Hari Shanker Srivastava:Dr Shiv Prasad Kori;Dr Vijayshri Chaurasia:Dr. Abhinav Gupta:Dr. Amit Kumar Pandey:Dr. Tarun Kumar Gupta; Mr. Prince Rajpoot; Mr. Shivendu Mishra; Mr. Vikas Patel; Prof. Vishal Singh Chandel~

2022/09266 ~ Complete ~54:THREADED SLEEVE FOR ANCHORING THREADED STEEL BAR ~71:Hohhot Sifang Engineering Quality Inspection and Testing Co., Ltd., Office Area of Hohhot Construction Engineering, Test Center, No. 26 Saihan West Street, Saihan District, Hohhot, People's Republic of China ~72: FU, Yonggang;HAN, Liang;HAO, Na;LIU, Hong;WANG, Chenfei;WANG, Xiangping;XU, Xiaobin~ 33:CN ~31:202221867423. X ~32:19/07/2022

2022/09280 ~ Complete ~54:A BIOREACTOR FOR CONTACTLESS CO-CULTURING ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, South Africa ~72: BAUER, Florian Franz;NAIDOO-BLASSOPLES, Rene Kathleen;OOSTHUIZEN, Jennifer Rae;POTT, Robert William McClelland;ROSSOUW, Debra~ 33:ZA ~31:2021/06074 ~32:24/08/2021

2022/09260 ~ Provisional ~54:METHOD TO SECURE AN ITEM TO THE BODY ~71:Kitty Saarloos, 7 Geelvink Close,Vermont,Hermanus 7201, South Africa ~72: Kitty Nancy Saarloos~

2022/09263 ~ Complete ~54:AUTOMATIC ANALYSIS METHOD FOR MONITORING ABNORMAL INDEX VALUES ~71:Huaneng Shanwei Wind Power Co., Ltd., No. 102, north side of Guangshan highway, shuangkeng Qiaotou village, Poyang Town, LUFENG CITY 516600, GUANGDONG PROVINCE, CHINA (P.R.C.), People's Republic of China ~72: JIABIN, Tang;XIAO, Qiu;XIAOTONG, Huang;XU, Sun;XURUI, Wu;YONGXIN, Liu~ 33:CN ~31:202111555152.4 ~32:17/12/2021

2022/09274 ~ Complete ~54:EXPANDED PERLITE FOAM LIGHT SOIL AND PREPARATION METHOD THEREOF ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Shenyang Economic Development Zone, Shenyang City, Liaoning Province, 110027, People's Republic of China ~72: LI, Mingshuo;NING, Baokuan;SHI, Xinxin;ZHANG, Wenxin~

2022/09285 ~ Complete ~54:A SYNTHETIC COMPOSITE AS BONE GRAFT AND THE METHOD THEREOF ~71:BONE SUBSTITUTES, 2/1088, Parijatham Street, Ezhil Nagar, Iyer Bungalow, India ~72: PUGALANTHI PANDIAN, Sankaralingam~ 33:IN ~31:202041008048 ~32:26/02/2020

2022/09299 ~ Complete ~54:METHODS AND MATERIALS FOR ASSESSING NUCLEIC ACIDS ~71:THE JOHNS HOPKINS UNIVERSITY, 3400 North Charles Street, Baltimore, Maryland, 21218, United States of America ~72: BERT VOGELSTEIN;JOSHUA DAVID COHEN;KENNETH W KINZLER;NICKOLAS PAPADOPOULOS~ 33:US ~31:62/977,066 ~32:14/02/2020

2022/09265 ~ Complete ~54:DEVICES AND METHOD FOR PREVENTION AND TREATMENT OF FUNGAL AND BACTERIAL MICROORGANISMS ~71:ZERO CANDIDA LTD., Dalton Industrial Park, Dalton, 1381100, Israel ~72: ASHER HOLZER;DOV OPPENHEIM;ELI BEN HAROOSH;YUVAL COHEN FLAX~ 33:US ~31:63/318,332 ~32:09/03/2022

2022/09272 ~ Complete ~54:METHOD FOR SIMULTANEOUS QUANTITATIVE DETERMINATION OF TEN ACTIVE INGREDIENTS IN SHUGANNING INJECTION ~71:Guizhou Medical University, University Town, Gui'an New District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: CHEN, Siying;CHEN, Yi;GONG, Zipeng;HE, Feng;HUANG, Yong;KANG, Ningfang;LI, Yueting;PENG, Jianqing;ZENG, Yan;ZHENG, Lin~

2022/09284 ~ Complete ~54:APPARATUS AND METHOD FOR AUTOMATIC ULTRASOUND SEGMENTATION FOR VISUALIZATION AND MEASUREMENT ~71:VERDURE IMAGING, INC., 4560 Pershing Ave, Suite A Stockton, United States of America ~72: SCHLENGER, Christopher;UNGI, Tamas~ 33:US ~31:16/813,469 ~32:09/03/2020

2022/09288 ~ Complete ~54:SYSTEM AND METHOD FOR TRANSMITTING INFORMATION USING MOBILE TERMINAL ~71:Allink Co., Ltd., (Yeouido-dong, O2 Tower), 4F,5F,6F,8F,17F,19F, 83, Uisadang-daero, Yeongdeungpo-gu, SEOUL 07325, REPUBLIC OF KOREA, Republic of Korea ~72: KIM, Kyung Dong~ 33:KR ~31:10-2020-0020635 ~32:19/02/2020

2022/09294 ~ Complete ~54:ANTISENSE NUCLEIC ACID INDUCING SKIPPING OF EXON 51 ~71:NATIONAL CENTER OF NEUROLOGY AND PSYCHIATRY, 1-1, Ogawahigashi-cho 4-chome, Kodaira-shi, Tokyo, 1878551, Japan;NIPPON SHINYAKU CO., LTD., 14, Kisshoin Nishinosho Monguchicho, Minami-ku, Kyoto-shi, Kyoto, 601-8550, Japan ~72: KANAME MUCHIMA;SAKI HASEGAWA;SHIN'ICHI TAKEDA;TAKAHIRO FUKUI;YOSHITSUGU AOKI;YU HONDA~ 33:JP ~31:2020-033483 ~32:28/02/2020

2022/09293 ~ Complete ~54:ISOINDOLINE DERIVATIVE, AND PHARMACEUTICAL COMPOSITION AND USE THEREOF ~71:KANGPU BIOPHARMACEUTICALS, LTD., 780 Cailun Road, Suite 818, Zhangjiang Hi-Tech Park, Pudong New Area, Shanghai, 201203, People's Republic of China ~72: CHUANSHENG GE;FENG XING;HUI LIU;LEI ZHANG;YANJUN DENG~ 33:CN ~31:202010067409.0 ~32:20/01/2020;33:CN ~31:202010413162.3 ~32:15/05/2020

2022/09300 ~ Complete ~54:GANGUE REJECTION FROM ORES ~71:ANGLO AMERICAN TECHNICAL & amp; SUSTAINABILITY SERVICES LTD, 17 Charterhouse Street, London, EC1N 6RA, United Kingdom ~72: ANTHONY OWEN FILMER;DANIEL JOHN ALEXANDER~ 33:US ~31:62/950,321 ~32:19/12/2019

- APPLIED ON 2022/08/19 -

2022/09306 ~ Provisional ~54:POULTECH ~71:Poulether Laetecia, 4696 MODIKO STREET, South Africa;Poulether Laetecia, 4696 MODIKO STREET, South Africa ~72: Poulether Laetecia Neo Buciba~

2022/09318 ~ Complete ~54:GANODERMA STRAIN AND CULTIVATION METHOD OF FRUITING BODY OF GANODERMA SHANXIENSE THEREOF ~71:Shanxi Institute for Functional Food, Shanxi Agricultural University, No. 79, Longcheng North Street, Xiaodian District, Taiyuan City, Shanxi Province, 030031, People's Republic of China ~72: BAI, Yaoyun;GUO, Shang;LIU, Hong;YANG, Jie~ 33:CN ~31:202111111300.3 ~32:23/09/2021

2022/09321 ~ Complete ~54:PREPARATION METHOD OF EXTERNALLY APPLIED LINIMENT FOR RELIEVING ONYCHIA LATERALIS ~71:YANG, Tongshen, Congjiang County Traditional Chinese Medicine Hospital, Qiandongnan Miao and Dong Autonomous Prefecture, Guizhou Province, 557400, People's Republic of China ~72: YANG, Tongshen;YANG, Zhenchao~

2022/09324 ~ Complete ~54:MUTE CASE OF A GENERATOR SET ~71:ShanDong JiaoTong University, No. 5 Jiaoxiao Road, Tianqiao District, Jinan City, Shandong Province, 250023, People's Republic of China ~72: CUI, Wenchao~

2022/09345 ~ Complete ~54:COMPOSITIONS CONTAINING CERIUM AND ZIRCONIUM AND METHODS FOR PREPARING SAME USING OXALIC ACID ~71:NEO PERFORMANCE MATERIALS (SINGAPORE) PTE. LTD., #01-19 The Galen, 61 Science Park Road, Singapore Science Park Road III, 117525, Singapore ~72: BARRY HUANG;JESLINE TANG;PERLYN KOH;SZU HWEE NG~ 33:US ~31:62/979,660 ~32:21/02/2020

2022/09348 ~ Complete ~54:OXYGEN IMPERMEABLE PORPHYRIN PHOTOSENSITIZER FILM COMPOSITION FOR APPLICATION TO PLANTS. ~71:Suncor Energy Inc., Suncor Engery Centre, West Tower, PO Box 2844, 150-6th Avenue SW, CALGARY T2P 3E3, ALBERTA, CANADA, Canada ~72: BLEIK, Adam;FEFER, Michael;LIU, Jun;NG, Kenneth;TERAZONO, Yuichi~

2022/09352 ~ Complete ~54:OCULAR IMPLANT CONTAINING A TYROSINE KINASE INHIBITOR ~71:Ocular Therapeutix, Inc., 24 Crosby Drive, BEDFORD 01730, MA, USA, United States of America ~72: BLIZZARD, Charles D.;DRISCOLL, Arthur;EL-HAYEK, Rami;GOLDSTEIN, Michael;IACONA, Joseph;JARRETT, Peter;JARRETT, Timothy S.;KAHN, Erica;LATTRELL, Zachary~ 33:US ~31:62/994,391 ~32:25/03/2020;33:IB ~31:2020/029827 ~32:24/04/2020;33:US ~31:63/106,276 ~32:27/10/2020;33:US ~31:63/148,463 ~32:11/02/2021

2022/09326 ~ Complete ~54:STRUCTURE OF STRONG PREMIXING PRECOMBUSTION CHAMBER HAVING MULTI-STAGE REFLECTION OF SHOCK WAVES ~71:ShanDong JiaoTong University, No. 5 Jiaoxiao Road, Tianqiao District, Jinan City, Shandong Province, 250023, People's Republic of China ~72: LI, Yue~

2022/09330 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE APPLICATION WITH FAR INFRARED AUTOMATIC HEATING FUMIGATION ~71:Guang'an People's Hospital, No. 1, Section 4, Binhe Road, Guang'an District, Guang'an City, Sichuan, 638000, People's Republic of China ~72: Ren zhang-xia;Tuo tian;Yang ning;Zhang xin~

2022/09336 ~ Complete ~54:A VEGETAL CONCRETE MASONRY UNIT AND METHOD AND SYSTEM FOR MANUFACTURE THEREOF ~71:GREENJAMS BUILDTECH PRIVATE LIMITED, 401, 10-5-14/C, Mantis, Facor Layout, Ramnagar Visakhapatnam, India ~72: JAMI, Tarun~ 33:IN ~31:202041002654 ~32:21/01/2020

2022/09319 ~ Complete ~54:METHOD FOR SEPARATING ORGANIC MATTER FROM NATURAL WATER BODY ~71:Jilin Jianzhu University, No. 5088, Xincheng Street, Nanguan District, Changchun City, Jilin Province, 130118, People's Republic of China ~72: LI, Siwen;LI, Yang;LIN, Huan;LIN, Yingzi;LIU, Gen;LV, Zunjing~

2022/09328 ~ Complete ~54:SYNTHETIC METHOD OF 2-SUBSTITUTED BENZO[D]THIAZOLE DERIVATIVES ~71:Southwest Minzu University, No. 16, South Section 4, 1st ring road, Chengdu, Sichuan, People's Republic of China ~72: JIANG Xin;LI Qinghan~

2022/09334 ~ Complete ~54:METHOD FOR PRODUCING AEROGELS AND AEROGELS OBTAINED USING SAID METHOD ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastraße 27c, Germany ~72: HINTEMANN, Damian;MÖLDERS, Nils;RENNER, Manfred;SENGESPEICK, Andreas;WEIDNER, Eckhard~ 33:DE ~31:10 2020 112 973.4 ~32:13/05/2020

2022/09343 ~ Complete ~54:DYNAMIC ARTIFICIAL WAVE FACILITY FOR SURFING PRACTICE ~71:LAURENT HEQUILY, 62 rue André Lesca, 33260, La Teste de Buch, France ~72: LAURENT HEQUILY; VES LECOFFRE~ 33:FR ~31:2000841 ~32:28/01/2020

2022/09350 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING NON-AGE-ASSOCIATED HEARING IMPAIRMENT IN A HUMAN SUBJECT ~71:Akouos, Inc., 645 Summer Street, Suite 200, BOSTON 02210, MA, USA, United States of America ~72: NG, Robert;SIMONS, Emmanuel John~ 33:US ~31:62/979,792 ~32:21/02/2020

2022/09351 ~ Complete ~54:DETECTING GUT BARRIER DYSFUNCTION AND/OR CIRRHOSIS ~71:Macfarlane Burnet Institute for Medical Research and Public Health Limited, 85 Commercial Road, MELBOURNE 3004, VICTORIA, AUSTRALIA, Australia ~72: ANDERSON, David;HOWELL, Jessica;VAN, Huy~ 33:AU ~31:2020900194 ~32:24/01/2020

2022/09307 ~ Complete ~54:TECHNOLOGIES FOR TRANSMITTING OR RECEIVING AN AGGREGATE PHYSICAL LAYER PROTOCOL DATA UNIT ~71:APPLE INC., ONE APPLE PARK WAY, CALIFORNIA 95014, USA, United States of America ~72: HUANG, Lei;SAKAMOTO, Takenori;SIM, Hong Cheng Michael~ 33:JP ~31:2015-113063 ~32:03/06/2015

2022/09311 ~ Complete ~54:MASS SPECTROMETRY METHOD FOR DETERMINATION OF CHLORIDE STABLE IOSTOPES IN GROUNDWATER BASED ON GC INJECTION ~71:INSTITUTE OF HYDROGEOLOGY AND ENVIRONMENTAL GEOLOGY, CHINESE ACADEMY OF GEOLOGICAL SCIENCES, NO. 268, ZHONGHUA NORTH STREET, People's Republic of China ~72: LIU, Fuliang;LIU, Jun;SU, Aina~

2022/09320 ~ Complete ~54:SUPPORT METHOD OF ROADWAY SIDE AND FLOOR WITH COORDINATE STABILIZATION OF BOTTOM ANGLE PRESTRESSED GROUTING BOLTS AND BOTTOM ANGLE ANCHOR CABLES AT DIFFERENT ANGLES ~71:Anhui University of Science and Technology, 168 Taifeng street, Tianjiaan District, Huainan City, Anhui Province, People's Republic of China;Anhui chen'an Mine Support

Technology Co., Ltd., 701, 7 / F, building A, entrepreneurship and innovation center, Taining Street, Shannan New District, Huainan City, Anhui Province, People's Republic of China;Huaneng Coal Technology Research Co., Ltd., Room 301, floor 3, building 8, zone 17, No. 188, South Fourth Ring West Road, Fengtai District, Beijing, People's Republic of China;Shaanxi Mining Branch of Huaneng Coal Industry Co., Ltd., 3 / F, building 4, Xi'an Thermal Power Research Institute, No. 136 Xingqing Road, Beilin District, Xi'an City, Shaanxi Province, People's Republic of China;Xichuan coal mine branch of Huaneng Tongchuan Zhaojin Coal Power Co., Ltd., Yumen village, Miaowan Town, Yaozhou District, Tongchuan City, Shaanxi Province, People's Republic of China ~72: CAO Feifei;HAO Pengwei;JING Laiwang;JING Wei;LI Hanhan;LI Yongyuan;LIU Chengbo;LU Xingyi;WANG Yilong;XUE Weipei;ZHANG Duxue;ZHANG Lei;ZHOU Xiang~ 33:CN ~31:2021110871206 ~32:16/09/2021

2022/09338 ~ Complete ~54:USE OF CYCLOSPORINE ANALOGUES FOR TREATING CANCER ~71:HEPION PHARMACEUTICALS, INC., 399 Thornall Street, 1st Floor, Edison, United States of America ~72: FOSTER, Robert T.;MAYO, Patrick R.;TREPANIER, Daniel J.;URE, Daren R.~ 33:US ~31:62/981,383 ~32:25/02/2020

2022/09344 ~ Complete ~54:COMPOSITIONS CONTAINING ZIRCONIUM AND CERIUM AND METHODS FOR PREPARING SAME USING OXALIC ACID AND AN ALCOHOL ~71:NEO PERFORMANCE MATERIALS (SINGAPORE) PTE. LTD., #01-19 The Galen, 61 Science Park Road, Singapore Science Park III, Singapore, 117525, Singapore ~72: BARRY HUANG;JESLINE TANG;PERLYN KOH;SZU HWEE NG~ 33:US ~31:62/982,140 ~32:27/02/2020

2022/09310 ~ Complete ~54:METHOD FOR EXTRACTING AVIAN INFLUENZA EGG YOLK ANTIBODIES ~71:INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, People's Republic of China ~72: JIN, Zhenhua;LI, Zhongqiu;LIU, Guojun;PENG, Fugang;SUN, Jinyan;YUE, Shan;ZHAO, Xiuhua~

2022/09315 ~ Complete ~54:POTENTILLA ANSERINA BISCUIT AND PREPARATION METHOD THEREOF ~71:Qinghai Nationalities University, No. 3, Bayi Middle Road, Chengdong District, Xining City, Qinghai Province, 810007, People's Republic of China ~72: BAI, Shijun;LI, Junqiao~

2022/09329 ~ Complete ~54:EVALUATION-PROCESSING METHOD AND DEVICE FOR IMPORTANCE OF COAL-WATER COORDINATED CO-MINING ~71:Inner Mongolia Agricultural University, No. 306, Zhaowuda Road, Saihan District, Hohhot, Inner Mongolia Autonomous Region, People's Republic of China ~72: Liu HaiYan;Liu XiaoMin;Wang WenGuang;Wang WenJuan;Wang ZhenYu~

2022/09331 ~ Complete ~54:EVALUATION METHOD AND SYSTEM OF COAL-WATER COORDINATED EXPLOITATION DEGREE BASED ON ANP THEORY ~71:Inner Mongolia Agricultural University, No. 306, Zhaowuda Road, Saihan District, Hohhot, Inner Mongolia Autonomous Region, People's Republic of China ~72: Liu HaiYan;Liu XiaoMin;Wang WenJuan;Wang ZhenYu~

2022/09335 ~ Complete ~54:METHODS AND COMPOSITIONS FOR THE TREATMENT OF HEMANGIOMA ~71:GILLIES MCINDOE RESEARCH INSTITUTE, 7 Hospital Road, Palmerston North, New Zealand;MASSEY VENTURES LIMITED, Tennent Drive, Palmerston North, New Zealand ~72: DAVIS, Paul, Frank;MACKAY, Sean, Marshall;PATERSON, Erin, Fay;TAN, Eng Wui;TAN, Swee Thong~ 33:NZ ~31:761251 ~32:29/01/2020

2022/09339 ~ Complete ~54:TOPICAL DICLOFENAC COMPOSITIONS AND METHODS ~71:FERRING B.V., Polaris Avenue 144, Netherlands ~72: CARRARA, Dario N.R.;GRENIER, Amaud~ 33:US ~31:62/982,589 ~32:27/02/2020

2022/09349 ~ Complete ~54:FAT-BASED FILLING COMPOSITION ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: FERNANDEZ

FARRES, Isabel;GUNES, Zeynel Deniz;MARTY-TERRADE, Stephanie;RODRIGUEZ ROSENDE, Ricardo Andrés;SAGALOWICZ, Laurent~ 33:EP ~31:20154271.9 ~32:29/01/2020

2022/09305 ~ Provisional ~54:END CAP ~71:DOORS GALORE (PTY) LTD, 655 Old Main Pretoria Road, Wynberg, South Africa ~72: DOS SANTOS, Ricky~

2022/09308 ~ Complete ~54:NOVEL PEPTIDES AND ANALOGS FOR USE IN THE TREATMENT OF ORAL MUCOSITIS ~71:ANNETT ROZEK, 160 College Park Way, Port Moody, British Columbia, V3H 1S4, Canada;JACKSON LEE, 117-9371 Hemlock Drive, Richmond, British Columbia, V6Y 4K6, Canada;JOHN NORTH, 1685 Beaufort Avenue, Comox, British Columbia, V9M 1R8, Canada;MICHAEL ABRAMS, 9543 Stein Road, Custer, Washington, 98240, United States of America;OREOLA DONINI, 619 Chapman Avenue, Coquitlam, British Columbia, V3J 4A2, Canada;SOLIGENIX, INC., 29 Emmons Drive Suite C-10, Princeton, New Jersey, 08540, United States of America ~72: ANNETT ROZEK;JACKSON LEE;JOHN NORTH;MICHAEL ABRAMS;OREOLA DONINI~ 33:US ~31:61/877,767 ~32:13/09/2013

2022/09313 ~ Complete ~54:NOVEL CONNECTION DEVICE SUITABLE FOR VARIOUS TRACKSIDE APPARATUSES ~71:ELECTRICAL ENGINEERING CO., LTD. OF CTCE GROUP, No. 9, Yinghu Road, Bengbu City, Anhui Province, People's Republic of China ~72: Chao Zhang;Hao Sun;Jian Chen;Jianguo Wang;Wei Ye;Xianfeng Sun;Yan Zhao;Yongshuai Yuan;Zhen Shen;Zhineng Hong~ 33:CN ~31:202111640922.5 ~32:29/12/2021

2022/09317 ~ Complete ~54:SODIUM TITANOSILICATE COMPOSITE POROUS MICROSPHERES FOR CESIUM ION ADSORPTION ~71:Hebei Zhuhe Group Xinglong County Mining Co., Ltd., Mayigou Village, Qingsongling Town, Xinglong County, Chengde City, Hebei Province, 067304, People's Republic of China ~72: SHEN, Yi;YANG, Guanghe;ZHANG, Zhiguo~

2022/09323 ~ Complete ~54:METHOD FOR SIMULTANEOUS DETECTION OF GASTRODIN (GAS), PARISHIN B (PB), AND FOUR NEUROTRANSMITTERS IN RAT BRAIN BY MICRODIALYSIS IN VITRO AND IN VIVO ~71:Guizhou Medical University, University Town, Gui'an New District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: CHEN, Siying;CHEN, Yan;CHEN, Yi;GONG, Zipeng;HUANG, Jing;HUANG, Yong;LI, Yongjun;LI, Yueting;WANG, Aimin;ZHENG, Lin~

2022/09327 ~ Complete ~54:STRUCTURE OF SHOCK WAVE COMBUSTION-SUPPORTING TYPE PRECOMBUSTION CHAMBER FOR A GAS ENGINE ~71:ShanDong JiaoTong University, No. 5 Jiaoxiao Road, Tianqiao District, Jinan City, Shandong Province, 250023, People's Republic of China ~72: LI, Yue~

2022/09333 ~ Complete ~54:ALBIC SOIL MODIFY AND PREPARATION METHOD THEREOF ~71:Institute of Applied Ecology.Chinese Academy of Sciences, No.72 Wenhua Road, Shenhe District, Shenyang City, Liaoning Province, People's Republic of China ~72: Shi Yuanliang;Wang Lingli;Wei Zhanbo;Zhang Lei~

2022/09337 ~ Complete ~54:TRAFFIC MANAGEMENT DEVICE, TRAFFIC MANAGEMENT SYSTEM, TRAFFIC INFORMATION SYSTEM, STARTING MODULE THAT CAN BE RETROFITTED AND METHOD FOR MANAGING TRAFFIC ~71:ETO MAGNETIC GMBH, Hardtring 8, Germany ~72: Benjamin BÖNISCH~ 33:DE ~31:10 2020 105 840.3 ~32:04/03/2020

2022/09341 ~ Complete ~54:MINIMALLY INVASIVE HOLLOW SKIN TIGHTENING DEVICES FOR COLLAGEN STIMULATION WITH ENERGY AND MEDICATION DELIVERY ~71:YAE, LLC, 1395 Brickell Avenue Suite 800, Miami, Florida, 33131, United States of America ~72: FERNANDO BENJAMIN FISCHMANN~ 33:US ~31:62/964,961 ~32:23/01/2020

2022/09347 ~ Complete ~54:DISINFECTION OF SOIL BY APPLICATION OF ELECTRIC VOLTAGE ~71:Clean Soil Agro Ltd., Or-Haner 15, OR-HANER 7919000, ISRAEL, Israel ~72: BAREL, Nimrod;LEBOVITS, Yoram;YAFFE, Oded;YAFFE, Uri~ 33:IL ~31:272383 ~32:30/01/2020

2022/09309 ~ Complete ~54:ACTIVE PROBIOTIC FEED ADDITIVE ~71:INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, People's Republic of China ~72: JIN, Zhenhua;LI, Zhongqiu;LIU, Guojun;PENG, Fugang;SUN, Jinyan;YUE, Shan;ZHAO, Xiuhua~

2022/09312 ~ Complete ~54:GLP-1R AGONISTS AND USES THEREOF ~71:Qilu Regor Therapeutics Inc., Building 10, No. 1206, Zhangjiang Road, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: ZHONG, Wenge~ 33:IB ~31:2018/117047 ~32:22/11/2018

2022/09322 ~ Complete ~54:METHOD FOR SIMULTANEOUS DETERMINATION OF CONTENTS OF SIX ACTIVE INGREDIENTS IN SHUGANNING INJECTION IN RAT PLASMA ~71:Guizhou Medical University, University Town, Gui'an New District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: CHEN, Yi;GONG, Zipeng;HE, Feng;HUANG, Yong;JIN, Yang;KANG, Ningfang;LI, Yueting;PENG, Jianqing;TANG, Chao;ZHENG, Lin~

2022/09325 ~ Complete ~54:WRAPPED ENCLOSURE STRUCTURE SYSTEM SUITABLE FOR PREFABRICATED SUBSTATION ~71:Hangzhou Electric Power Design Institute Co.LTD, 388 Shaoxing Road, Gongshu District, Hangzhou City, Zhejiang Province, People's Republic of China ~72: CHEN Jiahui;CHEN Pan;HU Chengang;JI Xiaomeng;LI Jianyu;LI Xianfeng;PAN Shengjun;SHENG Xueqing;TU Feng;YANG Xianjin~

2022/09340 ~ Complete ~54:CELLULAR UPTAKE ~71:AXCESS (UK) LTD, 8 MANOR HOUSE CL, MAGHULL, LIVERPOOL L31 7BX, UNITED KINGDOM, United Kingdom ~72: NEW, Roger R. C.;TRAVERS, Glen~ 33:AU ~31:2020900183 ~32:23/01/2020

2022/09356 ~ Complete ~54:PRODUCTION OF LIGHT OLEFINS FROM CRUDE OIL VIA FLUID CATALYTIC CRACKING PROCESS AND APPARATUS ~71:LUMMUS TECHNOLOGY LLC, 5825 North Sam Houston Parkway West, Suite 600, United States of America ~72: BRECKENRIDGE, Justin;CHEN, Liang;MARRI, Rama Rao;SOM, Manoj~ 33:US ~31:62/989,507 ~32:13/03/2020

2022/09314 ~ Complete ~54:METHOD FOR MAKING RED JUJUBE-FLAVORED POTENTILLA ANSERINA FRUIT CRISPS ~71:Qinghai Nationalities University, No. 3, Bayi Middle Road, Chengdong District, Xining City, Qinghai Province, 810007, People's Republic of China ~72: BAI, Shijun;LI, Junqiao~

2022/09316 ~ Complete ~54:SODIUM TITANOSILICATE COMPOSITE FIBER FOR CESIUM ION ADSORPTION AND PRODUCT THEREOF ~71:Hebei Zhuhe Group Xinglong County Mining Co., Ltd., Mayigou Village, Qingsongling Town, Xinglong County, Chengde City, Hebei Province, 067304, People's Republic of China ~72: SHEN, Yi;YANG, Guanghe;ZHANG, Zhiguo~

2022/09332 ~ Complete ~54:NEW M2B-BASED SYSTEM FOR COMBINE COOPERATIVE POOL AND MIXED COMMERCIAL SERVICES ~71:Huizhou University, No. 46, Yanda Avenue, Huizhou, Guangdong, People's Republic of China;Shenzhen Guangde Education Technology Co., Ltd, Room 205, 2nd floor, Fulin building, No. 6297, Bao'an Avenue, Qiaotou community, Fuyong street, Bao'an District, Shenzhen, People's Republic of China;Xuri Trading (China) Co., Ltd, 3rd floor, No. 8, Juhua 1st Road, Yunshan, Jiangbei, Huizhou, People's Republic of China ~72: Chen GuiLin;Chen XueJun;Lin Hong~

2022/09342 ~ Complete ~54:RESPIRATORY VIRUS IMMUNIZING COMPOSITIONS ~71:MODERNATX, INC., 200 Technology Square, Cambridge, Massachusetts, 02139, United States of America ~72: CHRISTINE

SHAW;ELISABETH NARAYANAN;GUILLAUME STEWART-JONES;SAYDA MAHGOUB ELBASHIR;VLADIMIR PRESNYAK~ 33:US ~31:62/967,888 ~32:30/01/2020

2022/09346 ~ Complete ~54:COMPOSITIONS CONTAINING ZIRCONIUM AND CERIUM AND METHODS FOR PREPARING SAME USING OXALIC ACID AND SUPERCRITICAL DRYING ~71:NEO PERFORMANCE MATERIALS (SINGAPORE) PTE. LTD., #01-19 The Galen, 61 Science Park Road, Singapore Science Park Road III, 117525, Singapore ~72: BARRY HUANG;JESLINE TANG;PERLYN KOH;SZU HWEE NG~ 33:US ~31:62/990,420 ~32:16/03/2020

2022/09353 ~ Complete ~54:GRAPHICAL USER INTERFACE SYSTEM ~71:Methodical Mind, LLC., 1601 Research Blvd., ROCKVILLE 20850, MD, USA, United States of America ~72: NG, Kin;OBEROI, Pankaj;PANG, Louis W.;ROQUES, Edward J.S.;SIGAL, George;VOCK, Michael;WOHLSTADTER, Jacob N.~ 33:US ~31:62/964,435 ~32:22/01/2020

2022/09355 ~ Complete ~54:MULTIFUNCTIONAL AUTOMATIC DETECTION PLATFORM BASED ON MACHINE VISION TECHNOLOGY ~71:HUAINAN NORMAL UNIVERSITY, Huainan Normal University, Dongshan West Road, Tianjia-an District, Huainan, Anhui, 232038, People's Republic of China ~72: CHU, Tao;HUANG, Kaifeng;WU, Long;XIANG, Baokang;ZHOU, Ruihong~ 33:CN ~31:202210834700.5 ~32:14/07/2022

2022/09304 ~ Provisional ~54:COUNTERWEIGHT ~71:DOORS GALORE (PTY) LTD, 655 Old Main Pretoria Road, Wynberg, South Africa ~72: DOS SANTOS, Ricky~

2022/09357 ~ Provisional ~54:PIVOT PALLET 3 ~71:MARTHINUS JORDAAN NORTJÉ, 76 HAMILTON ROAD CLAREMONT, South Africa ~72: MARTHINUS JORDAAN NORTJÉ~

2022/09354 ~ Complete ~54:STRAW BALE BURNING DIRECT-FIRED BIOMASS BOILER WITH BOILER DRYING INSIDE ~71:HAILUN LIMIN ENERGY SAVING BOILER MANUFACTURING CO., LTD., South Of Jine Road, West Of The Chemical Fertilizer Market, Hailun Town, Hailun City, Suihua, Heilongjiang, 152300, People's Republic of China ~72: BIE, Rushan;LI, Cai;LIU, Fenglei;WAN, Bangqi;ZHANG, Huaiyu;ZHANG, Liangliang~ 33:CN ~31:202210428259.0 ~32:22/04/2022

- APPLIED ON 2022/08/22 -

2022/09386 ~ Complete ~54:A SYSTEM TO IDENTIFY A SNAKE AND A METHOD THEREOF ~71:MOHINI NIRAJ SHETH, 115/22, NISARGA BUNGLOW, SHIVAJINAGAR, CHAMBHARKHIND, A/P.TAL MAHAD, DIST:RAIGAD, India;PROF. SANJAY LAXMIKANT NALBALWAR, D-103, AARYA GREENS, NEAR SBI LONERE, TAL:MAHAD, DIST:RAIGAD, India ~72: MOHINI NIRAJ SHETH;PROF. SANJAY LAXMIKANT NALBALWAR~

2022/09388 ~ Complete ~54:A CONVOLUTIONAL NEURAL NETWORK SYSTEM FOR CORONARY ARTERY DISEASE DIAGNOSIS ~71:Afshin Shoeibi, Researcher, University of New South Wales (UNSW), High Street, Sydney, Australia;Danial Sharifrazi, Researcher, Islamic Azad University (Shiraz Branch), Shams Tabrizi street, Shiraz, Iran (Islamic Republic of);Delaram Sadeghi, Researcher, Islamic Azad University (Mashhad Branch), Ostad Yousefi Blvd, Mashhad, Iran (Islamic Republic of);Fahime Khozeimeh, PhD student, Deakin University, 10 Dartmoor drive, Geelong, Australia;Hamid Alinejad-Rokny, Head of BioMedical Machine Learning Lab, University of New South Wales (UNSW), High Street, Sydney, Australia;Javad Hassannataj Joloudari, Researcher, University of Birjand, Modarres Street, Babol, Iran (Islamic Republic of);Marjane Khodatars, Researcher, Islamic Azad University (Mashhad Branch), Ostad Yousefi Blvd, Mashhad, Iran (Islamic Republic of);Mehrzad Tartibi, Researcher, DelBeat Inc, 2038 Parker st., Berkeley, United States of America;Navid Hoseini Izadi, Researcher, Isfahan University of Technology, North Sheikh Sadoogh Street, Isfahan, Iran (Islamic Republic of);Roohallah

Alizadehsani, Postdoctoral Research Fellow, Deakin University, 10 Dartmoor drive, Geelong, Australia;Sadiq Hussain, System Administrator, Dibrugarh University, Qtr. No. OW/5, Dibrugarh University Residential Campus, Dibrugarh, India;Saeid Nahavandi, Professor, Deakin University, 75 Pigdons Rd, Waurn Ponds, Australia;U Rajendra Acharya, Professor, Ngee Ann Polytechnic, Clementi Road, Singapore;Zahra Alizadeh Sani, Associate professor, Omid Hospital, 75 Royal Parade, Melbourne, Australia ~72: Afshin Shoeibi;Danial Sharifrazi;Delaram Sadeghi;Fahime Khozeimeh;Hamid Alinejad-Rokny;Javad Hassannataj Joloudari;Marjane Khodatars;Mehrzad Tartibi;Navid Hoseini Izadi;Roohallah Alizadehsani;Sadiq Hussain;Saeid Nahavandi;U Rajendra Acharya;Zahra Alizadeh Sani~

2022/09389 ~ Complete ~54:RESTRAINING OF SERVICE ACCESS TO HSI CRUSHER CHAMBER ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: HEIKKILÄ, Juhamatti;LAMMINMÄKI, Marko~ 33:FI ~31:20205243 ~32:06/03/2020

2022/09393 ~ Complete ~54:FILTER ELEMENT LOCKING MECHANISM ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: IMMEL, Jon T.;MOREHOUSE III, Darrell L.;OEDEWALDT, Stephen E.;RIES, Jeffrey R.;SPENGLER, Philip C.~ 33:US ~31:16/799,356 ~32:24/02/2020

2022/09378 ~ Complete ~54:SIMPLE AND EASY-TO-USE PAINT MACHINE ~71:GUIZHOU UNIVERSITY, No. 1 Huaxi Avenue, Huaxi District, Guiyang City, Guizhou Province, People's Republic of China ~72: LIN Li~

2022/09401 ~ Complete ~54:FLUORINE-CONTAINING RESIN COMPOSITION, PREPARATION METHOD THEREFOR, AND PREPARATION METHOD FOR CURED FILM CONTAINING SAME ~71:XI'AN MANARECO NEW MATERIALS CO., LTD., Sub 71, Jinye 2nd Road, High-tech Zone, Xi'an, Shaanxi, 710077, People's Republic of China ~72: GAO, Renxiao;LI, Qigui;LIU, Shuang;MA, Aiping;WANG, Pengfei;WANG, Xiaowei;ZHANG, Yang~ 33:CN ~31:202011612200.4 ~32:30/12/2020

2022/09406 ~ Complete ~54:KRAS SPECIFIC ANTIBODIES AND USES THEREOF ~71:GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080-4990, United States of America ~72: CHRISTOPHER WILLIAMSON DAVIES;JAMES THOMAS KOERBER;JOHN BRUNING;JOHN GERARD QUINN;MARIE EVANGELISTA;MELINDA M MULVIHILL;MICAH STEFFEK;WEIRU WANG~ 33:US ~31:63/018,356 ~32:30/04/2020

2022/09361 ~ Provisional ~54:COVID-19 TREATMENT ~71:Lipuo Jacoline Tshabalala, 11 Boundary Road, ext 6 Meyerton, Guateng, South Africa ~72: Lerato Tshabalala~

2022/09362 ~ Complete ~54:SURFACE ENHANCED RAMAN SPECTRUM RAPID DETECTION METHOD FOR CHLORPYRIFOS AND ACETAMIPRID IN MULBERRY LEAVES ~71:Zhejiang University, No. 866 Yuhangtang Road, Xihu District, Hangzhou City, Zhejiang Province, 310058, People's Republic of China ~72: GAO, Huaqi;HUANG, Lingxia;YANG, Liang~

2022/09364 ~ Complete ~54:SLUDGE PHOSPHORUS RECOVERY SYSTEM FOR DOMESTIC SEWAGE TREATMENT PLANT ~71:Guizhou Minzu University, Dongjiayan, Huaxi District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: JIANG, Xiuya;PAN, Guiying;PENG, Yan;WANG, Zhikang;YANG, Cheng;YUAN, Ju;ZENG, Guangneng~

2022/09367 ~ Complete ~54:INTELLIGENT DRIVING SIMULATION TEST SYSTEM BASED ON VIRTUAL REALITY TECHNOLOGY ~71:Shanghai Polytechnic University, No.2360,Jinhai Road, Pudong New District, Shanghai, People's Republic of China ~72: CAO Long;GU Wenjun;LI Wenchen;LV Qinyuan;QIN Qin;TU Zimei;ZHANG Yahui~

2022/09374 ~ Complete ~54:AUTOMATIC IDENTIFICATION AND DEFECT DETECTION DEVICE BASED ON MOBILENETV2 ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: HAN, Chongpeng;LIAN, Zheng;LIU, Bin;MA, Haoning;NIAN, Fuqiang;REN, Jian;YANG, Haibo;YU, Hui;ZHANG, Linqi;ZHANG, Song;ZHOU, Yinggang~

2022/09380 ~ Complete ~54:BREEDING METHOD OF HYBRID SIMMENTAL-HOLSTEIN-LOCAL DUAL-PURPOSE COW ~71:Sichuan Animal Science Academy, 7# niusha Street, Jinjiang District, Chengdu, Sichuan, People's Republic of China ~72: AGuo YueDa;Deng XiaoDong;Fang DongHui;Fu MaoZhong;Gan Jia;He Fang;Shi Yi;Wang Wei;Yi Jun;Zhan Suqiong~

2022/09399 ~ Complete ~54:A METHOD OF PRODUCING A CRYSTALLINE FORM OF SODIUM 2-[(4S)-8-FLUORO-2-[4-(3-METHOXYPHENYL)PIPERAZIN-1-YL]-3-[2-METHOXY-5-(TRIFLUOROMETHYL)PHENYL]-4H-QUINAZOLIN-4-YL]ACETATE TRIHYDRATE ~71:AIC246 AG & Co. KG, Friedrich-Ebert-Str. 475, WUPPERTAL 42117, GERMANY, Germany ~72: BUSCHMANN, Helmut;CERON BERTRAN, Jordi Carles;GOLDNER, Thomas~ 33:EP ~31:20159727.5 ~32:27/02/2020

2022/09400 ~ Complete ~54:SYSTEMS AND METHODS FOR A HAIR TRANSPLANT SYSTEM WITH EXTRACTION AND IMPLANTATION NEEDLES ~71:The General Hospital Corporation, 55 Fruit Street, BOSTON 02114, MA, USA, United States of America ~72: ANDERSON, Richard Rox;DRAKE, Lynn;FARINELLI, William A.;FRANCO, Walfre;IBARRA-SILVA, Esmeralda;KORUPOLU, Sandeep;TAM, Joshua~ 33:US ~31:62/979,504 ~32:21/02/2020

2022/09404 ~ Complete ~54:VACCINE AGAINST AFRICAN SWINE FEVER VIRUS INFECTION ~71:KUMAMOTO UNIVERSITY, 2 Chome-39-1 Kurokami, Chuo Ward, Kumamoto, Kumamoto, 860-8555, Japan;THE PIRBRIGHT INSTITUTE, Ash Road, Woking, Surrey, GU24 0NF, United Kingdom;UNIVERSITY OF OXFORD, The Chancellor, Masters and Scholars of the University of Oxford, University Offices, Wellington Square, Oxford, Oxfordshire, OX1 2JD, United Kingdom ~72: ANA REIS;ANUSYAH RATHAKRISHNAN;LINDA DIXON;SHINJI IKEMIZU;SIMON DAVIS;YUAN JENQ LUI~ 33:GB ~31:2003289.2 ~32:06/03/2020;33:GB ~31:2003292.6 ~32:06/03/2020;33:GB ~31:2005878.0 ~32:22/04/2020;33:GB ~31:2005880.6 ~32:22/04/2020;33:GB ~31:2013541.4 ~32:28/08/2020

2022/09379 ~ Complete ~54:STRAWBERRY PLANT DISEASE AND INSECT PEST INTEGRATED PREVENTION AND CONTROL CULTIVATION DEVICE ~71:Nantong Huanghai Pharmaceutical Machinery Co., Ltd, No. 88, Jianghai West Road, Hai'an County, Jiangsu Province, People's Republic of China ~72: Cai Guangzhou;Chen Aishan;Cui Chunmei;Xie Luguan;Xie Wei~

2022/09381 ~ Complete ~54:ZERO-DISCHARGE PROCESS FOR TREATING HIGH-SALT AND HIGH-ORGANIC WASTE WATER BASED ON WET CATALYTIC OXIDATION TECHNOLOGY ~71:Suzhou Qinghe Environmental Technology Co., Ltd, No. 88, Yejin Road, Jiangling street, Wujiang District, Suzhou, jiangsu province, People's Republic of China ~72: Li Hongling;Peng Hui;Yang Xiaomei;Zhi Songka~

2022/09385 ~ Complete ~54:A TRASH COLLECTING MACHINE ~71:Darpan Tripathi, Student, B.T. Kumaon Institute of Technology, E-13 Yamuna colony, Chakrata Road, Dehrdadun, India;Dr. Satyendra Singh, Professor, Department of Mechanical Engineering, B.T. Kumaon Institute of Technology, Dwarahat, Almora, India;Kapil Mohan, Assistant Professor, Department of Mechanical Engineering, B.T. Kumaon Institute of Technology, Dwarahat, Almora, India;Kuldeep Rana, Student, B.T. Kumaon Institute of Technology, Village Makhti, P.O -Nagau Tehsil Chakrata Dehradun, India;Santosh Kumar, Assistant Professor, Department of Mechanical Engineering, B.T. Kumaon Institute of Technology, Dwarahat, Almora, India ~72: Darpan Tripathi;Dr. Satyendra Singh;Kapil Mohan;Kuldeep Rana;Santosh Kumar~ 2022/09387 ~ Complete ~54:A COMPOSITION AND A METHOD FOR SOLVOTHERMAL SYNTHESIS OF A 3D FE–AL BIMETALLIC METAL–ORGANIC-FRAMEWORK ~71:SIDHO-KANHO-BIRSHA UNIVERSITY, (The Registrar), Ranchi Road, P.O. Sainik School, Purulia, India ~72: ARNAB MUKHERJEE;DR. DEBASIS DHAK;Dr. PRASANTA DHAK~

2022/09396 ~ Complete ~54:ANTI-ADRENOMEDULLIN (ADM) BINDER FOR USE IN THERAPY OF PATIENTS IN SHOCK ~71:AdrenoMed AG, Neuendorfstraße 15A, HENNIGSDORF 16761, GERMANY, Germany ~72: BERGMANN, Andreas~ 33:EP ~31:20159913.1 ~32:27/02/2020;33:EP ~31:20206317.8 ~32:06/11/2020

2022/09397 ~ Complete ~54:HUMANIZED MONOCLONAL ANTIBODY FOR 2019 NOVEL CORONAVIRUS AND USE THEREOF ~71:Institute of Microbiology, Chinese Academy of Sciences, No. 3, Courtyard 1, Beichen West Road, CHAOYANG DISTRICT 100101, BEIJING, CHINA (P.R.C.), People's Republic of China ~72: GAO, Fu;MA, Sufang;SHI, Rui;WANG, Qihui;YAN, Jinghua~ 33:CN ~31:202010114283.8 ~32:24/02/2020;33:CN ~31:202010137486.9 ~32:02/03/2020;33:CN ~31:202110044541.4 ~32:13/01/2021

2022/09398 ~ Complete ~54:PIGMENT COMPRISING RAPHANUS SATIVUS EXTRACT AND MONTMORILLONITE ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: CROVILLE, Claire;LAVAUD, Alexis;MARTINEZ, Jessy;SENNELIER PORTET, Bénédicte;TARDIEU, Anne-Sophie~ 33:GB ~31:2004239.6 ~32:24/03/2020;33:GB ~31:2103524.1 ~32:15/03/2021

2022/09358 ~ Provisional ~54:A TIPPING APPARATUS ~71:VDM SUPPLY CHAIN SOLUTIONS (PTY) LTD, FARM NO. 127/1, YZERVARKENSRUG, 7395 SALDANHA, SOUTH AFRICA, South Africa ~72: VAN DER MERWE, Dirk~

2022/09366 ~ Complete ~54:SYSTEM AND METHOD FOR RECOVERING PROTEIN AND PHOSPHORUS FROM EXCESS SLUDGE OF SEWAGE TREATMENT PLANT ~71:Guizhou Minzu University, Dongjiayan, Huaxi District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: FAN, Bailing;JIANG, Xiuya;PAN, Guiying;PENG, Yan;WANG, Zhikang;YANG, Cheng;YUAN, Ju;ZENG, Guangneng~

2022/09373 ~ Complete ~54:SPEED CONTROL SYSTEM BASED ON WEAK MAGNETIC STRESS DETECTOR AND CONTROL METHOD THEREOF ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: GE, Qian;HE, Luyao;LIANG, Zheng;LIU, Bin;MA, Haoning;MA, Xue;REN, Jian;YANG, Lijian;ZHANG, Linqi;ZHANG, Song~

2022/09375 ~ Complete ~54:WEAK MAGNETIC DETECTING SYSTEM AND METHOD FOR WELD DAMAGES ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: HE, Luyao;LIANG, Zheng;LIU, Bin;LIU, Liren;MA, Haoning;MA, Xue;REN, Jian;WANG, Fuchuan;YANG, Lijian;ZHANG, Linqi;ZHANG, Song~

2022/09360 ~ Provisional ~54:A BEARING HOUSING ~71:LUMAX ENERGY (PTY) LTD, Unit 1, 270 Roan Crescent, Corporate Park North, Midrand, 1683, South Africa, South Africa ~72: ROON, Selwin, Jakobus, Emiel;VAN WYK, Jan, Carl;VERMAAK, Frans, Willem~

2022/09363 ~ Complete ~54:METHOD FOR PREPARING POLYETHYLENE COPOLYMER ~71:PetroChina Company Limited, No. 9, North Street, Dongzhimen, Dongcheng District, Beijing, 100007, People's Republic of China;Tianjin University of Science and Technology, No. 9, 13 Street, Economic and Technological Development Zone, Binhai New Area, Tianjin, 300457, People's Republic of China ~72: CAO, Chengang;GAO, Xueqi;LIU, Ruoxuan;LU, Chao;SHANG, Wenjing~

2022/09369 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR SUBCUTANEOUS INJECTION COMPRISING HUMAN HYALURONIDASE PH20 VARIANT AND DRUG ~71:ALTEOGEN INC., 62, YUSEONG-DAERO, 1628BEON-GIL, YUSEONG-GU, DAEJEON 34054, REP OF KOREA, Republic of Korea ~72: BYUN, Minsoo;CHUNG, Hye-Shin;KIM, Kyuwan;LEE, Seung Joo;NAM, Ki Seok;PARK, Soon Jae~ 33:KR ~31:10-2019-0033880 ~32:25/03/2019

2022/09371 ~ Complete ~54:PREPARATION METHOD FOR FENGFANG PILLS AND APPLICATION THEREOF ~71:Affiliated Hospital of Inner Mongolia Medical University, No. 1, Tongdao North Street, Huimin District, Hohhot 010059, Inner Mongolia, CHINA (P.R.C.), People's Republic of China ~72: XIE, Hongxia~

2022/09391 ~ Complete ~54:FUSED BICYCLIC DERIVATIVE, PREPARATION METHOD THEREFOR, AND PHARMACEUTICAL USE THEREOF ~71:JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., No. 7 Kunlunshan Road, Economic and Technological Development Zone, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing Road, Minhang District, People's Republic of China ~72: CHEN, Yang;HE, Feng;LI, Xin;LI, Zhihao;TAO, Weikang;ZHANG, Zhigao~ 33:CN ~31:202010185224.X ~32:17/03/2020;33:CN ~31:202010418453.1 ~32:18/05/2020;33:CN ~31:202110241159.2 ~32:04/03/2021

2022/09392 ~ Complete ~54:CAPTURING EVIDENCE ~71:ASSETOWL TECHNOLOGIES PTY LTD, LEVEL 14, 225 ST GEORGES TERRACE, PERTH, WESTERN AUSTRALIA 6000, AUSTRALIA, Australia ~72: AZIMI, Nima;DELL, Seth;DI FRANCO, Giuseppe;LOO, Frederick;PARSONS, Robert, William~ 33:AU ~31:2020900235 ~32:29/01/2020

2022/09394 ~ Complete ~54:LOCKING FEATURE FOR A FILTER ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: IMMEL, Jon T.;MOREHOUSE III, Darrell L.;OEDEWALDT, Stephen E.;RIES, Jeffrey R.;SPENGLER, Philip C.~ 33:US ~31:16/799,121 ~32:24/02/2020

2022/09395 ~ Complete ~54:TOP AND BOTTOM LOADED FILTER AND LOCKING MECHANISM ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: IMMEL, Jon T.;MOREHOUSE III, Darrell L.;OEDEWALDT, Stephen E.;RIES, Jeffrey R.;SPENGLER, Philip C.~ 33:US ~31:16/799,193 ~32:24/02/2020

2022/09402 ~ Complete ~54:CLAMPING VEHICLE LANE CONTROL METHOD AND SYSTEM, ELECTRONIC DEVICE AND STORAGE MEDIUM ~71:AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP, Block 1, Room 606, No. 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou, Guangdong, 510700, People's Republic of China;SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., Building 1, No.4766, Jiangshan Road, Nicheng Town, Pudong New Area Shanghai, 201308, People's Republic of China ~72: CHUNHUA HUANG;JIANPING ZHANG~ 33:CN ~31:202010076992.1 ~32:23/01/2020

2022/09383 ~ Complete ~54:AUTOMATIC CLASSIFICATION METHOD, DEVICE AND ELECTRONIC DEVICE FOR GENE VARIATIONS ~71:Precision Scientific (Beijing) Co.,Ltd., No. 66 Wangmi Street, High-tech Zone, Suzhou, Jiangsu Province, 215000, People's Republic of China;Precision Scientific Biomedicine (Suzhou) Co.,Ltd., No. 66 Wangmi Street, High-tech Zone, Suzhou, Jiangsu Province, 215000, People's Republic of China;Precision Scientific Co.,Ltd., No. 66 Wangmi Street, High-tech Zone, Suzhou, Jiangsu Province, 215000, People's Republic of China ~72: Chao Xue;Xinyun Xu;Xuwo Ji;Yu Dong;Zhongyu Guo~ 33:CN ~31:202210339513.X ~32:01/04/2022

2022/09390 ~ Complete ~54:PPO FORMULATIONS CONTAINING ETHER SULFATES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: FINDLEY, Douglas;MEINERS, Ingo;MERTOGLU, Murat;SCHREIECK, Jochen;SEISER, Tobias;URCH, Henning~ 33:US ~31:62/964,861 ~32:23/01/2020;33:US ~31:62/964,868 ~32:23/01/2020;33:US ~31:62/964,874

~32:23/01/2020;33:EP ~31:20172833.4 ~32:05/05/2020;33:EP ~31:20172834.2 ~32:05/05/2020;33:EP ~31:20172837.5 ~32:05/05/2020;33:EP ~31:20200249.9 ~32:06/10/2020

2022/09403 ~ Complete ~54:VACCINE AGAINST AFRICAN SWINE FEVER VIRUS INFECTION ~71:KUMAMOTO UNIVERSITY, 2 Chome-39-1 Kurokami, Chuo Ward, Kumamoto, Kumamoto, 860-8555, Japan;THE PIRBRIGHT INSTITUTE, Ash Road, Woking, Surrey, GU24 0NF, United Kingdom;UNIVERSITY OF OXFORD, The Chancellor, Masters and Scholars of the University of Oxford, University Offices, Wellington Square, Oxford, Oxfordshire, OX1 2JD, United Kingdom ~72: ANA REIS;LINDA DIXON;SHINJI IKEMIZU;SIMON DAVIS;YUAN JENQ LUI~ 33:GB ~31:2003289.2 ~32:06/03/2020;33:GB ~31:2003292.6 ~32:06/03/2020;33:GB ~31:2005878.0 ~32:22/04/2020;33:GB ~31:2005880.6 ~32:22/04/2020;33:GB ~31:2013541.4 ~32:28/08/2020

2022/09405 ~ Complete ~54:METHOD FOR PERFORMING WORKING USING OSMOSIS ~71:OLIVER PIESTERT, Lämmer Str. 4, 38640, Goslar, Germany ~72: OLIVER PIESTERT~ 33:EP ~31:20164659.3 ~32:20/03/2020

2022/09365 ~ Complete ~54:DEWATERING-FREE COMPREHENSIVE RESOURCE UTILIZATION SYSTEM FOR EXCESS SLUDGE OF DOMESTIC SEWAGE TREATMENT PLANT ~71:Guizhou Minzu University, Dongjiayan, Huaxi District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: JIANG, Xiuya;PAN, Guiying;PENG, Yan;WANG, Zhikang;YANG, Cheng;YUAN, Ju;ZENG, Guangneng~

2022/09368 ~ Complete ~54:METHOD FOR ANALYZING SPATIAL-TEMPORAL MOBILITY CHARACTERISTICS OF HIGHWAY BASED ON LARGE-SCALE TOLL COLLECTION DATA ~71:Shandong Jianzhu University, No. 1000, Fengming Road, Lingang Development Zone, Jinan City, Shandong Province, 250101, People's Republic of China ~72: JIA, Jianmin;SHI, Baiying;ZHANG, Hui~

2022/09370 ~ Complete ~54:FERROALLOY SMELTING PROCESS ~71:GREYLING, Frederik Petrus, 5 St George Avenue, Midlands Estate, South Africa ~72: GREYLING, Frederik Petrus~ 33:NL ~31:N2030140 ~32:15/12/2021

2022/09372 ~ Complete ~54:SOLAR ENERGY SYSTEM WITH EFFICIENCY ENHANCEMENT ~71:Season Energy Technology Co., Ltd., 4F-6, No. 160, Sec. 1, Guiren 13th Rd, TAINAN CITY 711010, GUIREN DISTRICT, TAIWAN (R.O.C.), Taiwan, Province of China ~72: YANG, Ching-Chieh~

2022/09377 ~ Complete ~54:METHOD AND SYSTEM FOR FAST VISUAL DETECTION OF POWER-ON OF LED FILAMENT ~71:SHANXI INSTITUTE OF ENERGY, No. 63, Daxue street, Yuci District, Jinzhong City, Shanxi Province, People's Republic of China ~72: ZHANG Liying~

2022/09382 ~ Complete ~54:METHOD FOR PREDICTING DIFFERENTIAL TRANSCRIPTIONAL EXPRESSION PROFILE AND DRUG INDICATIONS AFTER DRUG ACTION ~71:Precision Scientific (Beijing) Co.,Ltd., No. 66 Wangmi Street, High-tech Zone, Suzhou, Jiangsu Province, 215000, People's Republic of China;Precision Scientific Biomedicine (Suzhou) Co.,Ltd., No. 66 Wangmi Street, High-tech Zone, Suzhou, Jiangsu Province, 215000, People's Republic of China;Precision Scientific Co.,Ltd., No. 66 Wangmi Street, High-tech Zone, Suzhou, Jiangsu Province, 215000, People's Republic of China ~72: Danyang Yu;Xinxin Peng;Xuwo Ji~ 33:CN ~31:202210257005.7 ~32:16/03/2022

2022/09384 ~ Complete ~54:UNILATERAL FORM ERECTING DEVICE AND CONSTRUCTION METHOD THEREOF ~71:CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD., 251 Beiyangwa, Liyuan Town, Tongzhou District, Beijing, 101101, People's Republic of China;CHINA CONSTRUCTION SECOND ENGINEERING BUREAU SHENZHEN CONSTRUCTION INVESTMENT DEVELOPMENT CO., LTD., Room 2407-08, Chuangtou Mansion, No.9 Tengfei Road, Longgang District, Shenzhen, 518100, People's Republic of

China ~72: BO ZHONG;JINLONG MENG;LING ZHANG;PENG CHEN;WEIJIE KONG;YUBO REN;ZHOU ZHOU~ 33:CN ~31:202210487935.1 ~32:06/05/2022

2022/09359 ~ Provisional ~54:VACUUM PUMP ~71:SHAHIM, Clinton Frederick, 8 Campbell Road , Brendavere, South Africa ~72: SCHMITT, Karl-Heinz;SHAHIM, Clinton Frederick;VISSER, Rudi~

2022/09376 ~ Complete ~54:MEDICAMENT HAVING ANTIPRURITIC EFFECTS AND PREPARATION METHOD THEREOF ~71:XU, Xiuxin, Chuangye Street Committee, Dongfeng Street, Lvyuan District, Changchun City, Jilin Province, 130000, People's Republic of China ~72: XU, Xiuxin~

- APPLIED ON 2022/08/23 -

2022/09445 ~ Complete ~54:A CLOSURE FOR A MULTI-USE DRINKS BOTTLE ~71:BW TECHNOLOGIES LTD, Unit 2, The Kilns Penn Croft Crondall, Penn Croft, Crondall Hampshire, GU10 5PX, United Kingdom;GRANT, James, 91 Weydon Lane, Farnham Surrey, GU9 8UW, United Kingdom ~72: GRANT, James;GRANT, Jon~ 33:GB ~31:2000357.0 ~32:10/01/2020

2022/09446 ~ Complete ~54:USE OF VITAMIN K IN COMBINATION WITH ANTICOAGULANTS ~71:KAYDENCE PHARMA AS, Lilieakerveien 2B, Norway ~72: VAN GORP, Rick~ 33:US ~31:62/817,037 ~32:12/03/2019

2022/09424 ~ Complete ~54:HIGH-EFFICIENCY HYBRID BREEDING METHOD FOR PEA ~71:SHANXI AGRICULTURAL UNIVERSITY/SHANXI ACADEMY OF AGRICULTURAL SCIENCES,HIGH LATITUDE CROPS INSTITUTE TO SHANXI ACADEMY, No. 18, Yingbin East Road, Datong City, Shanxi Province, People's Republic of China ~72: Chen Yanni;Feng Yu;Li MengJiao;Liu Fei;Liu Guannan;Wang Guimei;Xing Baolong;Yang Fang~

2022/09430 ~ Complete ~54:IMPROVED TREATMENT OF ATOPIC DERMATITIS WITH TRADIPITANT ~71:VANDA PHARMACEUTICALS INC., Suite 300-E, 2200 Pennsylvania Ave NW, United States of America ~72: BIRZNIEKS, Gunther;POLYMEROPOULOS, Christos;POLYMEROPOULOS, Mihael H.~ 33:US ~31:62/981,481 ~32:25/02/2020

2022/09433 ~ Complete ~54:AN INSERTER FOR AN INTRAUTERINE SYSTEM WITH A LOCKING PART ~71:Bayer Oy, Pansiontie 47, 20210, TURKU, FINLAND, Finland ~72: ALLEN, Marina;KAUTTO, Mira;LAAKSONEN, Kimmo;PERÄLÄ, Petri;RISKI, Jari;SALO, Heikki;STOLT, Mikael;TJÄDER, Taina~ 33:EP ~31:20153509.3 ~32:24/01/2020

2022/09436 ~ Complete ~54:COMPOSITIONS COMPRISING METHYLPHENIDATE-PRODRUGS, PROCESSES OF MAKING AND USING THE SAME ~71:KemPharm, Inc., 1180 Celebration Blvd., Suite 103, CELEBRATION 34747, FL, USA, United States of America ~72: CHI, Guochen;GUENTHER, Sven;MICKLE, Travis~ 33:US ~31:62/983,614 ~32:29/02/2020

2022/09438 ~ Complete ~54:AMORPHOUS SOLID DISPERSIONS OF DASATINIB AND USES THEREOF ~71:Nanocopoeia, LLC, 639 Campus Drive, NEW BRIGHTON 55112, MN, USA, United States of America ~72: CHEN, Tzehaw;WERTZ, Christian F.~ 33:US ~31:62/965,650 ~32:24/01/2020;33:US ~31:63/018,182 ~32:30/04/2020

2022/09411 ~ Complete ~54:AUDIO DE-AMPLIFICATION METHOD AND APPARATUS ~71:ARMUGAM, Kuben, 535 Eekhout Street, 29 La Cotre, Elarduspark, South Africa ~72: ARMUGAM, Kuben~ 33:ZA ~31:2021/07245 ~32:28/09/2021

2022/09416 ~ Complete ~54:COLD CHAIN THERMAL INSULATING BOX FOR PREVENTING FRUITS FROM PREMATURE RIPENING AND SQUEEZING EACH OTHER ~71:Beijing Wuzi University, Beijing Wuzi University, No. 321 Fuhe Street, Tongzhou District, Beijing, 101149, People's Republic of China ~72: CHEN, Jing;GAO, Ge;LAN, Gongming;QIAO, Jianlin~

2022/09427 ~ Complete ~54:MULTI-LAYER INDOOR VEGETABLE PLANTING RACK ~71:Anhui Science and Technology University, 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: LU Xiaomin;YANG Dekun~ 33:CN ~31:202210316265.7 ~32:29/03/2022

2022/09441 ~ Complete ~54:MULTISPECIFIC ANTIBODIES, COMPOSITIONS COMPRISING THE SAME, AND VECTORS AND USES THEREOF ~71:APRILBIO CO., LTD., B602, College of Biomedical Science, Kangwon National University, 1 Kangwondaehak-gil Chuncheon-si Gangwon-do, 24341, Republic of Korea ~72: SANG HOON CHA~ 33:KR ~31:10-2020-0009565 ~32:24/01/2020;33:US ~31:16/878,255 ~32:19/05/2020

2022/09431 ~ Complete ~54:HELICAL ANCHOR FOUNDATION SYSTEM ~71:HELICORE LLC, 278 Laurelwood Lane,, United States of America ~72: DOTSON, Joshua, A.;RUSS, Kevin, J.;TURNER, Lucas, B.~ 33:US ~31:16/806,268 ~32:02/03/2020

2022/09437 ~ Complete ~54:A PROCESS FOR THE PRODUCTION OF A BAKED PRODUCT WITHOUT ADDITION OF SUGAR ~71:Lantmännen Unibake Holding A/S, Kay Fiskers Plads 9, 2, COPENHAGEN S 2300, DENMARK, Denmark ~72: MÖLLER, Rune Gerner~ 33:DK ~31:PA202070088 ~32:14/02/2020

2022/09443 ~ Complete ~54:ANTI-INTERLEUKIN-33 ANTIBODIES AND USES THEREOF ~71:GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080-4990, United States of America ~72: DHAYA SESHASAYEE;GERALD R NAKAMURA;HONGKANG XI;JACK III BEVERS;JIA WU;JOYCE CHAN;LAETITIA COMPS-AGRAR;MENNO VAN LOOKEREN CAMPAGNE;RACQUEL CORPUZ;TIFFANY WONG~ 33:US ~31:62/989,526 ~32:13/03/2020;33:US ~31:63/022,080 ~32:08/05/2020

2022/09447 ~ Complete ~54:USE OF VITAMIN K IN COMBINATION WITH ANTICOAGULANTS ~71:KAYDENCE PHARMA AS, Lilieakerveien 2B, Norway ~72: VAN GORP, Rick~ 33:US ~31:62/817,037 ~32:12/03/2019

2022/09425 ~ Complete ~54:MUNG BEAN SEEDING DEVICE ~71:SHANXI AGRICULTURAL UNIVERSITY/SHANXI ACADEMY OF AGRICULTURAL SCIENCES,HIGH LATITUDE CROPS INSTITUTE TO SHANXI ACADEMY, No. 18, Yingbin East Road, Datong City, Shanxi Province, People's Republic of China ~72: Feng Yu;Liu Fei;Liu Zhiping;Wang Guimei;Xing Baolong~

2022/09428 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS OF ALPHA-2-ADRENERGIC RECEPTOR AGONISTS AND THEIR USE FOR IMPROVING VISION ~71:ALLERGAN, INC., 2525 Dupont Drive, Irvine, United States of America ~72: DIBAS, Mohammed;FAHID, Massoud;GRAHAM, Richard;WU, Ke~ 33:US ~31:62/979,214 ~32:20/02/2020

2022/09432 ~ Complete ~54:A UNIT FOR CAUSING ANGULAR MOMENTUM ABOUT AN AXIS ~71:NEWSPACE SYSTEMS (PTY) LTD, 12 CYCLONITE ROAD, THE INTERCHANGE, SOMERSET WEST, 7130, SOUTH AFRICA, South Africa ~72: BARRINGTON-BROWN, Antony, James;GLATTHAAR, Rudolf, Wilhelm;MAHARAJ, Riddhi, Anubhav~ 33:ZA ~31:2020/01453 ~32:06/03/2020

2022/09435 ~ Complete ~54:COMPOUNDS FOR PROVIDING A LONG-LASTING ODOR ~71:Firmenich SA, 7, rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: HERRMANN, Andreas;LAMBOLEY, Serge~ 33:EP ~31:20169432.0 ~32:14/04/2020

2022/09440 ~ Complete ~54:DEVICE FOR COVERING A SURFACE COMPRISING MEANS FOR LOCKING A COVER IN A GROOVE ~71:BECOFLEX, Route du grand peuplier 8, 7110, Strepy-Bracquegnies, Belgium ~72: BENOÎT COENRAETS~ 33:BE ~31:BE20205124 ~32:26/02/2020

2022/09442 ~ Complete ~54:EXTRACELLULAR ASSEMBLY OF VIRUS LIKE PARTICLES ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, Rondebosch, Cape Town, 7701, South Africa ~72: ANN ELIZABETH MEYERS;EDWARD PETER RYBICKI;INGA ISABEL HITZEROTH;SUSAN JENNIFER DENNIS~ 33:GB ~31:2001808.1 ~32:10/02/2020

2022/09444 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE SKIN-SCRAPING MEDIUM AND PREPARATION METHOD THEREFOR ~71:HENAN PROVINCIAL HOSPITAL OF TRADITIONAL CHINESE MEDICINE (SECOND AFFILIATED HOSPITAL OF HENAN UNIVERSITY OF TRADITIONAL CHINESE MEDICINE), 6 Dongfeng Rd, Jinshui District, Zhengzhou, Henan, 450000, People's Republic of China ~72: CHEN, Mengli;CHENG, Fang;CHENG, Hong;CHENG, Zhenyang;LI, Honglin;LIU, Yanan;MA, Chunzheng;MA, Xijia;REN, Juan;SHAO, Shuai;WU, Peng;XU, Yanchao~ 33:CN ~31:202110116491.6 ~32:28/01/2021

2022/09413 ~ Complete ~54:USING VIRTUAL BLOCKCHAIN PROTOCOLS TO IMPLEMENT A FAIR ELECTRONIC EXCHANGE ~71:ALGORAND, INC., 399 Boylston Street Suite 800, United States of America ~72: MICALI, Silvio~ 33:US ~31:62/777,410 ~32:10/12/2018;33:US ~31:62/778,482 ~32:12/12/2018

2022/09418 ~ Complete ~54:GEOGRAPHIC DATA TRANSMISSION METHOD AND SYSTEM BASED ON SM4 ALGORITHM ~71:Chinese Academy of Surveying and Mapping, Courtyard No. 28, Lianhuachi West Road, Haidian District, Beijing, 100044, People's Republic of China ~72: CHEN, Jie;GAO, Wujun;JIANG, Bin;LU, Wenjuan;MA, Weijun;MAO, Xi;WANG, Jizhou;WANG, Lixue;ZHAO, Zhanjie~ 33:CN ~31:202210875413.9 ~32:25/07/2022

2022/09421 ~ Complete ~54:NOVEL ROTORCRAFT AND WORKING METHOD THEREOF ~71:Nanjing University of Aeronautics and Astronautics, 29 Yudao street, Qinhuai District, Nanjing, Jiangsu Province, People's Republic of China ~72: LIU Na;ZHANG Xin;ZHU Qinghua~ 33:CN ~31:202210852363.2 ~32:19/07/2022

2022/09434 ~ Complete ~54:AN INTRAUTERINE SYSTEM WITH A LOCKING PART ~71:Bayer Oy, Pansiontie 47, 20210, TURKU, FINLAND, Finland ~72: ALLEN, Marina;HAKALA, Risto;KAUTTO, Mira;PERÄLÄ, Petri;RISKI, Jari;SALO, Heikki;STOLT, Mikael;TALLING, Christine;TJÄDER, Taina~ 33:EP ~31:20153502.8 ~32:24/01/2020

2022/09439 ~ Complete ~54:METHOD FOR PREPARATION OF HETEROCYCLICAMINE DERIVATIVES ~71:DAEWOONG PHARMACEUTICAL CO., LTD., 35-14, Jeyakgongdan 4-gil, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, 18623, Republic of Korea ~72: DEOK KI EOM;HYAE JUNG HYUN;JOON SEOK PARK;QING RI LI;WOL YOUNG KIM~ 33:KR ~31:10-2020-0023899 ~32:26/02/2020;33:KR ~31:10-2021-0025655 ~32:25/02/2021

2022/09407 ~ Provisional ~54:ADDITIVE ~71:BLOM, Gert Frederick, SHYLOCK 30,, South Africa ~72: BLOM, Gert Frederick~

2022/09410 ~ Provisional ~54:ENGINES AND A FLUID SYSTEM ~71:Mike Junior McKerson, 7 Quibeba, Arboretum, South Africa ~72: Mike Junior McKerson~ 33:ZA ~31:2022/04832 ~32:03/05/2022

2022/09415 ~ Complete ~54:A NUMERICAL MODELING METHOD FOR INFILTRATION GALLERY OF RIVERBANK WATER SOURCES ~71:BEIJING NORMAL UNIVERSITY, No. 19 Xinjiekouwai Avenue, Haidian District, People's Republic of China ~72: NI, Baofeng;TENG, Yanguo;YUE, Weifeng;ZHAI, Yuanzheng;ZUO, Rui~

2022/09426 ~ Complete ~54:EASILY MECHANIZED SHORT-DENSE TREE SHAPE WITH WIND-RESISTANCE AND HIGH-LIGHT-EFFICIENCY AND CULTIVATION METHOD THEREOF ~71:Shandong Institute of Pomology, No. 64, Longtan Road, Tai'an City, Shandong Province, People's Republic of China ~72: Fu QuanJuan;Gao Rui;Hou Sen;Niu QingLin;Sun YuGang;Tao JiHan;Wei GuoQin;Xu Xia~

2022/09429 ~ Complete ~54:CRYSTAL FORMS OF METHYL(2R*,4R*)-4-[[(5S)-3-(3,5-DIFLUOROPHENYL)-5-VINYL-4H-ISOXAZOLE-5-CARBONYL]AMINO]TETRAHYDROFURAN-2-CARBOXYLATE AND THEIR HERBICIDAL SYNERGISTIC EFFECTS ~71:BAYER AKTIENGESELLSCHAFT, Kaiser-Wilhelm-Allee 1, Leverkusen, Germany ~72: BERNHARD, Klaus;KEIL, Birgit;LORENTZ, Lothar;OLENIK, Britta;RÖSLER, Bernd~ 33:EP ~31:20164735.1 ~32:20/03/2020;33:EP ~31:20175105.4 ~32:15/05/2020

2022/09417 ~ Complete ~54:FOOTBALL TRAINING DEVICE ~71:ShanDong JiaoTong University, No. 5001, Haitang Road, University Science Park, Changqing, Jinan City, Shandong Province, 250357, People's Republic of China ~72: ZHOU, Dong~

2022/09420 ~ Complete ~54:PREPARATION METHOD OF ARTIFICIAL RED CLAY ~71:Hezhou University, No. 18, Xihuan Road, Hezhou, Guangxi, People's Republic of China ~72: GAN Binhong;LYU Haibo;MA lin;QIU Pengfei;WANG Tengdong;WANG Yong~

2022/09423 ~ Complete ~54:DUAL-PURPOSE SEEDER FOR CEREAL AND MILLET ~71:SHANXI AGRICULTURAL UNIVERSITY/SHANXI ACADEMY OF AGRICULTURAL SCIENCES,HIGH LATITUDE CROPS INSTITUTE TO SHANXI ACADEMY, No. 18, Yingbin East Road, Datong City, Shanxi Province, People's Republic of China ~72: Li Hai;Li Xiaofeng;Song Xiaoqiang;Zhang Xiangyu;Zhao Hongxia~

2022/09409 ~ Provisional ~54:LIGHTWEIGHT DRILL ~71:SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD, 9 GERHARDUS ROAD, ELANDSFONTEIN, South Africa ~72: MARIUS IMANIEL ACKERMANN~

2022/09414 ~ Complete ~54:INSECT PRODUCTS AND METHODS OF MANUFACTURE AND USE THEREOF ~71:DOSSEY, Aaron T., 120 Mark Twain Circle, Apt. No. L5, ATHENS 30605-6613, GA, USA, United States of America ~72: DOSSEY, Aaron T.~ 33:US ~31:61/902,346 ~32:11/11/2013

2022/09422 ~ Complete ~54:EASILY ADJUSTED ENVIRONMENTAL CHAMBER ~71:Anhui University of Science and Technology, 168 Taifeng street, Huainan city, Anhui province, 232001, People's Republic of China ~72: WANG, Jiangang~

2022/09408 ~ Provisional ~54:AN ALARM DEVICE ~71:AM Technologies CC, P/O Box 19044, South Africa ~72: Johannes Daniel Petrus Wolfaardt van Vuuren~

2022/09412 ~ Complete ~54:METHOD FOR PROMOTING RECOVERY OF PB-ZN MINERAL PLANTS BY ORGANIC-INORGANIC COMPOSITE CONDITIONER ~71:CENTRAL SOUTH UNIVERSITY OF FORESTRY & TECHNOLOGY, NO. 498, SHAOSHAN SOUTH ROAD, People's Republic of China ~72: CHEN, Yonghua;LIU, Jun;LUO, Yiting;OU, Qiqi;SU, Rongkui~

2022/09419 ~ Complete ~54:K-POINT TEST METHOD OF IN-SITU STRESS OF HIGH-STRENGTH ROCK BASED ON KAISER EFFECT ~71:TAIYUAN UNIVERSITY OF TECHNOLOGY, No.79 Yingze West Street, Wanbailin District, Taiyuan City, Shanxi Province, People's Republic of China ~72: CHANG Wei;CHEN Xi;CHEN Xiaoyu;DUAN Dong;FENG Xiaojing;KANG Zhiqin;LI Jie;WANG Xin;ZHANG Baisheng~

- APPLIED ON 2022/08/24 -

2022/09536 ~ Provisional ~54:COCHOQUA COIN ~71:ATMORE RODGERS DANIELLE WILLIAMS, No30 KOKERBOOM SINGLE ST DUMAS KUILSRIVER, South Africa;ROGER FRANCIS, No30 KOKERBOOM

SINGLE ST DUMAS KUILSRIVER, South Africa; ROY ARENDS, No30 KOKERBOOM SINGLE ST DUMAS KUILSRIVER, South Africa ~72: ATMORE RODGERS DANIELLE WILLIAMS; ROGER FRANCIS; ROY ARENDS~

2022/09481 ~ Complete ~54:BENZIMIDAZOLONE-BASED CINNAMAMIDE DERIVATIVE AS TRPV1 ANTAGONIST AND PHARMACEUTICAL COMPOSITION FOR TREATMENT OR PREVENTION OF PAIN CONTAINING SAME AS ACTIVE INGREDIENT ~71:JMackem Co., Ltd., #143-518, 1, Gwanak-ro, Gwanak-gu, SEOUL 08826, REPUBLIC OF KOREA, Republic of Korea ~72: ANN, Jihyae;LEE, Jeewoo~ 33:KR ~31:10-2020-0048788 ~32:22/04/2020

2022/09487 ~ Complete ~54:SULFURIC ACID COMPOSITION AND USES THEREOF ~71:SIXRING INC., 1500, 140 - 10 Avenue SE, Calgary, Alberta, T2G 0R1, Canada ~72: CLAY PURDY;KARL W DAWSON;KYLE G WYNNYK;MARKUS WEISSENBERGER~ 33:CA ~31:3,074,199 ~32:28/02/2020

2022/09491 ~ Complete ~54:METHODS AND SYSTEMS FOR TREATMENT OF LIME TO FORM VATERITE ~71:ARELAC, INC., 100 Great Oaks Blvd, Suite 120, San Jose, California, 95119, United States of America ~72: MICHAEL JOSEPH WEISS;RYAN J GILLIAM~ 33:US ~31:62/981,266 ~32:25/02/2020

2022/09495 ~ Provisional ~54:AMACINSI/AMAQINSI ~71:MARVIN LEHLOGONOLO BALOYI, PHOLA PARK STREET 44, STAND NUMBER 1032, MPUMALANGA, South Africa ~72: MARVIN LEHLOGONOLO BALOYI~

2022/09451 ~ Provisional ~54:SWIMMING POOL LIGHT ~71:Fluidra Waterlinx (Pty) Ltd, 5 Kruger Street, Denver, Johannesburg 2094, Gauteng, SOUTH AFRICA, South Africa ~72: BOTHA, Hermanus Johannes;VAN DER VYVER, Donovan~

2022/09454 ~ Complete ~54:MEDICAL EXPENSE MANAGEMENT SYSTEM BASED ON DRG ~71:THE FIRST AFFILIATED HOSPITAL, XINJIANG MEDICAL UNIVERSITY, the First Affiliated Hospital, Xinjiang Medical University, 137 Liyushan Rd,, People's Republic of China ~72: LU, Chen;LU, Wuhong;WANG, Baozhu~

2022/09456 ~ Complete ~54:3D PRINTING MOLDING DEVICE AND MOLDING METHOD THEREOF ~71:GUIZHOU UNIVERSITY, No. 1 Huaxi Avenue, Huaxi District, Guiyang City, People's Republic of China ~72: LIN, Li~

2022/09462 ~ Complete ~54:ANALYSIS DEVICE FOR ARTIFICIAL INTELLIGENCE-BASED DATA PROCESSING ~71:Liupanshui Normal University, No. 288, Minghu Road, Zhongshan District, Liupanshui City, Guizhou Province, 553004, People's Republic of China ~72: WANG, Liwei;YANG, Wentao;YAO, Weiping;ZHU, Kun~

2022/09465 ~ Complete ~54:INTELLIGENT BOXED DRUG STORAGE AND SORTING DEVICE ~71:Nanjing Rongxin Intelligent Technology Co., Ltd., 2nd Floor, Comprehensive R And D Building, Nanjing Baixia High-tech Industrial Park, No. 162, Guanghua Road, Qinhuai District, Nanjing, Jiangsu Province, 210000, People's Republic of China ~72: CHEN, Chen;DING, Wei;HE, Xin;LI, Jian;MENG, Qincheng;YANG, Cheng~

2022/09469 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING HEPATITIS B ~71:Xiuying Ju, No. 263, Nandongbu Village, Mazhan Town, Yishui County, Linyi, Shandong, People's Republic of China ~72: Xiuying Ju~

2022/09472 ~ Complete ~54:MODULATORS OF 5'-NUCLEOTIDASE, ECTO AND THE USE THEREOF ~71:ARCUS BIOSCIENCES, INC., 3928 POINT EDEN WAY, HAYWARD, United States of America ~72: DEBIEN, LAURENT PIERRE PAUL;JAEN, JUAN CARLOS;KALISIAK, JAROSLAW;LAWSON, KENNETH V.;LELETI, MANMOHAN REDDY;LINDSEY, ERICK ALLEN;MILES, DILLON HARDING;NEWCOMB,

ERIC; POWERS, JAY PATRICK; ROSEN, BRANDON REID; SHARIF, EHESAN UI~ 33:US ~31:62/276,564 ~32:08/01/2016; 33:US ~31:62/324,077 ~32:18/04/2016

2022/09473 ~ Complete ~54:USE OF FCGAMMARIII INHIBITOR IN PREPARATION OF MEDICAMENT FOR TREATING PULMONARY FIBROSIS ~71:Institute of Basic Medical Sciences of Chinese Academy of Medical Sciences, No. 5, Dongdan Santiao, Dongcheng District, Beijing, 100005, People's Republic of China ~72: LI, Xiaona;QI, Xianmei;WANG, Jing;ZHANG, Tiantian~ 33:CN ~31:202210696605.3 ~32:20/06/2022

2022/09477 ~ Complete ~54:ENGINEERED INFLUENZA NEURAMINIDASE ANTIGENS ~71:THE USA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, 6011 Executive Boulevard, Suite 325, United States of America;UNIVERSITY OF WASHINGTON, 4545 Roosevelt Way NE, Suite 400, United States of America ~72: ELLIS, Daniel;GRAHAM, Barney, S.;KANEKIYO, Masaru;KING, Neil, P.;LEDERHOFER, Julia~ 33:US ~31:62/986,295 ~32:06/03/2020

2022/09482 ~ Complete ~54:VACCINES AGAINST CORONAVIRUS AND METHODS OF USE ~71:Inovio Pharmaceuticals, Inc., 660 W. Germantown Pike, Suite 110, PLYMOUTH MEETING 19462, PA, USA, United States of America;The Wistar Institute of Anatomy and Biology, 3601 Spruce Street, PHILADELPHIA 19104, PA, USA, United States of America ~72: BRODERICK, Kate;MUTHUMANI, Kar;PATEL, Ami;WEINER, David;YAN, Jian~ 33:US ~31:62/981,168 ~32:25/02/2020;33:US ~31:62/981,451 ~32:25/02/2020;33:US ~31:63/004,380 ~32:02/04/2020;33:US ~31:63/022,032 ~32:08/05/2020;33:US ~31:63/028,404 ~32:21/05/2020;33:US ~31:63/033,349 ~32:02/06/2020;33:US ~31:63/040,865 ~32:18/06/2020;33:US ~31:63/046,415 ~32:30/06/2020;33:US ~31:63/056,996 ~32:27/07/2020;33:US ~31:63/062,762 ~32:07/08/2020;33:US ~31:63/063,157 ~32:07/08/2020;33:US ~31:63/114,858 ~32:17/11/2020;33:US ~31:63/130,593 ~32:24/12/2020;33:US ~31:63/136,973 ~32:13/01/2021

2022/09483 ~ Complete ~54:DELIVERY SYSTEMS AND METHODS OF MAKING THE SAME ~71:British American Tobacco (Investments) Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: DAVIES, Ianto;KURDOGHLEE, Zohal;YANEZ, Ignacio Suarez~ 33:GB ~31:2003093.8 ~32:04/03/2020;33:GB ~31:2011177.9 ~32:20/07/2020

2022/09488 ~ Complete ~54:METHODS OF TREATING APOL-1 DEPENDENT FOCAL SEGMENTAL GLOMERULOSCLEROSIS ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ALEXANDER WOLFGANG KRUG;BRIAN J HARE;IFEATU EGBUNA;NAVITA MALLALIEU;SHU-PEI WU~ 33:US ~31:62/986,096 ~32:06/03/2020

2022/09492 ~ Complete ~54:GPR40 AGONISTS ~71:KALLYOPE, INC., 430 East 29th Street, 10th Floor, New York, United States of America ~72: HE, Shuwen;SEBHAT, Iyassu~ 33:US ~31:62/983,438 ~32:28/02/2020;33:US ~31:63/076,113 ~32:09/09/2020;33:US ~31:63/117,074 ~32:23/11/2020;33:US ~31:63/147,980 ~32:10/02/2021

2022/09448 ~ Provisional ~54:A BLASTING CONTAINER ASSEMBLY ~71:IPTREE TRUST (TRUST NUMBER 503/2009), 5 Libertas Road, Somerset Office Park, Bullseye Building, Bryanston, South Africa ~72: BÜHRMANN, Rudolph;BÜHRMANN, Rudolph Teodor~

2022/09457 ~ Complete ~54:KIT AND METHOD FOR DETECTING URINARY EXOSOMES CARGO MIRNAS ~71:CHENGDU UNIVERSITY, No.2025 Chengluo Avenue, Chengdu, Sichuan, People's Republic of China ~72: DING, Weijun;LV, Chunyan;WANG, Yili~

2022/09466 ~ Complete ~54:A GENE PANEL, KITS AND APPLICATIONS FOR DETECTING MULTIPLE TUMORS ~71:Precision Scientific (Beijing) Co.,Ltd., D802, 7/F, Tower D, No.9 Shangdi Sanjie, Haidian District, Beijing, 100085, People's Republic of China;Precision Scientific Biomedicine (Suzhou) Co.,Ltd., D802, 7/F, Tower

D, No.9 Shangdi Sanjie, Haidian District, Beijing, 100085, People's Republic of China;Precision Scientific Co.,Ltd., D802, 7/F, Tower D, No.9 Shangdi Sanjie, Haidian District, Beijing, 100085, People's Republic of China ~72: Baoye Wei;Xinyun Xu;Xuwo Ji;Yu Dong~ 33:CN ~31:202210339492.1 ~32:01/04/2022

2022/09468 ~ Complete ~54:SIMULATION DEVICE AND MEASUREMENT METHOD FOR LOCAL SCOUR DEPTH OF PIER WITH COMPLEX STRUCTURE ~71:TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING,M.O.T., No.2618 Xingang Second Road, Binhai New District, Tianjin, People's Republic of China ~72: CHEN Hanbao;HU Chuanqi;HU Ke;MA Jun;OUYANG Xiyu;PENG Cheng;WANG Hao;WANG Yina;ZHANG Huaqing;ZHAO Peng~

2022/09486 ~ Complete ~54:MODIFIED ALKYLSULFONIC ACID AND USES THEREOF ~71:SIXRING INC., 1500, 140 - 10 Avenue SE, Calgary, Alberta, T2G 0R1, Canada ~72: CLAY PURDY;KARL W DAWSON;KYLE G WYNNYK;MARKUS WEISSENBERGER~ 33:CA ~31:3,074,198 ~32:28/02/2020

2022/09493 ~ Complete ~54:RAPID DENGUE VIRUS DETECTION SYSTEM ~71:COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Anusandhan Bhawan, 2 Rafi Marg, India ~72: BISWAS, Subhajit;GHOSH, Surajit;MONDAL, Prasenjit;SUKLA, Soumi~ 33:IN ~31:202011019066 ~32:05/05/2020

2022/09458 ~ Complete ~54:PLOUGH ASSEMBLY ~71:AUSPLOW PTY. LTD., Davison Road, Cockburn Central, Australia ~72: RYAN, John William~ 33:AU ~31:2021221492 ~32:24/08/2021

2022/09464 ~ Complete ~54:TRANSPORT ROBOT ~71:Hangzhou Dazhong boao Technology Co., Ltd., No.58, Gaoxin 5th Road, Qiaonan Block, Xiaoshan District Economic and Technological Development Zone, Hangzhou City, Zhejiang Province, People's Republic of China ~72: Jiahong WANG;Qingling FANG;Shuilong ZHENG;Yanzheng WU~ 33:CN ~31:202111113886.7 ~32:18/09/2021

2022/09467 ~ Complete ~54:EFFICIENT TEMPORARY WHARF COMBINING GABION NETS AND UNDERWATER SELF-PROTECTING CONCRETE ~71:TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING,M.O.T., No.2618 Xingang Second Road, Binhai New District, Tianjin, People's Republic of China ~72: CHEN Hanbao;CHEN Songgui;HU Chuanqi;PENG Cheng;SHEN Wenjun;WANG Yina;YU Bin;ZHANG Huaqing;ZHANG Yajing;ZHU Yingtao~

2022/09470 ~ Complete ~54:ADSORBENT, PREPARATION METHOD AND APPLICATION THEREOF, AND METHOD FOR REMOVING THALLIUM IN WASTEWATER ~71:BGRIMM Technology Group, No. 1, Wenxing Street, Xiwai, Xicheng District, Beijing, 100044, People's Republic of China;Kunming University of Science and Technology, Chenggong District, Kunming City, Yunnan Province, 650500, People's Republic of China ~72: CHEN, Guoqiang;SHAO, Linan;TIAN, Senlin;YANG, Xiaosong~

2022/09478 ~ Complete ~54:RAT FIXATOR FOR CHEEK ACUPUNCTURE ~71:ANHUI MEDICAL UNIVERSITY, NO. 81 MEISHAN ROAD, People's Republic of China ~72: DU, Hua;LIU, Yakun;WANG, Meimei;ZHAN, Li;ZHANG, Yuxia~ 33:CN ~31:202210199705.5 ~32:02/03/2022

2022/09479 ~ Complete ~54:AUTHENTICATION SERVER FUNCTION SELECTION IN AUTHENTICATION AND KEY MANAGEMENT ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: CASTELLANOS ZAMORA, David;TSIATSIS, Vlasios;WANG, Cheng~ 33:WO ~31:PCT/CN2020/076132 ~32:21/02/2020

2022/09485 ~ Complete ~54:MODIFIED SULFURIC ACID AND USES THEREOF ~71:SIXRING INC., 1500, 140 - 10 Avenue SE, Calgary, Alberta, T2G 0R1, Canada ~72: CLAY PURDY;KARL W DAWSON;KYLE G WYNNYK;MARKUS WEISSENBERGER~ 33:CA ~31:3,074,194 ~32:28/02/2020

2022/09494 ~ Complete ~54:2019-NCOV (SARS-COV-2) VACCINE ~71:VAXBIO LTD, 95 Masons Road Oxford, United Kingdom ~72: GLUECK, Reinhard;GUPTA, Gaurav~ 33:GB ~31:2002166.3 ~32:17/02/2020

2022/09459 ~ Complete ~54:FLUID MONITORING ~71:AFRICAN NEW ENERGIES LIMITED, Villa Florita, East Road, St George's Hill, United Kingdom ~72: KHAN, Haris Jamal;KHAN, Saad Saleem;LARKIN, Stephen;OMAR, Muhammad;RAW, Brendon;USMAN, Muhammad~

2022/09450 ~ Provisional ~54:SOIL SCALER ~71:Alpha lab technologies, molelwane village 10959, South Africa ~72: alpha lab technologies~

2022/09452 ~ Provisional ~54:A FLOATATION AID ~71:2 BELOW (PTY) LTD, 2 WILFORD 5 MILLER GROVE , BEREA, DURBAN, 4001, South Africa ~72: TAYLOR, Julian, Kevin, Michael~

2022/09453 ~ Complete ~54:INFORMATION ACQUISITION DEVICE AND METHOD BASED ON REAL-TIME ROCK FAILURE ~71:TAIYUAN UNIVERSITY OF TECHNOLOGY, NO. 79, Yingze West Street, Wanbailin District, Taiyuan City, People's Republic of China ~72: CHANG Wei;DUAN, Dong;FENG, Xiaojing;GAO, Shilei;LI, Jie;WANG, Xin;ZHANG, Hongzhi~

2022/09455 ~ Complete ~54:ELECTRIC HEATER STRUCTURE WITHOUT PIPELINES AND LIQUID ~71:GUIZHOU UNIVERSITY, No. 1 Huaxi Avenue, Huaxi District, Guiyang City, People's Republic of China ~72: LIN, Li~

2022/09460 ~ Complete ~54:METHOD FOR INCREASING INFECTIOUS TITER OF NON-TARGET CELL MA-104 OF AFRICAN SWINE FEVER VIRUS ~71:Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences, 1Xujiaping, Yanchangbu, Chengguan District, Lanzhou, Gansu, 730070, People's Republic of China ~72: FENG, Tao;GUO, Jianhong;LIU, Xiangtao;RU, Yi;SHEN, Chaochao;TIAN, Hong;YANG, Bo;YANG, Fan;ZHANG, Keshan;ZHANG, Ting;ZHENG, Haixue;ZHU, Zixiang~ 33:CN ~31:202210029737.0 ~32:12/01/2022

2022/09461 ~ Complete ~54:TERMINAL SYSTEM FOR ARTIFICIAL INTELLIGENCE-BASED DATA PROCESSING ~71:Liupanshui Normal University, No. 288, Minghu Road, Zhongshan District, Liupanshui City, Guizhou Province, 553004, People's Republic of China ~72: WANG, Liwei;YANG, Wentao;ZHU, Kun~

2022/09471 ~ Complete ~54:LIGNIN NANOCELLULOSE MODIFIED CEMENTITIOUS FILLING MATERIAL FOR FILLING DEEP STRUCTURES AND PREPARATION METHOD THEREOF ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, Nanhu Campus of China University of Mining and Technology, No. 1 University Road, Xuzhou City, Jiangsu Province, People's Republic of China ~72: BIAN Zhengfu;CHEN Weiqiang;GAO Yuan;JING Hongwen;MA Dan;MENG Qingbin;PU Hai;WANG Yiming;WU Jiangyu;YANG Shuo;YIN Qian;YU Liyuan;ZHANG Haixiang;ZHANG Qiang~

2022/09474 ~ Complete ~54:LEARNING AID ~71:Objective Learning Materials Pty Ltd, 13 Beatty Street, MONT ALBERT 3127, VICTORIA, AUSTRALIA, Australia ~72: LAWTON, John;TISDELL, Chris~ 33:AU ~31:2021221739 ~32:25/08/2021

2022/09475 ~ Complete ~54:SEALING ARRANGEMENT FOR A FORM FILL SEAL MACHINE ~71:THE CHAR ASSET TRUST, 6 Huskisson Street, South Africa ~72: LE ROUX, Etienne~

2022/09484 ~ Complete ~54:QUINOLYL PHOSPHINE OXIDE COMPOUND, AND COMPOSITION AND APPLICATION THEREOF ~71:Betta Pharmaceuticals Co., Ltd., 355 Xingzhong Rd., Yuhang, HANGZHOU 311100, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: DING, Lieming;DU, Guolong;LIU,

Mengqiang;LIU, Xiangyong;QIU, Changyong;SHEN, Qichao;SHENG, Haitong;SONG, Xiaodong;WANG, Jiabing~ 33:CN ~31:202010094824.5 ~32:14/02/2020;33:CN ~31:202110142695.7 ~32:02/02/2021

2022/09490 ~ Complete ~54:COMPOSITIONS FOR ENDOMETRIOSIS ASSESSMENT HAVING IMPROVED SPECIFICITY ~71:ASPIRA WOMEN'S HEALTH INC., 12117 Bee Caves Road Building III, Suite 100, Austin, Texas, 78738, United States of America ~72: HERBERT FRITSCHE;NITIN BHARDWAJ;TODD PAPPAS~ 33:US ~31:62/978,471 ~32:19/02/2020;33:US ~31:63/146,100 ~32:05/02/2021

2022/09449 ~ Provisional ~54:A LOADING ARRANGEMENT ~71:FOURIE, Johannes, Jacobus, 66 BERRYHEAD LANE, CORNWALL HILL, 0178, SOUTH AFRICA, South Africa ~72: FOURIE, Johannes, Jacobus~

2022/09463 ~ Complete ~54:ZYNQ-BASED INTELLIGENT MANAGEMENT AND MONITORING SYSTEM FOR PRODUCTION WORKSHOPS ~71:Guangxi University, No. 100, Daxue East Road, Xixiangtang District, Nanning, Guangxi, 530005, People's Republic of China;Pingxiang 3nod Digital Technology Co., Ltd., 1st and 2nd Floor, No. 2 Plant, Phase 1, East Frontier Export Processing Industrial Park, Wantong Logistics Park, Pingxiang City, Chongzuo Area of Pilot Free Trade Zone, Guangxi, 532600, People's Republic of China ~72: LI, Bin;LIU, Kai;SU, Wenjun;XU, Huibin;ZHANG, Xuejun~ 33:CN ~31:202210847819.6 ~32:19/07/2022

2022/09476 ~ Complete ~54:FILTER ~71:Fluidra Waterlinx (Pty) Ltd, 5 Kruger Street, Denver, Johannesburg 2094, Gauteng, SOUTH AFRICA, South Africa ~72: BOTHA, Hermanus Johannes~ 33:ZA ~31:2021/08593 ~32:04/11/2021

2022/09480 ~ Complete ~54:ANTI-AVB8 INTEGRIN ANTIBODIES FOR USE IN TREATING KIDNEY DISEASE ~71:MedImmune Limited, Milstein Building, Granta Park, CAMBRIDGE CB21 6GH, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: BAKER, David James;HEASMAN, Stephanie Claire;HERRERA, Maria Marcela;LIARTE MARIN, Elena;MORENO-QUINN, Carol Patricia;MURRAY, Lynne Anne;TSUI, Ping;WU, Yanli~ 33:US ~31:62/966,258 ~32:27/01/2020

2022/09489 ~ Complete ~54:BIOCOMPATIBLE POROUS MATERIALS AND METHODS OF MANUFACTURE AND USE ~71:PORAGEN LLC, P.O. Box 28758, San Diego, California, 92198, United States of America ~72: DYLAN B HOLLRIGEL;NICHOLAS J MANESIS~ 33:US ~31:63/001,049 ~32:27/03/2020

- APPLIED ON 2022/08/25 -

2022/09537 ~ Provisional ~54:POWER GENERATION SOLUTION ~71:REGINALD SANDILE MLOMBILE, 2483 MARIVATE STREET,, South Africa ~72: REGINALD SANDILE MLOMBILE~

2022/09501 ~ Complete ~54:PARALLEL FLOW EXPANSION FOR PRESSURE AND SUPERHEAT CONTROL ~71:THERMA-STOR LLC, 4201 Lien Road, Madison, Wisconsin, 53704, United States of America ~72: ALAN DAVID STAHL;CLIFFORD WILLIAM CALVERT;DANIEL JAMES DETTMERS;SCOTT ERIC SLOAN;WALT BERNHARD WAETJEN~ 33:US ~31:17/465,626 ~32:02/09/2021

2022/09515 ~ Complete ~54:METHOD FOR VERIFYING THE IDENTITY OF A USER BY IDENTIFYING AN OBJECT WITHIN AN IMAGE THAT HAS A BIOMETRIC CHARACTERISTIC OF THE USER AND SEPARATING A PORTION OF THE IMAGE COMPRISING THE BIOMETRIC CHARACTERISTIC FROM OTHER PORTIONS OF THE IMAGE ~71:Identy Inc., 8 The Green, Suite 7471, DOVER 19901, DE, USA, United States of America ~72: ARAGON, Jesus;GUPTA, Hardik;MURUGAN, Satheesh~ 33:EP ~31:19382137.8 ~32:26/02/2019

2022/09523 ~ Complete ~54:ADDRESSING SYSTEM FOR A WIRELESS COMMUNICATION NETWORK ~71:WIREPAS OY, Visiokatu 4, Tampere, 33720, Finland ~72: JUHO PIRSKANEN;VILLE KASEVA~ 33:FI ~31:20205231 ~32:04/03/2020

2022/09527 ~ Complete ~54:AN ANTI-TAMPERING DEVICE ~71:DE KLERK, Vivien, 301 PATULA STREET, LYNNWOOD RIDGE, PRETORIA 0081, SOUTH AFRICA, South Africa; VENTER, Jacobus, Petrus, 1042 SEELEEU STREET, PRETORIUS PARK, 0081, SOUTH AFRICA, South Africa ~72: DE KLERK, Vivien; VENTER, Jacobus, Petrus~ 33:ZA ~31:2020/01005 ~32:18/02/2020; 33:ZA ~31:2020/07424 ~32:30/11/2020

2022/09535 ~ Complete ~54:METHOD OF AND SYSTEM FOR MANAGING A WATER FILTRATION ARRANGEMENT ~71:BIBO WATER (PTY) LTD, 5 Thora Crescent, WYNBERG, Johannesburg 2090, Gauteng, SOUTH AFRICA, South Africa ~72: FINGER, Sholom Dov-Ber~ 33:ZA ~31:2020/01236 ~32:27/02/2020

2022/09538 ~ Provisional ~54:POWER GENERATION SOLUTION 2 ~71:REGINALD SANDILE MLOMBILE, 2483 MARIVATE STREET,, South Africa ~72: REGINALD SANDILE MLOMBILE ~

2022/09505 ~ Complete ~54:SNARE FOR TREATING HEART DISEASES ~71:Shanghai University of Medicine And Health Sciences, No. 279, Zhouzhu Highway, Pudong New Area, Shanghai, 201318, People's Republic of China ~72: MA, Linlin;WANG, Yiting;ZHANG, Qingwen~ 33:CN ~31:202210865353.2 ~32:21/07/2022

2022/09506 ~ Complete ~54:PHARMACEUTICAL APPLICATION OF 1,25-DIHYDROXYVITAMIN D3 IN PREVENTING AND TREATING AMS ~71:Northwest Institute of Plateau Biology, Chinese Academy of Sciences, No. 23, Xinning Road, Chengxi District, Xining City, Qinghai Province, 810008, People's Republic of China;Qinghai university, No. 251, Ningda Road, Xining City, Qinghai Province, 810016, People's Republic of China ~72: LIN, Xue;PU, Xiaoyan;ZHANG, Tongzuo~

2022/09508 ~ Complete ~54:IDENTIFICATION METHOD OF POWER GRID PARAMETER ERROR BRANCH BASED ON RESIDUAL SIMILARITY INDEX ~71:Hefei University of Technology, No.193,Tunxi Road, Baohe District, Hefei City, Anhui Province, People's Republic of China ~72: MA Yinghao;YANG Hejun;YE Mingdong;ZHANG Dabo~

2022/09509 ~ Complete ~54:SPECIAL EQUIPMENT FOR REMOVING TOTAL NITROGEN FROM RESIN ~71:Shandong Chenze Environmental Technology Co., Ltd., Room 1011, Building N, Hengda West District, No. 58, Gongye North Road, Licheng District, Jinan, Shandong, 250001, People's Republic of China ~72: Jian Jiang;Jianbo Zhou;Jianlei Zhou;Yukui Zhang;Yuqin Zhang~ 33:CN ~31:202111415799.7 ~32:27/12/2021

2022/09522 ~ Complete ~54:NEW METHOD AND COMPOUND FOR PROSTATE CANCER DIAGNOSIS ~71:PROSMEDIC SWEDEN AB, c/o Magnus Stuart Odengatan, 43 11351, Stockholm, Sweden ~72: ANDERS LARSSON;ANDERS WALDENSTRÖM~ 33:EP ~31:20160712.4 ~32:03/03/2020

2022/09531 ~ Complete ~54:ANTI-ADM-ANTIBODIES BINDING TO THE FREE N-TERMINUS FOR ACCELERATED TRANSITION OF ADM-GLY TO BIO-ADM IN PATIENTS WITH ADM-GLY/ BIO-ADM RATIO ABOVE A THRESHOLD AND COMBINATION WITH VITAMIN C ~71:SphingoTec GmbH, Neuendorfstraße 15a, HENNIGSDORF 16761, GERMANY, Germany ~72: KAUFMANN, Paul;SPARWASSER, Andrea;STRUCK, Joachim~ 33:EP ~31:20159650.9 ~32:26/02/2020

2022/09533 ~ Complete ~54:METAL WICK CRIMPING METHOD FOR HEAT PIPE INTERNALS ~71:Westinghouse Electric Company LLC, 1000 Westinghouse Drive, Suite 141, CRANBERRY TOWNSHIP 16066, PA, USA, United States of America ~72: GROSS, David M.~ 33:US ~31:62/979,822 ~32:21/02/2020

2022/09511 ~ Complete ~54:A NEW TRITERPENE FROM LUDWIGIA HYSSOPIFOLIA (G.DON) EXELL ~71:Dr. Shivanand Patil, Director, Department of Pharmacy, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Dr. Surendra Singh Gusain, Professor, Department of Pharmacy, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Mr. Sachin Dimri, Assistant professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Mr. Vishawadeepak Kimothi,

Associate Professor, Department of Pharmacy, Himalayan Institute of Pharmacy and Research, Dehradun, India;Ms. Anupriya Adhikari, Associate professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Ms. Arti Kori, Associate professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Ms. Deepika Ghalwan, Assistant professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Ms. Meenakshi Kandwal, Associate professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Ms. Neha Sodiyal, Assistant professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Ms. Parul Bisht, Assistant professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Ms. Parul Bisht, Assistant professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Ms. Rita Saini, Associate professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Ms. Santoshi Shah, Associate Professor, Department of Pharmacy, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India;Ms. Vandana Sahani, Associate professor, Shree Dev Bhoomi Institute of Education Science and Technology, Dehradun, India ~72: Dr. Shivanand Patil;Dr. Surendra Singh Gusain;Mr. Sachin Dimri;Mr. Vishawadeepak Kimothi;Ms. Anupriya Adhikari;Ms. Arti Kori;Ms. Deepika Ghalwan;Ms. Meenakshi Kandwal;Ms. Neha Sodiya];Ms. Parul Bisht;Ms. Rita Saini;Ms. Santoshi Shah;Ms. Vandana Sahani~

2022/09514 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING ARGINASE ACTIVITY ~71:Calithera Biosciences, Inc., 343 Oyster Point Boulevard, Suite 200, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BILLEDEAU, Roland J.;CHEN, Lijing;GROSS, Matthew I.;JAGDMANN Jr., Gunnar E.;LI, Jim;PARLATI, Francesco;PETERSEN, Lene Raunkjær;SJOGREN, Eric B.;STANTON, Timothy F.;VAN ZANDT, Michael;WHITEHOUSE, Darren~ 33:US ~31:62/438,092 ~32:22/12/2016;33:US ~31:62/439,614 ~32:28/12/2016

2022/09517 ~ Complete ~54:RNA-GUIDED GENOME RECOMBINEERING AT KILOBASE SCALE ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Building 170, Third Floo, Main Quad P.O. Box 20386, United States of America ~72: CONG, Le~ 33:US ~31:62/984,618 ~32:03/03/2020;33:US ~31:63/146,447 ~32:05/02/2021

2022/09521 ~ Complete ~54:DI METAL TRANSACTION DEVICES AND PROCESSES FOR THE MANUFACTURE THEREOF ~71:COMPOSECURE, LLC, 500 Memorial Drive, Somerset, New Jersey, 08873, United States of America ~72: ADAM LOWE;JOHN ESAU~ 33:US ~31:62/971,439 ~32:07/02/2020

2022/09524 ~ Complete ~54:ROBOTIZED LADLE TRANSPORTATION DEVICE SYSTEM WITH EMBEDDED MANIPULATOR ~71:VESUVIUS GROUP, S.A., 17, rue de Douvrain,, 7011, Ghlin, Belgium ~72: DAMIEN DELSINE;JEAN-LUC RENARD~ 33:EP ~31:20167446.2 ~32:31/03/2020

2022/09529 ~ Complete ~54:PENETRATOR AND USE OF A PENETRATOR ~71:Rheinmetall Waffe Munition GmbH, Heinrich-Ehrhardt-Straße 2, SÜDHEIDE 29345, GERMANY, Germany ~72: GOWIN, Michael;THIESEN, Stefan~ 33:DE ~31:10 2020 104 217.5 ~32:18/02/2020

2022/09532 ~ Complete ~54:PROCESSES FOR UPGRADING ALKANES AND ALKYL AROMATIC HYDROCARBONS ~71:ExxonMobil Chemical Patents Inc., 5200 Bayway Drive, BAYTOWN 77520, TX, USA, United States of America ~72: BAO, Xiaoying;COLEMAN, John S.~ 33:US ~31:62/986,229 ~32:06/03/2020;33:US ~31:62/993,985 ~32:24/03/2020;33:EP ~31:20179409.6 ~32:11/06/2020

2022/09496 ~ Provisional ~54:CIRCULAR TEST TUBE RACK ~71:Dia van Staden, 131 Glen Gory Road, Northons Home Estate, South Africa ~72: Dia van Staden~ 33:ZA ~31:01 ~32:24/08/2022

2022/09498 ~ Provisional ~54:AN APPARATUS FOR AND A METHOD OF DESHELLING NUTS ~71:HG MOLENAAR & amp; CO (PTY) LTD., Jan van Riebeeck Drive, PAARL 7622, SOUTH AFRICA, South Africa ~72: MOLENAAR, Cornelis Jacobus;MOLENAAR, Martin Werner;THRING, Tom Lawrence~

2022/09504 ~ Complete ~54:MYOCARDIAL EXCISION DEVICE ~71:Shanghai University of Medicine And Health Sciences, No. 279, Zhouzhu Highway, Pudong New Area, Shanghai, 201318, People's Republic of China ~72: FENG, Xing;LU, Yufei;MA, Linlin~ 33:CN ~31:202210865344.3 ~32:21/07/2022

2022/09512 ~ Complete ~54:HIGH-STABILITY COMPOSITE NEGATIVE ELECTRODE MATERIAL FOR LITHIUM-ION BATTERIES AND PREPARATION METHOD THEREOF ~71:SICHUAN UNIVERSITY, No. 24, South Section 1, Yihuan Road, Wuhou District, Chengdu City, People's Republic of China ~72: CHU, Wei;DAI, Yu;LI, Jing~

2022/09516 ~ Complete ~54:METHODS OF REDUCING POLYSORBATE DEGRADATION IN DRUG FORMULATIONS ~71:REGENERON PHARMACEUTICALS, INC., Corporation New York, 777 Old Saw Mill River Road, United States of America ~72: XIAO, Hui;ZHANG, Sisi~ 33:US ~31:62/982,346 ~32:27/02/2020;33:US ~31:63/021,181 ~32:07/05/2020;33:US ~31:63/073,125 ~32:01/09/2020

2022/09519 ~ Complete ~54:ADJUSTING A HIGH PRESSURE FEEDER BASED ON FLUID LEAKAGE ~71:ANDRITZ INC., 5405 Windward Parkway, United States of America ~72: HUNT, Tyson B.;LEAVITT, Aaron;LUHRMANN, Carlton L.;POPE, Scott A.;VOGEL, Keith;WHITESIDE, Blake~ 33:US ~31:62/984,568 ~32:03/03/2020

2022/09528 ~ Complete ~54:HUMAN MONOCLONAL ANTIBODIES TO SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS 2 (SARS-COV-2) ~71:Vanderbilt University, 305 Kirkland Hall, 2201 West End Avenue, NASHVILLE 37240, TN, USA, United States of America ~72: CARNAHAN, Robert;CROWE Jr., James E.;GILCHUK, Pavlo;ZOST, Seth~ 33:US ~31:63/000,299 ~32:26/03/2020;33:US ~31:63/002,896 ~32:31/03/2020;33:US ~31:63/003,716 ~32:01/04/2020;33:US ~31:63/023,545 ~32:12/05/2020;33:US ~31:63/024,204 ~32:13/05/2020;33:US ~31:63/024,248 ~32:13/05/2020;33:US ~31:63/027,173 ~32:19/05/2020;33:US ~31:63/037,984 ~32:11/06/2020;33:US ~31:63/040,224 ~32:17/06/2020;33:US ~31:63/040,246 ~32:17/06/2020;33:US ~31:63/142,196 ~32:27/01/2021;33:US ~31:63/161,890 ~32:16/03/2021

2022/09497 ~ Provisional ~54:MOBILE FENCING SYSTEM AND METHOD ~71:OOSTHUIZEN, Adriaan Nicolaas, Lusthof Farm, Aliwal North, South Africa ~72: OOSTHUIZEN, Adriaan Nicolaas~

2022/09503 ~ Complete ~54:POTENTILLA ANSERINA BEVERAGE AND PREPARATION METHOD THEREOF ~71:Qinghai Nationalities University, No. 3, Bayi Middle Road, Chengdong District, Xining City, Qinghai Province, 810007, People's Republic of China ~72: BAI, Shijun;LI, Junqiao~

2022/09507 ~ Complete ~54:PARAMETER ACQUISITION AND EVALUATION METHOD OF TRAFFIC CONGESTION STATE IN EXPRESSWAY SECTIONS ~71:Shenyang University of Technology, No.111 Shenliao West Road, Shenyang Economic and Technological Development Zone, Shenyang City, Liaoning Province, People's Republic of China ~72: SHI Haoran;WANG Dayong;WANG Shixian;ZHANG Zhijia~

2022/09510 ~ Complete ~54:A NOVEL SUSTAINABLE WATER PURIFICATION PORTABLE DEVICE WITH TDS MEASURING DISPLAY AND CONTROLLER ~71:Dr. Khushbu G. Patel, Assistant Professor, Rai School of Sciences, Rai University, SH144, Saroda, Dholka, Ahmedabad, India;Dr. Maheshkumar Keshavji Senghani, Professor, Veerayatan Institute of Pharmacy, Jakhania, Bhuj- Mandvi Road, Mandvi- Kutch, India;Dr. Maulikkumar Dineshbhai Vaja, Associate Professor, Saraswati Institute of Pharmaceutical Sciences, Near Anjali in Hotel, Ahmedabad-Himmatnagar Highway, Dhanap, GandhiNagar, India;Dr. Prakash Srichand Sukhramani, Professor, Veerayatan Institute of Pharmacy, Jakhania, Bhuj- Mandvi Road, Mandvi- Kutch, India;Dr. Sanjeshkumar Gotam Rathi, Professor & amp; HOD, School of Pharmacy, Rai University, SH144, Saroda, Dholka, Ahmedabad, India;LEO NUTRISCIENCE LLP, Survey No-817/3, Vasna Rathod, Nr.-Power Grid, Dahegam, Ahmedabad, India;Mr. Kaushikbhai Rambhai Kamani, Assistant Professor, Saraswati Institute of Pharmaceutical

Sciences, Ahmedabad-Himmatnagar Highway, Dhanap, Gandhinagar, India;Mr. Sohansinh Sagramji Vaghela, Assistant Professor, Saraswati Institute of Pharmaceutical Sciences, Ahmedabad-Himmatnagar Highway, Dhanap, Gandhinagar, India ~72: Dr. Khushbu G. Patel;Dr. Maheshkumar Keshavji Senghani;Dr. Maulikkumar Dineshbhai Vaja;Dr. Prakash Srichand Sukhramani;Dr. Sanjeshkumar Gotam Rathi;Mr. Dhruvkumar A. Patel;Mr. Kaushikbhai Rambhai Kamani;Mr. Sohansinh Sagramji Vaghela;Mr. Yogeshkumar B. Vataliya~ 33:IN ~31:202221036721 ~32:27/06/2022

2022/09499 ~ Provisional ~54:WATER HEATING DEVICE ~71:HOT NOZZLE (PTY) LTD., 87 Capricorn Drive, Capricorn Industrial Park, MUIZENBURG, Cape Town 7945, Western Cape, SOUTH AFRICA, South Africa ~72: HOZA, Thamsanqa Mongezi~

2022/09500 ~ Complete ~54:INTEGRATED HEAT EXCHANGER AND SOUR WATER STRIPPER ~71:AIR PRODUCTS AND CHEMICALS, INC., 1940 Air Products Boulevard, Allentown, Pennsylvania, 18106-5500, United States of America ~72: XUKUN LUO;YANLAI ZHANG~ 33:US ~31:17/462,080 ~32:31/08/2021

2022/09502 ~ Complete ~54:BEARING ASSEMBLY FOR A WHEEL UNIT ~71:JOY GLOBAL UNDERGROUND MINING LLC, 40 Pennwood Place, Suite 100, Warrendale, United States of America ~72: CONNELL, Alex;STEWART, Chris~ 33:US ~31:63/237,935 ~32:27/08/2021

2022/09513 ~ Complete ~54:METHODS AND COMPOSITIONS FOR THE TREATMENT OF CELLULOSIC BIOMASS AND PRODUCTS PRODUCED THEREBY ~71:COMET BIOREFINING INC., 700 Collip Circle, Canada ~72: D'AGOSTINO, Dennis;RICHARD, Andrew~ 33:US ~31:62/145,785 ~32:10/04/2015;33:US ~31:62/246,271 ~32:26/10/2015

2022/09518 ~ Complete ~54:ACTIVE COMPOUND ATTACHMENT FOR PRESERVING PRODUCT IN A PACKAGE, AND METHOD OF MAKING AND USING SAME ~71:CSP TECHNOLOGIES, INC, 960 West Veterans Boulevard, Auburn, Alabamba, United States of America ~72: GAUTREAUX, Thomas, Paul;JOHNSTON, Michael, A.;MORGAN, Angela~ 33:US ~31:63/000,341 ~32:26/03/2020

2022/09520 ~ Complete ~54:SPRAYING SYSTEMS, KITS, VEHICLES, AND METHODS OF USE ~71:GARY A VANDENBARK, 1164 North Creekview Dr., Greenfield, Indiana, 46140, United States of America;MIKE HILLIGOSS, 6702S 850E Zionsville, Indiana, 46077, United States of America;STEVEN R BOOHER, 1105 W. 136th St., Carmel, Indiana, 46032, United States of America ~72: GARY A VANDENBARK;MIKE HILLIGOSS;STEVEN R BOOHER~ 33:US ~31:16/773,352 ~32:27/01/2020

2022/09525 ~ Complete ~54:APOLIPOPROTEIN C3 (APOC3) IRNA COMPOSITIONS AND METHODS OF USE THEREOF ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;CHARALAMBOS KAITTANIS;FREDERIC TREMBLAY;JAMES D MCININCH;LUCAS D BONDURANT;MARK K SCHLEGEL~ 33:US ~31:62/977,875 ~32:18/02/2020;33:US ~31:63/144,516 ~32:02/02/2021

2022/09534 ~ Complete ~54:PRO-ADRENOMEDULLIN OR FRAGMENT THEREOF IN PATIENTS INFECTED WITH CORONA VIRUS AND TREATMENTS WITH BINDER AGAINST ADRENOMEDULLIN ~71:AdrenoMed AG, Neuendorfstraße 15A, HENNIGSDORF 16761, GERMANY, Germany ~72: BERGMANN, Andreas~ 33:EP ~31:20163406.0 ~32:16/03/2020;33:US ~31:62/990,171 ~32:16/03/2020;33:US ~31:63/015,102 ~32:24/04/2020;33:EP ~31:20179738.8 ~32:12/06/2020;33:EP ~31:21153847.5 ~32:27/01/2021;33:US ~31:63/142,370 ~32:27/01/2021

2022/09526 ~ Complete ~54:CANNABINOID SULFATE ESTERS, THEIR SALTS AND USES THEREOF ~71:LONDON PHARMACEUTICALS AND RESEARCH CORPORATION, 2308 Sawgrass Link, Canada ~72: MOUSTAFA, Mahmoud Mohamed Abdrabo~ 33:US ~31:62/970,764 ~32:06/02/2020

2022/09530 ~ Complete ~54:IMMUNOMODULATING UREA AZALIDES ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: COX, Mark R.;EWIN, Richard Andrew;JOHNSON, Paul D.;KYNE, Graham M.;MADDUX, Todd M.;RESPONDEK, Tomasz;STUK, Timothy L.;VAIRAGOUNDAR, Rajendran~ 33:US ~31:62/988,492 ~32:12/03/2020

- APPLIED ON 2022/08/26 -

2022/09545 ~ Complete ~54:APPLICATION OF EURYCOMANOL IN PREPARATION OF DRUG, FOOD PRODUCT AND HEALTH CARE PRODUCT FOR PREVENTING AND TREATING CHRONIC NON-BACTERIAL PROSTATITIS ~71:Changsha Herbway Biotech Co., Ltd., Room 3007, Building A, Dongmenyihao, No. 459, Wanjiali North Road Section 3, Furong District, Changsha City, Hunan Province, 410011, People's Republic of China;Hunan Jujing Biotechnology Co., Ltd., The fourth floor part of the standard workshop, No. 10, Science and Technology Industrial Park, Nanling Avenue, Beihu District, Chenzhou City, Hunan Province, 423000, People's Republic of China;WANG, Junjie, 889 Chenzhou Avenue, Chenzhou City, Hunan Province, 423000, People's Republic of China;Xiangnan University, 889 Chenzhou Avenue, Chenzhou City, Hunan Province, 423000, People's Republic of China ~72: CHEN, Zhijun;GOU, Ruiping;HUANG, Jianhua;LI, Wenkai;LIU, Fang;LIU, Siyu;LIU, Ze;WANG, Junjie;XIE, Pengfei;ZHANG, Yuanfang~ 33:CN ~31:202210227599.7 ~32:08/03/2022

2022/09548 ~ Complete ~54:PRESSURIZATION AND OXYGENATION DEVICE FOR PLATEAU ENVIRONMENT ~71:Zhejiang Hangzhou High School (Gongyuan Campus), No. 238, Fengqi Road, Gongshu District, Hangzhou City, Zhejiang Province, 310005, People's Republic of China;Zhejiang University of Science and Technology, No. 318, Liuhe Road, Xihu District, Hangzhou City, Zhejiang Province, 310023, People's Republic of China;Zhejiang WASON Cold Chain Science and Technology Co., Ltd., Building 1, No. 9, Shengdi Road, Yuhang District, Hangzhou City, Zhejiang Province, 311121, People's Republic of China ~72: HE, Linghua;WU, Hanyu;WU, Jian;YANG, Shengwang;ZHANG, Songtao~

2022/09560 ~ Complete ~54:A CONTINUOUS MELT CENTRIFUGAL ELECTROSTATIC SPINNING PRODUCTION EQUIPMENT THAT CAN BE CONNECTED IN SERIES ALONG TWO DIRECTIONS ~71:BEIJING UNIVERSITY OF CHEMICAL TECHNOLOGY, No. 15, North Third Ring Road East, Chaoyang District, People's Republic of China ~72: LIU, Yong;YU, Wenlong~

2022/09562 ~ Complete ~54:SUBSTITUTED 3-PHENOXYAZETIDIN-1-YL-PYRAZINES HAVING GPR52 AGONISTIC ACTIVITY ~71:ARENA PHARMACEUTICALS, INC., 235 East 42nd Street, New York, NY, United States of America;BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BERTANI, Barbara;FERRARA, Marco;FOSSATI, Giacomo;GERLACH, Kai;HOBSON, Scott;LESSEL, Uta, Friederike;MUELLER-VIEIRA, Ursula;RUNGE, Frank;SEMPLE, Graeme;WIPPICH, Julian;XIONG, Yifeng~ 33:US ~31:63/001,640 ~32:30/03/2020

2022/09573 ~ Complete ~54:RNA COMPOSITIONS TARGETING CLAUDIN-18.2 ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: ÖZLEM TÜRECI;CHRISTIANE STADLER;CLAUDIA LINDEMANN;HAYAT BÄHR-MAHMUD;JAN DIEKMANN;KERSTIN BRETTSCHNEIDER;LEYLA FISCHER;UGUR SAHIN;URSULA ELLINGHAUS~ 33:US ~31:63/002,287 ~32:30/03/2020

2022/09584 ~ Complete ~54:RIDGE SHAPED ELEMENT ~71:SCHLUMBERGER TECHNOLOGY B.V., Parkstraat 83, Netherlands ~72: EYRE, Ronald;MARSH, Douglas;PENG, Cheng;YU, Feng~ 33:US ~31:62/983,883 ~32:02/03/2020

2022/09563 ~ Complete ~54:BIARYL DERIVATIVES AS YAP/TAZ-TEAD PROTEIN-PROTEIN INTERACTION INHIBITORS ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: BORDAS, Vincent;BROCKLEHURST, Cara;CHENE, Patrick;FEI, Zhongbo;FURET, Pascal;GUAGNANO, Vito;IMBACH-WEESE, Patricia;KALLEN, Joerg;LE DOUGET, Mickael;LI, Jialiang;LI, Wei;LORTHIOIS, Edwige Liliane Jeanne;MCKENNA, Joseph;SALEM,

Bahaa;SCHMELZLE, Tobias;SELLNER, Holger;SOLDERMANN, Nicolas;VOEGTLE, Markus;WARTMANN, Markus~ 33:EP ~31:20163465.6 ~32:16/03/2020;33:CN ~31:PCT/CN2021/075550 ~32:05/02/2021

2022/09574 ~ Complete ~54:BRIDGE INSPECTION VEHICLE ~71:CCCC HIGHWAY PLANNING AND DESIGN INSTITUTE CO., LTD, 33 Qianchaomian Hutong, Dongsi, Dongcheng District, Beijing, 100010, People's Republic of China ~72: CHANG, Zhijun;HU, Bin;JIN, Xiunan;MENG, Fanchao;XU, Zhimin~ 33:CN ~31:202110902017.6 ~32:06/08/2021

2022/09561 ~ Complete ~54:HEMICELLULOSE EXTRACTION METHOD AND USE ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naudé Road, South Africa ~72: JOHAKIMU, Jonas K;SITHOLE, Bruce~ 33:ZA ~31:2021/06326 ~32:27/08/2021

2022/09572 ~ Complete ~54:METHODS FOR SEQUENCING BIOPOLYMERS ~71:ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, 1475 N. Scottsdale Road, Suite 200, Scottsdale, Arizona, 85257, United States of America ~72: STUART LINDSAY~ 33:US ~31:62/983,417 ~32:28/02/2020

2022/09583 ~ Complete ~54:BORON CARRYING AGENT FOR INTEGRATED TUMOR DIAGNOSIS AND TREATMENT, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:PEKING UNIVERSITY, No. 5 Yiheyuan Rd Haidian District, People's Republic of China ~72: CHEN, Junyi;LIU, Zhibo~ 33:CN ~31:202010137553.7 ~32:03/03/2021

2022/09543 ~ Provisional ~54:CULTIVATING APPARATUS ~71:ROVIC AND LEERS (PTY) LTD, Saxenburg Road, South Africa ~72: BOOYSEN, Bernie~

2022/09550 ~ Complete ~54:A REINFORCEMENT STRUCTURE FOR FOUNDATION TREATMENT OF BUILDING ENGINEERING ~71:The second Construction Engineering Co., Ltd. of China Construction Second Bureau, No. 0169, Qianhai Road, Nanshan street, Nanshan District, Shenzhen, Guangdong, People's Republic of China ~72: Hou Ya;Li Zhidong;Liu Guodong;Su Mingzhu;Wang Daliang;Wang Kai;Wang Shanfeng;Wang Wei~

2022/09564 ~ Complete ~54:PACKAGE CONFIGURED TO HIDE OR OTHERWISE VISUALLY OBSCURE AN ACTIVE MEMBER ATTACHED THERETO ~71:CSP TECHNOLOGIES, INC, 960 West Veterans Boulevard, Auburn, Alabamba, United States of America ~72: MORGAN, Angela~ 33:US ~31:63/004,328 ~32:02/04/2020

2022/09576 ~ Complete ~54:STRUCTURE SLIDING BEARING AND STRUCTURE BEARING SYSTEM ~71:Maurer Engineering GmbH, Frankfurter Ring 193, MÜNCHEN 80807, GERMANY, Germany ~72: BRAUN, Christian~ 33:DE ~31:10 2020 201 078.1 ~32:29/01/2020

2022/09541 ~ Provisional ~54:NUTRITION ~71:Groen Kaap Landbou Proprietary Limited, 30 Kreef Crescent, Montana Park, Pretoria 0182, Gauteng Province, SOUTH AFRICA, South Africa ~72: POTGIETER, Lukas Eric~

2022/09552 ~ Complete ~54:SUBSTITUTED 2-MORPHOLINOPYRIDINE DERIVATIVES AS ATR KINASE INHIBITORS ~71:REPARE THERAPEUTICS INC., 7210 Frederick-Banting, Suite 100 St-Laurent, Québec, H4S 2A1, Canada ~72: ABBAS ABDOLI;AUDREY PICARD;CAMERON BLACK;CYRUS M LACBAY;JEAN-FRANÇOIS TRUCHON;LEE FADER;MIGUEL ST-ONGE;PAUL JONES;SHELDON N CRANE;STÉPHANE DORICH;STÉPHANIE LANOIX;VOUY LINH TRUONG~ 33:US ~31:62/877,177 ~32:22/07/2019;33:CA ~31:PCT/CA2019/051539 ~32:30/10/2019

2022/09558 ~ Complete ~54:LIQUID CLOTHIANIDIN COMPOSITIONS AND METHODS OF THEIR USE ~71:Sumitomo Chemical Company, Limited, 27-1, Shinkawa 2-chome, Chuo-ku, Tokyo 104-8260, JAPAN, Japan ~72: DUAN, Xiaonan;LIU, Xiaomeng;WEI, Alice~ 33:US ~31:62/588,919 ~32:21/11/2017

2022/09566 ~ Complete ~54:SEPARATOR PLATE FOR A FUEL CELL, PRECURSOR THEREFORE AND ITS METHOD OF PRODUCTION ~71:BLUE WORLD TECHNOLOGIES HOLDING APS, Langerak 15A, 9220, Aalborg Øst, Denmark ~72: DENYS GROMADSKYI;LARYSA HROMADSKA~ 33:DK ~31:PA 2020 00656 ~32:04/06/2020;33:DK ~31:PA 2020 01469 ~32:30/12/2020

2022/09577 ~ Complete ~54:CYBER SECURITY FOR A SOFTWARE-AS-A-SERVICE FACTORING RISK ~71:Darktrace, Inc., 555 Mission Street, Suite 3225, SAN FRANCISCO 94105, CA, USA, United States of America ~72: BIRCH, Holly;BOYER, John;ROBIN, Clement~ 33:US ~31:62/983,307 ~32:28/02/2020;33:US ~31:63/078,092 ~32:14/09/2020

2022/09555 ~ Complete ~54:SYSTEM AND METHOD FOR THE COLLECTIVE SHARING OF DATA ~71:BECKETT, Matthew Stuart, 70 Parel Vallei Road, Somerset West, South Africa ~72: BECKETT, Matthew Stuart~

2022/09580 ~ Complete ~54:ORAL COMPOSITIONS OF MK2 PATHWAY INHIBITOR FOR TREATMENT OF IMMUNE CONDITIONS ~71:Aclaris Therapeutics, Inc., 640 Lee Road, Suite 200, WAYNE 19087, PA, USA, United States of America ~72: DECRESCENZO, Gary A.;GORDON, David;HELLRIEGEL, Edward;HOPE, Heidi;MONAHAN, Joseph;SMITH, Walter;SPRINGER, John Robert~ 33:US ~31:63/000,746 ~32:27/03/2020;33:US ~31:63/015,241 ~32:24/04/2020;33:US ~31:63/018,954 ~32:01/05/2020;33:US ~31:63/022,298 ~32:08/05/2020;33:US ~31:63/022,301 ~32:08/05/2020;33:US ~31:63/024,160 ~32:13/05/2020;33:US ~31:63/053,903 ~32:20/07/2020;33:US ~31:63/076,689 ~32:10/09/2020;33:US ~31:63/126,173 ~32:16/12/2020;33:US ~31:63/128,523 ~32:21/12/2020;33:US ~31:63/136,080 ~32:11/01/2021;33:US ~31:63/136,967 ~32:13/01/2021;33:US ~31:63/138,672 ~32:18/01/2021;33:US ~31:63/149,230 ~32:13/02/2021

2022/09554 ~ Complete ~54:CITRAL THIAZOLE HYDRAZONE DERIVATIVE, PREPARATION METHOD AND APPLICATION THEREOF ~71:Jiangxi Agricultural University, No. 1101 Zhimin Road, Nanchang City, Jiangxi Province, People's Republic of China ~72: CHEN Shangxing;FAN Guorong;HE Lu;LIAO Shengliang;LUO Hai;SHI Yunfei;SI Hongyan;WANG Peng;WANG Zongde;YANG Yuling;ZHANG Ji;ZHANG Li~

2022/09569 ~ Complete ~54:DEVICE AND METHOD FOR KNOTTING A STRING END ~71:RUGGLI PROJECTS AG, Frauentalstrasse 3, 6332, Hagendorn, Switzerland ~72: SAMUEL SCHULER~ 33:CH ~31:00263/20 ~32:05/03/2020

2022/09571 ~ Complete ~54:METHODS AND COMPOSITIONS FOR MODULATING ARGININE LEVELS IN IMMUNE CELLS ~71:SKY PERFECT INTERNATIONAL LIMITED, Room 1617, 16th Floor, China Merchants Tower, 168-200 Connaught Road Central, Hong Kong, People's Republic of China ~72: KWOK MING CHEUNG~ 33:US ~31:62/979,805 ~32:21/02/2020

2022/09557 ~ Complete ~54:COMPACT HYDRAULIC PINNED JAW CRUSHER SYSTEM WITH HIGH SIZE REDUCTION RATIO ~71:Secretary, Department of Atomic Energy, Anushakti Bhavan, Chatrapati Shivaji Maharaj Marg, MUMBAI 400001, MAHARASHTRA, INDIA, India ~72: ARCHANA, T.M.;BHATTACHARYA, S.;CHOWDHURY, Sujit;LADOLA, Y.S.;PAIK, Shrishma;SAHU, M.L.;SONAWANE, D.V.~ 33:IN ~31:202221026845 ~32:09/05/2022

2022/09544 ~ Complete ~54:A WATERLESS TOILET ~71:VERMAAK, Gladys, Henriëtte, 94 PERCHERON ROAD, BEAULIEU, KYALAMI, SOUTH AFRICA, South Africa ~72: VERMAAK, Gladys, Henriëtte~ 33:ZA ~31:2021/06075 ~32:24/08/2021

2022/09549 ~ Complete ~54:METHOD FOR EVALUATING CANOPY COVER BASED ON AIRBORNE LIDAR DATA ~71:Institute of Forest Resource Information Techniques CAF, No.2 Dongxiaofu, Haidian District, Beijing, People's Republic of China ~72: CHEN Qiao;FU Liyong;LEI Zhenyu;MA Zhibo;PANG Lifeng;WANG Shiqiang~

2022/09582 ~ Complete ~54:A MAST WITH A MECHANISM FOR PIVOTING THE ELONGATE POST ~71:COCHRANE GULF FZE, 901 Suntech Tower, Silicon Oasis, United Arab Emirates ~72: BUCARIZZA, Vlado;COCHRANE, Alexander Richard~ 33:ZA ~31:2020/01462 ~32:09/03/2020

2022/09539 ~ Provisional ~54:ELECTROCHEMICAL CELL ~71:North-West University, Technology Transfer and Innovation Support, Building D1, cnr Hoffman and Borcherd Streets, South Africa ~72: BESSARABOV, Georgievich Dmitri;DU PREEZ, Stephanus, Petrus~

2022/09559 ~ Complete ~54:A HIGHLY SOLUBLE PEA PROTEIN AND THE PREPARATION METHOD THEREOF ~71:Sericultural & amp; Agri-Food Research Institute Guangdong Academy of Agricultural Sciences, No.133 Dongguanzhuang Yiheng Road, Tianhe District, GUANGZHOU 510610, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: DENG, YuanYuan;LI, Ping;LIU, Guang;TANG, Xiaojun;WEI, Zhencheng;ZHANG, Yan;ZHAO, Zhihao;ZHOU, Pengfei~

2022/09575 ~ Complete ~54:PLANT HEAT RESISTANCE OR DROUGHT RESISTANCE IMPROVING AGENT, SALT TOLERANCE IMPROVING AGENT, ACTIVITY IMPROVING AGENT ~71:Ac-Planta Inc., Chidori Building, 2-16-9 Yushima, BUNKYO-KU 1130034, TOKYO, JAPAN, Japan ~72: KIM, Jongmyong~ 33:JP ~31:2020-034089 ~32:28/02/2020

2022/09565 ~ Complete ~54:NOVEL IMMUNOSTIMULATING IL-2 ANALOGS ~71:HANMI PHARM. CO., LTD., 214, MUHA-RO, PALTAN-MYEON, HWASEONG-SI, GYEONGGI-DO 18536, REPUBLIC OF KOREA, Republic of Korea ~72: HEO, Yong Ho;KIM, Jin Young;KIM, Sang Yun;OH, Euh Lim;PARK, Cho Rong;PARK, Jun Sub;RYU, Hyun Soo~ 33:KR ~31:10-2020-0039476 ~32:31/03/2020

2022/09556 ~ Complete ~54:METHOD FOR PREPARING ENZYMATIC HYDROLYSATE OF GIANT SALAMANDER ~71:Moutai Institute, Moutai Institute, Luban Avenue, Renhuai City, Zunyi City, Guizhou Province, People's Republic of China ~72: AN Yanlin;JIA Bingbing;LIU Hang;RAN Xue;SONG Ya;SONG Yongsong;YU Shirui;ZHANG Bocheng;ZHENG Huayan~

2022/09570 ~ Complete ~54:METHOD FOR THE AEROBIC AND ANAEROBIC CULTIVATION OF MICROORGANISMS, METHOD FOR THE PRODUCTION OF A PREPARATION FOR CLEANING CONTAMINATED LIQUIDS AND SURFACES, METHOD FOR CLEANING CONTAMINATED LIQUIDS AND SURFACES AND METHOD FOR CLEANING CONTAMINATED SURFACES ~71:SYLVIA SCHREIBER, Knie 18, Dornbirn, 6850, Österreich, Austria ~72: ALBINA ALEKSANDROVNA KORNILOVA;VLADIMIR IVANOVICH VYSOTSKII~ 33:DE ~31:10 2020 001 316.3 ~32:29/02/2020

2022/09553 ~ Complete ~54:DEEP PROCESSING METHOD FOR MAKING WINE FROM BLUEBERRY POMACE ~71:Moutai Institute, Moutai Institute, Luban Avenue, Renhuai City, Zunyi City, Guizhou Province, People's Republic of China ~72: BAI Yaqi;FENG Min;LIU Hanyu;WANG Xingyue;YANG Lingxiao;YU Shirui;ZHAI Shunjie~

2022/09568 ~ Complete ~54:A PHENOTYPING DEVICE, METHOD AND SYSTEM FOR MEASURING PHENOTYPIC TRAITS OF ONE OR MORE PLANTS IN A TARGET CANOPY ~71:YIELD SYSTEMS OY, PL 1188, Helsinki, 00101, Finland ~72: HARRI JUNTUNEN;JUSSI GILLBERG;LINH NGUYEN;PAUL WAGNER;SIMO SEPPÄLÄ~ 33:FI ~31:20205209 ~32:28/02/2020

2022/09540 ~ Provisional ~54:LOW COST RENEWABLE HYDROCARBON PRODUCTION ~71:Aquawatts Water and Energy, 944 Booi Street Ngangelizwe Mthatha, South Africa ~72: Nzondelelo David Nkuzo~

2022/09547 ~ Complete ~54:USE OF BETA-SITOSTEROL IN RELIEVING COW MAMMARY GLAND INFLAMMATION ~71:Jilin University, No. 2699, Qianjin Street, Changchun City, Jilin Province, People's Republic of China ~72: Chuanqi WANG;Dongqiao PENG;Hengtong FANG;Jing ZHANG;Jinglin SHEN;Junhao CUI;Xinlu LIU;Xudong SHI;Yating FAN;Yongcheng JIN~ 33:CN ~31:202210099159.8 ~32:25/01/2022

2022/09551 ~ Complete ~54:INTELLIGENT QPCR INSTRUMENT DETECTION SYSTEM BASED ON IMAGE RECOGNITION TECHNOLOGY ~71:Fuzhou University, Fuzhou University, No.2 Wulongjiangbei Avenue, Fuzhou University Town, Minhou County, Fuzhou City, Fujian Province, People's Republic of China ~72: DONG Hui;JIA Yuan;LI Haichao;MO Jin;SUN Hao;XIE Wantao~

2022/09567 ~ Complete ~54:COMPOSITIONS AND METHODS FOR SILENCING VEGF-A EXPRESSION ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;BHAUMIK A PANDYA;CHARALAMBOS KAITTANIS;ELENA CASTELLANOS-RIZALDOS;JAMES D MCININCH;MARK K SCHLEGEL;MARK KEATING;VASANT R JADHAV~ 33:US ~31:62/972,519 ~32:10/02/2020;33:US ~31:63/055,627 ~32:23/07/2020;33:US ~31:63/140,714 ~32:22/01/2021

2022/09578 ~ Complete ~54:ANTIBODIES AGAINST MUCIN 17 AND USES THEREOF ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: BAILIS, Julie;EDELMANN, Kurt~ 33:US ~31:62/991,843 ~32:19/03/2020;33:US ~31:63/013,259 ~32:21/04/2020

2022/09581 ~ Complete ~54:AN AGROCHEMICAL COMPOSITION ~71:UPL Limited, UPL House, 610 B/2, Bandra Village, Off Western Express Highway, Bandra- East, MUMBAI 400051, MAHARASHTRA, INDIA, India ~72: BHOGE, Satish Ekanath;MONDAL, Achintya~ 33:IN ~31:202021008723 ~32:29/02/2020

2022/09542 ~ Provisional ~54:CHROMIUM BIOREMEDIATION USING EQUUS DUNG ~71:UNIVERSITY OF VENDA, University Road, South Africa ~72: John Ogony ODIYO;Joshua Nosa EDOKPAYI;Oruko Richard ONGON'G~

2022/09546 ~ Complete ~54:ELISA KIT FOR DETECTING HUMAN VEGF AND USING METHOD THEREOF ~71:Shandong Nuoxin Testing Co., Ltd., No. 32, Zhujiang Road, Economic and Technological Development Zone, Yantai City, Shandong Province, 264000, People's Republic of China ~72: GAO, Yingjiao;HU, Yanqiu~

2022/09579 ~ Complete ~54:BCL-2 PROTEIN INHIBITORS ~71:Recurium IP Holdings, LLC, 10275 Science Center Drive, Suite 200, SAN DIEGO 92121, CA, USA, United States of America ~72: BUNKER, Kevin Duane;HUANG, Peter Qinhua;PINCHMAN, Joseph Robert~ 33:US ~31:63/016,760 ~32:28/04/2020

ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)

Application Number	Assignor	Assignee
2020/02597	QMR (IP) PTY LTD	INCITEC PIVOT LIMITED
2009/02961	BRESLER, PETER	MAGNADOR GROUP PROPRIETARY LIMITED
2007/07197	BRESLER, PETER	MAGNADOR GROUP PROPRIETARY LIMITED
2007/05152	BRESLER, PETER	MAGNADOR GROUP PROPRIETARY LIMITED

Application Number	Assignor	Assignee
2007/04057	BRESLER, PETER	MAGNADOR GROUP PROPRIETARY LIMITED
2016/07585	NCM INNOVATIONS (PTY) LTD	EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD
2020/04662	AKVOLA TECHNOLOGIES GMBH	STEFFEN HARTMANN RECYCLINGTECHNOLOGIEN GMBH
2020/00412	SHELDON-COULSON GARTH ALEXANDER and BRIAN LEE MOFFAT	LONE GULL HOLDINGS, LTD.
2015/0279	GAS LIQUIDS ENGINEERING LTD	DEXPRO CORPORATION
2020/02586	UNILEVER PLC	EKATERRA RESEARCH AND DEVRELOPMENT UK LIMITED
2011/03783	SHARP KABUSHIKI KAISHA	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
2022/02433	ANTONIO J. PEREIRA-TAVERES	VITROLABS INC
2018/07325	PIQUR THERAPEUTICS AG	TORQUR AG
2018/07393	PIQUR THERAPEUTICS AG	TORQUR AG
2016/02084	PIQUR THERAPEUTICS AG	TORQUR AG
2017/02714	PIQUR THERAPEUTICS AG	TORQUR AG
2021/02572	FOLLICUM AB	COEGIN PHARMA AB
2020/07321	RESPIRATORIUS AB (PUBL)	ARCEDE PHARMA AB
2014/05541	ABIDE THERAPEUTICS, INC.	LUNDBECK LA JOLLA RESEARCH CENTER, INC.
2014/05541	LUNDBECK LA JOLLA RESEARCH CENTER, INC.	H. LUNDBECK A/S
2018/05080	JIANGSU TASLY DIYI PHARMACEUTICAL CO., LTD.	BEIJING GUSHEN HEALTH TECHNOLOGY CO., LTD.
2018/06811	JIANGSU TASLY DIYI PHARMACEUTICAL CO., LTD.	BEIJING GUSHEN HEALTH TECHNOLOGY CO., LTD.
2018/08646	JIANGSU TASLY DIYI PHARMACEUTICAL CO., LTD.	BEIJING GUSHEN HEALTH TECHNOLOGY CO., LTD.
2020/02140	CURTIN UNIVERSITY	MINING AND PROCESS SOLUTIONS PTY LTD
2021/00395	CURE PHARMACEUTICAL HOLDING CORP.	CURE PHARMACEUTICAL CORPORATION
2021/00395	CURE PHARMACEUTICAL CORPORATION	TF TECH VENTURES
2021/03083	SEEDS CAPITAL LIMITED	SUSTAINABLE ENERGY EFFICIENT DESIGNED STRUCTURES LIMITED
2022/05276	PFNONWOVENS HOLDING S.R.O. and PFNONWOVENS CZECH S.R.O.	PAUL HARTMANN AG
2022/05301	PFNONWOVENS HOLDING S.R.O. and PFNONWOVENS CZECH S.R.O.	PAUL HARTMANN AG
2022/07435	CURE PHARMACEUTICAL HOLDING CORP.	CURE PHARMACEUTICAL CORPORATION
2022/07435	CURE PHARMACEUTICAL CORPORATION	TF TECH VENTURES
2008/00557	ZIARCO INC.	NOVARTIS AG

Application Number	Assignor	Assignee
2018/03906	LIFESCIENCES AND SYSTEMS,	TARGAN INC.,
2020/07576	ENERTECHNOS HOLDINGS LIMITED	ENERTTECHNOS LIMITED
2020/07506	LIFESCIENCES AND SYSTEMS, LLC	TARGAN INC.,
2020/07505	LIFESCIENCES AND SYSTEMS, LLC	TARGAN INC.,
2018/03908	LIFESCIENCES AND SYSTEMS, LLC	TARGAN INC.,
2018/03907	LIFESCIENCES AND SYSTEMS, LLC	TARGAN INC.,
2020/07507	LIFESCIENCES AND SYSTEMS, LLC	TARGAN INC.,
2019/01266	SHELDON-COULSON GARTH ALEXANDER and BRIAN MOFFAT	LONE GULL HOLDINGS, LTD.
2006/03507	SASOL CHEMICAL INDUSTRIES LIMITED	ENAEX AFRICA (PTY) LTD
2010/02754	SASOL CHEMICAL INDUSTRIES	ENAEX AFRICA (PTY) LTD
2009/00732	SASOL CHEMICAL INDUSTRIES	ENAEX AFRICA (PTY) LTD
2015/01983	SASOL CHEMICAL INDUSTRIES LIMITED	ENAEX AFRICA (PTY) LTD
2003/08891	SASOL CHEMICAL INDUSTRIES	ENAEX AFRICA (PTY) LTD
2003/01450	SASOL CHEMICAL INDUSTRIES	ENAEX AFRICA (PTY) LTD
2016/02672	AMS TECHNOLOGIES INT. (2012) LTD.	UNISOL MEMBRANE TECHNOLOGY (XIAMEN) CO., LTD.
2021/07083	ENERGY TECHNOLOGY SERVICES PTY. LTD.	FREEFLOW ENERGY PTY LIMITED
2020/08034	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER
2003/02994	SASOL CHEMICAL INDUSTRIES LIMITED	ENAEX AFRICA (PTY) LTD
2007/07563	SASOL CHEMICAL INDUSTRIES	ENAEX AFRICA (PTY) LTD
2008/02718	SASOL CHEMICAL INDUSTRIES LIMITED	ENAEX AFRICA (PTY) LTD
2019/00411	UWATER OY	UPONOR OYJ
2019/00410	UWATER OY	UPONOR OYJ
2007/02961	SASOL CHEMICAL INDUSTRIES LIMITED	ENAEX AFRICA (PTY) LTD
2004/00311	SASOL CHEMICAL INDUSTRIES	ENAEX AFRICA (PTY) LTD
2017/01834	SASOL CHEMICAL INDUSTRIES LIMITED	ENAEX AFRICA (PTY) LTD
2019/00819	SASOL CHEMICAL INDUSTRIES LIMITED	ENAEX AFRICA (PTY) LTD

Application Number	Assignor	Assignee
2015/02094	FRED HUTCHINSON CANCER	UNIVERSITY OF WASHINGTON
	RESEARCH CENTER and	THROUGH ITS CENTER FOR
	SEATTLE CANCER CARE	COMMERCIALIZATION and FRED
	ALLIANCE	HUTCHINSON CANCER CENTER
2017/02814	ENEXIO GERMANY GMBH	ENEXIO ACC GMBH
2020/02227	AGIOS PHARMACEUTICALS,	LES LABORATOIRES SERVIER
	INC.	
2018/07646	FANTECH PTY LTD	ELTA GROUP INNOVATIONS LIMITED
2018/05776	FANTECH PTY LTD	ELTA GROUP INNOVATIONS LIMITED
2007/10176	ZIARCO INC.	NOVARTIS AG
2021/01279	INIBSA GINECOLOGIA, S.A.	ITALFARMACO S.P.A.
2021/09301	CREEK CHANNEL INC.	COUGAR CREEK TECHNOLOGIES, LLC
2009/05257		MOTOROLA SOLUTIONS, INC.
2015/08224		
2015/08224	CORPORATION	MOTOROLA SOLUTIONS, INC.
2016/04115	AVIGILON FORTRESS	MOTOROLA SOLUTIONS, INC.
	CORPORATION	
2015/02413	AVIGILON FORTRESS	MOTOROLA SOLUTIONS, INC.
	CORPORATION	
2014/08848	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
2015/01340	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
2015/05779	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
2015/05780	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
2016/05604	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
2016/04293	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
2015/08736	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
2021/07349	PRETORIUS, JUDEY	MISZEWSKI, ALEXANDRA GRACE
2020/02787	FRED HUTCHINSON CANCER RESEARCH CENTER	SEATTLE CANCER CARE ALLIANCE
2014/06791	EXEGER SWEDEN AB (PUBL)	EXEGER OPERATIONS AB
2014/06790	EXEGER SWEDEN AB (PUBL)	EXEGER OPERATIONS AB
2014/01708	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2019/07153	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2019/07235	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2019/07260	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2020/02533	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2017/00956	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2016/06413	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2017/00955	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2017/08309	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC

Application Number	Assignor	Assignee
2011/06412	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2013/06536	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2009/05134	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2009/05337	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2007/05130	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2009/03334	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2004/06632	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2015/03143	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2010/03902	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2010/05333	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2010/07370	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2012/03012	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2020/06507	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2020/04772	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2020/02999	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2018/02974	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2018/02975	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2018/05073	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2018/02369	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2019/07235	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2018/06141	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2020/03742	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2011/06807	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC
2021/04193	UNIVERSITY OF TARTU	UNITARTU VENTURES OÜ
2021/04193	UNITARTU VENTURES OÜ	UP CATALYSY OÜ
2018/03848	CHRISTOPH FRAUNDORFER	FRAUNDORFER AERONAUTICS AG
Application Number	Assignor	Assignee
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2019/01924	SYMPHOGEN A/S	CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.
2015/04005	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER
2016/00667	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER
2017/00572	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER
2014/05164	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER
2019/01880	NCM INNOVATIONS (PTY) LTD	EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD
2007/04130	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2011/00480	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2019/01630	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2016/01628	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2013/07583	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2020/01721	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2020/03159	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2021/10692	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2021/04162	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2021/03292	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2021/02628	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2021/03942	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2018/07863	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2019/06470	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2007/02269	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2018/03561	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2022/01427	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2019/04292	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2019/07275	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2012/05737	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC

Application Number	Assignor	Assignee
2018/01120	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2013/03308	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2013/09504	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2004/04012	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2006/01961	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2005/09933	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2006/03106	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2006/07575	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2005/07178	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2019/01701	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2019/02086	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2006/06573	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2005/01855	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2014/01272	MERCK SHARP & DOHME CORP.	MERCK SHARP and DOHME LLC
2018/03162	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER
2021/00373	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER
2016/06134	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER
2016/06135	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER
2017/00571	AGIOS PHARMACEUTICALS, INC.	LES LABORATOIRES SERVIER

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2021/02112	THE CLIMATE CORPORATION	CLIMATE LLC
2010/08895	SEMAFONE LIMITED	SYCURIO LIMITED
2019/07261	ARGENX BVBA	ARGENX BV
2021/03069	ECOMBUSTIBLE PRODUCTS HOLDINGS, LLC	ECOMBUSTIBLE ENERGY, LLC
2017/08310	ACROTECG BIOPHARMA LLC	ACROTECH BIOPHARMA INC.

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Application Number	In the name of	New name
2020/02787	SEATTLE CANCER CARE ALLIANCE	FRED HUTCHINSON CANCER CENTER
2003/01240	NUTRINOVA NUTRITION SPECIALTIIES & FOOD INGREDIENTS GMBH	CELANESE SALES GERMANY GMBH
2015/01224	IN OVO B.V.	IN OVO HOLDING B.V.
2021/09200	INFECTIOUS DISEASE RESEARCH INSTITUTE	ACCESS TO ADVANCED HEALTH INSTITUTE
2021/09248	INFECTIOUS DISEASE RESEARCH INSTITUTE	ACCESS TO ADVANCED HEALTH INSTITUTE
2019/03386	ONCOMED PHARMACEUTICALS, INC.	MEREO BIOPHARMA 5, INC.

PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63

Application Number	Licensor	Licensee
2022/04293	LINA ZOU	GANSU WEILING TECHNOLOGY CO., LTD.

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date
2021/02176	WITHDRAWN	08/02/2022
2021/04636	WITHDRAWN	29/06/2022
2021/04635	WITHDRAWN	29/06/2022
2022/04004	WITHDRAWN	26/04/2022

APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR THE RESTORATION OF A LAPSED PATENT UNDER SECTION 47 OF THE ACT

Notice is hereby given to McNnnac Energy Services Inc OF ADAMS & ADAMS. LYNWOOD MANOR, PRETORIA that made application for the restoration of the patent granted to said McNnnac Energy Services Inc. an invention COOLING SYSTEM numbered 2009/08497 dated 07/05/2008 which became void 07/05/2021 owing to the non-payment of the prescribed renewal fee. Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to ENI S.P.A AND IFP ENERGIES NOUVELLES OF DM KISCH INC, SANDTON, JOHANNESBURG that made application for the restoration of the patent granted to said ENI S.P.A AND IFP ENERGIES NOUVELLES an invention INJECTION OF ADDITIVE INTO A UNIT FOR SYNTHESISING HYDROCARBONS STARTING FROM SYNTHESIS GAS ENABLING A HOMOGENOUS CONCENTRATION

OF CATALYST TO BE CONTROLLED AND MAINTAINED numbered 2013/08526 dated 13/11/2013 which became void 13/11/2020 owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

Notice is hereby given that LES LABORATOIRES SERVIER, 35, RUE DE VERDUN, SURESNES F-92284, FRANCE. made application for voluntary surrender of the patents granted to the said LES LABORATOIRES SERVIER numbered 2008/07024.

Any person may give notice of opposition to the voluntary surrender of the patent within two months of the advertisement hereof.

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: H. LUNDBECK A/S 2) TAKEDA PHARMACEUTICALS NORTH AMERICA, INC. of 1). OTTILIAVEJ 9, DK-2500, VALBY, DENMARK 2). ONE TAKEDA PARKWAY, DEERFIELD, ILLINOIS, 60015, UNITED STATES OF AMERICA. Request permission to amend the specification of letters patent no: 2010/03350 of 12/05/ 2010 for THERAPEUTIC USES OF COMPOUNDS HAVING COMBINED SERT, 5-HT3 AND 5-HT1A ACTIVITY.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: H. LUNDBECK A/S of OTTILIAVEJ 9, DK-2500, VALBY, DENMARK. Request permission to amend the specification of letters patent no: 2011/05992 of 16/08/2011 for PURIFICATION OF 1-[2-(2,4-DIMETHYLPHENYLSULFANYL)PHENYL]PIPERAZINE.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: H. LUNDBECK A/S of OTTILIAVEJ 9, DK-2500, VALBY, DENMARK. Request permission to amend the specification of letters patent no: 2013/01385 of 22/02/2013 for THERAPEUTIC USES OF 1-[2-(2,4-DIMETHYL-PHENYLSULFANYL)PHENYL]PIPERAZINE.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: CORCEPT THERAPEUTICS, INC. 149 Commonwealth Drive Menlo Park, California 94025. Request permission to amend the specification of letters patent no: 2018/05787 of 29/08/2018 for THE USE OF GLUCOCORTICOID RECEPTOR MODULATORS TO POTENTIATE CHECKPOINT INHIBITORS.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: STELLENBOSCH UNIVERSITY., ADMIN B, VICTORIA STREET, STELLENBOSXCH, 7600, ZA. Request permission to amend the specification of letters patent no: 2021/00380 of 19/01/2021 for METHOD AND DEVICE FOR DETERMINING AUTOPHAGIC FLUX.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: NOXXON PHARMA AG Max-Dohrn-Straase 8-10, Berlin D-10589. Request permission to amend the specification of letters patent no: 2010/00446 of 21/01/2010 for SDF-1 BINDING NUCLEIC ACIDS AND THE USE THEREOF.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: ORION CORPORATION Orionintie 1, FI-02200, Espoo. Request permission to amend the specification of letters patent no: 2012/02655 of 12/4/2012 for ANDROGEN RECEPTOR MODULATING COMPOUNDS.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: WOBBEN PROPERTIES GMBH Dreekamp 5, Aurich, 26605. Request permission to amend the specification of letters patent no: 2013/04951 of 03/07/2013 for METHOD AND DEVICE FOR ERECTING A TOWER FOR A WIND ENERGY PLANT.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: EKATO RÜHR- UND MISCHTECHNIK GMBH Hohe-Flum-Str. 37 79650 Schopfheim. Request permission to amend the specification of letters patent no: 2016/07924 of 16/11/2016 for STIRRING DEVICE.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: CORCEPT THERAPEUTICS, INC. 149 Commonwealth Drive Menlo Park, California 94025. Request permission to amend the specification of letters patent no: 2017/06101 of 07/09/2017 for USE OF GLUCOCORTICOID RECEPTOR ANTAGONISTS IN COMBINATION WITH GLUCOCORTICOIDS TO TREAT ADRENAL INSUFFICIENCY.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: Seal Chemistry (Pty) Ltd Mariann Industrial Park, Pinetown 3610 Durban. Request permission to amend the specification of letters patent no: 2018/06500 of 01/10/2018 for ALTERNATIVE TO METALLISED PAPER AND FOIL/FILM/PAPER LAMINATES FOR THE WRAPPING OF MARGARINE AND BUTTER PRODUCTS.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE) 101, Rue de Tolbiac F-75013 Paris., SORBONNE UNIVERSITE 21, rue de l'Ecole de Médecine 75006 Paris., UNIVERSITE PARIS DESCARTES 12, rue de l'Ecole de Médecine 75006 Paris 6., UNIVERSITÉ PARIS DIDEROT - PARIS 7 5, rue Thomas Mann 75013 Paris., ASSISTANCE PUBLIQUE – HÔPITAUX DE PARIS 3 Avenue Victoria 75004 Paris. Request permission to amend the specification of letters patent no: 2018/07020 of 22/10/2018 for METHODS FOR CLASSIFYING PATIENTS WITH A SOLID CANCER.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: POLICHEM S.A. 50, Val Fleuri, L-1526 Luxembourg. Request permission to amend the specification of letters patent no: 2018/08034 of 28/11/2018 for SPRAY DISPENSER.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: FRAMATOME 1 place Jean Millier, Tour Areva 92400 Courbevoie. Request permission to amend the specification of letters patent no: 2019/05260 of 08/8/2019 for DEVICE AND METHOD FOR SEAL VERIFICATION BY PENETRANT INSPECTION OF A NUCLEAR FUEL ASSEMBLY.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: UPL LTD., Agrochemical Plant, Durgachak, Midnapore Dist., HALDIA 721 602, WEST BENGAL, INDIA. Request permission to amend the specification of letters patent no: 2020/03267 of 01/06/2020 Patent for NOVEL COMBINATIONS OF DEFOLIANTS.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: BEARD, Gavin James 10 Silk Oak Drive, Irene Farm Villages, IRENE 0133, SOUTH AFRICA., FORSYTH, Mark 46 Sparrow Street, Clearwater Estates, Atlas Road, PARKHAVEN 1459, SOUTH AFRICA. Request permission to amend the specification of letters patent no: 2020/05894 of 21/09/2020 for A PICK SLEEVE.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: LANCASTER UNIVERSITY BUSINESS ENTERPRISES LIMITED University House, Bailrigg Lancaster Lancashire LA1 4YW. Request permission to amend the specification of letters patent no: 2019/03003 of 14/5/2019 for TREATMENT OF NEUROLOGICAL DISEASES.

A copy of the original specification on which the proposed amendment is indicated inred, is now available for public inspection at the Patent Office .

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: NOXSANO INC. 1275 Kinnear Road Columbus, Ohio 43212. Request permission to amend the specification of letters patent no: 2019/05431 of 16 August 2019 for ELECTROCHEMICAL GASOTRANSMITTER GENERATING COMPOSITIONS AND METHODS OF USING SAME AND DRESSINGS AND TREATMENT SYSTEMS INCORPORATING SAME.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

INSPECTION OF SPECIFICATIONS

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4**, **00**. Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

COPIES OF DOCUMENTS

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: R1, 00 per page

(Payment to be affected by means of revenue stamps only.)

COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

The numerical references denote the following: (21) Number of application. (22) Date of application. (DA) Date of acceptance. (51) Class. (71) Name of applicant(s). (72) Name of all inventors. (33) Country. (31) Number and (32) Date of convention application. (54) Title of invention. (00) Number of sheets.

Registrar of Patents

21: 2008/10802. 22: 2008/12/22. 43: 2022/07/07 51: B22F; B23B; E21B 71: SMITH INTERNATIONAL INC 72: VORONIN GEORGIY, BELNAP J DANIEL 33: US 31: 11/971.893 32: 2008-01-09 54: POLYCRYSTALLINE ULTRA-HARD CONSTRUCTIONS WITH MULTIPLE SUPPORT MEMBERS

00: -

Polycrystalline ultra-hard constructions comprise a polycrystalline ultra-hard material body and two or more support members attached to the body by braze material. The support members include a backside support member and a side support member. The side support member is a one- or twopiece construction, and is positioned circumferentially around and extends axially along the body or both the body and the backside support member such that a working surface of the body remains exposed. The support members can be configured to provide a mechanical attachment or interlocking attachment with the body or another support member. The braze materials used in the construction can be different and selected to enhance the attachment and/or reduce the creation of thermal stress within the construction during assembly. The support members can be selected

having different thermal expansion characteristics that also operate to reduce the thermal stress during construction assembly.



21: 2010/07778. 22: 2010/11/01. 43: 2011/05/04 51: G01L 71: BERMAD CS LTD 72: WEINGARTEN ZVI 33: US 31: 12/112.051 32: 2008-04-30 54: PRESSURE DIFFERENTIAL METERING DEVICE 00: -

The pressure differential metering device of the present invention is generally deployed as a flow restrictor placed in the valve inlet so it will create a desired differential pressure to signal a pilot valve, for example, that drives the main valve to limit the flow rate through the valve. The pressure differential metering device of the present invention is deployed across the valve inlet port, with its central axis perpendicular to the direction of fluid flow. The flow restriction element of the present invention may be configured in a variety of sizes to create a desired restrictive cross section to the flow, thereby creating the required differential pressure signals for the valve instrumentation and control. The flow restriction element is configured with upstream and downstream apertures that are the openings to passageways to the corresponding upstream and downstream end-ports. The end-ports provide connection arrangements for the control system of the main valve instrumentation.



21: 2010/08603. 22: 2010/11/30. 43: 2022/06/20 51: F01D; F04D

71: Weir Minerals Australia Ltd

72: GLAVES, Garry Bruce, FOREMAN, Michael Christopher

33: AU 31: 2008903030 32: 2008-06-13 54: LINER COUPLING PIN

00: -

A coupling pin for use in a pump housing, the pump housing including an outer casing and an inner pump liner, the coupling pin being suitable for locating the liner and casing relative to one another, the coupling pin including a shank and a head at one end of the shank. The head includes a cammed surface thereon which is adapted to co-operate with a follower on the liner, and a locating section on a remote or terminal end of the head which is adapted to be positioned against a seat in the outer casing when fitted. The arrangement is such that rotation of the coupling pin causes the follower to track along the cammed surface so as to cause relative movement between the outer casing and the inner pump liner.



21: 2011/04368. 22: 2011/06/13. 43: 2012/01/03 51: A61S 71: LIFEWAVE LTD 72: AFARGAN MICHAEL, RICCI ELIA BERNARDINO 33: US 31: 61/118,451 32: 2008-11-27 33: US 31: 12/477,944 32: 2009-06-04 54: METHODS OF DIAGNOSIS AND TREATING WOUNDS AND SCREENING FOR ELECTRICAL MARKERS FOR WOUNDS PROGNOSIS 00: -Described herein are electrical markers, specifically

Described herein are electrical markers, specifically alternate current (AC) signals whose ap-pearance in patients with wounds, specifically chronic wounds, correlates to the prognosis of the wounds. Related methods that can be used for diagnosis and treatment of wounds are disclosed. Also described herein are methods that can be used to identify electrical signals of wounds.

21: 2011/05106. 22: 2011/07/12. 43: 2013/07/03 51: A23G

71: NICEVEND LTD

72: KLIER NIRI, GRANOT BOAZ

33: US 31: 61/145.660 32: 2009-01-19 33: US 31: 61/164.488 32: 2009-03-30

54: APPARATUS FOR DISPENSING MADE-TO-

ORDER FROZEN BEVERAGE

An apparatus for preparing and dispensing a flavoured ice beverage and a method of using

thereof. The apparatus includes at least one container for holding flavour ingredi-ents, a blending unit including a blender container and a blending mechanism, an ice flakes supplying unit, a mechanism for transferring the flavour ingredients to the blender container and a computerized control unit for controlling one or more aspects of the process of producing the ice beverage. The flavour ingredients can be in grain form, pow-der form or in liquid form



21: 2011/06178. 22: 2011/08/23. 43: 2012/12/04 51: F16K 71: BERMAD CS LTD 72: AZOULAY MOSHE, BARKAN ZVI, WEINGARTEN ZVI 33: US 31: 197320 32: 2009-02-26 54: PRESSURE MANAGEMENT HYDRAULIC CONTROL VALVE

00: -

Described herein are electrical markers, specifically alternate current (AC) signals whose ap-pearance in patients with wounds, specifically chronic wounds, correlates to the prognosis of the wounds. Related methods that can be used for diagnosis and treatment of wounds are disclosed. Also described herein are methods that can be used to identify electrical signals of wounds.

21: 2012/02141. 22: 2012/03/23. 43: 2013/03/26 51: F02B

71: CHORONSKI EVGENIY, MOUKHAEV BORIS

72: CHORONSKI EVGENIY, MOUKHAEV BORIS

54: OPPOSITE RADIAL ROTARY-PISTON ENGINE OF CHORONSKI 00: -

A two-stroke opposite radial rotary-piston engine is proposed, comprising a block including sleeves, pairs of pistons disposed within the sleeves and oppositely movable, guiding bearings, a power takeoff shaft, rotors mounted thereon having an inner surface formed by a closed curved line, the rotors' transverse axes are predeterminedly disposed. On the frontal part, the rotors have concaved surface portions along the curved line. Tlike traverses are mounted, pair-wise spanning the pistons. The traverses include convex protrusions, cooperating with the concaved portions during the start of the engine. A clearance between the concaved and convex portions is provided after the start. The engine comprises support bearings, coupled to traverses. Support bearings include an external bushing, rolling over the inner surface of the rotor associated with the traverse, thereby impelling the rotor. Other elements and alternative module embodiments are added, enhancing the efficiency, size, weight, and power variety of the engine.



- 21: 2012/03872. 22: 2012/05/11. 43: 2013/06/24 51: A01G; E02B
- 71: TAL-YA WATER TECHNOLOGIES LTD
- 72: TAMIR AVRAHAM 54: IRRIGATION SYSTEM

00: -

An irrigation device for use with a drip irrigation conduit providing water to individual plants planted in rows. The irrigation device includes a water distribution element config-ured with at least one drip irrigation conduit support and a plurality of water direction elements. Water emitted by the drip

irrigation conduit is collected by said water distribution element and each of said plurality of water direction elements directs said water to a different delivery point that corresponds to the location of a plant. In a first embodi-ment, the water distribution element is deployed between crop rows and is configured with at least one water flow trough and a plurality of spaced apart channels extending from the trough at predefined intervals, which direct water from the trough to individual plants. In other embodiments the distribution element may be deployed over the crop row or as ground cover with suitably configured openings.



- 21: 2013/01622. 22: 2013/03/04. 43: 2022/07/18 51: A01H; C12N 71: EVOGENE LTD 72: PANIK DAVID, VINOCUR BASIA JUDITH, KARCHI HAGAI 33: US 31: 61/378,003 32: 2010-08-30 33: US 31: 61/405,260 32: 2010-10-21 33: US 31: 61/437,715 32: 2011-01-31
- 33: WO 31: PCT/IB2011/051843 32: 2011-04-27

54: ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES, AND METHODS OF USING SAME FOR INREASING NITROGEN USE EFFICIENCY, YIELD, GROWTH RATE.VIGOR, BIOMASS.OIL CONTENT, AND/OR ABIOTIC STRESS TOLERANCE 00: -

Provided are isolated polynucleotides and nucleic acid constructs which comprise a nucleic acid sequence at least 80 % identical to a nucleic acid sequence selected form the group consisting of SEQ ID NOs: 277, 1-276, 278-469 and 785-2397; and isolated polypeptides which comprise an amino acid sequence at least 80 % homologous to an amino acid sequence selected from the group consisting of SEQ ID NOs: 482, 470-481, 483-784 and 2398-3818. Also provided are transgenic cells and plants expressing same and methods of using same for increasing nitrogen use efficiency, yield, biomass, growth rate, vigor, oil content, fiber yield, fiber quality, and/or abiotic stress tolerance of a plant.

- 21: 2013/03945. 22: 2013/05/29. 43: 2015/10/27 51: H01L 71: INTERLOCK SYSTEMS CC 72: VAN RENSBURG NEIL 54: PROTECTIVE HOUSING
- 00: -

The invention relates to a protective housing for a solar panel having a high impacted resistant cover secured to a housing, the solar panel being positioned to define a frontal cavity between the high impacted resistant cover and the solar panel so that any flexibility of the high impacted resistant cover, during attack, can be absorbed with the cavity preventing damage to the solar panel.

- 21: 2013/09174. 22: 2013/12/05. 43: 2022/06/20
- 51: A61K; C07K
- 71: Novo Nordisk A/S
- 72: SCHÄFFER, Lauge, KRUSE, Thomas,
- THØGERSEN, Henning
- 33: EP(DK) 31: 11169405.5 32: 2011-06-10

54: POLYPEPTIDES 00: -

The invention relates to polypeptides comprising an amino acid sequence which is an analogue of pramlintide, pharmaceutical compositions comprising these polypeptides, and these polypeptides for use as medicaments. 21: 2014/02815. 22: 2014/04/16. 43: 2022/06/20 51: C10K; C10J 71: GIDARA ENERGY B.V.

72: HEINRITZ-ADRIAN, MAX, ABRAHAM, RALF, PAVONE. DOMENICO

33: DE 31: 10 2011 114 171.9 32: 2011-09-19 54: METHOD FOR PRODUCING SYNTHESIS GAS BY GASIFYING A BIOMASS IN A FLUIDIZED BED 00: -

The invention relates to a method for producing synthesis gas by gasifying a biomass (2) in a fluidized bed, the biomass (2) being fed to a fluidized bed gasifier (3). In order to eliminate vapor-forming alkalis produced during the gasification, the invention provides for the synthesis gas to be brought into contact with getter ceramics (11).



21: 2014/05501. 22: 2014/07/25. 43: 2022/06/29 51: G01N

71: BECTON, DICKINSON AND COMPANY 72: STEEL, Adam, WOJECK, Thomas, YOUNG, Mike, LARSEN, Mark

33: US 31: 61/594,867 32: 2012-02-03 54: EXTERNAL FILES FOR DISTRIBUTION OF MOLECULAR DIAGNOSTIC TESTS AND DETERMINATION OF COMPATIBILITY BETWEEN TESTS

00: -

Embodiments disclosed herein relate to methods and systems for performing an automated assay, and particularly to performing an assay on a plurality of samples on an automated instrument.



21: 2014/06672. 22: 2014/09/11. 43: 2022/06/29 51: C23C

71: SMITH INTERNATIONAL INC.

72: YAHUA BAO, J DANIEL BELNAP, STEWART N MIDDLEMISS

33: US 31: 61/621,918 32: 2012-04-09 33: US 31: 13/830,181 32: 2013-03-14 54: THERMAL INSULATION LAYER AND PRESSURE TRANSFER MEDIUM FOR HIGH-PRESSURE HIGH-TEMPERATURE CELL

00: -

A thermal insulation layer for an HPHT cell, the thermal insulation layer including CsC1, CsBr, CsI, or a combination thereof, and the thermal insulation layer being electrically insulating; the thermal insulation layer including a thermal insulation sleeve and/or a thermal insulation button for an HPHT cell; a pressure transfer medium for an HPHT cell, the pressure transfer medium including CsBr, CsI or a combination thereof; and a pressure transfer medium for an HPHT cell, the pressure transfer medium including CsCl and additive, with the proviso that the additive does not include ZrO2 are disclosed. HPHT press systems that include a thermal insulation layer or a pressure transfer medium according to embodiments of the present disclosure are also disclosed.



21: 2014/07254. 22: 2014/10/07. 43: 2022/06/20 51: G01N

71: BECTON, DICKINSON AND COMPANY, INC. 72: DALBERT, Celine, Roger, KRAYER, Joel, Daniel, STEEL, Adam, Bruce, ROY, Denis 33: US 31: 61/624,198 32: 2012-04-13 54: REFLEX TESTING OF SAMPLES USING RESIDUAL MATERIALS FROM A PRIOR TEST 00: -

Embodiments disclosed herein relate to methods and systems for performing an automated assays, and particularly to performing sequential assays on a sample on an automated instrument.



21: 2014/07913. 22: 2014/10/30. 43: 2022/06/20 51: G02B 71: TYCO ELECTRONICS RAYCHEM BVBA 72: AZNAG, Mohamed, DE GROE, Emilie, HOUBEN, Diederik, COENEGRACHT, Philippe, DOULTREMONT, Pieter, VAN GENECHTEN, Geert, FREDERICKX, Maddy, Nadine, MICHIELS, Maarten, KEUSTERMANS, Eric, Marcel, M. 33: US 31: 61/766,514 32: 2013-02-19 33: US 31: 61/619,747 32: 2012-04-03 54: TELECOMMUNICATIONS ENCLOSURE AND ORGANIZER

00: -

A closure (10) includes a cover (4) and seal block (18). A feeder cable pathway and rear cover is provided for separation of feeder cables from drop cables. The organizer (426) in the closure includes an end cap and rear cable storage (190). Cable fixation clips, linear or bendable, can be used individually or daisy chained together. Cable fixation chambers (224, 226) are positioned on top of the gel block (220) housing. The organizer is a click together organizer. Dual heights on cable guides on sides of the groove plate facilitate cable installation. Tray supports with rounded ends prevent looseness of the tray mounts. Other organizers include cable routing features for compact storage.



21: 2015/05281. 22: 2015/07/22. 43: 2022/06/20 51: C01B

71: MIDREX TECHNOLOGIES, INC. 72: METIUS, Gary, E., McCLELLAND, James, M. Jr 33: US 31: 13/768,331 32: 2013-02-15 54: METHOD AND APPARATUS FOR SEQUESTERING CARBON DIOXIDE FROM A SPENT GAS 00: -

A method and apparatus for sequestering carbon dioxide from a waste gas and reusing it as a recycled gas without emissions concerns, including: given a gas source divided into a process gas and a waste gas: mixing the process gas with a hydrocarbon and feeding a resulting feed gas into a reformer for reforming the feed gas and forming a reducing gas; and feeding at least a portion of the waste gas into a carbon dioxide scrubber for removing at least some carbon dioxide from the waste gas and forming a carbon dioxide lean gas that is mixed with the reducing gas.



21: 2015/05483. 22: 2015/07/30. 43: 2022/06/17 51: C12N; C12P

71: H. Lundbeck A/S.

72: LESNICKI, Gary, MCNEILL, Patricia Dianne, HARTNER, Franz, YOUNG, Mark 33: US 31: 61/791,471 32: 2013-03-15 33: US 31: 61/790,613 32: 2013-03-15 54: TEMPERATURE SHIFT FOR HIGH YIELD EXPRESSION OF POLYPEPTIDES IN YEAST AND OTHER TRANSFORMED CELLS 00: -

Methods for producing heterologous proteins are disclosed. In particular, the present disclosure provides improved methods of producing desired proteins, including multi-subunit proteins such as antibodies, with a higher yield and improved purity. In exemplary embodiments, the transformed cells are a yeast, e.g., methylotrophic yeast such as Pichia pastoris.



Figure 1: RQ control profile for 3 different mAb1 antibody strains A, B & C in 20L fermenters.

21: 2015/06432. 22: 2015/09/02. 43: 2022/06/20 51: C01B

71: BASF SE

72: PARVULESCU, Andrei-Nicolae, MÜLLER, Ulrich, LÜTZEL, Hans-Jürgen, UHL, Georg, BAYER, Robert, VOGELSANG, Regina, SCHLOSSER, Robert, RUSLIM, Franky, CZAJKA, Pawel 33: EP 31: 13154025.4 32: 2013-02-05 54: PROCESS FOR PREPARING A BORON CONTAINING ZEOLITIC MATERIAL HAVING MWW FRAMEWORK STRUCTURE 00: -

A process for preparing an aluminum-free boron containing zeolitic material comprising the framework structure MWW (BMWW), comprising (a) hydrothermally synthesizing the BMWW from a synthesis mixture containing water, a silicon source, a boron source, and an MWW template compound obtaining the BMWW in its mother liquor, the mother liquor having a pH above 9; (b) adjusting the pH of the mother liquor, obtained in (a) and containing the BMWW, to a value in the range of from 6 to 9; (c) separating the BMWW from the pH- adjusted mother liquor obtained in (b) by filtration in a filtration device.

- 72: BRENTJENS, Renier J., JACKSON, Hollie J.
- 33: US 31: 61/769,543 32: 2013-02-26

54: COMPOSITIONS AND METHODS FOR IMMUNOTHERAPY 00: -

The present invention provides for methods and compositions for enhancing the immune response

^{21: 2015/06511. 22: 2015/09/04. 43: 2022/06/08} 51: A61K; C12N

^{71:} Memorial Sloan-Kettering Cancer Center

toward cancers and pathogens. It relates to immunoresponsive cells bearing antigen receptors, which can be chimeric antigen receptors (CARs), which express introduced ligands for immunomodulatory molecules. In particular embodiments, engineered immunoresponsive cells are antigen-directed and resist immunosuppression and/or have enhanced immune-activating properties.



21: 2015/07657. 22: 2015/10/14. 43: 2022/06/08 51: A61K; A61P; C07D 71: Idorsia Pharmaceuticals Ltd 72: BOLLI, Martin, LESCOP, Cyrille, NAYLER, Oliver, STEINER, Beat 33: EP(CH) 31: 13159482.2 32: 2013-03-15 54: PYRIDIN-4-YL DERIVATIVES 00: -

The invention relates to compounds of the Formula (I), Formula (I) wherein R^1 and R^2 are as described in the description, their preparation and their use as pharmaceutically active compounds. Said compounds particularly act as immunomodulating agents.



21: 2015/08327. 22: 2015/10/26. 43: 2022/06/20 51: C12N A01H A61K A61P C07K 71: MEDICAGO INC. 72: COUTURE, Manon, D'AOUST, Marc-André, VEZINA, Louis-Philippe 33: US 31: 61/806,227 32: 2013-03-28 33: US 31: 61/925,852 32: 2014-01-10 33: US 31: 61/971,274 32: 2014-03-27 54: INFLUENZA VIRUS-LIKE PARTICLE PRODUCTION IN PLANTS 00: -

A method of producing a virus like particle (VLP) in a plant comprising modified hemagglutinin is provided. The method comprises introducing a nucleic acid comprising a regulatory region active in the plant and operatively linked to a nucleotide sequence encoding a modified influenza hemagglutinin (HA) protein into the plant, or portion of the plant, the modified HA protein comprises a modified proteolytic loop. Followed by incubating the plant or portion of the plant under conditions that permit the expression of the nucleic acids, thereby producing the VLP. The modified proteolytic loop may comprise one or more protease cleavage sites exhibiting reduced or abolished cleavage by a protease. The nucleotide sequence encoding the HA may be selected from the group consisting of B HA, C, H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, H13, H14, H15, and H16. Also described is a virus like particle (VLP) produced by the method, and plants expressing the VLP. The virus like particle (VLP) may comprise plant-specific N-glycans, or modified N- glycans.





21: 2015/08812. 22: 2015/12/02. 43: 2022/06/08 51: F03B

- 71: Dresser-Rand Company
- 72: HALL, Russell, NATANZI, Shahab

33: US 31: 61/830,541 32: 2013-06-03

54: SHUT-OFF VALVE FOR OSCILLATING WATER COLUMN TURBINES

00: -

A shut-off valve for a turbine of an oscillating water column may include a plurality of guide vanes configured to control a fluid flow into a flow passage defined by the turbine. The plurality of guide vanes may be at least partially disposed within the flow passage and may include a plurality of fixed guide vanes and a plurality of movable guide vanes. The plurality of fixed guide vanes and the plurality of movable guide vanes may be sequentially disposed in an alternating pattern in the flow passage.



21: 2016/01051. 22: 2016/02/16. 43: 2022/06/17 51: B24D; E21B

71: SMITH INTERNATIONAL, INC.

72: BAO, Yahua, ZHAO, Liang, BELNAP, J. Daniel, LIN, Zhijun

33: US 31: 61/876,696 32: 2013-09-11

33: US 31: 14/481,570 32: 2014-09-09

54: THERMALLY STABLE POLYCRYSTALLINE DIAMOND AND METHODS OF MAKING THE SAME 00: -

A method of making a cutting element includes subjecting a mixture of diamond particles and a carbonate material to high-pressure hightemperature sintering conditions to form a sintered carbonate-polycrystalline diamond body having a diamond matrix of diamond grains bonded together and carbonates residing in the interstitial regions between the diamond grains, the carbonate material having a non-uniform distribution throughout the diamond matrix. The carbonate-polycrystalline diamond body is subjected to a controlled temperature, a controlled pressure condition or a combination thereof, to effect an at least partial decomposition of the carbonate material.



21: 2016/01963. 22: 2016/03/22. 43: 2022/06/20 51: C07K; A61K; A61P; C12N 71: THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY

72: MWALE, FACKSON, ANTONIOU, JOHN, HAGLUND, LISBET, ROUGHLEY, PETER J, GAWRI, RAHUL, EPURE, LAURA M, GRANT, MICHAEL P

33: US 31: 61/870,394 32: 2013-08-27 33: US 31: 61/975,329 32: 2014-04-04 54: METHODS AND COMPOSITIONS FOR TREATMENT OF CARTILAGE AND DISC TISSUE PATHOLOGIES

00: -

An isolated polypeptide comprising a peptide selected from: i) DHX₁SDNYT, wherein X₁ is L or H (SEQ ID NO:3); ii) a conservative variant of i) iii) a fragment of i) or ii); wherein the conservative variant and/or fragment retains biological activity and the peptide is 15 or less amino acids as well as recombinant cells, and uses thereof.



21: 2016/02043. 22: 2016/03/29. 43: 2022/07/07 51: A61K; A61P 71: ARAVAX PTY LTD 72: O'HEHIR, Robyn Elizabeth, PRICKETT, Sara Rachel, ROLLAND, Jennifer May 33: AU 31: 2013903686 32: 2013-09-25 54: NOVEL IMMUNOTHERAPEUTIC COMPOSITION AND USES THEREOF 00: -

The present invention relates generally to an immunotherapeutic composition. More particularly, the present invention relates to an immunotherapeutic composition which interacts immunologically with T lymphocytes in subjects having peanut allergy or allergy to other tree nuts. This composition is preferably immunointeractive with T cells in subjects having an allergy to the Ara h 1 and/or Ara h 2 allergens. The composition of the present invention is useful in the therapeutic or prophylactic treatment of conditions characterised by an aberrant, inappropriate or otherwise unwanted immune response to peanut, Ara h1 and/or Ara h 2 or derivative or homologue thereof.

- 21: 2016/04874. 22: 2016/07/14. 43: 2022/06/20 51: C12N
- 71: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

72: ESVELT, KEVIN M, SMIDLER, ANDREA L 33: US 31: 61/924,735 32: 2014-01-08 33: US 31: 62/024,642 32: 2014-07-15 54: RNA-GUIDED GENE DRIVES 00: -

RNA guided Cas9 gene drives and method for their use are disclosed. Embodiments of the present disclosure are based on the use of RNA guided DNA binding proteins to co-localize with guide RNA at a target DNA site and act as gene drives. DNA binding proteins included within the scope of the present disclosure include those which may be guided by RNA, referred to herein as guide RNA. DNA binding include naturally occurring DNA binding proteins having nuclease activity, such as Cas9 proteins. According to one aspect, the enzyme of the present disclosure, such as Cas9 unwinds the DNA duplex and searches for sequences matching the crRNA to cleave.



21: 2016/05437. 22: 2016/08/05. 43: 2022/06/20 51: C12N A01H C07H 71: MEDICAGO INC.

72: LAVOIE, Pierre-Olivier, D'AOUST, Marc-André 33: US 31: 61/925,852 32: 2014-01-10 33: US 31: 61/971,274 32: 2014-03-27 **54: CPMV ENHANCER ELEMENTS** 00: -An expression enhancer comprising a CPMV 5'UTR

nucleotide sequence consisting of X nucleotides (CMPVX), where X=160, 155, 150, or 114 of SEQ ID NO:1, or consisting of a nucleotide sequence comprising from about 80% to 100% sequence similarity with CMPVX, where X=160, 155, 150, or 114 of SEQ ID NO:1SEQ ID NO:1 is provided. The expression enhancer may further comprise a stuffer sequence fused to the 3' end of the 5'UTR nucleotide sequence (CMPVX+, where X=160, 155, 150, or 114 of SEQ ID NO:1). The stuffer sequence may comprise one or more plant kozak sequences. Plants comprising the expression enhancer and methods using the expression enhancer are also described.

Construct comprising CPMV1-X





21: 2016/05495. 22: 2016/08/08. 43: 2022/06/17 51: A61K; C12N

71: Bayer Animal Health GmbH

72: EIĆKER, Andrea, WEHLMANN, Hermann, MUNNES, Marc, SCHAUER, Romina, ABRAHAM, Albert, WEISS, Christian, FELDHUES, Elisabeth 33: US 31: 61/946,372 32: 2014-02-28 **54: IMMUNOSTIMULATORY PLASMIDS** 00: -

The present invention relates to immunomodulator compositions and methods of use as well as methods of making. The immunomodulator compositions comprise immunostimulatory plasm ids, or DNA sequence, capable of eliciting an immune response in a recipient subject. Further, the immunostimulatory plasmids, or DNA sequence, do not contain antibiotic resistance coding sequence to help reduce the potential of horizontal transfer of antibiotic resistance in a population.

21: 2016/06275. 22: 2016/09/09. 43: 2022/06/22 51: A61K; C07D

71: Incyte Holdings Corporation
72: WU, Liangxing, HE, Chunhong, QIAN, Ding-Quan, SHEN, Bo, WANG, Xiaozhao, YAO, Wenqing, ZHANG, Fenglei, COURTER, Joel R.
33: US 31: 61/939,488 32: 2014-02-13
54: CYCLOPROPYLAMINES AS LSD1
INHIBITORS
00: -

The present invention is directed to cyclopropylamine derivatives which are LSD1 inhibitors useful in the treatment of diseases such as cancer.

21: 2016/06799. 22: 2016/10/03. 43: 2022/07/07

51: B01D; C01B; C01G; C22B 71: FFK TECHNOLOGIES INC. 72: KAMALEDDINE, Fouad F. 33: US 31: 61/948,319 32: 2014-03-05 54: THE PRODUCTION OF HIGH-GRADE SYNTHETIC RUTILE FROM LOW-GRADE TITANIUM-BEARING ORES 00: -

The present invention relates, first, to a two-stage leaching process using concentrated hydrochloric acid wherein ground ore is leached with two separate quantities of hydrochloric acid at different temperatures. Second, the invention relates to a one-step leaching process using concentrated HCI and a fixed acid to ore ratio to prevent hydrolysis of titanium. Afterwards the dissolved titanium is precipitated from the filter liquor by hydrolysis and the still soluble iron chlorides are then optionally subjected to oxyhydrolysis to recover iron oxide and HCI. The process was developed for low-grade ores (under 12% Ti02), and can naturally be applied advantageously to higher grade titanium-bearing ores, that upgrades a variety of inferior quality titanium-iron ores into premium titanium concentrate and iron oxide products.



21: 2016/07175. 22: 2016/10/18. 43: 2022/06/22 51: A61K; C12N

71: 2seventy bio, Inc.

72: MORGAN, Richard, FRIEDMAN, Kevin, MAIER, Dawn

33: US 31: 61/984,558 32: 2014-04-25 54: IMPROVED METHODS FOR MANUFACTURING ADOPTIVE CELL THERAPIES 00: -

The invention provides compositions and methods for manufacturing adoptive cell therapies. In particular embodiments, the invention provides methods of harvesting populations of cells, isolating and activating PBMCs, expanding T cells, and administering the T cell therapeutic to a subject in need thereof.



- 21: 2016/08325. 22: 2016/12/02. 43: 2022/07/25 51: F16K; E21D 71: BARRY GRAME HOLFELD
- 72: BARRY GRAME HOLFELD 33: ZA 31: 2015/06459 32: 2015-09-03
- 54: CONNECTOR

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00: -
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An adapter, secured to a valve body on an inflatable device which is slidingly engageable with a coupler, connected to a pressurised fluid, and which has a retaining member which breaks, causing the coupler to disengage from the valve, at a predetermined fluid pressure value in the device.



21: 2016/08327. 22: 2016/12/05. 43: 2022/06/20 51: A61K 71: HAUS BIOCEUTICALS, INC., CHANCEY, John 72: CHANCEY, John, PAYNE, Adam, J., CENTOLA, Michael

33: US 31: 61/992,123 32: 2014-05-12 54: CURCUMIN-PEPTIDE CONJUGATES AND FORMULATIONS THEREOF 00: -

Disclosed here are compositions comprising a curcuminoid-peptide complex. Also disclosed are methods of preparing a curcuminoid-peptide complex, comprising obtaining a curcuminoid; obtaining a peptide; and mixing the curcuminoid and the peptide in a solvent. Also disclosed are methods of treating a subject, the method comprising identifying a subject in need of treatment of a curcumin-related disorder, and administering to the subject a therapeutic composition comprising a curcuminoid-peptide complex as described. Also disclosed are therapeutic compositions comprising a curcuminoid-peptide complex as described and a pharmaceutically acceptable excipient, diluent, or carrier.



21: 2016/08501. 22: 2016/12/09. 43: 2022/06/08 51: A23C; A23G; A23J; A23L

71: Société des Produits Nestlé S.A.

72: UMMADI, Madhavi, VAGHELA, Madansinh, BUTTERWORTH, Aaron Beth, PANDYA, Nirav Chandrakant, McCUNE, Bridgett Lynn, SCHMITT, Christophe Joseph Etienne

33: US 31: 61/152,629 32: 2009-02-13 54: FROZEN AERATED PRODUCTS 00: -

The present invention relates to frozen aerated products including products manufactured by lowtemperature extrusion with superior creaminess. In particular, the invention is concerned with a partially coagulated protein system induced by controlled coagulation of milk protein which imparts outstanding sensory attributes on frozen confectionery including low-temperature extruded frozen products, in particular when containing low fat. A method of producing such frozen aerated confectionery product and the products obtainable from the method are also part of the present invention.



AA Electrophorèse sur gel de la fraction protéique soluble BB Gel non réduit CC Gel réduit DD Caséine

٨٨

21: 2017/00867. 22: 2017/02/03. 43: 2022/06/20 51: C12N A01H C12P

71: MEDICAGO INC., UNIVERSITE LAVAL 72: MICHAUD, Dominique, PEPIN, Steeve, ETHIER, Gilbert, GOULET, Marie-Claire, GAUDREAU, Linda, GAGNE, Marielle, MARTEL, Michele, BECHTOLD, Nicole, D'AOUST, Marc-André, GOSSELIN, Andre 33: US 31: 62/023,718 32: 2014-07-11 54: MODIFYING PROTEIN PRODUCTION IN PLANTS

00: -

A method for synthesizing a protein of interest within a plant or a portion of a plant is provided. The method involves treating the plant to increase secondary leaf biomass production, followed by introducing one or more than one nucleic acid sequence encoding a protein of interest operatively linked with a regulatory region that is active in the plant, into the plant. The plant is then maintained under conditions that permit the nucleic acid sequence encoding the protein of interest to be expressed in the plant or the portion of the plant. Optionally, the plant or portion of the plant may be harvested and the protein of interest extracted.



21: 2017/00882. 22: 2017/02/03. 43: 2022/06/17 51: C08K; C08L; C09C 71: Orion Engineered Carbons GmbH 72: VOGLER, Conny, TIMMERMANS, Eddy, SCHINKEL, Arndt-Peter 33: EP(DE) 31: 14182786.5 32: 2014-08-29

54: PROCESS FOR CONTROLLING THE POROSITY OF CARBON BLACKS

00: -

The present invention relates to a furnace black having a STSA surface area of at 130 m²/g to 350 m²/g wherein - the ratio of BET surface area to STSA surface area is less than 1.1 if the STSA surface area is in the range of 130 m²/g to 150 m²/g, - the ratio of BET surface area to STSA surface area is less than 1.2 if the STSA surface area is greater than 150 m²/g to 180 m²/g, -the ratio of BET surface area to STSA surface area is less than 1.3 if the STSA surface area is greater than 180 m²/g; and the STSA surface area and the BET surface area are measured according to ASTM D 6556 and to a furnace process wherein the stoichiometric ratio of combustible material to O2 when forming a combustion gas stream is adjusted to obtain a k factor of less than 1.2 and the inert gas concentration in the reactor is increased while limiting the CO2 amount fed to the reactor. Also provided is an apparatus for conducting the process according to the present invention.

21: 2017/01599. 22: 2017/03/06. 43: 2022/06/20 51: E04C 71: ANGELUCCI, Attilio 72: ANGELUCCI, Attilio 33: ZA 31: 2015/08881 32: 2015-12-04 **54: A BUILDING ELEMENT** 00: -

According to the invention, there is provided a building element for use in the construction of a concrete deck, the building element including a panel formed from any suitable cementitious material, the panel having a plurality of elongate reinforcing rods arranged therein and a plurality of connector members which are configured to extend between and interconnect the elongate reinforcing rods and elongate support rods in a predetermined spaced relationship relative the concrete panel so as to define a receiving zone between the concrete panel and opposing support rods for receiving a lightweight filler element therebetween and for supporting a reinforcing lattice arrangement thereon.



21: 2017/02640. 22: 2017/04/12. 43: 2022/06/27 51: C07K

71: PLANT HEALTH CARE, INC.

72: WEI, ZHONGMIN, ZORNETZER, GREGORY A 33: US 31: 62/058,535 32: 2014-10-01 33: US 31: 62/186,527 32: 2015-06-30 54: ELICITOR PEPTIDES HAVING DISRUPTED HYPERSENSITIVE RESPONSE BOX AND USE THEREOF

00: -

Disclosed are peptides that induce an active plant response, but not a hypersensitive response, when applied to plant tissue. These peptides also preferably exhibit improved solubility, stability, resistance to chemical degradation, or a combination of these properties. Use of these peptides or fusion polypeptides, or DNA constructs encoding the same,

for modulating plant biochemical signaling, imparting disease resistance to plants, enhancing plant growth, imparting tolerance to biotic stress, imparting tolerance and resistance to abiotic stress, imparting desiccation resistance to cuttings removed from ornamental plants, imparting post-harvest disease or post-harvest desiccation resistance to a fruit or vegetable, or enhancing the longevity of fruit or vegetable ripeness are also disclosed.

21: 2017/02641. 22: 2017/04/12. 43: 2022/06/27 51: C12N; A61K; C12P 71: PLANT HEALTH CARE, INC. 72: BORNICK, STEPHEN, WEI, ZHONGMIN, ZORNETZER, GREGORY A 33: US 31: 62/058,535 32: 2014-10-01 33: US 31: 62/140,789 32: 2015-03-31 54: HYPERSENSITIVE RESPONSE ELICITOR PEPTIDES AND USE THEREOF 00: -

Disclosed are hypersensitive-response eliciting peptides that exhibit improved solubility, stability, resistance to chemical degradation, or a combination of these properties. Use of these peptides or fusion polypeptides, or DNA constructs encoding the same, for modulating plant biochemical signaling, imparting disease resistance to plants, enhancing plant growth, imparting tolerance to biotic stress, imparting tolerance and resistance to abiotic stress, imparting desiccation resistance to cuttings removed from ornamental plants, imparting post- harvest disease or post-harvest desiccation resistance to a fruit or vegetable, or enhancing the longevity of fruit or vegetable ripeness are also disclosed.

21: 2017/03791. 22: 2017/06/02. 43: 2022/06/08 51: A61K; A61P; C07D 71: Global Blood Therapeutics, Inc. 72: XU, Qing, LI, Zhe, GWALTNEY II, Stephen L. 33: US 31: 13/815,735 32: 2013-03-15 54: COMPOUNDS AND USES THEREOF FOR THE MODULATION OF HEMOGLOBIN 00: -

Provide herein are compounds and pharmaceutical compositions suitable as modulators of hemoglobin, methods and intermediates for their preparation, and methods for their use in treating disorders mediated by hemoglobin and disorders that would benefit from tissue and/or cellular oxygenation.

21: 2017/04814. 22: 2017/07/17. 43: 2022/07/06

72: ANDERSON, Mark William, ANDERSON, Michael Robb, DE JONGH, Andrew Colyn 33: ZA 31: 2016/05414 32: 2016-08-04 54: DRILLING ACCESSORY 00: -

THIS invention relates to a drilling accessory for a power drill drilling accessory that assists the operator of the power drill to correctly align and orientate the drill bit of the power drill with the target object, and collects the dust and/or debris arising from such drilling. The drilling accessory includes a cap having a plurality of differently sized guide holes and a container to which the cap is pivotally connected. The container comprises a first through hole, which on rotation of the cap relative to the container, enables the first through hole to be aligned with the require guide hole thereby to allow a drill bit to pass therethrough. The container further comprises a base having a planar support surface portion and a seal portion protruding outwardly from the support surface portion towards a contact lip, which contact lip defines a second through hole coaxially aligned with the first through hole. The protruding seal portion defines a bore therein tapering radially inwardly from the planar surface portion of the base towards the contact lip, which in use biases the contact lip into sealing engagement with the target object to efficiently collect dust and debris, with substantially the entire planar support surface portion contacting the target object thereby to provide a stability for drilling straight holes.



^{51:} B23Q

^{71:} Drilby CC

21: 2017/05698. 22: 2017/08/22. 43: 2022/08/16 51: A23J

71: PAPSTIX (PTY) LTD 72: MATTOCK, Lawrence Gilbert; ERWEE, Russel 33: ZA 31: 2016/05805 32: 2016-08-22 33: ZA 31: 2017/03256 32: 2017-05-11 54: APPARATUS FOR MANUFACTURING AN EXTRUDED FOOD PRODUCT 00: -

The invention provides an apparatus for the manufacture of a sausage-shaped food product comprising an inner layer of a filling foodstuff and an outer layer of a starchy foodstuff surrounding the inner layer, which apparatus includes an input component, an output component in communication with the input component and a moving means which moves content of the input component to the output component, the input component includes a feed source and a second feed source into which the starchy foodstuff and the filling foodstuff respectively are fed for movement to the output means and the output means includes a first conduit and a second conduit through which the starchy foodstuff and the filing food stuff respectively are moved from the first feed source and the second feed source respectively, wherein the first and second conduits come together at a point at which the second conduit

enters the first conduit to extend concentrically with

the second conduit to provide an extrusion nozzle.



21: 2017/05901. 22: 2017/08/30. 43: 2022/06/20

51: B60F F16H

71: RAILPRO LEASING (PTY) LTD 72: FOURIE, Johannes, Jacobus 33: ZA 31: 2015/08302 32: 2015-11-11 54: A CONVERSION ARRANGEMENT 00: -

According to the invention there is provided a conversion arrangement for converting a road-going vehicle into a vehicle which is also able to travel on a railway which includes: front and rear rail wheelsets in the form of axles having a pair of rail wheels mounted thereon, front and rear support frames which are mounted rotatably on their respective axles, front and rear mounting means for allowing part of the front and rear support frames to be mounted on a road- wheel-assembly of a road-going vehicle and front and rear displacement means for inter-connecting the front and rear support frames and cross-members of a chassis of the road-going vehicle and for displacing the front and rear support frames and with them, the front and rear rail wheelsets, between an extended rail-going condition and a retracted road-going condition.



21: 2017/06160. 22: 2017/09/11. 43: 2022/06/08 51: B22F; C22C; E21B 71: Sandvik Intellectual Property AB 72: NORDGREN, Anders, ERMARKER, Anna, NORGREN, Susanne 33: EP(SE) 31: 15160962.5 32: 2015-03-26 54: A ROCK DRILL BUTTON

00: -

A rock drill button, comprising a body made of sintered cemented carbide that comprises hard constituents of tungsten carbide (WC) in a binder phase comprising Co, wherein the cemented carbide comprises 4-12 mass% Co and balance WC and unavoidable impurities. The rock drill button is characterized in that said cemented carbide also comprises Cr in such an amount that the Cr/Co ratio is within the range of 0.043-0.19, and that the WC grain size mean value is above 1.75 $\mu m.$

21: 2017/06223. 22: 2017/09/13. 43: 2022/06/08 51: C04B; C22C; E21B

71: Diamond Innovations, Inc., Baker Hughes, a GE Company, LLC

72: JOHNSON, Alexanne, GLEDHILL, Andrew, SCOTT, Danny, BIRD, Marc

33: US 31: 62/139,817 32: 2015-03-30 54: POLYCRYSTALLINE DIAMOND BODIES INCORPORATING FRACTIONATED DISTRIBUTION OF DIAMOND PARTICLES OF DIFFERENT MORPHOLOGIES

00: -

Diamond bodies and methods of manufacture are disclosed. Diamond bodies are formed from at least a bimodal, alternatively a tri-modal or higher modal, feedstock having at least one fraction of modified diamond particles with a fine particle size (0.5-3.0 µm) and at least one fraction of diamond particles with coarse particle size (15.0 to 30 µm). During high pressure - high temperature processing, fine particle sized, modified diamond particles in the first fraction preferentially fracture to smaller sizes while preserving the morphology of coarse particle sized diamond particles in the second fraction. Diamond bodies incorporating the two fractions have a microstructure including second fraction diamond particles dispersed in a continuous matrix of first fraction modified diamond particles and exhibit improved wear characteristics, particularly for wear associated with drilling of geological formations.



21: 2017/06345. 22: 2017/09/20. 43: 2022/06/20 51: B01D F01N 71: BASF CORPORATION 72: VOSS, Kenneth, E., MOHANAN, Jaya, L., HALLSTROM, Kevin, A, SHAH, Sandip, D., HOCHMUTH, John, K. 33: US 31: 62/121,541 32: 2015-02-27

54: EXHAUST GAS TREATMENT SYSTEM 00: -

Described are exhaust gas treatment systems for treatment of an engine exhaust gas stream containing NOx. The exhaust gas treatment system comprises an engine, a catalyst system including a selective catalytic reduction article comprising two zones, an upstream zone comprising iron-promoted first molecular sieves and a downstream zone comprising copper-promoted second molecular sieves. The catalyst system is effective to reduce high NOx levels in the exhaust gas stream. Also described are methods for treatment of engine exhaust gas streams, comprising treating engine exhaust gas streams containing high NOx levels with catalyst systems including selective catalytic reduction articles having two zones.



21: 2017/06604. 22: 2017/10/02. 43: 2022/06/20 51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: EDLER, Bernd, HELMRICH, Christian, NEUENDORF, Max, SCHUBERT, Benjamin 33: EP 31: 15158253.3 32: 2015-03-09 33: EP 31: PCT/EP2015/063658 32: 2015-06-17 54: AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL

00: -An encoder for encoding an audio signal. The encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive

encoding to a plurality of individual spectral coefficients or groups of spectral coefficients which are separated by at least one spectral coefficient.



21: 2017/06711. 22: 2017/10/05. 43: 2022/06/08 51: A61B

71: Ecole Polytechnique Federale de Lausanne (EPFL)

72: GUILLEMIN, Maïka, SCHÖNENBERGER, Klaus, GABELLA, Thomas

33: PCT/IB(CH) 31: 2015/051653 32: 2015-03-06 54: MEDICAL DETECTOR AND ANTIDIFFUSION GRID FOR MEDICAL IMAGING DEVICE 00: -

The invention relates to a medical detector. The medical detector is characterised in that it comprises an antidiffusion grid secured to the detector and in that it comprises an antidiffusion grid mounted on the detector such that it can move between an active position allowing the reduction of radiation received by the detector and a storage position allowing the grid to be stored when it is not in use.



21: 2017/07904. 22: 2017/11/21. 43: 2022/06/08 51: A01N; A61K; C07K; C12N 71: Syngenta Participations AG 72: BRAMLETT, Matthew Richard, SEGUIN, Katherine, ROSE, Mark Scott 33: US 31: 62/187,468 32: 2015-07-01 54: COMPOSITIONS AND METHODS FOR CONTROLLING PLANT PESTS 00: -

Novel insecticidal proteins that are toxic to lepidopteran pests are disclosed. The DNA encoding the insecticidal proteins can be used to transform prokaryotic and eukaryotic organisms to express the insecticidal proteins. The recombinant organisms or compositions containing the recombinant organisms or the insecticidal proteins alone or in combination with an appropriate agricultural carrier can be used to control lepidopteran pests in various environments.

21: 2017/07974. 22: 2017/11/23. 43: 2022/06/08 51: A61K; A61P

71: Universiteit Maastricht, Academisch Ziekenhuis Maastricht

72: VAN HEURN, Lodewijk Willem Ernest, NICOLAES, Gerardus Anna Franciscus, REUTELINGSPERGER, Christiaan Peter Maria, VAN SMAALEN, Tim Christian 33: EP(NL) 31: 15171710.5 32: 2015-06-11 54: METHOD FOR PREVENTING TRANSPLAN

54: METHOD FOR PREVENTING TRANSPLANT FAILURE IN A HOST.

This invention is in the field of medical treatment, in particular the invention provides a method for the prevention, amelioration or reduction of transplant failure in a host organism. More in particular, the invention provides a pentasaccharide- depleted heparin for use in preventing, ameliorating or

reducing transplant failure of a foreign organ or tissue of the human or animal body into a recipient.

21: 2017/08004. 22: 2017/11/24. 43: 2022/06/08

51: C07C; C10M; C10N

71: Castrol Limited

72: LAMB, Gordon, GOKHALE, Amit, DAVIES, John Philip, REDSHAW, John, SEDEN, Peter, WEST, Kevin

33: US 31: 62/181,536 32: 2015-06-18 54: ETHER COMPOUNDS AND RELATED COMPOSITIONS

00: -

In some embodiments, a compound has the formula (I) where: R1 and R2 are alkyl or, together with the carbon atom to which they are attached, cycloalkyl; R₃, R₄ and R₅ are H or alkyl (formula II); Re is alkyl or where: R7 and R8 are H, alkyl or, together with the carbon atom to which they are attached, cycloalkyl; R₉ is H or alkyl; X is alkylene or is absent; and p is 0, 1, 2 or 3; and m and n are 0, 1, 2 or 3 provided that m is 0 when R₄ and R₅ are H. The compound is suitable for use as a base stock which provides low volatility for a given viscosity profile. The compound may be used in a lubricant composition for an internal combustion engine.





21: 2017/08160. 22: 2017/11/30. 43: 2022/06/08

51: C01B; C01G 71: Tygrus, LLC 72: CARLSON, Lawrence, ADLOFF, Lawrence, HOEL, Timothy, WURZBURGER (Deceased), Steven 33: US 31: 62/163,941 32: 2015-05-19 54: STABLE BASIC ELECTROLYTE MATERIAL AND SOLVENT MATERIAL CONTAINING SAME 00: -A composition of matter having the following

chemical structure: Hx

integer greater than 3; y

is and integer less than

charge value associated

Y_{x-y}- where x is an

x: and wherein the

with the molecular



21: 2017/08344. 22: 2017/12/08. 43: 2022/07/21 51: C08J; C08K; C08L; E04B 71: ATARFIL, S.L. 72: MARTÍN SEVILLA, Gabriel, CARRERAS TORRES, Emilio, HIDALGO BETANZOS, Joaquin, GARMENDIA BARRENA, Maria Izascun 33: EP 31: 15382320.8 (EP) 32: 2015-06-16 54: SELF-SUPPORTING, SYNTHETIC POLYMER WATERPROOF MEMBRANE WITH SELF-HEALING ABILITY

00: -

The self-supporting synthetic polymer waterproofing membrane with selfrepairing properties relates to a self-repairing synthetic waterproof membrane, applicable in the construction sector. This membrane can be monolayer or multilayer. The composition of these membranes comprises thermoplastic polymers, smectite-type clays and super waterabsorbent polymers.



21: 2017/08418. 22: 2017/12/12. 43: 2022/06/08 51: C07K; C12M

71: Bayer Aktiengesellschaft

72: SCHWAN, Peter, LOBEDANN, Martin, BERNSHAUSEN, Jens 33: EP(DE) 31: 15167538.6 32: 2015-05-13 54: PROCESS CONTROL SYSTEM FOR

REGULATING AND CONTROLLING A MODULAR PLANT FOR MANUFACTURING BIOPHARMACEUTICAL AND BIOLOGICAL MACROMOLECULAR PRODUCTS

00: -The inv

The invention relates to a modular production plant for continuously manufacturing and/or processing biopharmaceutical products and to a computerimplemented method for controlling processes in the modular plant for manufacturing biopharmaceutical and biological macromolecular products, in particular proteins, e.g. monoclonal antibodies, vaccines, nucleic acids such as DNA, RNA and plasmids as well as the derivatives thereof in a controlled manner.

21: 2017/08603. 22: 2017/12/18. 43: 2021/06/04 51: E21D 71: HOLFELD, Barry Graeme 72: HOLFELD, Barry Graeme 33: ZA 31: 2015/04586 32: 2015-06-25 33: ZA 31: 2015/05772 32: 2015-08-12 54: AN INFLATABLE ROCK BOLT

00: -

The invention relates to a rock bolt (1A) comprising a pipe (12) with a cap (20) welded in sealing engagement over an open end of the pipe (12). The cap (20) has a substantially cylindrical skirt (22) welded to the end of the pipe (12) in a pre-formed tabular condition. The cap (20) also includes a substantially domed cover section with an end portion that is elongate along a line (y) that is transverse to a folding line (x) about which a channel (115) is formed along a length of the pipe (12) and through the cap (20). The invention extends to associated methods of forming a rock bolt (1A).



21: 2017/08615. 22: 2017/12/18. 43: 2021/06/23 51: E21D 71: HOLFELD, Barry Graeme 72: HOLFELD, Barry Graeme 33: ZA 31: 2015/05772 32: 2015-08-12 33: ZA 31: 2016/00773 32: 2016-02-04 **54: AN INFLATABLE ROCK BOLT** 00: -The invention relates to an inflatable rock bolt and a method for its manufacture. A closure (22) is welded

in sealing engagement over an open end of a preformed pipe (10). This provides an outer end of the rock bolt which is then formed with a longitudinal channel (56). An outwardly extending region of the channel occurs adjacent the outer end (103) of the rock bolt (101) where a head is formed. The closure preferably provides an end wall that is substantially planar and includes an inlet opening with a connector for a pressurized fluid applicator. The closure (22) may be provided as a cup, a disc and/or a plate which alternative constructions enable various features of the invention. The rock bolt preferably has cap welded onto an opposite open end of the pre-formed pipe and the longitudinal channel (56) is provided to extend through the cap (301).



21: 2018/00559. 22: 2018/01/26. 43: 2022/06/20 51: H04L

71: UNIVERSITY OF SOUTH AFRICA 72: SNYMAN, Lukas, Willem, KENE, R. 33: ZA 31: 2015/04789 32: 2015-07-03 54: ELECTRONIC CONTROLLER FOR HOUSEHOLD ENERGY CONTROL BASED ON TIMING AND TARIFF DATA 00: -

The use of smart microprocessor and sensor based controller system that enables selective management of energy supply into a household of the invention is illustrated and consists of four subcomponents i.e., a Grid Power Supply System A, A Power Demand System (B), a Specially Designed Power Distribution Box (C), a Smart Energy Controller (D), a Solar Energy Secondary Power Supply and Timing System Unit E, and a RF Remote Control Unit (G). Energy is supplied through the city network grid (A) to a specially designed power distribution box which redistributes power to separate lines through a series of power relay switches (C1), each serving a different load category e.g., heavy, medium, low, essential lighting, special load systems, requiring special phase requirements (C2 to C6). More than one load can be connected in parallel to a specific line C3 to C6. A second switch bank C2 is optional which is individually supplied by separate lines supplied, either directly from green energy supplies such as solar or thermal systems, or indirectly after storage in a battery or thermal energy storage system.



21: 2018/00563. 22: 2018/01/26. 43: 2022/06/08 51: A61K; A61P; C07D 71: AstraZeneca AB 72: PIKE, Kurt Gordon, BARLAAM, Bernard Christophe, HAWKINS , Janet, DE SAVI, Christopher, VASBINDER, Melissa Marie, HIRD, Alexander, LAMB, Michelle 33: US 31: 62/185,852 32: 2015-06-29 54: POLYCYCLIC AMIDE DERIVATIVES AS CDK9 INHIBITORS 00: - Provided are a series of novel pyridine or pyrimidine derivatives of Formula (I) which inhibit CDK9 and may be useful for the treatment of hyperproliferative diseases. In particular the compounds are of use in the treatment of proliferative diseases such as cancer including hematological malignancies such as acute myeloid leukemia, multiple myeloma, chronic lymphocytic leukemia, diffuse large B cell lymphoma. Burkitt's lymphoma, follicular lymphoma and solid tumors such as breast cancer, lung cancer, neuroblastoma and colon cancer. A is C(R5) or N; R5 is H, C1salkyl, CN or halogen; R² is optionally substituted 3-7 membered heterocycloalkyl or 3-7 membered cycloalkyl; R4 is (A) or (B) wherein X and Y together with the atoms to which they are attached form an optionally substituted, saturated or partially saturated 5 to 7 membered heterocycloalkyl ring which, in addition to the bridge nitrogen, may contain one or two heteroatoms selected from N, O, and S; J is N or CR11; and R11 is H or C1salkyl.



21: 2018/00580. 22: 2018/01/29. 43: 2022/06/20 51: B01J B01D F01N 71: BASF CORPORATION 72: LI, Yuejin, ZHENG, Xiaolai, ROTH, Stanley, GERLACH, Olga, SUNDERMANN, Andreas 33: US 31: 62/187,590 32: 2015-07-01 54: NITROUS OXIDE REMOVAL CATALYSTS FOR EXHAUST SYSTEMS 00: -

A nitrous oxide (N2O) removal catalyst composite is described, which includes: a N2O removal catalytic material on a carrier, wherein the catalytic material comprises a platinum group metal (PGM) component on a ceria-containing support having a single phase, cubic fluorite crystal structure. The catalytic material is effective to decompose nitrous oxide (N2O) to nitrogen (N2) and oxygen (O2) and/or to reduce N2O to N2 and water (H2O) and/or (CO2) under conditions of an exhaust stream of an internal combustion engine operating under conditions that are stoichiometric or lean with periodic rich transient excursions. Methods of making and using the same are also provided.

N2O conversion under lean/rich conditions for Samples 1 to 3



21: 2018/00638. 22: 2018/01/30. 43: 2022/06/20

- 51: C07D; A61K; A61P
- 71: HORIZON ORPHAN LLC

72: ZANKEL, TODD C, ISBELL, SARA LOUISE, KO, AMANDA ANNE

33: US 31: 62/199,194 32: 2015-07-30

54: FUCOSIDASE INHIBITORS

00: -

The present disclosure relates, in general, to compounds useful as inhibitors of fucosidase enzymes, and to methods and compositions for the treatment of tumors or cancers, such as liver disorders and liver tumors (e.g., hepatocellular carcinoma), with a compound as disclosed herein.

21: 2018/00650. 22: 2018/01/31. 43: 2022/06/20 51: C12N A21D A23F A23L C12Q 71: RENAISSANCE BIOSCIENCE CORP. 72: TURGEON, Zachari, J., SWANSON, Jessica, Marie, DAHABIEH, Matthew, S., HUSNIK, John, I. 33: US 31: 62/189,547 32: 2015-07-07 54: DEVELOPMENT OF AN ASPARAGINE-REDUCING YEAST BY ADAPTIVE EVOLUTION AND USES THEREOF TO REDUCE ACRYLAMIDE FORMATION

00: -

The present disclosure relates to a method of isolating a yeast strain that is able to degrade L-asparagine under non-inducing conditions comprising repeated cycles of adaptive evolution and mutagenesis followed by strain selection. Also included are yeast strains obtained by the method, and methods and uses thereof for reducing asparagine, and thus acrylamide, during food preparation and processing.



21: 2018/00878. 22: 2018/02/09. 43: 2022/06/20 51: C07D; A01N 71: BODOR LABORATORIES, INC. 72: BODOR, NICHOLAS S, KOLENG, JOHN J, ANGULO, DAVID 33: US 31: 14/805,114 32: 2015-07-21 54: FORMULATION FOR SOFT ANTICHOLINERGIC ANALOGS 00: -

Topical formulations comprising soft glycopyrrolates are useful for treating excessive sweating conditions in subjects, such as humans suffering from hyperhidrosis. Preferably, at least one soft anticholinergic agent is provided in an effective amount or concentration in an anhydrous formulation that can inhibit excessive perspiration resulting from a condition such as hyperhidrosis.

21: 2018/00896. 22: 2018/02/12. 43: 2022/06/08 51: F16F

71: General Kinematics Corporation

- 72: QUINN, Kerry William, STEFFES, Jr., Ed
- 33: US 31: 62/463,574 32: 2017-02-24

54: SPRING ASSEMBLY WITH A PROTECTED ATTACHMENT SITE

00: -

A spring assembly includes a coil spring having one or more helical coils between two longitudinally spaced ends, and an attachment site disposed at at least one of the longitudinally spaced ends. The attachment site includes a casing enclosing the at least one of the longitudinally spaced ends, the casing having a casing passage therethrough between a first side and a second side. The attachment site also includes a washer disposed on the first side and having a washer passage aligned with the casing passage, and a base disposed on the second side and having a base passage aligned with the casing passage.



21: 2018/01033. 22: 2018/02/15. 43: 2022/06/20 51: F24J; G02B; H02S

71: Saint-Augustin Canada Electric Inc.

72: VAN RIESEN, Sascha, NEUBAUER, Martin, GOMBERT, Andreas

33: DE 31: 102015213395.8 32: 2015-07-16 54: OPTICAL CONCENTRATION SYSTEM FOR A SOLAR ENERGY ASSEMBLY AND SAME 00: -

The invention relates to an optical concentration system (1) for a solar energy assembly, in particular for a concentrator solar energy assembly (9), for concentrating incoming light onto a 5 target area (17) such as a solar cell (7) in the solar energy assembly, the system comprising a first optical element (3) for collecting the incoming light and forming a light cone (13) towards the target area (17) and a second optical element (5) adjacent to the target area (17). In order to provide an optical concentration system (1) for a solar energy assembly and same, which allows a high efficiency for light transmission and concentration and which is easy to manufacture, it is 0 intended according to the invention, that the first optical element (3) is a multi-focal element and that the second optical element (5) is adapted to reflect the light to at least one region (34) of the target area (17) which is outside the center (23) of the target area (17).



21: 2018/01119. 22: 2018/02/19. 43: 2022/06/22 51: A61K; C07K 71: Janssen Vaccines & Prevention B.V.

71: Janssen Vaccines & Prevention B.V. 72: BUNNIK, Evelien Margaretha, CUSTERS, Jerôme H.H.V., SCHEPER, Gerrit Ch., OOSTERHUIS, Koen, UIL, Taco Gilles, KHAN, Selina

33: EP(NL) 31: 15181791.3 32: 2015-08-20 54: THERAPEUTIC HPV18 VACCINES 00: -

The invention provides designer nucleic acid constructs and polypeptides that used as therapeutic vaccines against HPV18 and/or HPV16.

- 21: 2018/01123. 22: 2018/02/19. 43: 2022/06/22 51: A24D; B65B; B65D
- 71: British American Tobacco Mexico, S.A. DE C.V.
- 72: ARREDONDO, Lucio

54: A METHOD OF FORMING GROUPS OF SMOKING ARTICLES

00: -

A method of forming groups of smoking articles so that each group forms an individual bundle of smoking articles for receipt in a respective smoking article pack is disclosed. The method includes supplying a receptacle of an apparatus for forming groups of smoking articles with different types of smoking articles such that they mix in the receptacle and each group is formed from the mixture of different types of smoking articles by said apparatus. An apparatus for forming groups of smoking articles and a multipack comprising a plurality of smoking article packs is also disclosed.



21: 2018/01260. 22: 2018/02/23. 43: 2022/06/20 51: F04D

71: Weir Minerals Australia Ltd, Weir Minerals **Europe Limited**

72: LODERER, Pavol, WALKER, Craig lan 33: AU 31: 2015903450 32: 2015-08-26 54: ROTARY PARTS FOR A SLURRY PUMP 00: -

A rotary part being an impeller or expeller for a pump which can be rotated in a forward direction about a rotation axis X-X. The rotary part comprises a shroud having an outer peripheral edge portion and opposed first, and second faces, a plurality of expelling vanes projecting from one or more of the second faces of the shroud, each expelling vane having an inner side and an outer side which is at or near the outer peripheral edge portion of the shroud, the expelling vanes extending in a direction between the rotation axis X-X towards the outer peripheral edge portion of the shroud, each expelling vane further including a leading side facing in the forward direction and having an inner edge and an outer edge, a trailing side facing in a rearward direction and an upper side spaced from the outer face of the shroud. The leading side includes a forwardly inclined section which is inclined forwardly from a radial line Y-Y extending from the rotation axis X-X and which passes through the inner edge of the leading side.



21: 2018/01265. 22: 2018/02/23. 43: 2022/06/20 51: C12N 71: INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), UNIVERSITÉ DE NANTES, CENTRE HOSPITALIER UNIVERSITAIRE DE NANTES 72: GUILLONNEAU, CAROLE, ANEGON, IGNACIO, BEZIE, SÉVERINE 33: EP 31: 15306366.4 32: 2015-09-07 54: A NEW SUBPOPULATION OF CD8+CD45RCLOW TREGS AND USES THEREOF 00: -The invention relates to a new subpopulation of

CD8+CD45RClowTregs, namely IFNy+IL-10+IL-34⁺secreting population of CD8⁺CD45RC^{low}Treg cells, methods for their isolation and expansion and their use as drug, more particularly for immunotherapy as well as biomarker.

21: 2018/01396. 22: 2018/02/28. 43: 2022/06/08 51: B29C

71: KraussMaffei Technologies GmbH 72: SCHIFFERS, Reinhard, MOSER, Stefan, KRUPPA, Stefan, BUSL, Matthias 33: DE 31: 10 2015 117 237.2 32: 2015-10-09 54: METHOD FOR DETERMINING AN ACTUAL **VOLUME OF AN INJECTION-MOULDABLE COMPOUND IN AN INJECTION-MOULDING** PROCESS

00: -

The invention relates to a method for determining an actual volume Vr of an injection-mouldable compound during an injection-moulding process, wherein the injection-mouldable compound is introduced into at least one cavity of the mould, comprising the steps of: a) determining a theoretical volume Vt from process variables at least during a filling phase of the injectionmoulding process, b) determining and/or measuring at least one value for at least one compound pressure pm, characterized by the steps of c) selecting a material-specific compression k (p), corresponding to the value of pm, of the injection-mouldable compound, d) calculating an actual volume Vr by taking into account the compression k (p).



21: 2018/01543. 22: 2018/03/06. 43: 2022/07/11 51: A61M

71: IMPEL PHARMACEUTICALS INC.

72: HOEKMAN, John, D., FULLER, Christopher, KOHRING, Craig

33: US 31: 62/216,789 32: 2015-09-10 54: IN-LINE NASAL DELIVERY DEVICE 00: -

A delivery device for a compound including: a housing, vial holding a compound; and a source of propellant, wherein the housing provides an inlet and an outlet for the vial, wherein the inlet is in fluid communication with the source of propellant and is directed against the in-line nasal delivery device compound and the outlet allows for delivery of the compound.



21: 2018/01716. 22: 2018/03/13. 43: 2022/06/17 51: C07K; G01N

71: QIAGEN Sciences LLC, Biopeptides Corp., Gundersen Lutheran Medical Foundation, Inc. 72: CALLISTER, Steven M., BOYLE, Jeff, MIYAMASU, Misato, DATTWYLER, Raymond J., ARNABOLDI, Paul M.

33: US 31: 62/233,192 32: 2015-09-25 54: COMPOSITIONS AND METHODS FOR DIAGNOSING LYME DISEASE AND FOR PREDICTING LYME DISEASE SPIROCHETE ELIMINATION AFTER TREATMENT

00: -

Compositions and methods are provided for detection, diagnosis and prognosis of Lyme disease (LD), including a method for confirming Borrelia spp. infection by contacting, in vitro, whole blood samples from subjects suspected of having LD with synthetic peptides comprising T-cell epitope-containing regions derived from Borrelia proteins that are expressed at different stages of Lyme disease, and indirectly detecting LD-specific activated T-cells by determining production of a T-cell immune response indicator (e.g., interferon-Y) in response to stimulation by the peptides. Also disclosed are methods for predicting elimination of LD spirochetes in LD patients who have undergone LD treatment, by exposing whole blood samples from such subjects to peptides comprising specific T-cell epitope regions of Borrelia proteins that are expressed at different stages of Lyme disease, and confirming a lack of Borrelia-specific activated T-cells in the samples by the absence of a detectable T-cell immune response indicator (e.g., interferon-Y).



21: 2018/01947. 22: 2018/03/23. 43: 2022/06/08 51: A61K; A61P; C07D

71: Jawaharlal Nehru Centre for Advanced Scientific Research

72: THIMMAIAH, Govindaraju, NARAYANASWAMY, Nagarjun

33: IN 31: 4493/CHE/2015 32: 2015-08-26 54: COMPOUNDS AS DNA PROBES, METHODS AND APPLICATIONS THEREOF

00: -

The present disclosure relates to the field of pharmaceutical chemistry and biotechnology. The present disclosure also relates to a compound of Formula I and a process of preparation thereof. The disclosure furthermore relates to methods/use of Formula I compounds as DNA probes. Said Formula I compounds are employed for recognizing specific DNA sequences by near Infra-red (NIR)-Fluorescence Switch-on mechanism, and have related applications including but not limited to cell imaging. Also, method of treating parasitic infections by employing the present compound of Formula I is provided.



21: 2018/02665. 22: 2018/04/20. 43: 2022/06/08 51: A61M; A61N 71: Johnson & Johnson Consumer Inc. 72: PAUNESCU, Alexandru, SUN, Ying, PATURI, Jyotsna, WU, Jeffrey M.

33: US 31: 62/221,889 32: 2015-09-22 54: METHODS FOR ENHANCING TOPICAL APPLICATION OF A BENEFIT AGENT 00: -

The present invention relates to methods for treating, reducing and preventing follicular related adverse skin/scalp conditions. The methods comprise providing and orienting a device, the device being ultrasonic with transducers positioned at an angle other than 90° relative to the surface at which the ultrasound is to be applied.



21: 2018/02870. 22: 2018/05/02. 43: 2022/06/20 51: C10G

71: UNIVERSITY OF PRETORIA

72: HEYDENRYCH, Michael, DEL FABBRO, Olinto, FOCKE, Walter, LABUSCHAGNE, Frederick, MERCKEL, Ryan 33: ZA 31: 2015/07340 32: 2015-10-05

54: OXYGENATE REDUCTION CATALYST AND PROCESS 00: -

The invention provides a catalyst system and method for the deoxygenation of hydrocarbons, such as bio-oil, using a sulphide-sulfate or an oxidecarbonate (LDH) system. The invention extends to a pyrolysis process of a carbonaceous bio-mass wherein a first combustion zone is carried out in one or more combustion fluidised beds in which a particulate material including chemically looping deoxygenation catalyst particles is fluidised and heated, and a second pyrolysis zone carried out in one or more pyrolysis fluidised beds in which the hot particles, including the catalyst particles, heated in the combustion zone are used for pyrolysis of the bio-mass, said combustion zone being operated at a temperature of from 250 °C to 1100°C, typically

around 900 °C, and the pyrolysis zone being operated at a temperature of from 250 °C to 900 °C, typically 450 °C to 600°C, said catalyst particles being oxygenated in the pyrolysis zone in the presence of oxygenates in the pyrolysis oil and regenerated in the combustion zone either by calcining to drive off the carbon oxides, such as CO2, or by reduction to its form which is active for deoxygenation of the pyrolysis oil.



21: 2018/03059. 22: 2018/05/10. 43: 2022/06/08 51: A23L: A61P

71: United Pharmaceuticals

72: MARGOSSIAN, Jonathan Albert, PRADEAU, Nicolas

33: FR 31: 1354200 32: 2013-05-07 54: ANTI-REGURGITATION COMPOSITION MAINTAINING GUT MOTILITY

00: -

The present invention concerns nutritional compositions intended to prevent or treat regurgitation in infants and young children without altering, or indeed while improving, their gut motility and/or to prevent and/or treat intestinal disorders in infants or children. The invention also concerns the method for producing this composition.

21: 2018/03358. 22: 2018/05/21. 43: 2022/06/08 51: A61L

71: NanoGuard Technologies, LLC 72: KEENER, Kevin M., HOCHWALT, Mark A. 33: US 31: 14/921,910 32: 2015-10-23 54: REACTIVE GAS GENERATION SYSTEM AND METHOD OF TREATMENT USING REACTIVE GAS 00: - A method of treating a product or surface with a reactive gas, comprises producing the reactive gas by forming a high-voltage cold plasma (HVCP) from a working gas; transporting the reactive gas at least 5 cm away from the HVCP; followed by contacting the product or surface with the reactive gas. The HVCP does not contact the product or surface.



21: 2018/03899. 22: 2018/06/12. 43: 2022/06/20 51: G02C B29D B29C 71: UVEX ARBEITSSCHUTZ GMBH 72: KÜHNLEIN, Florian, WIEGLER, Markus 33: DE 31: 10 2015 225 775.4 32: 2015-12-17 54: TEMPLE FOR A PAIR OF GLASSES 00: -

The invention relates to a method for producing an eyeglass temple (3), having the steps of injecting a first material into an injection molding tool (36), thereby forming an eyeglass temple main part (5) with a main part and an inclination bearing body, and injecting a second material into an eyeglass temple adjusting part cavity (40) of the injection molding tool (36), thereby at least partly overmolding the inclination bearing body in order to form an eyeglass temple adjusting part (6) through which the inclination bearing body passes and which can be pivoted relative to the inclination bearing body after the first material is at least partly cured, and removing the eyeglass temple (3) which is in an eyeglass temple injection molding position from the injection molding tool (36) when the first material and the second material are at least partly cured.


21: 2018/04117. 22: 2018/06/20. 43: 2022/06/20 51: C07K A61K A61P C07C C07D C07H C40B 71: TRANSFERT PLUS, S.E.C. 72: BÉLIVEAU, Richard, ANNABI, Borhane, DEMEULE, Michel, LAROCQUE, Alain, CURRIE, Jean-Christophe, CHARFI, Cyndia 33: US 31: 62/259,178 32: 2015-11-24 54: PEPTIDE COMPOUNDS AND PEPTIDE CONJUGATES FOR THE TREATMENT OF CANCER THROUGH RECEPTOR-MEDIATED CHEMOTHERAPY

00: -

The present disclosure relates to peptide compounds and conjugate compounds, processes, methods and uses thereof for treating cancer and increasing cellular internalization of said peptide compounds. The peptide compounds are selected from the following group consisting of;

GVRAKAGVRNMFKSESY as set forth in SEQ ID NO: 9; GVRAKAGVRN(NIe)FKSESY as set forth in SEQ ID NO: 10; and

YKSLRRKAPRWDAPLRDPALRQLL as set forth in SEQ ID NO: 11; and wherein at least one protecting group and/or at least one labelling agent is connected to said peptide compound.



21: 2018/04137. 22: 2018/06/20. 43: 2022/06/22 51: A61K; A61P; C07D 71: Loxo Oncology, Inc. 72: GUISOT, Nicolas 33: GB 31: 1522245.8 32: 2015-12-16 54: COMPOUNDS USEFUL AS KINASE INHIBITORS 00: -This invention relates to novel compounds. The

compounds of the invention are tyrosine kinase inhibitors. Specifically, the compounds of the invention are useful as inhibitors of Bruton's tyrosine kinase (BTK). The invention also contemplates the use of the compounds for treating conditions treatable by the inhibition of Bruton's tyrosine kinase, for example cancer, lymphoma, leukemia and immunological diseases.

21: 2018/05141. 22: 2018/07/31. 43: 2022/06/20 51: C10L

- 71: BP Oil International Limited
- 72: ALI, Rana, FILIP, Sorin Vasile
- 33: EP(GB) 31: 16155212.0 32: 2016-02-11

54: FUEL ADDITIVES

An additive composition for use in a fuel for a sparkignition internal combustion engine comprises an octane-boosting additive and one or more further fuel additives. The octane-boosting additive has a chemical structure comprising a 6-membered aromatic ring sharing two adjacent aromatic carbon atoms with a 6- or 7-membered saturated heterocyclic ring, the 6- or 7-membered saturated heterocyclic ring comprising a nitrogen atom directly bonded to one of the shared carbon atoms to form a

secondary amine and an atom selected from oxygen or nitrogen directly bonded to the other shared carbon atom, the remaining atoms in the 6- or 7membered heterocyclic ring being carbon. The additive composition increases the octane number of the fuel, thereby improving the auto-ignition characteristics of a fuel.



21: 2018/05509. 22: 2018/08/17. 43: 2022/06/20 51: A24D

71: GUANGDONG GOLDEN LEAF TECHNOLOGY DEVELOPMENT CO., LTD

72: FU, Yuanfeng, ZHANG, Ziheng, LIU, Gang, LI, Zhengyong, SHI, Zhaozhen

54: SMOKE FILTERING DEVICE

The present disclosure relates to a smoke filtering device, comprising a body, flow channels configured for allowing smoke to flow therethrough being present in the body, and the flow channels filtering the smoke by prolonging duration of the smoke staying in the flow channels. Through a particular flow channel design of the present disclosure, a flow speed of the smoke is increased, a flow state of the smoke is changed, further, a part of harmful substances such as tar are settled and adsorbed.



21: 2018/06904. 22: 2018/10/16. 43: 2022/06/23 51: A61F 71: RICHARDSON, Irene 72: RICHARDSON, Irene 33: US 31: 62/309,888 32: 2016-03-17 33: US 31: 15/458,005 32: 2017-03-13 54: DETACHABLE DISPOSABLE ABSORBENT ARTICLE 00: -

A disposable absorbent article utilized for absorption and containment of urine and other body exudates may incorporate components that may be detached from the article after use to provide disposal options based upon the user's preferences and circumstances, such as flushing down a toilet or septic tank, composting, recycling, or disposing in a landfill. Sanitary grips and sanitary gap may provide sanitary placements to detach the article. Ripping features incorporated along the top liner, back liner, or outer liner enclosure may also be used to detach the article. A removable liner may be detached from the top liner or outer liner enclosure. The absorbent core may be released after the article has been detached. To reduce the risk of clogging the toilet, a membrane may be utilized to create a barrier between the absorbent core and high-absorbency material to obstruct high-absorbency material from being released and flushed.



21: 2018/06932. 22: 2018/10/17. 43: 2022/06/22 51: B02C

71: Metso Sweden AB

72: URBINATTI, Victor G., PERSSON, Henrik, LARSSON, Fredrik

54: CRUSHER COMPRISING REPLACEABLE PROTECTIVE LINERS

00: -

A crusher comprises at least one protective liner (10, 20, 80) which is releasably fitted within the crusher so as to protect a structural element of the crusher which is subject to wear due to its contact with material passing the crushing gap (G), at least a part of an outwardly directed surface of the protective liner (10, 20, 80) constituting a wear surface. The at least one protective liner (10, 20, 80) comprises an elastic material layer (16) and wear resistant inserts (18) retained by the elastic material layer (16), wherein outwardly directed surfaces of the wear resistant inserts (18) form part of the wear surface of the protective liner (10, 20, 80).



21: 2018/06952. 22: 2018/10/18. 43: 2022/06/23 51: E04B

71: JIANGSU ERNEST TECHNOLOGY CO LTD 72: LU, Desheng 33: CN 31: 201620794350.4 32: 2016-07-26

54: EMBEDDED ANCHOR 00: -

An embedded anchor by which fixtures including suspension rods, studs and other steel work can be secured to a concrete structure includes a male insert (10) to which the fixtures are connected and a female ferrule (12) to receive the insert (10). The female ferrule (12) is adapted to be permanently embedded in the concrete structure. The insert (10) is associated with one or more spring loaded pins (14, 16). The ferrule (12) includes apertures (22) positioned to receive the pins (14, 16). The pins (14, 16) are pushed in against a spring (30) to allow the insert (10) to be slid into the ferrule (12), and the pins (14, 16) spring outwardly to engage the apertures (22) locking the insert (10) in the ferrule (12) to secure the fixture to the concrete structure.

21: 2018/07052. 22: 2018/10/23. 43: 2022/06/23 51: A47C; A63B 71: WEISZ, Evan 72: WEISZ, Evan 33: US 31: 62/313,088 32: 2016-03-24 33: US 31: 15/467,942 32: 2017-03-23 54: EXERCISE CHAIR UTILIZING AN ADJUSTABLE RESISTANCE BAND SYSTEM 00: -

An exercise chair includes a chair frame, and a base fixed with the chair frame that is adapted to support the exercise chair on a floor surface. The base and chair frame have a plurality of anchors projecting away therefrom. A cushion may cover at least a portion of the frame. Multiple resistance bands each have multiple longitudinal slots therethrough, each adapted for selective fixing with any of the anchor knobs or several attachable exercise devices. In use, with the person seated in the chair and the chair resting on the support surface, one or two of the resistance bands can be fixed with any of the anchor knobs, so that the person can exercise by pushing and / or pulling the at least one resistance band. Different types of attachments are included for exercising varying muscle groups.



21: 2018/07082. 22: 2018/10/24. 43: 2022/06/20 51: C12P C08F

71: BASF SE

72: LANGLOTZ, Björn, GARELLA, Linda, BRAUN, Michael, Guenter, DAEUWEL, Juergen 33: EP 31: 16 162 684.1 32: 2016-03-29 54: PROCESS FOR PRODUCING A POLYACRYLAMIDE SOLUTION WITH INCREASED VISCOSITY 00: -

The present invention relates to a method for producing a polyacrylamide solution having increased viscosity. In particular, the present invention is related to the separation of a biocatalyst from an aqueous acrylamide solution prepared utilizing the biocatalyst prior to polymerization of the aqueous acrylamide solution to polyacrylamide. A polyacrylamide solution having increased viscosity is well suited to be used in tertiary oil recovery. Accordingly, the present application provides means and methods to crucially improve the quality of polyacrylamide solutions for use in tertiary oil recovery.

21: 2018/07153. 22: 2018/10/26. 43: 2022/06/24 51: A61K: C07K

- 71: Pfizer Inc.
- 71: Plizer Inc

72: KUO, Tracy Chia-Chien, CHAPARRO RIGGERS, Javier Fernando, CHEN, Wei, CHEN, Amy Shaw-Ru, PASCUA, Edward Derrick, VAN BLARCOM, Thomas John, BOUSTANY, Leila Marie, HO, Weihsien, YEUNG, Yik Andy, STROP, Pavel, RAJPAL, Arvind 33: US 31: 62/146,504 32: 2015-04-13

33: US 31: 62/146,504 32: 2015-04-13 33: US 31: 62/146,843 32: 2015-04-13 54: THERAPEUTIC ANTIBODIES AND THEIR USES 00: -

The present invention relates to antibodies, e.g., full length antibodies or antigen binding fragments thereof, that specifically bind to BCMA (B-Cell Maturation Antigen) and CD3 (Cluster of Differentiation 3). The invention also relates to antibody conjugates (e.g., antibody-drug-conjugates) comprising the BCMA antibodies, compositions comprising the BCMA antibodies, and methods of using the BCMA antibodies and their conjugates for treating conditions associated with cells expressing BCMA (e.g., cancer or autoimmune disease). The invention further relates to heteromultimeric antibodies that specifically bind to CD3 and a tumor cell antigen, (e.g., bispecific antibodies that specifically bind to CD3 and BCMA). Compositions comprising such heteromultimeric antibodies, methods for producing and purifying such heterodimeric antibodies, and their use in diagnostics and therapeutics are also provided.

- 71: nChain Holdings Limited
- 72: WRIGHT, Craig Steven, SAVANAH, Stephane
- 33: GB 31: 1608454.3 32: 2016-05-13
- 33: GB 31: 1608463.4 32: 2016-05-13
- 33: GB 31: 1608456.8 32: 2016-05-13

^{21: 2018/07299. 22: 2018/10/31. 43: 2022/06/08} 51: G06F

54: A METHOD AND SYSTEM FOR VERIFYING INTEGRITY OF A DIGITAL ASSET USING A DISTRIBUTED HASH TABLE AND A PEER-TO-PEER DISTRIBUTED LEDGER

00: -

A computer-implemented method (900) and system (1) for verifying the integrity of a computer software for installation using a distributed hash table (13) and a peer-to-peer distributed ledger (14). This may be the Bitcoin blockchain or an alternative implementation. The method includes determining (910) a metadata associated with a transaction record stored on the peer-to-peer distributed ledger (14). An indication of an entry stored on the distributed hash table (13) may be determined (920) from the metadata. The method further includes determining (930) a third hash value based on the computer software and determining (940) a fourth hash value from the entry on the distributed hash table (13). The method further includes comparing (950) the third hash value and the fourth hash value and verifying (960) the integrity of the computer software based on the comparing of the third hash value and the fourth hash value.



21: 2018/07303. 22: 2018/10/31. 43: 2022/06/22

51: A01N

71: Valent BioSciences LLC 72: HUANG, Zhengyu, BELKIND, Benjamin A., DEVISETTY, Bala N., GANGAVARAPU, Venkat, ZHENG, Zuoxing 33: US 31: 62/345,430 32: 2016-06-03 54: NON-AQUEOUS, NON-OIL LIVE MICROBIAL COMPOSITIONS

00: -

The present invention is directed to non-aqueous, non-oil liquid compositions comprising live microbial organisms and a liquid carrier. The present invention is further directed methods of controlling pests comprising applying an effective amount of a nonaqueous, non-oil liquid composition comprising live microbial organisms and a liquid carrier to an area in need of pest control.

21: 2018/07616. 22: 2018/11/13. 43: 2022/06/20 51: C02F 71: EVOQUA WATER TECHNOLOGIES LLC

72: LINDEMANN, TIMOTHY, WHITTIER, MICHAEL CASEY

33: US 31: 62/346,786 32: 2016-06-07 54: BALLASTED SOLIDS TREATMENT SYSTEM AND METHOD 00: -

Disclosed are apparatus and methods for treating wastewater. In one example a system for treating wastewater treatment is provided. The system comprises a biological reactor having an inlet in fluid communication with a source of wastewater and an outlet, the biological reactor configured to treat wastewater from the source of wastewater and output a biologically treated wastewater from the outlet, a solids-liquid separation system having an inlet in fluid communication with the outlet of the biological reactor and configured to separate the biologically treated wastewater into a solids-lean effluent and a solids-rich waste activated sludge (WAS), a treatment subsystem comprising a digester, an inlet in fluid communication with a WAS outlet of the solids-liquid separation system, and an outlet for providing ballasted and digested WAS, and a ballast feed system configured to deliver ballast to one of the biological reactor and the treatment subsystem.



21: 2018/07694, 22: 2018/11/15, 43: 2022/06/22 51: G06F; H04B

71: Wi-Tronix, LLC

72: JORDAN, Lawrence B., PATEL, Savankumar V., WEAVER, Bryan

33: US 31: 62/337,228 32: 2016-05-16

33: US 31: 62/337,227 32: 2016-05-16

33: US 31: 62/337,225 32: 2016-05-16

54: REAL-TIME DATA ACQUISITION AND **RECORDING SYSTEM VIEWER**

00: -

A data acquisition and recording system (DARS) and viewer for mobile assets that includes a data encoder, onboard data manager, and at least one local memory module. DARS processes video data from at least one 360 degree camera and stores a compressed record of the data at least once per second in the local memory module. DARS is designed to run in near real-time mode, storing a full record comprising five minutes of data to a remote memory module every five minutes, and in real-time mode, streaming video data to the remote memory module by uploading a record of data at least once per second and up to once every tenth of a second. Remotely located users can view video, audio, and data in various view modes through a web browser or virtual reality device, which provides for guicker emergency response, validate the effectiveness of repairs and rerouting, and monitor crew performance and safety.



21: 2018/07869, 22: 2018/11/21, 43: 2022/06/20 51: C07K; C12N 71: AADIGEN, LLC 72: DIVITA, GILLES, DESAI, NEIL 33: US 31: 62/394,140 32: 2016-09-13 33: US 31: 62/477.357 32: 2017-03-27 33: US 31: 62/342,823 32: 2016-05-27 54: PEPTIDES AND NANOPARTICLES FOR INTRACELLULAR DELIVERY OF GENOME-**EDITING MOLECULES** 00: -

The present invention pertains to peptide-containing complexes/nanoparticles that are useful for stabilizing and/or delivering one or more molecules of a genome-editing system, such as proteins and/or nucleic acids, for example CRISPR proteins and/or nucleic acids.



21: 2018/08470, 22: 2018/12/14, 43: 2022/06/23 51: A61J; G08B

71: WATERIO LTD.

72: KAPLAN, Nimrod, BENTKOVSKI, Yakov 33: US 31: 62/337,620 32: 2016-05-17 54: SMART CAPS FOR MEDICATION **CONTAINERS**

00: -

A cap for a medication container may include: at least one pressure sensor; an air supplying unit; and a controller. The controller may be configured to:

receive a first air pressure measurement form inside the medication container, form the at least one pressure sensor; control the air supply unit to supply air at a predetermined pressure for a predetermined amount of time; receive a second air pressure measurement from inside the medication container, form the at least one pressure sensor; and perform an output operation using the first and second air pressure measurements.



21: 2018/08507. 22: 2018/12/18. 43: 2022/06/20 51: C07D A01N

71: BASF SE

72: SEISER, Tobias, WITSCHEL, Matthias, JOHANNES, Manuel, MASSA, Dario, PARRA RAPADO, Liliana, APONTE, Raphael, MIETZNER, Thomas, NEWTON, Trevor, William, SEITZ, Thomas, EVANS, Richard, R., LANDES, Andreas 33: EP 31: 16171063.7 32: 2016-05-24 **54: HERBICIDAL URACILPYRID** 00: -

The present invention relates to uracilpyridines of formula (I), or their agriculturally acceptable salts or derivatives, wherein the variables are defined according to the description, processes and intermediates for preparing the uracilpyryidines of the formula (I), compositions comprising them and their use as herbicides, i.e. for controlling harmful plants, and also a method for controlling unwanted vegetation which comprises allowing a herbicidal effective amount of at least one urycilpyridine of the formula (I) to act on plants, their seed and/or their habitat.

(I)



21: 2019/00111. 22: 2019/01/08. 43: 2022/06/17 51: C04B 71: Alcoa USA Corp. 72: MCMILLEN, James C., SWORTS, Lance M., MOSSER, Benjamin D. 33: US 31: 62/353,880 32: 2016-06-23 54: SYSTEMS AND METHODS FOR MAKING CERAMIC POWDERS AND CERAMIC PRODUCTS 00: -

Systems and methods for making ceramic powders are provided. In some embodiments, a method for forming a ceramic powder includes: adding a sufficient amount of additives to a plurality of reagents to form a precursor mixture so that when the precursor mixture is carbothermically reacted the precursor mixture forms a ceramic powder, wherein the additive includes at least one of: an oxide, a salt, a pure metal or an alloy of elements ranging from atomic numbers 21 through 30, 39 through 51, and 57 through 77 and combinations thereof; and carbothermically reacting the precursor mixture to form a ceramic powder, wherein the ceramic powder comprises: a) a morphology selected from the group consisting of irregular, equiaxed, plate-like, and combinations thereof, and b) a particle size distribution selected from the group consisting of fine, intermediate, coarse, and combinations thereof.



21: 2019/00193. 22: 2019/01/10. 43: 2022/07/21 51: A61K; C07K; C12N; G01N; A61P 71: I-MAB BIOPHARMA US LIMITED 72: FANG, Lei, WANG, Zhengyi, GUO, Bingshi, ZANG, Jingwu 33: CN 31: 201610414226.5 32: 2016-06-13 33: CN 31: PCT/CN2017/072566 32: 2017-01-25

54: ANTI-PD-L1 ANTIBODIES AND USES THEREOF

00: -

Provided are anti-PD-L1 antibodies or fragments thereof. The antibodies or fragments thereof specifically bind to the immunoglobulin C domain of the PD-L1 protein. In various example, the antibodies or fragments thereof include a VH CDR1 of SEQ ID NO: 1, a VH CDR2 of SEQ ID NO: 2, a VH CDR3 of SEQ ID NO: 3, a VL CDR1 of SEQ ID NO: 4, a VL CDR2 of SEQ ID NO: 5, and a VL CDR3 of SEQ ID NO: 6, or variants of each thereof. Methods of using the antibodies or fragments thereof for treating and diagnosing diseases such as cancer and infectious diseases are also provided.

21: 2019/00410. 22: 2019/01/21. 43: 2022/04/06 51: G01N; G03H 71: UPONOR OYJ 72: HÄMÄLÄINEN, Esa, KESTI, Tero 33: EP 31: 16175692.9 32: 2016-06-22 54: ARRANGEMENT FOR IN-LINE HOLOGRAPHY MICROSCOPY 00: -

A measuring arrangement (101) comprises an illuminating arrangement (110) to emit coherent light (111);a cuvette (120) defining an inner volume (121) for receiving a fluid (130) possibly comprising microscopic objects (140) of foreign origin, the cuvette being arranged to receive the coherent light and let it exit therefrom through opposite entrance and exit openings(150, 153), the entrance opening (150) being closed by an entrance window (151), whereby the possible microscopic objects present in the fluid scatter part of the light, the scattered and non-scattered light interfering to form interference fringes; an image sensor (160), the image sensor being configured to capture a hologram digital image frame (170) by receiving the light propagated across the cuvette; and an exit window (152) arranged to close the exit opening (153) of the cuvette. The image sensor (160) is mounted in direct contact with the cuvette(120).



21: 2019/00411. 22: 2019/01/21. 43: 2022/04/06

51: G01N; G03H; G06T

71: UPONOR OYJ

72: KESTI, Tero, HÄMÄLÄINEN, Esa

33: EP 31: 16175687.9 32: 2016-06-22 54: DETECTING MICROSCOPIC OBJECTS IN FLUIDS 00: -

A method (10) comprises: obtaining (11) prepared image data captured by an image sensor receiving light propagated across a sample volume, containing a fluid possibly comprising microscopic objects of foreign origin, while illuminating the sample volume by coherent light, the prepared image data comprising, for a microscopic object, a prepared

hologram pattern with prepared spatially alternating intensity formed by interference fringes; providing (12) filtered image data, comprising automatically filtering the prepared image data by an edge enhancing filter, the filtered image data comprising, for a prepared hologram pattern, a filtered hologram pattern; and automatically detecting (13), on the basis of the filtered hologram pattern, the presence of the microscopic object associated with the filtered hologram pattern in the sample volume of the fluid.



- 21: 2019/00542. 22: 2019/01/25. 43: 2022/07/25 51: A61K
- 71: OLLER DUQUE, Lara
- 72: OLLER DUQUE, Lara, SHANDER, Aryeh 33: ES 31: P201631021 32: 2016-07-26 54: ISOTONIC CRYSTALLOID AQUEOUS

SOLUTION 00: -

The invention relates to an isotonic crystalloid aqueous solution of the type containing Na+, K+ and Cl-, and to the use thereof as a vasodilator. 21: 2019/00692. 22: 2019/02/01. 43: 2022/06/17 51: A61B 71: SurgiBox Inc.

72: TEODORESCU, Debbie Lin, FREY, Daniel D., MILLER, Sally A., SMALLEY, Robert J. 33: US 31: 62/362,893 32: 2016-07-15 54: ULTRAPORTABLE SYSTEM FOR INTRAOPERATIVE ISOLATIVE AND REGULATION OF SURGICAL SITE ENVIRONMENTS 00: -

A portable surgical system including a transparent and flexible plastic enclosure (1) is disclosed. The enclosure is attached reversibly to the patient's body encompassing the surgical site such as to isolate and regulate the immediate environment of the surgical site, and to reduce bodily fluid splatters from the surgical site to the surgical providers. The enclosure is inflated with filtered air. Arm ports (8) are integrated into the enclosure to allow access to the inside of the enclosure by either provider arms or augmenting instrumentation taking the place of arms such as laparoscopes or robots. Material ports (10) maintain enclosure environmental integrity but allow the passing of anatomical specimens, instruments, and other materials into and out of the enclosure (1) during a procedure. The portable surgical system is lightweight and can be used in conventional operating rooms to improve sterility, or in other circumstances where no operating room is available, such as field hospitals.



- 21: 2019/00712. 22: 2019/02/04. 43: 2022/06/20 51: C10G
- 71: GOLDEN RENEWABLE ENERGY, LLC
- 72: OLUWASEUN, Oluwadare, TENORE, Anthony,
- F., FOWLER, David 33: US 31: 15/062,319 32: 2016-07-08

54: HEATED AIRLOCK FEEDER UNIT 00: -

A Heated Airlock Feeder is disclosed. Heated Airlock Feeder allows for the continuous feeding of solid,

shredded plastic into a reactor tube surrounded by clamshell burner boxes. Inside of the reactor tube, two augers, one with right hand flights and one with left hand flights are welded to smooth augers to create two continuous augers that push solid plastic material, liquid plastic material and molten plastic material through two small holes. As the plastic is in its molten state while being forced through the two small holes, an airlock is formed preventing air form entering the system. As the solid, shredded plastic is fed into the system, an airlock is formed allowing for the continuous feeding of the system. The clamshell burner boxes allow for convection and radiant heat allowing for even, continuous heat.



21: 2019/00820. 22: 2019/02/08. 43: 2022/06/08 51: A61K; A61P; C07K 71: Daiichi Sankyo Co., Ltd. 72: MASUDA, Takeshi, NAITO, Hiroyuki, NAKADA, Takashi, YOSHIDA, Masao, ASHIDA, Shinji, MIYAZAKI, Hideki, KASUYA, Yuji, MORITA, Koji, ABE, Yuki, OGITANI, Yusuke 33: JP 31: 2012-225887 32: 2012-10-11 **54: ANTIBODY-DRUG CONJUGATE** 00: -

Provided is an antibody-drug conjugate which can be used as an anti-tumor agent that has an excellent anti-tumor effect and is highly safe, said conjugate being characterized by being produced by binding an anti-tumor compound represented by formula (1) to an antibody through a linker having a structure represented by the formula: $-L^1-L^2-L^{D}-NH-(CH_2)n^1-L^2-L^C$. (wherein the

(1) to an antibody unough a mixer having a structure represented by the formula. -L -L -L -MH-(CH2)H -L -L - (wherem

antibody is bound at the terminal of L^1 , and the anti-tumor compound is bound at the terminal of L^C in which the binding site of the anti-tumor compound is a nitrogen atom in an amino group located at position-1).



21: 2019/00867. 22: 2019/02/11. 43: 2022/06/22 51: A61M

71: Elanco US, Inc., Bovicor Pharmatech Inc. 72: MARR, Amy L., HILL, Jeffrey K., STRANGE, Casey J., MILLER, Christopher C., OWENS, Jane G., WALN, Randall L., REGEV-SHOSHANI, Gilly, STENZLER, Alex, HAN, Steve 33: US 31: 62/364,808 32: 2016-07-20 54: ANIMAL INTRANASAL ADMINISTRATION DEVICE, SYSTEMS, AND ASSOCIATED METHODS 00: -

A veterinary subject intranasal administration device, and associated systems and methods, are disclosed. The veterinary subject intranasal administration device can include a first support member portion including a septum interface portion sized for insertion into a nasal passage of the veterinary subject; an actuation mechanism connected to the first support member portion; and a fluid conduit having a distal end opposite a supported end, the distal end sized for insertion into the nasal passage of the veterinary subject, the fluid conduit being flexible and configured to receive fluid from a fluid source and discharge the fluid through the distal end into the nasal passage, the distal end of the fluid conduit being unsupported and movable relative to the septum interface portion.



21: 2019/00927. 22: 2019/02/13. 43: 2022/06/17 51: C08K; D01D; D01F

71: DSM IP Assets B.V.

72: VLASBLOM, Martin Pieter, DRIEMAN, Johannes Gabriël Marie, GIJSMAN, Pieter

33: EP(NL) 31: 16190869.4 32: 2016-09-27

54: UHMWPE FIBER, YARN AND ARTICLES THEREOF

00: -

The invention relates to a gel-spun fiber comprising an ultra-high molecular weight polyethylene (UHMWPE), wherein the UHMWPE has an intrinsic viscosity (IV) of at least 4 dL/g and comprises at least 0.3 short chain branches per thousand total carbon atoms (SCB/1000TC), characterized in that the fiber further comprises between 0.1 and 10 parts by weight of carbon black based on 100 parts by weight of the amount of the polyethylene forming the fiber. The invention further relates to a yarn comprising at least 5 such gel-spun fibers as well as to articles comprising said fibers or yarns.



21: 2019/00958. 22: 2019/02/14. 43: 2022/06/20 51: C09D

71: SWIMC LLC

72: O'BRIEN, Robert M., STUETELBERG, Mark, RIAZZI, Arthur, SCANDOLARI, Mary Jo, HUYNH, Nhan T., KOCH, Nikolaus J., PUAUD, Samuel, RIDDLE, David M.

33: US 31: 62/362,729 32: 2016-07-15 54: LATEX COATING COMPOSITION HAVING REDUCED FLAVOR SCALPING PROPERTIES 00: -

A coating composition for a food or beverage can includes an emulsified latex polymer formed by polymerizing an ethylenically unsaturated monomer component in the presence of an aqueous dispersion of a water-dispersible emulsifying polymer.

21: 2019/01097. 22: 2019/02/20. 43: 2022/06/20 51: C07D; A61K; A61P 71: ELI LILLY AND COMPANY

72: COATES, DAVID ANDREW, QIN, LUO HENG, WEI, YI, ZHOU, JINGYE

33: CN 31: PCT/CN2016/094833 32: 2016-08-12 54: AMINO PYRIMIDINE SSAO INHIBITORS 00: -

The present invention provides compounds of the Formula (I), or a pharmaceutically acceptable salt thereof, where n and R1 are defined herein, methods of treating patients for liver disease, and processes for preparing the compounds.



21: 2019/01387. 22: 2019/03/05. 43: 2022/06/17 51: C10G 71: BP p.l.c. 72: NEMAC, Larry 33: US 31: 62/383,694 32: 2016-09-06 54: PROCESS FOR ACTIVATION AND OPERATION OF A HYDROCARBON UPGRADING CATALYST

00: -

The present invention provides a process for upgrading a Fischer-Tropsch product by hydrocracking in the presence of a hydrocracking catalyst in a reactor, wherein the process is initiated by a series of steps (i) to (iv). The hydrocracking catalyst is (i) contacted with a hydrogen-containing stream having a feed temperature of from 360 °C to 420 °C; (ii) the feed temperature of the hydrogencontaining stream is reduced to a temperature of from 220 °C to 280 °C; (iii) the catalyst is contacted with a Fischer-Tropsch product stream having a feed temperature of from 220 °C to 280 °C, which is cofed with the hydrogen- containing stream; and (iv) the catalyst is co-fed with a Fischer-Tropsch product stream and hydrogen-containing stream having feed temperatures of from 380°C and 400°C for at least four days and wherein the hydrocracking catalyst is not activated by sulfiding.



21: 2019/01397. 22: 2019/03/06. 43: 2022/06/20 51: H04W H04L

71: SK TELECOM CO., LTD., INNOSKY 72: KWON, Ki Bum, PARK, Dong Hyun 33: KR 31: 10-2016-0102422 32: 2016-08-11 54: METHOD AND APPARATUS FOR CONTROLLING SEMI-PERSISTENT SCHEDULING

00: -

A communication system configures a plurality of sidelink (SL) Semi-Persistent Scheduling (SPS) for a user device. In some embodiments, a method includes generating, by a base station, SL SPS configuration information for the user device, wherein the SL SPS configuration information comprises: an SL SPS radio network temporary identifier (RNTI) for the user device; and SL SPS index information to indicate a plurality of SL SPS configurations for the user device. The method further includes configuring a radio resource control (RRC) message comprising the SL SPS configuration information and transmitting, by the base station and to the user device, the RRC message.



21: 2019/01493, 22: 2019/03/11, 43: 2022/07/25 51: C10J; C10K

71: 8 RIVERS CAPITAL, LLC

72: FORREST, Brock Alan, LU, Xijia, ALLAM, Rodney John, FETVEDT, Jeremy Eron, PALMER, Miles R.

33: US 31: 62/393,752 32: 2016-09-13 54: SYSTEM AND METHOD FOR POWER **PRODUCTION USING PARTIAL OXIDATION** 00: -

The present disclosure relates to a power production system that is adapted to achieve high efficiency power production using partial oxidation of a solid or liquid fuel to form a partially oxidized stream that comprises a fuel gas. This fuel gas stream can be one or more of quenched, filtered, and cooled before being directed to a combustor of a power production system as the combustion fuel. The partially oxidized stream is combined with a compressed recycle CO2 stream and oxygen. The combustion stream is expanded across a turbine to produce power and passed through a recuperator heat exchanger. The expanded and cooled exhaust stream can be further processed to provide the recycle CO2 stream, which is compressed and passed through one or more recuperator heat exchangers in a manner useful to provide increased efficiency to the combined systems.



21: 2019/01739. 22: 2019/03/20. 43: 2022/07/11 51: C09K

71: AQUAFORTUS TECHNOLOGIES LIMITED 72: BRIGGS, Daryl Joseph

33: US 31: 62/404,009 32: 2016-10-04 54: A THERMO-RESPONSIVE SOLUTION, AND **METHOD OF USE THEREFOR** 00: -

The present invention relates to a thermo-responsive solution and in particular, a solution for use in an osmosis process that is suitable for separating or purifying solutes and or water from an aqueous solution on a large scale and under energy efficient conditions.



21: 2019/01903. 22: 2019/03/27. 43: 2022/06/20 51: G01N; B23K; G01B; G06F; G06K 71: SOREQ NUCLEAR RESEARCH CENTER, SECURITY MATTERS LTD., YAHLOMA TECHNOLOGIES INC. 72: GROF, YAIR, KISLEV, TZEMAH, YORAN, NADAV, ALON, HAGGAI, KAPLINSKY, MOR 33: US 31: 62/381.243 32: 2016-08-30 54: METHOD FOR MARKING AND AUTHENTICATING DIAMONDS AND PRECIOUS STONES 00: -

Method and systems are presented for authentication of precious stones, according to their natural ID and/or predetermined markings created in the stones, based on unique characteristic radiation response of the stone to predetermined primary radiation.



- 21: 2019/01928. 22: 2019/03/28. 43: 2022/06/28 51: F24B
- 71: HESTIA CONCEPTS LTD.
- 72: THOMAS, Samuel Haydn Andrew
- 33: GB 31: 1616149.9 32: 2016-09-22

54: HEATING APPLIANCE

00: -

A heating appliance (1) comprises a main body (2) having a fire-box (9) with an opening (10) for placing combustible fuel (11) therein with which the heating appliance (1) is used. The heating appliance (1) has a fire door (3) for closing the opening (10), and a movable baffle (4). The baffle (4) is placable in a first position in which it is disposed in a front part of the fire-box (9), it is behind the fire door (3), and it forms a shield for the combustible fuel (11).



21: 2019/01974. 22: 2019/03/29. 43: 2022/07/25 51: B64D; G01G; G01M; G07B 71: RUNWEIGHT PTY LTD 72: HARTMANN, Bill 33: AU 31: 2016903644 32: 2016-09-09 54: A SYSTEM FOR REAL TIME DETERMINATION OF PARAMETERS OF AN AIRCRAFT 00: -

There is provided a system for determining real-time parameters of an aircraft, the system comprising: at least two sensing apparatus, each of the at least two sensing apparatus including a plurality of in-ground sensors; and at least one processing apparatus to process data received from the at least two sensing apparatus. It is preferable that a positioning of the at least two sensing apparatus is determined by a type of the aircraft being measured.



21: 2019/02286. 22: 2019/04/11. 43: 2022/06/24

51: A61K; C12N

71: 2seventy bio, Inc.

72: MORGAN, Richard, FRIEDMAN, Kevin, MAIER, Dawn

33: US 31: 61/984,558 32: 2014-04-25 54: IMPROVED METHODS FOR MANUFACTURING ADOPTIVE CELL THERAPIES 00: -

The invention provides compositions and methods for manufacturing adoptive cell therapies. In particular embodiments, the invention provides methods of harvesting populations of cells, isolating and activating PBMCs, expanding T cells, and administering the T cell therapeutic to a subject in need thereof.



21: 2019/02742. 22: 2019/05/02. 43: 2022/06/20 51: B65G

71: ASHWORTH BROS., INC.

72: NEELY, DARROLL JOSEPH, HOBBS, BRYAN 33: US 31: 62/196,582 32: 2015-07-24 33: US 31: 15/216,210 32: 2016-07-21 54: SPIRAL CONVEYOR SYSTEM 00: -

A spiral conveyor system with a positive drive system includes a rotating drum with at least one rib that is attached to drum. The rib includes a drive face for engaging a conveyor belt. The height of the rib above of the surface of the drum varies along a length of the drive element. The rib may be directly attached to the drum or may be a part of a drive element attached to the drum. The conveyor belt includes at least one belt surface configured to engage the at least one drive face, such as a protruding tab with a flat surface.



21: 2019/02939. 22: 2019/05/10. 43: 2022/06/17 51: C07K

71: Potenza Therapeutics, Inc.

72: HICKLIN, Daniel, SEIDEL-DUGAN, Cynthia, WINSTON, William, SALMERON-GARCIA, Jose-Andres, BRODKIN, Heather, KLEFFEL, Sonja, NIELSON, Nels P.

33: US 31: 62/497,428 32: 2016-11-19

54: ANTI-GITR ANTIGEN-BINDING PROTEINS AND METHODS OF USE THEREOF 00: -

Provided herein are antigen-binding proteins (ABPs) that selectively bind to GITR and its isoforms and homologs, and compositions comprising the ABPs. Also provided are methods of using the ABPs, such as therapeutic and diagnostic methods.

21: 2019/03432. 22: 2019/05/29. 43: 2022/06/17

51: A61K; A61Q 71: Colgate-Palmolive Company

72: REGE, Aarti, PRENCIPE, Michael, THOMSON, Paul, BEGUM-GAFUR, Rehana

33: US 31: 62/437,091 32: 2016-12-21

54: ORAL CARE COMPOSITIONS AND METHODS OF USE

00: -

This invention relates to oral care compositions comprising zinc phosphate, a first source of stannous (e.g., stannous fluoride); and a second source of stannous, wherein the second source of stannous comprises stannous pyrophosphate, as well as to methods of using and of making these compositions. 21: 2019/03986. 22: 2019/06/19. 43: 2022/07/25 51: F03B; H02K

71: KINETIC NRG TECHNOLOGIES PTY LTD
72: CAMILLERI, Paul Anthony
33: AU 31: 2016905107 32: 2016-12-09
33: AU 31: 2017900132 32: 2017-01-17
54: A HYDROKINETIC POWER GENERATOR
00: -

A hydrokinetic generator including: a submersible housing defining a conduit therethrough for the flow of a fluid; a turbine mounted to the housing comprising at least one impeller located in the conduit for rotation by said flow; and at least one electrical generator coupled to the at least one turbine for converting mechanical energy from the turbine to electrical energy, the electrical generator including a plurality of elongate members bearing one or more magnetic regions, the elongate members being disposed about the at least one impeller and fast therewith; and a number of windings located within material of the housing and arranged for electromagnetic interaction with said magnetic regions whereby in use rotation of the impeller moves the magnetic regions past the windings to thereby induce an electrical current in the windings. The impeller may comprise a plurality of spiral, helical blades disposed about a common axle from a leading end thereof to a trailing end wherein a radius of the blades increases exponentially from the leading end to the trailing end.



21: 2019/04121. 22: 2019/06/25. 43: 2022/06/20 51: C07H A61K A61P C07D 71: UNIVERSITÄT BERN 72: LEUMANN, Christian, EVÉQUOZ, Damien 33: EP 31: 16201350.2 32: 2016-11-30 54: NOVEL BICYCLIC NUCLEOSIDES AND OLIGOMERS PREPARED THEREFROM 00: -

The present invention relates to novel bicyclic nucleosides and oligomers prepared therefrom. In particular, the present invention relates to a compound of formula (I), wherein one of T1 and T2 is OR1 or OR2; and the other of T1 and T2 is OR1 or OR2; wherein R1 is H or a hydroxyl protecting group, and R2 is a phosphorus moiety; and wherein Bx is a nucleobase. Furthermore, the present invention relates to said compounds, bicyclic nucleosides and said oligomers for use as a medicament in the prevention, treatment or diagnosis of a disease.



21: 2019/04216. 22: 2019/06/27. 43: 2022/06/20 51: F24J C01G

71: NANO FRONTIER TECHNOLOGY CO., LTD. 72: TSUDA, Kaoru, MURAKAMI, Yasushi 33: JP 31: 2017-010110 32: 2017-01-24 54: THERMAL COLLECTING FILM FOR SOLAR THERMAL POWER GENERATION AND MANUFACTURING METHOD FOR SAME 00: -

The present invention pertains to a thermal collecting film for solar thermal power generation that has excellent thermal oxidation resistance and a high light absorption rate and a manufacturing method for same. This thermal collecting film for solar thermal power generation has a network structure of composite particles comprising: particles of metal oxide primarily containing two or more types of metal selected from Mn, Cr, Cu, Zr, Mo, Fe, Co, and Bi; and titanium oxide that partially or wholly covers the surface of these particles. The arithmetic average roughness of the film surface is 1.0 µm or

greater and the ratio of the composite particle network surface area to the film plane surface area is 7 or greater.

[図1A]



- S100 Mix titanium precursor and acetylacetone
- S200 Heat mixture
- S300 Mix metal oxide particles
- S400 Deposit
- S500 Form porous silica film

21: 2019/04639. 22: 2019/07/16. 43: 2022/07/25

- 51: B05B; E03C
- 71: Hansgrohe SE

72: BLATTNER, Joachim, GROß, Jürgen 33: DE 31: 10 2018 2124 08.6 32: 2018-07-25

54: SANITARY SHOWER DEVICE

00: -

A shower device wherein jet output elements discharge fluid via first fluid input openings with a first jet pattern and via second fluid input openings with a second jet pattern and a fluid conduit configuration for fluid coupling of a fluid inlet configuration to a fluid outlet connection configuration.



21: 2019/04694. 22: 2019/07/17. 43: 2022/06/20 51: A61K; A61P 71: Poli Md S.R.L. 72: POLI, Elena 33: IT 31: 102017000090344 32: 2017-08-04 54: MEDICAL DEVICE FOR THE TREATMENT OF HPV CUTANEOUS INFECTIONS 00: -

The present invention relates to a medical device for treating papilloma virus (HPV) cutaneous infections, in particular for the treatment of warts and related pathologies. In particular, the present invention relates to a collodion-based composition, particularly elastic collodion, containing acetylsalicylic acid and a composition containing acetylsalicylic acid and a glycol. Such compositions can be used in the treatment of HPV cutaneous infections, in particular benign infections such as warts, papillomas and condylomas.

21: 2019/04717. 22: 2019/07/18. 43: 2022/06/24 51: A61K; C07K

71: Janssen Vaccines & Prevention B.V. 72: BUNNIK, Evelien Margaretha, CUSTERS, Jerôme H.H.V., SCHEPER, Gerrit Ch., OOSTERHUIS, Koen, UIL, Taco Gilles, KHAN, Selina

33: EP(NL) 31: 15181791.3 32: 2015-08-20 54: THERAPEUTIC HPV18 VACCINES 00: -

The invention provides designer nucleic acid constructs and polypeptides that used as therapeutic vaccines against HPV18 and/or HPV16.

21: 2019/04795. 22: 2019/07/22. 43: 2022/06/20 51: C07C

71: EVONIK OPERATIONS GMBH

72: NADOLNY, Fabian, PEITZ, Stephan, STOCHNIOL, Guido, FRANKE, Robert, ALSCHER, Felix, BREITKOPF, Cornelia, RESCHETILOWSKI, Wladimir

33: EP 31: 18185533.9 32: 2018-07-25 54: PROCESS FOR OLIGOMERIZATION OF BUTENE WITH DETERMINATION OF THE PROPORTION OF ACIDIC CATALYSIS 00: -

The invention provides a process for oligomerization of n-butenes using a nickel-containing aluminosilicate catalyst to produce a product mixture whose ratio of 4,4-dimethylhexene to 3,4dimethylhexene is determined and monitored. The invention further relates to a process for determining the ratio of the amount of the formed 4,4dimethylhexene or of the formed 3-ethyl-2methylpentene to the amount of the formed 3,4dimethylhexene.

21: 2019/04956. 22: 2019/07/29. 43: 2022/06/20 51: C08L C04B E01C 71: A.L.M. HOLDING COMPANY, ERGON ASPHALT & EMULSIONS, INC. 72: REINKE, Gerald, H., BAUMGARDNER, Gaylon, L., HANZ, Andrew 33: US 31: 62/453,882 32: 2017-02-02 54: BITUMINIOUS EMULSIONS CONTAINING STEROL ADDITIVE FOR ASPHALT PAVEMENT

00: -Pavement aging can be reduced by applying to an asphalt-containing pavement a topcoat layer or a surface treatment containing asphalt binder with sterols.



21: 2019/05214. 22: 2019/08/07. 43: 2022/06/20 51: F17C 71: HYDROSTOR INC. 72: LEWIS, Cameron, MCGILLIS, Andrew, YOUNG, Davin, VANWALLEGHEM, Curtis 33: US 31: 62/453,306 32: 2017-02-01 33: US 31: 62/453,278 32: 2017-02-01 33: US 31: 62/453,300 32: 2017-02-01 33: US 31: 62/453,315 32: 2017-02-01

54: A HYDROSTATICALLY COMPENSATED COMPRESSED GAS ENERGY STORAGE SYSTEM

00: -

A compressed gas energy storage system may include an accumulator for containing a layer of compressed gas atop a layer of liquid. A gas conduit may have an upper end in communication with a gas compressor/expander subsystem and a lower end in communication with accumulator interior for conveying compressed gas into the compressed gas layer of the accumulator when in use. A shaft may have an interior for containing a quantity of a liquid and may be fluidly connectable to a liquid source/sink via a liquid supply conduit. A partition may cover may separate the accumulator interior from the shaft interior. An internal accumulator force may act on the inner surface of the partition and the liquid within the shaft may exert an external counter force on the outer surface of the partition, whereby a net force acting on the partition is less than the accumulator force.



21: 2019/05435. 22: 2019/08/16. 43: 2022/06/20

- 51: C02F C05F
- 71: KLEMOLA, Martti
- 72: KLEMOLA, Martti

33: FI 31: 20170007 32: 2017-01-20 54: METHOD FOR PURIFYING WATER 00: -

A method for purification of water with a water purifier (10). The water purifier (10) comprises an anode (30) and a cathode (20) as electrodes in such a way that a gap (25) remains between the anode (30) and the cathode (20). In the method, an electric field is generated between the anode (30) and the cathode (20), water for purification is conveyed to the gap (25) and an additive enhancing floe formation is introduced to water for purification or to purified water in an amount of less than 50 g and at least 1 g, measured as dry matter, per each cubic metre of water for purification. Floe material (90) manufactured with the method, when water for purification is municipal wastewater. The use of the floe material (90) produced in this way as a soil conditioner or for manufacturing a soil conditioner.



21: 2019/05641. 22: 2019/08/27. 43: 2022/08/08 51: E21D

71: EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD

72: KNOX, Greig, PASTORINO, Paolo Ettore, SHEPPARD, James William
33: ZA 31: 2018/05727 32: 2018-08-28
54: AN INTEGRATED BOLT ROTATOR AND GROUT NOZZLE DEVICE FOR USE IN A MECHANISED BOLTING APPLICATION 00: -

The invention provides an integrated bolt rotating and a grout delivery device for use in a mechanised rock bolting application which includes a bolt rotator which has a shaft with a first end, adapted for engagement to a drill rig drive means, and a second end in which a rock bolt engaging socket is defined; and a grout delivery nozzle which has a body, a grout duct formed through the body adapted to channel a grout material from an exterior to an interior of the body; wherein the body is adapted to engage the shaft to move reciprocally along the shaft between a forward position, in which the body at least partially overlaps the second end of the shaft, and a retracted position in which the body is spaced from the second end.



21: 2019/05788. 22: 2019/09/02. 43: 2022/06/20 51: G10K G10L 71: SILENCER DEVICES, LLC 72: SEAGRIFF, Eugene, JUNQUA, Jean-Claude

33: US 31: 15/497,417 32: 2017-04-26 33: US 31: 62/455,180 32: 2017-02-06 54: NOISE CANCELLATION USING SEGMENTED, FREQUENCY-DEPENDENT PHASE CANCELLATION 00: -

Noise abatement within a signal stream containing unwanted signal referred to as noise is performed by acquiring a digitized noise signal and using a digital processor circuit to subdivide the acquired noise signal into different frequency band segments and thereby generate a plurality of segmented noise signals. Then individually for each segmented noise signal, the processor shifts in time the segmented noise signal by an amount dependent on a selected frequency of the segmented noise signal to produce a plurality of shifted segmented noise signals. The precise time shift applied to each noise segment considers the frequency content of the segment and the system processing time. Individually for each

segmented noise signal, amplitude scaling is applied. The shifted and amplitude-scaled segmented noise signals are then combined to form a composite anti-noise signal which is output into the signal stream to abate the noise through destructive interference.



21: 2019/05887. 22: 2019/09/06. 43: 2022/06/20 51: B65D

71: BASF SE

72: LISCHETZKI, Peter, REINHARDT, Tom, KROEGER, Harald, HUBER, Robert 33: EP 31: 17156091.5 32: 2017-02-14 54: CONTAINER WITH CORRUGATIONS 00: -

A container (1) has a side wall (2), which is made of plastics material and encloses a container volume. The side wall (2) contains vertically spaced-apart, horizontally oriented corrugations (7, 8), comprising first corrugations (7) for strengthening the side wall (2), said first corrugations having a first corrugation depth (t1) and being designed such that a protrusion (11), which projects into the enclosed container volume, is formed in the inner surface (5) of the side wall (2). Second corrugations (8) have a second corrugation depth (t2), which is smaller than the first corrugation depth (t1). The first and second corrugations (7, 8) are arranged such that in each case at least one second corrugation (8) is arranged vertically between two first corrugations (7). The subvolumes defined by two horizontal planes (9, 10), which are defined by two adjacent corrugations (7, 8) and are enclosed by the side wall (2), are identical in each case.



21: 2019/05952. 22: 2019/09/10. 43: 2022/06/24 51: A01C; B05B; C05G; C09K 71: SPCM SA 72: LECOINTE, Charles 33: FR 31: 1752419 32: 2017-03-23 54: NOZZLE FOR SPRAYING LIQUID POLYMER PREPARATIONS AND SPRAYING METHOD

UTILIZING THE NOZZLE

A method for spraying a mixture comprising at least a first liquid in the form of a liquid preparation of water-soluble or water-swellable polymers and at least a second liquid, characterized in that it implements a nozzle (1) for simultaneously spraying at least two liquids, comprising: • a body provided with a first chamber (2) within which a first liquid flows and a second chamber (3) within which a second liquid flows, each of the two chambers having a through-hole (4, 5) on the outside of the body, • a deflector (6) secured to the body arranged downstream from at least one of the through-holes (4, 5), in the direction of flow of the first and second liquids, said deflector being capable of modifying the direction of flow of the first and second liquids. The invention also relates to a nozzle for implementing the method.

21: 2019/06465. 22: 2019/10/01. 43: 2022/06/20 51: A61K C07D

- 71: TÊTARD INC., FERNANDES, Prabhavathi 72: FERNANDES. Prabhavathi
- 33: US 31: 62/467,973 32: 2017-03-07

54: COMPOSITIONS AND METHODS FOR TREATING DRY EYE DISEASES

00: -

Described herein are pharmaceutical compositions adapted for the topical administration of macrolide antibiotics, and uses thereof in the treatment of dry eye diseases.

21: 2019/07212. 22: 2019/11/01. 43: 2020/10/16 51: B60N

71: SPECIALISED LOGISTICAL SOLUTIONS (PTY) LTD

72: Darren Rael Winer, Kooagile Allboys Motang 54: A SWIVEL REAR SEAT ASSEMBLY FOR VEHICLES

00: -

A swivel rear seat assembly securable to the rear of a vehicle, comprising at least two swivel seats which are enabled to swivel, but whose range of rotational motion is limited by the position of an abutting seat to the extent that the forward facing positions of the seats do not frontally oppose one another. The swivel seats range of rotational motion is limited by a frame of an abutting swivel seat or a seat rotation stopper. The back rests of the outer seats when facing one another, are positioned behind the back rest of the middle seat and inset relative to back rest of the middle seat when the middle seat is perpendicular to both side seats. The inset position of the side seats provides additional leg room for occupants sitting in these seats as well as facilitates optimal use of the swivel seat assembly in vehicles of variable rear body widths.



21: 2019/07297. 22: 2019/11/04. 43: 2022/07/27 51: A61L; C08K; C09D; B82Y 71: INHIBIT COATINGS LIMITED 72: TATE, Eldon Warwick, JOHNSTON, James Howard 33: NZ 31: 731844 32: 2017-05-12 54: COMPOSITE RESINS CONTAINING SILVER NANOPARTICLES 00: -

A composite resin comprising silver nanoparticles and a polymer where the silver nanoparticles are formed by reduction of silver ions by the functional groups of the polymer without the addition or application of an external reducing agent. The composite resin has a low silver leach rate. The composite resin may be used as a surface coating, particularly an antimicrobial or antifouling surface coating.



- 21: 2019/07356. 22: 2019/11/06. 43: 2022/08/11
- 51: E21D
- 71: NCM INNOVATIONS (PTY) LTD

72: CROMPTON, Brendan Robert, ABREU, Rual 54: TUBULAR NUT FOR A ROCK BOLT 00: -

The invention provides a tubular nut for use with a rock bolt which includes a tubular body, defining an axis, having a leading end and a trailing end, a passage which extends along the axis, opening at each of the ends, the passage having a threaded portion which is adapted to engage formations on a trailing end of the rock bolt and which extends, at least partially, along the passage from the leading end, wherein the tubular body has a first portion of a first diameter which ends at the leading end and which is sized to be received in a rock hole and a second portion which ends at the trailing end and which extends to a second diameter which is larger than the first diameter, wherein the second portion includes an abutment surface which ends at the first portion, and wherein the second portion has a plurality of formations on an exterior surface which are adapted to engage with complementary formations on a drive means.

FIGURE 1 26 22 512 512

21: 2019/07636. 22: 2019/11/14. 43: 2022/06/24 51: G06F; H04B 71: Wi-Tronix, LLC 72: JORDAN, Lawrence B., PATEL, Savankumar V., WEAVER, Bryan 33: US 31: 62/337,228 32: 2016-05-16 33: US 31: 62/337,227 32: 2016-05-16

33: US 31: 62/337,225 32: 2016-05-16

54: REAL-TIME DATA ACQUISITION AND RECORDING SYSTEM VIEWER 00: -

A data acquisition and recording system (DARS) and viewer for mobile assets that includes a data encoder, onboard data manager, and at least one local memory module. DARS processes video data from at least one 360 degree camera and stores a compressed record of the data at least once per second in the local memory module. DARS is designed to run in near real-time mode, storing a full record comprising five minutes of data to a remote memory module every five minutes, and in real-time mode, streaming video data to the remote memory module by uploading a record of data at least once per second and up to once every tenth of a second. Remotely located users can view video, audio, and data in various view modes through a web browser or virtual reality device, which provides for quicker emergency response, validate the effectiveness of repairs and rerouting, and monitor crew performance and safety.



21: 2019/07661. 22: 2019/11/19. 43: 2022/06/24 51: A61K

71: PHARMACYCLICS LLC
72: ATLURI, HARISHA, CHONG, CHING WAH,
KUEHL, ROBERT, TAN, HEOW
33: US 31: 62/127,717 32: 2015-03-03
33: US 31: 62/193,518 32: 2015-07-16
54: PHARMACEUTICAL FORMULATIONS OF A

BRUTON'S TYROSINE KINASE INHIBITOR

Described herein are pharmaceutical formulations of Bruton's tyrosine kinase (Btk) inhibitor 1-((R)-3-(4amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4d]pyrimidin-1-yl)piperidin-1-yl)prop-2-en-1-one. Also disclosed are methods of using the Btk inhibitor, alone or in combination with other therapeutic agents, for the treatment of autoimmune diseases or

conditions, heteroimmune diseases or conditions, cancer, including lymphoma, and inflammatory diseases or conditions.



21: 2019/07861. 22: 2019/11/27. 43: 2022/06/17 51: B65D

71: British American Tobacco (Investments) Limited 72: BRAY, Andrew Jonathan, FALLON, Gary, GIBSON. Paul

33: GB 31: 1421707.9 32: 2014-12-05

54: PACK OF TOBACCO INDUSTRY PRODUCTS 00: -

Pack (27) having a group of tobacco industry products wrapped in a laminate (2) to form a bundle (22). The pack has a base (28) containing the bundle, and a lid (30) mounted to the base for rotation between open and closed positions. The laminate has an outer layer (3) having a first cut (5) that defines an outer layer region bounded by said first cut and, an inner layer (4) having a second cut (6) that defines an inner layer region bounded by said second cut. A part of the outer layer region is attached to an inside surface of the lid such that, as the lid is rotated into its open position, the inner and outer layer regions are lifted causing the inner and outer layers to delaminate in a peripheral region (15) between the first and second cuts and an opening (19).



- 21: 2019/08004. 22: 2019/12/02. 43: 2022/07/25 51: F42D
- 71: DETNET SOUTH AFRICA (PTY) LTD
- 72: OLWAGE, Phillip
- 33: ZA 31: 2017/03516 32: 2017-05-23

54: DOWNLINE WIRE

00: -

A downline wire for connecting a location on surface to at least one detonator in a blast hole, the downline wire including at least two flexible electrical conductors, a respective flexible layer of an insulating material which encases each conductor, and a flexible sheath in which the insulated conductors are embedded, wherein each conductor comprises a steel core which is clad with copper, the insulating material is selected from a filled flexible polyvinylchloride (PVC) composition and a polyester elastomer, and the sheath is made from a medium or high density polyethylene compound.



- 21: 2019/08140. 22: 2019/12/09. 43: 2022/07/27 51: E04G
 - DI EU4G

71: Shane Michael ANDERSON

72: Shane Michael ANDERSON

33: ZA 31: 2019/00586 32: 2019-01-29

54: TOE-BOARD MOUNT FOR SCAFFOLDING 00: -

THIS invention relates to a toe-board mount for scaffolding. More specifically, the invention relates to

a quick lock toe-board mount that enables toeboards to be mounted to scaffolding without using binding wire or other similar methods. The toe-board mount includes primary and secondary U-shaped formations each sized and shaped for receiving an axial end of a respective toe-board therein. Furthermore, the toe-board mount includes a securing formation for securing the toe-board mount to scaffolding standards from which the operatively vertical supports of the scaffold are constructed such that the vertical supports operatively extend across a height dimension of the toe-board mount, characterised in that the height dimension of the toeboard mount is greater than 210 millimetres such that an upper section of the toe-board mount, extending operatively beyond the height dimension of the toe-board, forms a lock mount section for a locking member. The locking member is pivotally mounted on such lock mount and movable relative thereto between locked and unlocked conditions for respectively locking and unlocking the toe-board from the primary and secondary U-shaped formations.



21: 2019/08236. 22: 2019/12/11. 43: 2022/07/11 51: A61K; C07K; C12N

71: The First Affiliated Hospital of Hainan Medical University

72: ZHENG, Shaojiang 郑少江, ZHANG, Xiaodian 张

晓钿, ZHAO, Huange 赵焕阁, LIN, Minge 林岷格,

LIU, Siru 刘思汝, WU, Xinlai 吴新来 33: CN 31: 201811590245.9 32: 2018-12-25 54: MIP3a-FGFR1-PD1/Fc FUSION PROTEIN AND NUCLEIC ACID MOLECULE AND APPLICATION THEREOF MIP3a-FGFR1-PD1/Fc 00: -

The present invention provides a MIP3a-FGFR1-PD1/Fc fusion protein and a nucleic acid molecule and application thereof, and relates to the technical field of anti-tumor drugs. The MIP3a-FGFR1-PD1/Fc fusion protein of the present invention is encoded by a nucleic acid molecule comprising PD1, FGFR1 and murine antibody Fc fragment. The MIP3a-FGFR1-PD1/Fc fusion protein of the present invention has significant tumor vascular targeting effect, and is highly enriched in tumor tissues and tumor neovascularization. The fusion protein of the present invention contains PD1 protein which binds to PDL1 in the tumor microenvironment, through competitive combination, the binding of PD1 on the surface of T cells to tumor cell surface ligands PDL1 and PDL2 is reduced, thereby blocking the continuous activation of PD1 signaling pathway, then fully eliminating the immunosuppressive effect with the fusion protein, and providing efficient tumor immunotherapy.



- 21: 2019/08447. 22: 2019/12/18. 43: 2022/06/20 51: A61K: A61P
- 71: Syddansk Universitet

72: WASSMANN, Claes Søndergaard, KLITGAARD, Janne Kudsk

33: EP(DK) 31: 17176612.4 32: 2017-06-19 54: BACITRACIN AND/OR DAPTOMYCIN COMBINED WITH CANNABIDIOL FOR TREATMENT OF BACTERIAL INFECTIONS 00: -

The present invention relates to compositions comprising Cannabidiol (CBD) or pharmaceutically acceptable salts thereof, and bacitracin or pharmaceutically acceptable salts thereof and/or daptomycin or pharmaceutically acceptable salts thereof. The compositions show a synergistic effect in the inhibition of growth of Gram-positive bacteria. Thus, the compositions according to the invention may e.g. find use as medicaments in the treatment of Gram-positive bacterial infections.



21: 2020/00526. 22: 2020/01/27. 43: 2022/06/03 51: A47B; D05B

71: ANDREW JOHN VAN DER MERWE 72: ANDREW JOHN VAN DER MERWE 33: ZA 31: 2018/07109 32: 2018-10-25

54: BED DEVICE

00: -

This invention relates to a bed device and more particularly, but not exclusively, to a bed device for an infant. In accordance with this invention there is provided a bed device comprising a resiliently deformable body having a sunken mattress section and a storage means.



21: 2020/00560. 22: 2020/01/28. 43: 2022/06/20 51: C08G

71: P2 SCIENCE, INC.

72: FOLEY, PATRICK, YANG, YONGHUA, SALAM, TANIA

33: US 31: 62/617,924 32: 2018-01-16 33: US 31: 62/662,177 32: 2018-04-24

33: US 31: 62/539,319 32: 2017-07-31

54: POLYETHER DERIVATIVES, USES, AND METHODS OF MAKING THE SAME 00: -

The invention contemplates certain polyethers, polyether derivatives, and methods of making and using those same polymers. For example, the starting materials can, e.g., citronellol, prenol, isocitronellol and isoprenol.



21: 2020/00599. 22: 2020/01/29. 43: 2022/06/20 51: A61F

71: Johnson & Johnson Consumer Inc.

72: KULKARNI, Sarika

33: US 31: 62/527,191 32: 2017-06-30

54: FOLDED INDIVIDUAL ARTICLE IN A CIRCULAR PACKAGE 00: -

A packaged elongate sanitary protection product includes a folded sanitary protection product

enveloped in a substantially circular package and having first and second arcuate end portions comprising first and second ends, respectively, separated by a central portion. The topsheet and backsheet are joined in a flange surrounding the absorbent structure, and the absorbent structure comprises at least three intersecting, substantially circular sections aligned along a longitudinal axis. A first circular section is associated with the first arcuate end portion, and a second section is associated with the second arcuate end portion, and a central portion is associated with at least one intervening substantially circular portion. The intersections define folding axes perpendicular to the longitudinal axis and enlarged flange sections of the topsheet and backsheet. The product is folded at the fold lines and the enlarged flange sections are folded inwardly to give the product a generally circular form.



21: 2020/00619. 22: 2020/01/30. 43: 2022/06/24 51: A01N

71: Valent BioSciences LLC

72: HUANG, Zhengyu, BELKIND, Benjamin A., DEVISETTY, Bala N., GANGAVARAPU, Venkat, ZHENG, Zuoxing

33: US 31: 62/345,430 32: 2016-06-03 54: NON-AQUEOUS, NON-OIL LIVE MICROBIAL COMPOSITIONS

00: -

The present invention is directed to non-aqueous, non-oil liquid compositions comprising live microbial organisms and a liquid carrier. The present invention is further directed methods of controlling pests comprising applying an effective amount of a nonaqueous, non-oil liquid composition comprising live microbial organisms and a liquid carrier to an area in need of pest control.

21: 2020/01108. 22: 2020/02/21. 43: 2022/06/17

51: G01N

71: B.R.A.H.M.S. GmbH 72: WILSON, Darius 33: EP(DE) 31: 17190913.8 32: 2017-09-13 54: PCT AND PRO-ADM AS MARKERS FOR MONITORING ANTIBIOTIC TREATMENT 00: -

The invention relates to a method for antibiotic therapy guidance, stratification and/or control in a patient suffering from an infectious disease and receiving treatment with one or more antibiotic agents. In particular, the method comprises isolating a first sample from said patient, isolating a second sample from said patient after isolating the first sample and initiating antibiotic treatment, determining levels of procalcitonin (PCT) or fragment(s) thereof in the first and the second sample, and determining a level of proadrenomedullin (proADM) or fragment(s) thereof in at least the second sample, wherein the levels of PCT or fragment(s) thereof in said first and second samples, and the level of pro ADM or fragment(s) thereof in the second sample, are indicative of whether a change in the treatment with one or more antibiotic agents is required. In a preferred embodiment of the invention, the method comprises additionally determining a level of pro ADM or fragment(s) thereof in the first and second samples. In a preferred embodiment of the invention changes in the pro ADM and PCT levels between the first and second samples indicate a need for changing or maintaining the antibiotic treatment. Furthermore, the invention also relates to a kit for carrying out the method of the present invention.

21: 2020/01339. 22: 2020/03/02. 43: 2021/02/15 51: A01G 71: PARTLOW, Jonathan D 72: PARTLOW, Jonathan D 33: US 31: 62/540,243 32: 2017-08-02 54: METHOD AND APPARATUS FOR GROWING VEGETATION 00: -

A method of growing a single plant in a single growth chamber such that the plant may be continuously harvested with the replacement of a nutrient media in the chamber. The method of growing the single plant comprises the step of positioning an immature portion of a plant in a growth pod. The method also comprises positioning the growth pod in an aperture

of a cap comprising a material that prevents the transmission of light through the cap. The method also comprises supporting the cap on a housing comprising a material that prevents the transmission of light through the housing. The method further comprises placing a liquid nutrient solution in the housing, such the upper surface of the liquid nutrient solution is lower than the lower surface of the growth pod.



21: 2020/01581. 22: 2020/03/13. 43: 2022/06/24
51: A01G; A01N; A01P; C07C; C07H
71: Innovation Hammer LLC
72: NONOMURA, Arthur M.
33: US 31: 62/329,226 32: 2016-04-29
54: FORMULATIONS AND METHODS FOR
TREATING PHOTOSYNTHETIC ORGANISMS
AND ENHANCING QUALITIES AND QUANTITIES
OF YIELDS WITH GLYCAN COMPOSITE
FORMULATIONS

00: -

Glycan Composites and methods for rendering glycan composites for the treatment of photosynthetic organisms, including the steps of formulating branched glycan deglycosylates into coordination complex compositions resulting in water-borne availability; stability during storage; applying a suitable volume of the resulting mixture to one or more photosynthetic organisms; delivery to photosynthetic organisms; metabolically based growth of crops; enhanced qualities and increased quantities of crops; and systems and compositions for the same.



- 21: 2020/01695. 22: 2020/03/18. 43: 2022/06/08 51: B01D; C07K
- 71: Amgen Inc.

72: GEFROH, Eva, SCHWEICKART, Randolph W., PETTY, Krista, FRANK, Gregory, SALSTROM TERPSMA, Christine, HEWIG III, Arthur C., SCHULTZ, Joseph Edward 33: US 31: 61/992,595 32: 2014-05-13 54: PROCESS CONTROL SYSTEMS AND METHODS FOR USE WITH FILTERS AND FILTRATION PROCESSES 00: -

Systems and methods used to control tangential flow filtration are provided, including control systems and methods for use with connected systems with upstream processing units, such as chromatography processing units, in fluid communication with a tangential flow filtration processing unit. Also included are control systems and methods for performing continuous concentration using singlepass tangential flow filtration with permeate flow control.



21: 2020/02044. 22: 2020/05/04. 43: 2022/07/25 51: A61K; C07K; C12N; A61P 71: JOINT STOCK COMPANY "BIOCAD" 72: SOFRONOVA, Ekaterina Vladimirovna, MISORIN, Aleksei Konstantinovich, DORONIN, Aleksandr Nikolaevich, NEMANKIN, Timofey Aleksandrovich, SOZONOVA, Aleksandra Aleksandrovna, ZHIRIVSKAIA, Galina Stepanovna, LEGOTSKY, Sergey Aleksandrovich, VLADIMIROVA, Anna Konstantinovna, BELIASNIKOVA, Alina Valerevna, SHCHEMELEVA, Mariia Aleksandrovna, IAKOVLEV, Pavel Andreevich, SOLOVYEV, Valery Vladimirovich, KRENDELEVA, Elena Andreevna, PESTOVA, Natalia Evgenevna, MOROZOV, Dmitry Valentinovich

33: RU 31: 2017134413 32: 2017-10-03 54: MONOCLONAL ANTIBODY TO IL-5RA 00: -

The present invention relates to the field of bioengineering, and proposes antibodies which bind specifically to IL-5Ra. The invention also relates to DNA that codes for the aforementioned antibodies, to corresponding expression vectors and production methods, and also to treatment methods using said antibodies.

21: 2020/02047. 22: 2020/05/04. 43: 2022/07/25 51: A61K; C07K; C12N; A61P 71: JOINT STOCK COMPANY "BIOCAD" 72: SOLOVYEV, Kirill Vladimirovich, ULITIN, Andrei Borisovich, NEMANKIN, Timofey Aleksandrovich, SOLOVYEV, Valery Vladimirovich, MOROZOV, Dmitry Valentinovich 33: EA 31: 201791961 32: 2017-10-03 54: ANTIBODIES SPECIFIC TO CD47 AND PD-L1

00: -

The present invention relates to the field of bioengineering, specifically to antibodies or their antigen-binding fragments, and to the use thereof. More particularly, the present invention relates to antibodies that bind specifically to CD47 and PD-L1. The invention also relates to a nucleic acid that codes for the given antibody or for the antigenbinding fragment thereof, to an expression vector, to a method of producing the antibody, and to a use of the aforementioned antibodies and compositions in cancer treatment.

21: 2020/02354. 22: 2020/05/04. 43: 2022/06/08 51: H02K

71: HENAN POLYTECHNIC UNIVERSITY, HENAN DONG DI ELECTRIC CO.,LTD 72: Xiaozhuo XU, Baoyu DU, Haichao FENG, Zhen SUN, Han DU, Chengzhe WANG, Xiaoru HAO 33: CN 31: 201910292760.7 32: 2019-04-12 54: COMBINED LOW-COGGING-FORCE PERMANENT MAGNET LINEAR MOTOR AND IMPLEMENTATION METHOD THEREOF 00: -

The present invention discloses a combined lowcogging-force permanent magnet linear motor and an implementation method thereof. The linear motor includes a primary and a secondary; the primary consists of a primary core and an armature winding, the armature winding being wound around a teeth of the primary core; the secondary is closely assembled by at least one set of master and slave secondary modules; a single secondary module consists of a permanent magnet and a secondary yoke plate; respective secondary modules have the same number of permanent magnet poles, and the permanent magnet poles in the respective secondary modules have different widths; the master secondary module and the slave secondary module matched thereto are combined in a building block form along a moving direction of the secondary. The present invention has the beneficial effect of remarkably reducing a total cogging force without reducing the utilization rate of the magnet.



21: 2020/02512. 22: 2020/05/07. 43: 2022/07/25 51: E04H 71: COCHRANE GULF FZE 72: BUCARIZZA, Vlado 33: ZA 31: 2019/02404 32: 2019-05-16

54: SHAPED FENCE

00: -

An infill fence panel which includes a body which is made from a mesh material and which has a first edge and a second edge which opposes the first edge and which forms an included angle, which is acute, with the first edge so that the body, from one side, has a wedge shape, and wherein the first edge is located on, and is fixed to, an upper edge of a primary panel which is of rectangular form and made from a mesh material.



21: 2020/02517. 22: 2020/05/07. 43: 2022/06/29 51: A61K; C07H; C12N; A61P 71: IONIS PHARMACEUTICALS, INC. 72: KORDASIEWICZ, Holly, SINGH, Priyam, FREIER, Susan, M., COLE, Tracy, A 33: US 31: 62/584,009 32: 2017-11-09 54: COMPOUNDS AND METHODS FOR REDUCING SNCA EXPRESSION 00: -

Provided are compounds, methods, and pharmaceutical compositions for reducing the amount or activity of SNCA mRNA in a cell or animal, and in certain instances reducing the amount of alpha-synuclein protein in a cell or animal. Such compounds, methods, and pharmaceutical compositions are useful to ameliorate at least one symptom or hallmark of a neurodegenerative disease. Such symptoms and hallmarks include motor dysfunction, aggregation of alpha-synuclein, neurodegeneration, cognitive decline and dementia. Such neurodegenerative diseases include Parkinson's disease, dementia withLewy bodies, diffuse Lewy body disease, pure autonomic failure, multiple system atrophy, neuronopathic Gaucher's disease and Alzheimer's disease.

21: 2020/02874. 22: 2020/05/18. 43: 2022/06/24
51: A24D; B65B; B65D
71: British American Tobacco Mexico, S.A. DE C.V.
72: ARREDONDO, Lucio
54: A METHOD OF FORMING GROUPS OF
SMOKING ARTICLES

00: -

A method of forming groups of smoking articles so that each group forms an individual bundle of smoking articles for receipt in a respective smoking article pack is disclosed. The method includes supplying a receptacle of an apparatus for forming groups of smoking articles with different types of smoking articles such that they mix in the receptacle and each group is formed from the mixture of different types of smoking articles by said apparatus. An apparatus for forming groups of smoking articles and a multipack comprising a plurality of smoking article packs is also disclosed.



21: 2020/03174. 22: 2020/05/28. 43: 2022/06/24 51: B02C 71: Metso Sweden AB 72: URBINATTI, Victor G., PERSSON, Henrik,

LARSSON, Fredrik 54: CRUSHER COMPRISING REPLACEABLE PROTECTIVE LINERS

00: -

A crusher comprises at least one protective liner (10, 20, 80) which is releasably fitted within the crusher so as to protect a structural element of the crusher which is subject to wear due to its contact with material passing the crushing gap (G), at least a part of an outwardly directed surface of the protective liner (10, 20, 80) constituting a wear surface. The at least one protective liner (10, 20, 80) comprises an elastic material layer (16) and wear resistant inserts (18) retained by the elastic material layer (16), wherein outwardly directed surfaces of the wear resistant inserts (18) form part of the wear surface of the protective liner (10, 20, 80).



21: 2020/03175. 22: 2020/05/28. 43: 2022/06/24 51: A61M

71: Elanco US, Inc., Bovicor Pharmatech Inc. 72: MARR, Amy L., HILL, Jeffrey K., STRANGE, Casey J., MILLER, Christopher C., OWENS, Jane G., WALN, Randall L., REGEV-SHOSHANI, Gilly, STENZLER, Alex, HAN, Steve 33: US 31: 62/364,808 32: 2016-07-20

54: ANIMAL INTRANASAL ADMINISTRATION DEVICE, SYSTEMS, AND ASSOCIATED METHODS

00: -

A veterinary subject intranasal administration device, and associated systems and methods, are disclosed. The veterinary subject intranasal administration device can include a first support member portion including a septum interface portion

sized for insertion into a nasal passage of the veterinary subject; an actuation mechanism connected to the first support member portion; and a fluid conduit having a distal end opposite a supported end, the distal end sized for insertion into the nasal passage of the veterinary subject, the fluid conduit being flexible and configured to receive fluid from a fluid source and discharge the fluid through the distal end into the nasal passage, the distal end of the fluid conduit being unsupported and movable relative to the septum interface portion.



21: 2020/03464. 22: 2020/06/09. 43: 2022/08/11 51: A47J

71: DUMINY, Johannes Jacobus van Oosterzee 72: DUMINY, Johannes Jacobus van Oosterzee 33: ZA 31: 2019/03692 32: 2019-06-10 54: GRILL ACCESSORY

54: GRILL ACCES

00: -

A grill accessory comprising: at least one skewer having a first extremity opposite a second extremity, the first extremity being preferably pointed for piercing one or more cuts of meat to accommodate same on the skewer; at least two stays, each being provided with at least one aperture through which the at least one skewer can project, the aperture extending from an inwardly directed face to an outwardly directed face of each of the respective stays; and clamping means for clamping the one or more cuts of meat between the inwardly directed faces of the at least two stays on the at least one skewer. The invention extends to a stay and a method of use.



- 21: 2020/03612. 22: 2020/06/17. 43: 2022/06/24 51: C07K
- 71: Universitetet i Oslo

72: FOSS, Stian, ANDERSEN, Jan Terje, SANDLIE, Inger

33: US 31: 62/307,686 32: 2016-03-14 54: ENGINEERED IMMUNOGLOBULINS WITH ALTERED FCRN BINDING 00: -

The present invention relates to compositions and methods for antibody-mediated therapy. In particular, provided herein are engineered immunoglobulins with altered half-life.

21: 2020/03641. 22: 2020/06/17. 43: 2022/06/02 51: C07K; A61K; A61P 71: HARBOUR BIOMED (SHANGHAI) CO., LTD 72: GAN, XIN, HE, YUN, SHEN, YUQIANG, ZHAO, JIUQIAO, RONG, YIPING, GROSVELD, FRANK, DRABEK, DUBRAVKA, VAN HAPEREN, MARINUS (RIEN), JANSSENS, RICK 33: US 31: 62/607,917 32: 2017-12-20 54: ANTIBODIES BINDING CTLA-4 AND USES

54: ANTIBODIES BINDING CTLA-4 AND USES THEREOF

00: -

Disclosed are isolated monoclonal antibodies, comprising a CD152-binding domain, wherein the antibodies bind specifically to human CD152. Methods of making and using the antibodies to treat diseases including cancers and autoimmune diseases are also provided.

21: 2020/03643. 22: 2020/06/17. 43: 2022/06/14 51: C12N

71: FARMHANNONG CO., LTD.

72: SUNG, SOON-KEE, YOON, JOONSEON, HONG, MYOUNG-KI, AHN, YOUNG OCK, WOO, JOO YONG, HAN, YUNJUNG, PARK, JOONGHYUK 33: KR 31: 10-2017-0173634 32: 2017-12-15

54: COMPOSITION AND METHOD FOR CONFERRING AND/OR ENHANCING TOLERANCE AGAINST HERBICIDES BY USING VARIANTS OF PPO

00: -

Provided is a technology for conferring more enhanced tolerance of plants and/or algae against herbicides and/or more greatly enhancing tolerance by using amino acid variants of protoporphyrinogen IX oxidases derived from microorganisms.



21: 2020/03661. 22: 2020/06/18. 43: 2022/06/14 51: A63G; C02F; E04H 71: CRYSTAL LAGOONS TECHNOLOGIES, INC. 72: FISCHMANN TORRES, FERNANDO BENJAMIN 33: US 31: 62/625,182 32: 2018-02-01

33: US 31: 62/639,211 32: 2018-03-06 33: US 31: 15/990,141 32: 2018-05-25 54: A PUBLICLY ACCESSIBLE URBAN BEACH ENTERTAINMENT COMPLEX WITH A CENTERPIECE MAN-MADE TROPICAL-STYLE LAGOON AND METHOD FOR PROVIDING EFFICIENT UTILIZATION OF LIMITED USE LAND 00: -

A publicly accessible urban beach entertainment complex is disclosed, with a man-made tropical, pristine-clear lagoon as the centerpiece of the complex, with surrounding entertainment, educational, sports, and commercial facilities, the complex having controlled public access and providing the look and feel of a tropical beach with clear waters and sandy beaches. In addition a method for efficiently utilizing facilities and land that are vacant, underutilized, have limited uses, or that are contiguous to or nearby recreational, educational, sports, or commercial venues is disclosed. The method providing a publicly accessible urban beach entertainment complex with a centerpiece man-made tropical-style pristine-clear lagoon. The method allows for generating revenue and increasing efficiency by pairing vacant sites, underutilized sites, limited use land, or sites that are contiguous to entertainment, educational, sports, and/or commercial venues with urban beach entertainment complexes. The complex preferably has a controlled public access, thereby allowing entrance upon payment of a fee.



21: 2020/03662. 22: 2020/06/18. 43: 2022/06/14 51: A61K; A61P; C07D 71: THE SALK INSTITUTE FOR BIOLOGICAL STUDIES, MITOBRIDGE, INC. 72: DOWNES, MICHAEL, EVANS, RONALD M, KLUGE, ARTHUR, LAGU, BHARAT, MIURA, MASANORI, PANIGRAHI, SUNIL KUMAR, PATANE, MICHAEL, SAMAJDAR, SUSANTA, SENAIAR, RAMESH, TAKAHASHI, TAISUKE 33: US 31: 62/243,263 32: 2015-10-19 33: US 31: 62/352,348 32: 2016-06-20 33: US 31: 62/238,629 32: 2015-10-07 54: PPAR AGONISTS, COMPOUNDS, PHARMACEUTICAL COMPOSITIONS. AND METHODS OF USE THEREOF 00. -

Provided herein are compounds I, II or III and compositions useful in increasing PPAR8 activity. The compounds and compositions provided herein

are useful for the treatment of PPAR8 related diseases (e.g., muscular diseases, vascular disease, demyelinating disease, and metabolic diseases).



21: 2020/03663. 22: 2020/06/18. 43: 2022/06/14 51: A61K; A61P; C07D

71: THE SALK INSTITUTE FOR BIOLOGICAL STUDIES, MITOBRIDGE, INC. 72: DOWNES, MICHAEL, EVANS, RONALD M, KLUGE, ARTHUR, LAGU, BHARAT, MIURA, MASANORI, PANIGRAHI, SUNIL KUMAR, PATANE, MICHAEL, SAMAJDAR, SUSANTA, SENAIAR, RAMESH, TAKAHASHI, TAISUKE 33: US 31: 62/243,263 32: 2015-10-19 33: US 31: 62/243,263 32: 2015-10-19 33: US 31: 62/238,629 32: 2015-10-07 54: PPAR AGONISTS, COMPOUNDS, PHARMACEUTICAL COMPOSITIONS, AND METHODS OF USE THEREOF 00: -

Provided herein are compounds I, II or III and compositions useful in increasing PPAR8 activity. The compounds and compositions provided herein are useful for the treatment of PPAR8 related diseases (e.g., muscular diseases, vascular disease, demyelinating disease, and metabolic diseases).



21: 2020/03664. 22: 2020/06/18. 43: 2022/06/14 51: A61K; A61P; C07D 71: THE SALK INSTITUTE FOR BIOLOGICAL STUDIES, MITOBRIDGE, INC. 72: DOWNES, MICHAEL, EVANS, RONALD M, KLUGE, ARTHUR, LAGU, BHARAT, MIURA, MASANORI, PANIGRAHI, SUNIL KUMAR. PATANE, MICHAEL, SAMAJDAR, SUSANTA, SENAIAR, RAMESH, TAKAHASHI, TAISUKE 33: US 31: 62/243,263 32: 2015-10-19 33: US 31: 62/352,348 32: 2016-06-20 33: US 31: 62/238,629 32: 2015-10-07 54: PPAR AGONISTS, COMPOUNDS, PHARMACEUTICAL COMPOSITIONS, AND **METHODS OF USE THEREOF** 00: -

Provided herein are compounds I, II or III and compositions useful in increasing PPAR8 activity. The compounds and compositions provided herein are useful for the treatment of PPAR8 related diseases (e.g., muscular diseases, vascular disease, demyelinating disease, and metabolic diseases).



- 21: 2020/03686. 22: 2020/06/18. 43: 2022/06/14
- 51: C25B; C02F
- 71: INDUSTRIE DE NORA S.P.A.
- 72: RAMUNNI, ANNA, TIMPANO, FABIO

Page | 213

33: IT 31: 102018000003533 32: 2018-03-14 54: ELECTRODE FOR ELECTROCHLORINATION PROCESSES

00: -

The present invention relates to an electrode for electrochlorination processes, optionally operable under polarity reversal conditions, comprising an active layer provided with a doped Ru-Ti catalytic composition.

21: 2020/03742. 22: 2020/06/22. 43: 2022/06/17 51: A61K; A61P; C07K

71: Merck Sharp & Dohme Corp.

72: LIANG, Linda, FAYADAT-DILMAN, Laurence, MALEFYT, Rene De Waal, RAGHUNATHAN, Gopalan

33: US 31: 62/039,081 32: 2014-08-19 54: ANTI-LAG3 ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS

00: -

The present invention includes antibodies and antigen-binding fragments thereof that specifically bind to human or cynomolgous monkey LAG3 as well as immunoglobulin chains thereof and polynucleotides encoding the same along with injection devices comprising such antibodies or fragments. Vaccines including such antibodies and fragments as well as compositions comprising the antibodies and fragments (e.g., including anti-PD1 antibodies) are included in the invention. Methods for treating or preventing cancer or infection using such compositions are also provided. In addition, methods for recombinant expression of the antibodies and fragments are part of the present invention.



21: 2020/04116. 22: 2020/07/06. 43: 2022/08/04 51: E04C; E04G

71: Jiangsu Ernest Technology Co Ltd, Ernest Comerford

72: Ernest Comerford

33: AU 31: 2017904895 32: 2017-12-05 54: A CONCRETE STARTER BAR RETENTION AND LOCATING DEVICE, SYSTEMS AND METHODS COMPRISING THE SAME 00: -

A concrete starter bar retention and locating device(10), more specifically, a starter bar retention device(10) that is configured to receive and engage with a bar coupler(100) attached to a starter bar of a first concrete element. The configuration of the device assists in locating and accessing the starter bar coupler(100) following casting of the first concrete element.

21: 2020/04231. 22: 2020/07/10. 43: 2022/08/11 51: A63B 71: LIEBENBERG, Etienne, NEETHLING, Henri, VAN DER WATT, Christo 72: LIEBENBERG, Etienne, NEETHLING, Henri, VAN DER WATT, Christo 33: ZA 31: 2019/04563 32: 2019-07-12

54: GOLF ACCESSORY

00: -

A golf accessory is disclosed, having a multifunctional purpose for use by a golfer, golf coach, or trainee during tee-off and putting operations, the accessory comprising an elongate body defining a player facing upper surface and a ground facing lower surface, which surfaces extend lengthwise between a front portion, having a direction indicator for indicating the preferred direction towards which a golf ball is to be driven; and a rear portion, curved to snugly seat and accommodate the curvature of a golf ball placed adjacent said rear portion during a putting operation. The invention extends to a golf kit including ubiquitous golf gear and said golf accessory. The invention further relates to a method of manufacturing the golf accessory.



21: 2020/04654. 22: 2020/07/27. 43: 2022/06/20 51: A47C 71: MADAD (PTY) LTD

72: JUST, Morrison, GREEN, Daniel, DEMOSS, Larry, TAR, Kevin, MANUSZAK, Brian 33: US 31: 62/628,779 32: 2018-02-09 54: WIRE COIL AND INNERSPRING SYSTEM 00: -

A wire coil for use in an innerspring enables improved support and reduced distortion during compression. The coil comprises: a plurality of helical turns that form a helical coil body about a longitudinal axis of the coil, and which helical turns define a helical turn radius; a first coil end extending from one end of the helical coil body; and a second coil end extending from an opposite end of the helical coil body; wherein at least one of the first coil end and the second coil end include one or more touch points defined by both a first portion extending a distance from the longitudinal axis of the coil that is greater than the helical turn radius, and a second portion extending a distance from the longitudinal axis of the coil that is less than the helical turn radius.



21: 2020/04707. 22: 2020/07/29. 43: 2022/06/20 51: A61N 71: NEOTHERMA ONCOLOGY, INC. 72: ANDERSON, CHARLES, ILISIU, ANNA-MARIA 33: US 31: 62/614,993 32: 2018-01-08 54: SYSTEMS, METHODS AND APPARATUS FOR

STEERING OF ENERGY DEPOSITION IN DEEP REGIONAL HYPERTHERMIA 00: -

The present invention provides, inter alia, apparatus and systems for generating multiple H-fields to additively combine and control deep E-field generation resulting in clinically acceptable centralized heating, and methods for inducing locoregional hyperthermia in a subject using the same. The methods, systems and apparatus disclosed herein provide improved hyperthermia treatment to subjects in need thereof, such as, for example, subjects suffering from cancer.



21: 2020/04757. 22: 2020/07/31. 43: 2022/06/17 51: C07K

71: Ablynx NV

72: BUYSE, Marie-Ange, BOUTTON, Carlo 33: US 31: 61/994,552 32: 2014-05-16 54: IMPROVED IMMUNOGLOBULIN VARIABLE DOMAINS

00: -

VH domain, in which: (i) the amino acid residue at position 1 12 is one of K or Q; and/or (ii) the amino acid residue at position 89 is T; and/or (iii) the amino acid residue at position 89 is L and the amino acid residue at position 1 10 is one of K or Q; and (iv) in each of cases (i) to (hi), the amino acid at position 1 1 is preferably V; and in which said VH domain contains a C-terminal extension (X)n, in which n is 1 to 10, preferably 1 to 5, such as 1, 2, 3, 4 or 5 (and preferably 1 or 2, such as 1); and each X is an (preferably naturally occurring) amino acid residue that is independently chosen, and preferably independently chosen from the group consisting of alanine (A), glycine (G), valine (V), leucine (L) or isoleucine (I).

21: 2020/04758. 22: 2020/07/31. 43: 2022/06/17 51: C07K

71: Ablynx NV

72: BUYSE, Marie-Ange, BOUTTON, Carlo 33: US 31: 61/994,552 32: 2014-05-16 54: IMPROVED IMMUNOGLOBULIN VARIABLE DOMAINS

00: -

VH domain, in which: (i) the amino acid residue at position 1 12 is one of K or Q; and/or (ii) the amino acid residue at position 89 is T; and/or (iii) the amino

acid residue at position 89 is L and the amino acid residue at position 1 10 is one of K or Q; and (iv) in each of cases (i) to (hi), the amino acid at position 1 1 is preferably V; and in which said VH domain contains a C-terminal extension (X)n, in which n is 1 to 10, preferably 1 to 5, such as 1, 2, 3, 4 or 5 (and preferably 1 or 2, such as 1); and each X is an (preferably naturally occurring) amino acid residue that is independently chosen, and preferably independently chosen from the group consisting of alanine (A), glycine (G), valine (V), leucine (L) or isoleucine (I).

21: 2020/04759. 22: 2020/07/31. 43: 2022/06/17 51: C07K

71: Ablynx NV

72: BUYSE, Marie-Ange, BOUTTON, Carlo 33: US 31: 61/994,552 32: 2014-05-16 54: IMPROVED IMMUNOGLOBULIN VARIABLE DOMAINS

00: -

VH domain, in which: (i) the amino acid residue at position 1 12 is one of K or Q; and/or (ii) the amino acid residue at position 89 is T; and/or (iii) the amino acid residue at position 89 is L and the amino acid residue at position 1 10 is one of K or Q; and (iv) in each of cases (i) to (hi), the amino acid at position 1 1 is preferably V; and in which said VH domain contains a C-terminal extension (X)n, in which n is 1 to 10, preferably 1 to 5, such as 1, 2, 3, 4 or 5 (and preferably 1 or 2, such as 1); and each X is an (preferably naturally occurring) amino acid residue that is independently chosen, and preferably independently chosen from the group consisting of alanine (A), glycine (G), valine (V), leucine (L) or isoleucine (I).

21: 2020/04893. 22: 2020/08/07. 43: 2022/06/17 51: B82B; B82Y; C12N; H01L 71: Global Orthopaedic Technology Pty Limited 72: JUODKAZIS, Saulius, IVANOVA, Elena 33: AU 31: 2013903399 32: 2013-09-05 54: MATERIALS 00: -

The invention relates to materials that exhibit biocidal activity and in particular to surfaces that exhibit novel surface topography that is lethal to cells on contact. The invention also relates to devices comprising such surfaces, to methods of producing
the surfaces and to methods of eliminating or reducing cellular survival wherein cells are exposed to the surfaces. In particular the invention relates to a synthetic biocidal surface comprising an array of nanospikes that are lethal to cells on said surface due to piercing of cell membranes by said nanospikes and to a method of producing a synthetic biocidal surface comprising an array of nanospikes that are lethal to cells on said surface due to piercing of cell membranes by said nanospikes, which comprises exposing a silicon comprising substrate surface to reactive-ion etching.





(e)



(f)

72 ± 11 nm

33: US 31: 16/274.242 32: 2019-02-02

54: A METHOD AND AN APPARATUS FOR SEARCHING OR COMPARING SITES USING

ROUTES OR ROUTE LENGTHS BETWEEN SITES AND PLACES WITHIN A TRANSPORTATION SYSTEM

00: -

Embodiments relate to searching or comparing sites. One embodiment is a real estate search-or-compare method based on commute durations. The method efficiently processes public transportation and real estate property data to compute the durations of travel between the real estate properties and the vehicle stops. These durations are stored. A request framework is introduced that allows to express a wide range of search-or-compare requests. During request processing, the method identifies parts of the commute paths that depend on any real estate property. Because durations for these parts were precomputed and stored, the method can determine commute durations to every real estate property in a scalable manner. As a result, the method rapidly responds to requests within the real estate market of one of the largest metropolitan areas in existence today. Other embodiments in-elude: searching or comparing based on a monetary cost, transportation using private cars, and sites other than real estate properties. A computer system and a computer service also embody the method.



21: 2020/05133. 22: 2020/08/19. 43: 2022/07/21
51: F03B; H02K
71: Tianjin Research Institute for Water Transport Engineering , Ministry of Transport
72: YANG, Zhiwen, XIE, Mingxiao, HOU, Zhiqiang, ZHANG, Yifeng, CUI, Cheng
33: CN 31: 201910763323 .9 32: 2019-08-20
54: DEVICE AND SYSTEM FOR GENERATING POWER BY MEANS OF WAVE ENERGY
00: The present invention provides a device and system

for generating power by means of wave energy. The

device includes a plurality of sheets; an energy conversion unit between every two adjacent sheets includes a sleeve, a rotating rod, and an electric generator, where the sleeve is connected to one sheet, and the electric generator is connected to another sheet adjacent to the sheet; and the rotating rod has one end rotationally connected into the sleeve and the other end rotationally connected to a rotating shaft of the electric generator. Such sheets can float on the sea surface; every two adjacent sheets open and close when swinging with waves, in this case, the rotating rod moves opposite to the corresponding sleeve and thus drives the rotating shaft of the corresponding electric generator to rotate; and in this way, wave energy is converted into electric energy.



21: 2020/05145. 22: 2020/08/19. 43: 2022/06/10 51: D21C; D21H

71: BUCKMAN LABORATORIES INTERNATIONAL, INC.

72: HOEKSTRA, Philip M., HANUMANSETTY, Srinivas

33: US 31: 62/643,224 32: 2018-03-15 33: US 31: 62/702,395 32: 2018-07-24 54: METHOD AND SYSTEM FOR PRODUCING MARKET PULP AND PRODUCTS THEREOF 00: -

Methods and systems are provided for producing market pulp which include treatment of pulp before pulp drying. An anionically charged compound and enzyme are used to treat pulp before pulp drying to improve pulp dewatering performance and efficiency in the production of market pulp. Market pulp products containing the treatment compounds are also described.



21: 2020/05191. 22: 2020/08/20. 43: 2022/06/10 51: F21S; G08B

71: NAPIORKOWSKI, Stanislaw

72: NAPIORKOWSKI, Stanislaw

33: EP 31: 18461521.9 32: 2018-02-23

54: BABY MONITOR ASSEMBLY

00: -

The object of the invention is a baby monitor assembly, comprising an emitter unit and a receiver unit, wherein the emitter unit comprises: - means for sound detection, preferably a microphone, - means for communication with the receiver unit, preferably means for wireless communication, especially via WiFi or Bluetooth, - a generally flat housing (10, 30), having a slit (13) near it's periphery, - a source of light, preferably LED diodes, wherein the receiver unit comprises: - means for communication with the emitter unit, preferably means for wireless communication, especially via WiFi or Bluetooth, signalizing means, preferably suitable for emitting light, sound or vibration signals wherein the emitter unit is suitable and configured for placing under baby's crib, bed or the like, and is capable of detecting sounds generated by the baby, and sending information to the receiver unit upon detection of predetermined type of noise, wherein the receiver unit is suitable and configured for receiving information from the emitter unit and notifying the parent, preferably by using light, sound or vibration signals, upon receiving information from the emitter unit, characterized in that the slit (13) in the emitter unit's housing (10, 30) allows for passage of light from the source of light located in the housing (10, 30), and is configured for emitting the light beam selectively essentially parallel to the floor, so that the

light beam neither shines directly nor reflects into the eyes of the baby and the user.



21: 2020/05222. 22: 2020/08/21. 43: 2022/06/10 51: A61K; A61Q

71: L'OREAL

72: GREGOLIN, Marina Tavares, CARVALHO, Pedro Henrique, CHAUMONTET, Manon, VOISON, Sébastien, JOUY, Chantal

54: HAIR TREATMENT COMPOSITIONS COMPRISING REDUCING AGENTS

00: -

The present disclosure relates to hair treatment compositions comprising: (a) at least one reducing agent selected from thiol-based compounds, nonthiol-based compounds, and mixtures thereof; (b) at least one non-polymeric and non-thiol, mono-, di-, and/or tri-carboxylic acid, and/or a salt thereof; (c) at least one alkaline agent; and (d) optionally, at least one cationic surfactant; wherein the pH of the composition is from about 2 to less than 7. The disclosure also relates to methods for imparting hair care benefits to the hair such as straightening effects, volume reduction, frizz control, manageability, cosmeticity and smooth feel, in addition to conditioning benefits.



21: 2020/05372. 22: 2020/08/28. 43: 2022/06/29 51: G06F; G06Q 71: MEEDER (PTY) LTD. 72: NOTHNAGEL, JUSTIN LOURENS, STRUTHERS, QUINELL 33: ZA 31: 2019/05721 32: 2019-08-30 54: PAYMENT SYSTEM AND METHOD 00: -

The invention relates to a payment method and system. The method includes receiving a payment request, via USSD communication. The payment request is for a payor to pay a recipient a payment amount/ The method then includes generating, by using a processor, a one-time PIN (OTP) for the payment request and sending the OTP via wireless communication to a mobile communication device associated with the payor. The method further includes receiving an identifier (e.g. a code/pin) from the recipient via a communication network and subsequently checking whether the identifier matches the OTP. If it matches, the method includes transferring a transfer amount from an account associated with the payor to an account associated with the recipient, wherein the transfer amount is associated with the payment amount.



21: 2020/05389. 22: 2020/08/28. 43: 2022/06/10 51: B01D; F24F 71: SECOND NATURE BRANDS, INC. 72: BARRY, Kevin James, TARKINGTON, Thaddeus Worth, KHALIFA, Aly 33: US 31: 62/636,581 32: 2018-02-28 33: US 31: 62/694,091 32: 2018-07-05

54: VARIABLE AIR FILTER ASSEMBLIES 00: -

An air filter assembly includes a filter element having at least one variable dimension, and a frame for engaging and supporting the filter element. The frame may include a plurality of linear segments forming a rectangular configuration, and a plurality of clips for connecting the linear segments together at corners thereof. The linear segments may be Lchannel segments, C-channel segments, or may be of other form. Clips may be used for connecting the linear segments together at the corners. The filter element may have a pattern of creases or fold lines to facilitate folding thereof from an expanded configuration to a reduced configuration. A grate may be included for spanning an area bounded by the frame to support the filter element. The grate may have multiple arms and a central hub. An edge treatment may form a seal between the filter element and the frame.



21: 2020/05485. 22: 2020/09/02. 43: 2022/07/21 51: C09K; E02D; E21B; G01N 71: Anhui University Of Science & Technology 72: Shengquan ZHOU, Rui WANG, Dongwei LI, Yongfei ZHANG, Wei CHEN, Minjie SHI, DAWEI

ZHOU 54: COMBINED MEASURING DEVICE FOR LOAD-FREE EXPANSION RATE AND EXPANSIVE FORCE OF EXPANSIVE SOIL 00: -

The invention discloses a combined measuring device for the load-free expansion rate and expansive force of expansive soil, comprising a sample device, a testing device for load-free expansion rate and expansive force. The sample device comprises an enclosure and a porous base. The test device for load-free expansion rate and expansive force comprises a deformation test device and a force test device. The environment control device comprises a humidity control device and a temperature control device. The deformation test device comprises a pressure plate, a dial indicator, and a cantilever frame; the expansive force test device comprises a dynamometer and a cantilever frame; the control device comprises a temperature controller and a humidity controller. The sample is placed on the porous stone, and the temperature and humidity controllers are controlled to measure the load-free expansion rate and expansive force. The invention is capable of measuring the expansive force while effectively testing the load-free expansion rate of expansive soil, so as to improve the efficiency of expansive soil test.



21: 2020/05649. 22: 2020/09/11. 43: 2022/06/10 51: F16L

71: VICTAULIC COMPANY

72: BOWMAN, Matthew A., BANCROFT, Philip Wayne, MADARA, Scott D., YOVANOVICH, Kathryn, SAVAGE, Thomas C. 33: US 31: 62/336,885 32: 2016-05-16 33: US 31: 62/336,879 32: 2016-05-16 54: SPRUNG COUPLING 00: -

A preassembled combination for connecting a captured pipe element to a second pipe element includes a plurality of segments attached to one another end to end to form a loop around a central space. A ring seal is positioned in channels defined by the segments. The captured pipe element has a first end positioned in the central space. The coupling is configured such that once the end of the second pipe element is inserted into the central space the segments can be drawn toward one another to join the second pipe element with the captured pipe element. A method of manufacturing the combination includes the steps of engaging a ring seal with a pipe element, positioning the ring seal in a channel of the segments and attaching the segments to one another.



21: 2020/05650. 22: 2020/09/11. 43: 2022/06/10 51: F16L 71: VICTAULIC COMPANY

72: BOWMAN, Matthew A., BANCROFT, Philip Wayne, MADARA, Scott D., YOVANOVICH, Kathryn, SAVAGE, Thomas C. 33: US 31: 62/336,885 32: 2016-05-16 33: US 31: 62/336,879 32: 2016-05-16 54: SPRUNG COUPLING 00: -

A preassembled combination connects a captured pipe element to a second pipe element. First and second segments are connected end to end surrounding a central space for axially receiving the second pipe element. The segments are configured to be drawn toward one another and into engagement with the pipe elements. An annular body forms the captured pipe element. An end face of the captured pipe element is retained within the central space by engagement between a bead projecting from a sealing surface of the captured pipe element and the coupling assembly.



21: 2020/05652. 22: 2020/09/11. 43: 2022/06/10 51: F16L

71: VICTAULIC COMPANY

72: BOWMAN, Matthew A., BANCROFT, Philip Wayne, MADARA, Scott D., YOVANOVICH, Kathryn, SAVAGE, Thomas C. 33: US 31: 62/336,885 32: 2016-05-16 33: US 31: 62/336,879 32: 2016-05-16 54: SPRUNG COUPLING 00: -

A coupling has first and second segments attached to one another end to end surrounding a central space for receiving pipe elements. A spring assembly attaches the segments to one another at a first end and an adjustable attachment assembly attaches the segments to one another at a second end opposite to the first end. The spring assembly cooperates with the attachment assembly to bias the second ends of the segments away from one another sufficient to permit insertion of the pipe elements into the central space while segments are attached to one another.



21: 2020/05655. 22: 2020/09/11. 43: 2022/05/04 51: A61L 71: RUAHAN NAUDE 72: RUAHAN NAUDE 33: ZA 31: 2019/03719 32: 2019-06-11 54: SANITISER 00: -

This invention relates to a sanitiser and more particularly, but not exclusively, to a finger sanitiser for sanitising at least part of a finger. The sanitiser has a container body with a closure means that is movable from a closed position to an open position to selectively expose a sanitiser applicator means.



21: 2020/05981. 22: 2020/09/28. 43: 2022/07/25 51: A01N; C07K; C12N

71: PIONEER HI-BRED INTERNATIONAL, INC. 72: BARRY, Jennifer Kara, DONG, Hua, GERBER, Ryan Michael, PETERSON-BURCH, Brooke, SCHEPERS, Eric, WOLFE, Thomas Chad, XIE, Weiping, YALPANI, Nasser, ZHONG, Xiaohong 33: US 31: 62/642,644 32: 2018-03-14 54: INSECTICIDAL PROTEINS FROM PLANTS AND METHODS FOR THEIR USE

00: -

Compositions and methods for controlling pests are provided. The methods involve transforming organisms with a nucleic acid sequence encoding an insecticidal protein. In particular, the nucleic acid sequences are useful for preparing plants and microorganisms that possess insecticidal activity. Thus, transformed bacteria, plants, plant cells, plant tissues and seeds are provided. Compositions are insecticidal nucleic acids and proteins of bacterial species. The sequences find use in the construction of expression vectors for subsequent transformation into organisms of interest including plants, as probes for the isolation of other homologous (or partially homologous) genes. The pesticidal proteins find use in controlling, inhibiting growth or killing Lepidopteran, Coleopteran, Dipteran, fungal, Hemipteran and/or nematode pest populations and for producing compositions with insecticidal activity.





21: 2020/05982. 22: 2020/09/28. 43: 2022/07/25 51: A01N; C07K; C12N

71: PIONEER HI-BRED INTERNATIONAL, INC., HEXIMA LIMITED

72: LIU, Lu, LUM, Amy, ONG, Azalea S., SCHEPERS, Eric, UDRANSZKY, Ingrid, ZHONG, Xiaohong

33: US 31: 62/642,642 32: 2018-03-14 54: INSECTICIDAL PROTEINS FROM PLANTS AND METHODS FOR THEIR USE 00: -

Compositions and methods for controlling pests are provided. The methods involve transforming organisms with a nucleic acid sequence encoding an insecticidal protein. In particular, the nucleic acid sequences are useful for preparing plants and microorganisms that possess insecticidal activity. Thus, transformed bacteria, plants, plant cells, plant tissues and seeds are provided. Compositions are insecticidal nucleic acids and proteins of bacterial species. The sequences find use in the construction of expression vectors for subsequent transformation into organisms of interest including plants, as probes for the isolation of other homologous (or partially homologous) genes. The pesticidal proteins find use in controlling, inhibiting growth or killing Lepidopteran, Coleopteran, Dipteran, fungal, Hemipteran and nematode pest populations and for producing compositions with insecticidal activity.



21: 2020/06156. 22: 2020/10/05. 43: 2022/07/21 51: B01J; C10G 71: NANJING YANCHANG REACTION TECHNOLOGY RESEARCH INSTITUTE CO., LTD. 72: ZHANG, Zhibing, ZHOU, Zheng, MENG, Weimin, ZHANG, Feng, LI, Lei, WANG, Baorong, YANG, Gaodong, LUO, Huaxun, YANG, Guoqiang, TIAN, Hongzhou, CAO, Yu

33: CN 31: 201910196587.0 32: 2019-03-15 54: MICRO-INTERFACE STRENGTHENING REACTION SYSTEM AND METHOD FOR PREPARING SHIP FUEL BY MEANS OF HEAVY OIL HYDROGENATION

00: -

A micro-interface strengthening reaction system and method for preparing a ship fuel by means of heavy oil hydrogenation, comprising: a liquid phase feeding unit (1), a gas phase feeding unit (2), a microinterface reactor (3), a fixed bed reactor (4), and a separation tank (5). Gas is crushed to form micrometer-sized micro bubbles, and the bubbles are mixed with a heavy oil to form an emulsion, thereby increasing the interphase area of gas phase and liquid phase.



21: 2020/06157. 22: 2020/10/05. 43: 2022/06/10 51: A61K; A61P

71: JIANGSU HENGRUI MEDICINE CO., LTD., SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., SUNCADIA PHARMACEUTICALS CO., LTD 72: TONG, Xinyong, ZOU, Aifeng, ZHOU, Yin, FAN, Yi, TAO, Weikang

33: CN 31: 201810469196.7 32: 2018-05-16 54: PHARMACEUTICAL COMPOSITION OF KOR RECEPTOR AGONIST

00: -

Disclosed in the present invention is a pharmaceutical composition of a KOR receptor agonist, which comprises 4-amino-N-[N2-[N-[N-[N-((R)-2-phenyl propyl)glycyl]-D-phenylalanyl]-Dleucyl]-D-lysyl]piperidine-4-carboxylic acid or available salts thereof, and an acetate buffer solution.

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21: 2020/06445. 22: 2020/10/16. 43: 2022/06/20
51: C07C; C10G; F25J
71: LINDE GMBH
72: HÖFEL, Torben, PHAM DUC, Tuat
33: EP 31: 18166161.2 32: 2018-04-06
54: METHOD FOR SEPARATING A COMPONENT
MIXTURE AND SEPARATING DEVICE
00: -
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The invention relates to a method for separating a component mixture which substantially contains hydrocarbons having two or two and more carbon atoms, methane and hydrogen by using a distillation device (10). Fluid (a, c, e, g, i) of the component mixture is cooled in stages at a first pressure level, wherein first condensates (b, d, f, h, j) are separated from the fluid (a, c, e, g, i). Fluid (k) of the component mixture, which hereafter remains gaseous, is depressurized in an expander to a second pressure level, wherein a second condensate (I) is obtained. Fluid of the first

condensates (b, d, f, h, j) is depressurized from the first pressure level to a second pressure level and fed together with the second condensate into the distillation column (10), which is operated at the second pressure level. The invention further relates to a corresponding system.



- 21: 2020/06544. 22: 2020/10/21. 43: 2022/06/10 51: F16C; F16J
- 71: AMSTED RAIL COMPANY, INC. 72: LIEBE, Timothy M., MASON, Michael A.
- 33: US 31: 15/987,352 32: 2018-05-23 54: ROLLER BEARING SEAL ASSEMBLY AND A COMPONENT THEREOF 00: -

In accordance with one aspect of the present disclosure, a roller bearing seal assembly is provided that includes a seal case and a rotor having a unitary, one-piece construction. The rotor is connected to the seal case and is rotatable relative to the seal case about an axis. The seal case and rotor include interfering portions that limit axial separation of the rotor and the seal case. In one embodiment, the rotor and seal case include at least one snap-fit connection that permits the rotor and seal case to be readily assembled. The at least one snap-fit connection includes the interfering portions which inhibit axial separation of the rotor and seal case after the rotor and seal case have been assembled.



21: 2020/06582. 22: 2020/10/22. 43: 2022/06/10 51: C09K

71: MINEX CRC LIMITED

72: MOSTOFI, Masood, SAMANI, Frank, WANG, Yiwen

33: AU 31: 2018901763 32: 2018-05-21 54: DRILLING FLUIDS AND USES THEREOF 00: -

The present invention relates to drilling fluids which reduce fluid and cutting loss during the drilling of subterranean wells. More specifically, the drilling fluids disclosed herein comprise natural and synthetic polymer blends that are effective to provide the fluid with a high viscosity under low shear rates and a low viscosity under high shear rates. The present invention also relates to methods for using the drilling fluids for reducing fluid and cutting loss during drilling.

21: 2020/06610. 22: 2020/10/23. 43: 2022/06/10 51: A61K; C12N; A61P 71: FORTE SUBSIDIARY, INC. 72: WAGNER, Paul 33: US 31: 62/659,566 32: 2018-04-18 33: US 31: 62/703,742 32: 2018-07-26 54: COMPOSITIONS FOR THE TREATMENT OF SKIN CONDITIONS 00: -

Described herein are methods and compositions for the treatment of skin conditions associated with dysbiosis. Skin conditions associated with dysbiosis for treatment using compositions and methods described herein include atopic dermatitis, eczema, dermatitis, psoriasis, rosacea, and acne.

Compositions include single or more than one strain of healthy donor derived bacteria for administration

to provide therapy for skin conditions associated with dysregulated microbiota. Such compositions include gram negative and/or gram positive bacteria.



21: 2020/06703. 22: 2020/10/28. 43: 2022/07/27 51: B61F

71: THIART, Willem Johannes MacDonald 72: THIART, Willem Johannes MacDonald, THIART, Emile

33: ZA 31: 2019/07349 32: 2019-11-05

54: KIT AND METHOD FOR MODIFYING A LOCOMOTIVE

00: -

THIS invention relates to a kit and method for modifying a locomotive, specifically a kit and method for modifying existing side plates of the locomotive chassis such that designated portions thereof are removable thereby to provide easier and safer access to the locomotive's axle assemblies. The kit includes a side panel being operatively cut out from an existing side plate of the locomotive and one or more mounting brackets. The side panel defines one or more primary fastening apertures and comprises a major dimension being larger than a dimension measured between a first point lying operatively forwardly of foremost wheels of the locomotive and a second point lying operatively rearward of rearmost wheels of the locomotive. The mounting brackets are each securable nearer a first end to the locomotive and defining nearer a second end one or more secondary fastening apertures, wherein the

secondary fastening apertures are operatively alignable with the primary fastening apertures of the side panels thereby to receive a fastener therethrough so as to fasten the side panel to the locomotive, thereby to operatively contain axle assemblies of the locomotive between opposing side plates thereof. The invention extends to a method of modifying the locomotive.



21: 2020/06704. 22: 2020/10/28. 43: 2022/06/10 51: C06B; F42D

71: MAXAMCORP HOLDING, S.L.

72: BEITIA GÓMEZ DE SEGURA, Fernando María, QUINTANA ANGULO, José Ramón, CARRANZA VÍTORES, Arturo, LAGUILLO SABÁS, Miguel Rafael, IZAGUIRRE MINGO, Eneko 33: EP 31: 18382253.5 32: 2018-04-16 54: PROCEDURE AND INSTALLATION FOR LOADING BOREHOLES WITH BULK WATER-**BASED SUSPENSION OR WATERGEL TYPE EXPLOSIVES**

00: -

The present invention relates to a method and installation for loading boreholes with bulk waterbased suspension or watergel type explosives characterized by the sensitization of the product by mixing a non-explosive or low sensitivity suspension matrix with compressed gas (e.g. air) at the end of the delivery hose.

21: 2020/06749. 22: 2020/10/29. 43: 2022/06/10 51: A01N; B01F; C08K; C11D 71: ADVANCED WETTING TECHNOLOGIES PTY LTD

72: ROBERTS, Raymond John

33: AU 31: 2018901549 32: 2018-05-07 **54: NOVEL WETTING COMPOSITION** 00: -

The invention relates to a wetting composition comprising (a) from 20 to less than 50 wt % of one or more C10 to C14 alcohol, (b) 25 to 70 wt% of a surfactant selected from a non-ionic, cationic, anionic and amphoteric surfactant, and (c) from 5 to 50 wt% of a polar component comprising at least one selected from (i) water, and (ii) up to 25 wt% of a water-miscible C1-C3 organic solvent, to methods for using the wetting composition, and products and aqueous compositions containing the wetting composition.

21: 2020/06762, 22: 2020/10/29, 43: 2022/06/10 51: A01N; B01F; C08K; C11D 71: ADVANCED WETTING TECHNOLOGIES PTY LTD 72: ROBERTS, Raymond John 33: AU 31: 2018901548 32: 2018-05-07 54: IMPROVED WETTING COMPOSITION 00: -

The invention relates to a wetting composition comprising a surfactant selected from a non-ionic, cationic, anionic and amphoteric surfactant in combination with from 10 to less than 50 wt % of at least one C10 to C14 alcohol and 10 to 30 wt % of a C4-C6 oxygen containing co-solvent, to methods for using the wetting composition and products containing the wetting composition.

21: 2020/06802. 22: 2020/10/30. 43: 2022/06/10 51: B29C

71: MOLECOR TECNOLOGÍA, S. L.

72: MUÑOZ DE JUAN, Ignacio 54: SYSTEM AND METHOD FOR MANUFACTURING FITTINGS AND **CONNECTIONS FOR BIAXIALLY-ORIENTED** PLASTIC PIPES

00: -

The present application to an invention discloses a system and a method for integrally manufacturing fittings and connections for biaxially-oriented plastic pipes from straight preformed pipes, with the possibility of adjusting and distributing the thicknesses as well as adjusting the specific stretching in the different areas of the fittings, allowing them to be reinforced or optimized during the method itself and without causing an increase in

the production time or an increase in the raw material used, allowing the manufacture of fittings of different geometric shapes (curves, tapers, couplers, branches, etc.).



21: 2020/07027. 22: 2020/11/11. 43: 2022/06/10 51: A61K; C07C; A61P 71: IBD THERAPEUTICS LLC 72: NEBOLSIN, Vladimir Evgenievich 33: RU 31: 2018117463 32: 2018-05-11 54: NOVEL MODULATOR OF METABOTROPIC AND IONOTROPIC TRANSMEMBRANE RECEPTORS AND USE THEREOF 00: -

The invention relates to organic chemistry, pharmacology and medicine and is concerned with the treatment of inflammatory and autoimmune diseases, such as psoriasis, atopic dermatitis, pruritus, Crohn's disease and colitis, gastrointestinal diseases, such as diarrhoea and irritable bowel syndrome, respiratory tract diseases, such as asthma, chronic obstructive pulmonary disease, bronchitis and rhinitis, and also coughing and a series of other diseases associated with the activity of opioid and tachykinin receptors and TRPV1 and TRPM8 ion channels by using a 2-phenylethylamide N-(p-hydroxyphenylacetyl)phenylalanine compound of formula (I). Said compound, and also the pharmaceutically acceptable adducts, hydrates and solvates thereof, are agonists of opioid receptors and antagonists of tachykinin receptors and of TRPV1 and TRPM8 ion channels. The present invention also relates to pharmaceutical compositions comprising a therapeutically effective amount of the compound according to the invention.



21: 2020/07055. 22: 2020/11/12. 43: 2022/06/10 51: A61K 71: FORTE SUBSIDIARY, INC. 72: WAGNER, Paul 33: US 31: 62/670,341 32: 2018-05-11 33: US 31: 62/703,737 32: 2018-07-26 54: COMPOSITIONS FOR THE TREATMENT OF SKIN CONDITIONS 00: -

Described herein are methods and compositions for the treatment of skin conditions associated with dysbiosis. Further described herein is the use of metabolites for treatment of dysregulated microbiota in a subject. Such metabolites can be produced by microorganisms present in a higher abundance in the skin of healthy subjects as compared to the skin of a subject having dysbiosis of the skin. In addition, compositions and methods provided herein describe the use of metabolites as part of a combination therapy.



21: 2020/07301. 22: 2020/11/24. 43: 2022/06/27 51: F16K; F16L 71: ROBINSON, Gavin Stuart 72: ROBINSON, Gavin Stuart 33: ZA 31: 2019/05830 32: 2019-09-04 54: GLAND SERVICE REGULATOR 00: -

A gland service regulator to regulate the supply of gland water to a stuffing box associated with a slurry pump is provided. The gland service regulator comprises a housing having a first port to receive an incoming supply of unregulated gland water; a second port to provide a supply of regulated gland water to the stuffing box of the slurry pump; a third port connected to a discharge slurry pressure port of the slurry pump; and a self-regulating flow regulator that utilises a pressure differential between the slurry pump discharge slurry pressure and the incoming unregulated gland water to automatically regulate the gland water service to maintain sufficient gland water pressure and flow into the stuffing box of the slurry pump. In an embodiment, the self-regulating flow regulator provides the supply of regulated gland water to the stuffing box at a pressure of approximately 100 kPa above the slurry pump discharge pressure.



21: 2020/07317. 22: 2020/11/24. 43: 2022/06/10 51: G01N 71: RENIBUS THERAPEUTICS, INC.
72: ZAGER, Richard A., KEYSER, Donald Jeffrey, GUILLEM, Alvaro F.
33: US 31: 62/676,157 32: 2018-05-24
33: US 31: 62/715.508 32: 2018-08-07

54: METHODS OF TREATING PATIENTS AT RISK FOR RENAL INJURY AND RENAL FAILURE 00: -

The p21 biomarker is utilized in the evaluation of whether a patient is suffering from kidney injury or failure, and can be used in methods of treating kidney injury or failure by determining the appropriateness of one or more of initiating renal replacement therapy, withdrawing delivery of compounds that are known to be damaging to the kidney, delaying or avoiding procedures that are known to be damaging to the kidney, and modifying diuretic administration.



21: 2020/07341. 22: 2020/11/25. 43: 2022/06/01 51: B60J; B66F; B66C 71: MANITOU ITALIA S.R.L. 72: IOTTI, MARCO 33: IT 31: 102019000024153 32: 2019-12-16 54: OPERATOR VEHICLE WITH ASSISTED CENTRING DEVICE 00: -

Described is an operator vehicle, comprising: a platform (2), equipped with a seat (3); a tower (T), coupled to the seat (3) in a rotatable fashion about a main rotation axis; motor means, arranged to rotate the tower (T) about the main axis; a detector, arranged to detect the movement of the angular position of the tower towards a reference angular position relative to the main axis, and to emit a corresponding proximity signal.



21: 2020/07618. 22: 2020/12/07. 43: 2022/06/17 51: G01N

71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY, XUZHOU CUMT BACKFILL TECHNOLOGY CO., LTD.

72: SUN, YUANTIAN, LI, GUICHEN, ZHANG, NONG, CHANG, QINGLIANG, KAN, JIAGUANG, LIANG, JULI, SUN, CHANGLUN, XU, JIAHUI, ZHANG, SUHUI

33: CN 31: 2019105424154 32: 2019-06-21 54: METHOD FOR TESTING INTERFACIAL STRENGTH OF BROKEN COAL MASS REINFORCED BY GROUTING 00: -

Disclosed is a method for testing an interfacial strength of a broken coal mass reinforced by grouting, comprising the following steps: fabricating two basal coal masses, and injecting cement slurry between the two basal coal masses to form a test piece; horizontally placing the test piece in two vertically stacked shear boxes, and fixing the two upper and lower basal coal masses by fixing the shear boxes; starting a shear instrument, applying a presser device on the top surface of the test piece, adjusting the vertical stress to a set value, slowly moving the lower shear box by displacement control, and acquiring a shearing force in real time; after the test piece is completely sheared off, stopping the test, and recording the displacement, a peak shearing force, a residual shearing force, and other parameters; and finally conducting data fitting to calculate peak and residual cohesion and internal friction angles of the coal mass. A change in the interfacial strength of the broken coal mass reinforced by grouting is evaluated by conducting a

comparative experiment. By using a real coal mass as the base, the present invention can quantitatively calculate the strength between structural planes of a coal mass after grouting, and obtain a test result which conforms to in-situ situations.



21: 2020/07670. 22: 2020/12/09. 43: 2022/06/10 51: E04F; G09F 71: STAIRMEDIA BCN, S.L. 72: GROS ESPAÑA, Sergio, PALMEROLA FERNANDEZ, Javier, BOJA PASTOR, David Boris, PRIO BATALLA, Jesus, COTO BARRIOS, Rafael 33: EP 31: 18382473.9 32: 2018-06-26 33: EP 31: 18382701.3 32: 2018-10-03 33: ES 31: U201931056 32: 2019-06-21 54: DEVICE FOR DISPLAYING IMAGES FOR STANDS OR STAIRWAYS

00: -

Device for displaying images for stands or stairways in a public venue which comprises a controller, a set of electronic screens connected to one another and means for securing said electronic screens to the risers of an existing stairway or stand, the controller having means for displaying an advertising motif distributed between all said electronic screens.



21: 2020/07744. 22: 2020/12/11. 43: 2022/06/10 51: B65G

71: SCHULTE STRATHAUS GMBH & CO. KG FÖRDERTECHNIK DICHTUNGSSYSTEME 72: SCHULTE STRATHAUS, Michael, SUDHOFF, Sebastian

54: CONVEYOR BELT STRIPPING DEVICE AND DISPLACEMENT GUIDE FOR THE SAME 00: -

The invention relates to a conveyor belt stripping device for a conveyor belt of a conveyor system, having a support shaft and at least two displacement guides which are arranged side by side on the support shaft in a positive locking manner so as to transmit torque. Each of the two displacement guides is displaceable in the longitudinal direction of the support shaft once a fastening device has been released and is connected to a holding end of a stripping segment, wherein the stripping segment comprises a stripping end which is spaced from the holding end and is movable to abut the conveyor belt. The two displacement guides are operatively couplable together in the longitudinal direction of the support shaft by means of a connection device. The one displacement guide, in the state coupled with the other displacement guide, is displaceable along the longitudinal direction of the support shaft to a predefined distance from the other displacement guide and then is displaceable along the longitudinal direction of the support shaft at the predefined distance to the other displacement guide together with the other displacement guide on account of the coupling by means of the connection device. The invention also relates to a displacement device for the attachment of a stripping segment to a support shaft of a conveyor belt stripping device.



21: 2020/07865. 22: 2020/12/17. 43: 2022/06/10 51: B32B; D05C; E01C; E02D 71: WATERSHED GEOSYNTHETICS LLC 72: COOLEY, Bradford H, AYERS, Michael R. 33: US 31: 62/591,428 32: 2017-11-28 54: STABILIZED WATER FLOW CONTROL GROUND COVER 00: -

A non-woven mat of randomly oriented thermoplastic or polymeric fibers defining interstitial gaps that form interference pathways for non-direct water flow therethrough, whereby the mat being disposed on a ground surface moderates a rate of flow of environmental water for increased seepage of the environmental water into a subground and resists rapid lateral flow of environmental water across the ground cover, and with a stabilization layer in a bottom surface portion of the mat or optionally secured with staples to the ground. A method of forming a stabilized water flow control ground cover is disclosed.



- 21: 2020/07918. 22: 2020/12/18. 43: 2022/06/23
- 51: C07K; A61K; A61P
- 71: IMMUNOGEN, INC.
- 72: KOVTUN, YELENA, TAVARES, DANIEL, RUI, LINGYUN, CHITTENDEN, THOMAS

33: US 31: 62/186,161 32: 2015-06-29 33: US 31: 62/346,730 32: 2016-06-07 33: US 31: 62/338,203 32: 2016-05-18 54: ANTI-CD123 ANTIBODIES AND CONJUGATES AND DERIVATIVES THEREOF 00: -

The present disclosure generally relates to antibodies, antigen-binding fragments thereof, polypeptides, and immunoconjugates that bind to CD 123 antigen (the a chain of the interleukine 3 receptor, or IL-3Ra). The present disclosure also relates to methods of using such CD123-binding molecules for diagnosing and treating diseases, such as B-cell malignancies.

21: 2020/07989. 22: 2020/12/21. 43: 2022/06/10 51: A01N; A61K; C07C; A01P 71: UNIVERSITÉ DE LAUSANNE 72: DUBEY, Olga, FARMER, Edward, NAWRATH, Christiane, GINDRO, Katia, SCHNEE, Sylvain, DUBEY, Sylvain

33: EP 31: 18182433.5 32: 2018-07-09 54: FUNGICIDES TO PREVENT AND CONTROL FUNGAL PATHOGENS

00: -

The invention relates to the field of biological fungicides with a broad range of antifungal activity coming from plant extracts from the order of Brassicales or molecules revealing similar chemical structure. In particular, Applicants surprisingly provided a new usage of a combination of sulfonyl and sulfinyl containing aliphatic glucosinolates, their by-products and synthetic analogues as efficient antifungal compounds with broad spectrum of activity.

21: 2020/08030. 22: 2020/12/22. 43: 2022/06/10 51: A61K; C07K; A61P 71: LABORATOIRE FRANÇAIS DU FRACTIONNEMENT ET DES BIOTECHNOLOGIES 72: PLANTIER, Jean-Luc 33: FR 31: 1855239 32: 2018-06-14 54: COMBINATION OF FACTOR VII AND A BISPECIFIC ANTI-FACTOR IX AND X ANTIBODY 00: -

The invention concerns a combination comprising transgenic factor VII and a multispecific antibody directed against factor IX and X, for simultaneous or separate administration.

21: 2021/00020. 22: 2021/01/04. 43: 2022/07/28
51: B65D
71: BILLERUDKORSNÄS AB
72: GRÄBER, Klaus, DELRIVE, Christophe
33: EP 31: 18183098.5 32: 2018-07-12
54: COVER FOR BOTTLE, BOTTLE COMPRISING

COVER FOR BOTTLE, BOTTLE COMPRISING COVER AND METHODS

A cover (52) for protection of a neck (44) and a closure member (46) of a bottle (42), wherein the cover (52) comprises a sleeve (54); wherein the sleeve (54) comprises a stretchable paper material (12); wherein the sleeve (54) is configured to enclose the neck (44); and wherein the stretchability according to ISO 1924-3:2005 of the stretchable paper material (12) the sleeve (54) is at least 5 % in the machine direction (MD) and at least 5 % in the cross direction (CD). A bottle (42) comprising a cover (52), a method of forming a cover (52) for a bottle (42), and a method of attaching a cover (52) to a bottle (42), are also provided.



21: 2021/00069. 22: 2021/01/05. 43: 2022/06/29 51: B01J; B01D 71: S.A. LHOIST RECHERCHE ET DÉVELOPPEMENT 72: FOO, RODNEY, LYONS, DAVID, SARATOVSKY, IAN 33: US 31: 16/032,152 32: 2018-07-11 33: EP 31: PCT/EP2018/068770 32: 2018-07-11 54: SORBENT COMPOSITION FOR AN ELECTROSTATIC PRECIPITATOR 00: -

A powdery calcium-magnesium compound used as a sorbent composition in flue gas treatment, compatible with electrostatic precipitators. The calcium magnesium compound is doped with

calcium nitrate or nitric acid to reduce the electrical resistivity of the particles, increasing their collection efficiency.



21: 2021/00077. 22: 2021/01/05. 43: 2022/06/29 51: A62C

- 71: TYCO FIRE PRODUCTS LP
- 72: RYCZEK, CHAD L
- 33: US 31: 62/682,506 32: 2018-06-08
- 54: CARTRIDGE MONITORING SYSTEM

A fire suppression system includes a tank configured to contain fire suppressant agent, a cartridge configured to contain pressurized expellant gas, the cartridge including an electrically-conductive section, an actuator coupled to the tank and selectively coupled to the cartridge, and a cartridge monitoring system coupled to the actuator. The actuator is configured to selectively supply the pressurized expellant gas from the cartridge to the tank such that the fire suppressant agent is dispensed from the tank. The cartridge monitoring system includes (a) a first contact and a second contact configured to engage the electrically-conductive section of the cartridge when the cartridge is coupled to the actuator and (b) an electrical interpreter coupled to the first contact and the second contact and configured to determine if the electrically-conductive section of the cartridge is engaging the first contact and the second contact to form a closed circuit.

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21: 2021/00085. 22: 2021/01/06. 43: 2022/06/29 51: A01G; A01H

71: CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, SAKATA SEED IBERICA, S.L.U. 72: CARVAJAL ALCARAZ, Micaela, MORENO FERNANDEZ, Diego A., RIOS RUIZ, Juan José, BERNABEU DURÁ, Javier, AGUDELO SANCHEZ, Ágatha

33: ES 31: P201830674 32: 2018-07-05 54: COMPOSITION AND METHOD FOR INCREASING THE CONTENT OF GLUCOSINOLATES IN ADULT PLANTS OF THE GENUS BRASSICA

00: -

The present invention relates to a composition comprising methyl jasmonate and a polysiloxane polyether for increasing the content of glucosinolates in adult plants of the genus Brassica, for example, broccoli. By means of foliar application of the composition on adult plants having a developed cuticle, a significant increase is achieved in the concentrations of glucosinolates (mainly glucoraphanin and neoglucobrassicin) in the floret of the plants, without degrading the organoleptic properties thereof.

21: 2021/00096. 22: 2021/01/06. 43: 2022/06/17 51: A23L 71: UNILEVER IP HOLDINGS B.V. 72: SAILER, WINFRIED, SCHÄNZEL, MONIKA RENATE 33: EP 31: 18184381.4 32: 2018-07-19 54: SAVOURY LIQUID CONCENTRATE 00: -

The present invention relates to a savoury, liquid concentrate comprising gelatinized legume starch, more particularly a savoury concentrate that can be used as a base for the preparation of broth, bouillons, soups, sauces, gravies, etc. The present invention also relates to a method of preparing such

21: 2021/00099. 22: 2021/01/06. 43: 2022/06/17 51: G06K

71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY

a concentrate.

72: LIU, PENG, MENG, LEI, ZHANG, GUOPENG, LIU, BING, ZHANG, GUOYUAN, WANG, XUEKUI, WEI, HUIZI, JING, JIANGBO, LU, XIAOLONG, DING, ENJIE

33: CN 31: 201810582698.0 32: 2018-06-07 54: RANDOM FOREST INTEGRATION METHOD BASED ON FEATURE MAPPING LAYER AND ENHANCEMENT LAYER STRUCTURES 00: -

Disclosed in the present invention is a random forest integration method based on feature mapping layer and enhancement layer structures, applicable to the field of machine learning. The method mainly comprises two parts: model design and model training. The model design part mainly comprises two parts: the design of a feature mapping layer and an enhancement layer, and the design of an output weight; a neural network node consisting of a random forest and a complete random forest is designed so as to adaptively adjust the width of a model; a local weight is obtained by means of the average accuracy of the nodes, and the output weight is calculated; and finally a final output vector is solved. The method is high in automation degree, adaptively decides the size of the model by means of the training, is easy for theoretical analysis, is good in interpretability and is strong in parallelization capability.



21: 2021/00106. 22: 2021/01/07. 43: 2022/06/10 51: A61K; A61P

71: ATHENEX, INC.

72: KWAN, Min-Fun Rudolf, LAU, Johnson Yiu-Nam, KRAMER, E. Douglas, CUTLER, David Lawrence, FANG, Jane

33: US 31: 62/469,889 32: 2017-03-10 54: METHODS OF TREATING AND/OR PREVENTING ACTINIC KERATOSIS 00: -

The application pertains to methods of treating and/or preventing actinic keratosis, comprising administering a therapeutically effective amount of KX-01, (I), to a subject in need thereof.



21: 2021/00111. 22: 2021/01/07. 43: 2022/06/17 51: F17C 71: SMART CYLINDERS AS 72: GREVSTAD, SIMON, HAUGLAND, TORMOD 33: GB 31: 1810766.4 32: 2018-06-29 54: SYSTEM FOR DETERMINING THE STATUS OF A GAS CYLINDER 00: -

According to the invention there is provided a system for determining a status of a gas cylinder, the system comprising: a load sensor configured to detect a weight of the cylinder at predetermined time intervals; a temperature sensor configured to detect a temperature local to the cylinder at the predetermined time intervals; and a processing unit configured to: receive weight signals and temperature signals from the load sensor and temperature sensor respectively; and determine, based on the received weight and temperature signals, the status of the gas cylinder; and provide an indication of the status of the gas cylinder to a user. A system for managing deployed cylinders is also provided. Methods and computer readable mediums are also provided.



21: 2021/00116. 22: 2021/01/07. 43: 2022/06/17 51: G01N

71: UNIVERSITÉ GUSTAVE EIFFEL 72: SEDIKI, OUARDIA, RAZAKAMANANTSOA, ANDRY R, RAYSSAC, ERWAN, BODENES, DANIEL

33: FR 31: 1855260 32: 2018-06-15 54: METHOD AND DEVICE FOR DETERMINING

THE PARTICLE EMISSION COEFFICIENT AND POTENTIAL OF A MATERIAL, AND METHOD FOR CONTROLLING A FLOW PATH 00: -

Method for determining the particle emission coefficient of a material (CE), comprising the steps of: b) successively, for different masses of fines: b1) disposing a mass of said fines in a chamber (10); b2) and, by injecting air into the chamber (10), ejecting the particles from the chamber in an outgoing air flow; b3) measuring the maximum mass concentration (PM_max) of the particles in the outgoing air flow and the total ejection time (D_Ej) of the particles; d) calculating a trend line (D) that is representative of the function providing the maximum standardised particle concentration (PM_max_norm) as a function of the standardised ejection time (D_Ej_norm) of the particles; e) calculating the particle emission coefficient of the material (CE) according to the slope of the trend line (D).



21: 2021/00117. 22: 2021/01/07. 43: 2022/06/17 51: C22B; B22F

71: MOSELLE TECHNOLOGIES, LLC 72: ALBRIGHT, ROBERT L, MEYER, STANLEY M 33: US 31: 62/694,943 32: 2018-07-06 54: METHODS AND COMPOSITIONS FOR RECOVERY OF LITHIUM FROM LIQUID SOLUTIONS WITH NANOPARTICLES 00: -

The present disclosure relates, according to some embodiments, to a method for recovery of lithium ions from a lithium-ion containing liquid, the method comprising the steps of coating a nanoparticle with a styrene monomer; polymerizing the styrene monomer to form a polystyrene-coated nanoparticle; attaching a dibenzo-12-crown-4-ether to the polystyrene-coated nanoparticle to form a lithium adsorbing medium; exposing the lithium ioncontaining liquid to the lithium adsorbing medium to form a lithium-rich adsorbing medium; and extracting the lithium ion from the lithium-rich adsorbing medium.



21: 2021/00126. 22: 2021/01/07. 43: 2022/06/17 51: B01J

71: DOW GLOBAL TECHNOLOGIES LLC 72: POLLEFEYT, GLENN, NIESKENS, DAVY L.S., SANTOS CASTRO, VERA P, KIRILIN, ALEXEY, CHOJECKI, ADAM, YANCEY, DAVID, MALEK, ANDRZEJ

33: US 31: 62/692,155 32: 2018-06-29 54: HYBRID CATALYSTS COMPRISING A MIXED METAL OXIDE COMPONENT FOR PRODUCTION OF C2 AND C3 HYDROCARBONS

00: -

A hybrid catalyst including a metal oxide catalyst component comprising chromium, zinc, and at least one additional metal selected from the group consisting of iron and manganese, and a microporous catalyst component that is a molecular sieve having 8-MR pore openings. The at least one additional metal is present in an amount from 5.0 at% to 20.0 at%.

21: 2021/00194. 22: 2021/01/12. 43: 2022/06/29 51: A62C 71: DU PLESSIS, Jaco 72: DU PLESSIS, Jaco 33: US 31: 16/040,301 32: 2018-07-19 54: EXPANDABLE FIRE-FIGHTING FOAM SYSTEM, COMPOSITION, AND METHOD OF MANUFACTURE 00: -

A method of manufacturing a self-expanding firefighting foam solution is disclosed. Here, the method can include purging air from a container, wherein the purging is performed via flowing an inert gas into the container, such that substantially inert environment is created within the container. In addition, the method can further include dispensing or filling a pre-determined amount of foam concentrate into a container, dispensing or filling a pre-determined amount of water into the container, and mixing the foam concentrate and water within the container, wherein the mixed foam and water within the inert container provide the self-expanding fire-fighting foam solution and having a pH ranging from about 6.8 to 7.8 moles per liter.



21: 2021/00195. 22: 2021/01/12. 43: 2022/06/20 51: A61K; A61P; C07D

71: AstraZeneca AB, Cancer Research Technology Limited

72: FINLAY, Maurice Raymond Verschoyle, GOLDBERG, Frederick Woolf, HOWARD, Martin Richard, TING, Attilla Kuan Tsuei 33: US 31: 62/685,325 32: 2018-06-15

54: PURINONE COMPOUNDS AND THEIR USE IN TREATING CANCER 00: -

The specification generally relates to compounds of Formula (I): (I) and pharmaceutically acceptable salts thereof, where R¹, A¹, A² and A³ have any of the meanings defined herein. The specification also relates to the use of such compounds and salts thereof to treat or prevent DNA-PK mediated disease, including cancer. The specification further relates to pharmaceutical compositions comprising such compounds and salts; kits comprising such compounds and salts; methods of manufacture of such compounds and salts; intermediates useful in the manufacture of such compounds and salts; and to methods of treating DNA-PK mediated disease, including cancer, using such compounds and salts.



21: 2021/00204. 22: 2021/01/12. 43: 2022/06/29 51: C07D; A61K

71: ARCHER DANIELS MIDLAND COMPANY, DUPONT INDUSTRIAL BIOSCIENCES USA, LLC 72: HAGBERG, ERIK, MA, CHI CHENG, STENSRUD, KENNETH F

33: US 31: 62/686,415 32: 2018-06-18 54: COLOR STABILIZATION OF MONOMERS AND OTHER REACTANTS FOR FORMING BIO-BASED POLYMERS

00: -

Compositions and methods are disclosed for the production of bio-based polymers (e.g., polymers made from glucose), including polyesters, as well as end products resulting from such production, in which one or more color stabilizing additive compounds is utilized. The additive(s) may be used in the stabilization of a monomer or prepolymer that is reacted in such production methods, prior to obtaining the polymer. Particular bio-based polymers are those having furandicarboxylate moieties or residues in their backbone structure, with poly(alkylene furan dicarboxylate) polymers, such as poly(ethylene furan dicarboxylate) (PEF) and poly(trimethylene furan dicarboxylate) (PTF) being representative.

21: 2021/00206. 22: 2021/01/12. 43: 2022/06/29 51: A47J 71: JURA ELEKTROAPPARATE AG 72: BÜTTIKER, PHILIPP, ULLMANN, ERICH 33: EP 31: 18190044.0 32: 2018-08-21 54: GRINDER FOR GRINDING MATERIAL TO BE GROUND 00: -

The grinder (1) comprises: a container (30) having a discharge opening (30-1) for material to be ground; a first grinding tool (11) and a second grinding tool (14), wherein the first grinding tool (11) can be rotated relative to the second grinding tool (14)

about an axis of rotation (R) such that material to be ground can be crushed in a grinding gap (20) between the first grinding tool (11) and the second grinding tool (14), wherein the second grinding tool (14) has an inlet channel (14-1) which is limited by a wall section (16A) extending around the axis of rotation (R) and via which material to be ground can be supplied into the grinding gap (20), wherein the second grinding tool (14) can be moved relative to the first grinding tool (11) axially to the axis of rotation (R); and a collar seal (40) arranged between the container (30) and the second grinding tool (14) and having a through-channel (40A) via which material to be ground can fall out of the container (30) into the inlet channel (14-1) of the second grinding tool (14). The collar seal is arranged stationarily relative to the container (30) in such a way that a first annular section (41) of the collar seal, which limits the through-channel (40A), is in contact with the container (30) and has an overlapping region (U) with the wall section (16A) of the second grinding tool (14) in the direction of the axis of rotation (R). The collar seal comprises a second annular section (42) which is connected to the first annular section (41) via at least one connection section (43) designed as an elastically deformable spring element, and which is supported on a contact surface (AF).



21: 2021/00207. 22: 2021/01/12. 43: 2022/06/29 51: C11D 71: UNILEVER GLOBAL IP LIMITED

72: JONES, CRAIG WARREN, PARKER, ANDREW PHILIP

33: EP 31: 18183988.7 32: 2018-07-17

54: BENEFIT AGENT DELIVERY PARTICLES

00: -

The invention provides a benefit agent delivery particle having a core-shell structure in which a porous shell of polymeric material entraps a core containing the benefit agent; in which the pores in the shell are at least partially occluded by a washremovable coating provided at the exterior surface of the shell; and characterized in that the washremovable coating is formed from deposited particles of alkaline earth metal salt.

21: 2021/00222. 22: 2021/01/13. 43: 2022/06/29 51: E04B

71: ZHOU, Zhaodi

72: ZHOU, Zhaodi

33: CN 31: 201810753058.1 32: 2018-07-10 54: PREFABRICATED WALL AND ASSEMBLY STRUCTURE FOR PREFABRICATED BUILDING, AND CONSTRUCTION METHOD THEREFOR 00: -

Disclosed is a prefabricated wall (1) for a prefabricated building. The prefabricated wall comprises a concrete body (2) and a rigid framework (3) arranged inside the poured concrete body (2), wherein the rigid framework (3) comprises n longitudinally extending vertical rebars (4), with n being an integer greater than or equal to three; an upper end face and a lower end face of the prefabricated wall (1) are formed with m mechanical connection portions (5) at positions sharing the same axes as the vertical rebars (4), with m being an integer less than or equal to 2n; and the mechanical connection portions (5) are all formed at end portions of the vertical rebars (4). Further disclosed is an assembly structure for a prefabricated building. The assembly structure is formed by filling an assembly gap with an on-site poured layer (17) after rebars are firmly connected at an overhead region (18) between an upper-layer wall (10), a lower-layer wall (11) and a floor slab by means of fastening components (12). Further disclosed is a construction method for a prefabricated building. The structure is reliable in terms of connection, has a simple structure and is easy to construct.



21: 2021/00232. 22: 2021/01/13. 43: 2022/06/29 51: E02F

71: CATERPILLAR INC.

72: GERBER, BYRON L

33: US 31: 62/698,370 32: 2018-07-16

33: US 31: 16/395,380 32: 2019-04-26

54: RIPPER SHANK POCKET WITH WEAR INSERTS 00: -

A wear insert (300, 400) includes a front surface (302, 402), a rear surface (304, 404), a top surface (306, 406), a bottom surface (308, 408), a first side surface (310, 410), a second side surface (312, 412), and a first retention boss (314, 414) extending from the rear surface (304, 404).



21: 2021/00269. 22: 2021/01/14. 43: 2022/06/29 51: A61K; A61P; C08B 71: ARC MEDICAL DEVICES INC. 72: SPRINGATE, CHRISTOPHER MICHAEL KEVIN, MILLET, IAN, DASWANI, SAILESH HARESH, SUN, HESONG, YANG, AILEEN SHAO TING, WONG, HOI TING 33: US 31: 62/711,335 32: 2018-07-27 54: LOW ENDOTOXIN FUCAN COMPOSITIONS, SYSTEMS AND METHODS 00: -

Low endotoxin fucan compositions comprising a therapeutically effective, medically acceptable fucan in a composition comprising less than about 0.2, 0.18, 0.1, 0.01, 0.001, or 0.0005 endotoxin units (EU) per milligram of the fucan are disclosed. Methods and systems for removing or reducing the amount of endotoxins from a starting fucan composition are also disclosed.



21: 2021/00270. 22: 2021/01/14. 43: 2022/06/29 51: C08L; A61K; A61P; C08B 71: ARC MEDICAL DEVICES INC. 72: SPRINGATE, CHRISTOPHER MICHAEL KEVIN, MILLET, IAN, DASWANI, SAILESH HARESH. SUN. HESONG 33: US 31: 62/713,392 32: 2018-08-01 33: US 31: 62/713,413 32: 2018-08-01 33: US 31: 62/755,318 32: 2018-11-02 33: US 31: 62/793,654 32: 2019-01-17 33: US 31: 62/711,364 32: 2018-07-27 33: US 31: 62/861,228 32: 2019-06-13 33: US 31: 62/722,135 32: 2018-08-23 33: US 31: 62/755,311 32: 2018-11-02 33: US 31: 62/711,335 32: 2018-07-27 33: US 31: 62/711,372 32: 2018-07-27 33: US 31: 62/713.399 32: 2018-08-01 33: US 31: 62/722,137 32: 2018-08-23 33: US 31: 62/755,328 32: 2018-11-02 33: US 31: 62/861,223 32: 2019-06-13 33: US 31: 62/861,235 32: 2019-06-13 54: HIGH-MOLECULAR-WEIGHT FUCANS FOR TREATING FIBROUS ADHESIONS AND OTHER **DISEASES AND CONDITIONS** 00: -

High-molecular-weight fucan compositions comprising a therapeutically effective, medically acceptable fucan in a composition comprising wherein the fucan, for example, has a molecular weight distribution in which more than 60 % w/w of the composition has a molecular weight above 100 kDa.



51: C08B; A61K; A61P; C08L 71: ARC MEDICAL DEVICES INC. 72: SPRINGATE, CHRISTOPHER MICHAEL KEVIN, YOUNG, BRYAN ANTHONY, DASWANI, SAILESH HARESH 33: US 31: 62/711,335 32: 2018-07-27 33: US 31: 62/713.392 32: 2018-08-01 33: US 31: 62/755.328 32: 2018-11-02 33: US 31: 62/861,223 32: 2019-06-13 33: US 31: 62/711.372 32: 2018-07-27 33: US 31: 62/755,311 32: 2018-11-02 33: US 31: 62/711,364 32: 2018-07-27 33: US 31: 62/722,135 32: 2018-08-23 33: US 31: 62/861,228 32: 2019-06-13 33: US 31: 62/713,399 32: 2018-08-01 33: US 31: 62/713,413 32: 2018-08-01 33: US 31: 62/722,137 32: 2018-08-23 33: US 31: 62/755,318 32: 2018-11-02 33: US 31: 62/793.654 32: 2019-01-17 33: US 31: 62/861,235 32: 2019-06-13 54: HIGHLY SULFATED FUCANS FOR THE TREATMENT OF FIBROUS ADHESIONS 00: -

A highly-sulfated modified fucan comprising a therapeutically effective, medically acceptable fucan in a composition comprising a sulfate to fucose molar ratio of greater than or equal to about 1.2, 1.81 or 1.9 and/or a sulfate to fucose plus galactose molar ratio of greater than or equal to about 1.1, 1.2 or 1.3.



21: 2021/00272, 22: 2021/01/14, 43: 2022/06/29 51: C08B; A61K; A61P 71: ARC MEDICAL DEVICES INC. 72: SPRINGATE, CHRISTOPHER MICHAEL KEVIN, MILLET, IAN, DASWANI, SAILESH HARESH, SUN, HESONG, YANG, AILEEN SHAO TING, WONG, HOI TING 33: US 31: 62/713,392 32: 2018-08-01 33: US 31: 62/713,413 32: 2018-08-01 33: US 31: 62/861,223 32: 2019-06-13 33: US 31: 62/755,311 32: 2018-11-02 33: US 31: 62/861.228 32: 2019-06-13 33: US 31: 62/722,137 32: 2018-08-23 33: US 31: 62/711.335 32: 2018-07-27 33: US 31: 62/711.372 32: 2018-07-27 33: US 31: 62/755,318 32: 2018-11-02 33: US 31: 62/793.654 32: 2019-01-17 33: US 31: 62/711,364 32: 2018-07-27 33: US 31: 62/713,399 32: 2018-08-01 33: US 31: 62/722,135 32: 2018-08-23 33: US 31: 62/755,328 32: 2018-11-02 33: US 31: 62/861.235 32: 2019-06-13 54: HIGHLY PURIFIED FUCANS FOR THE TREATMENT OF FIBROUS ADHESIONS 00: -

Compositions, methods, systems, etc., are provided for modified and/or purified fucans and corresponding fucan-containing compositions that inhibit fibrous adhesions among other advantages. The purified/modified fucans and fucan compositions have a reduced level of non-fucan components or impurities such as those found in a starting fucan composition. Such reduced undesirable components or impurities include, for example, undesired components bound to the fucan and compounds in the composition that are not a part of or bound to the fucan.



21: 2021/00273. 22: 2021/01/14. 43: 2022/06/29

51: G16C; C08J 71: ARC MEDICAL DEVICES INC.

72: DASWANI, SAILESH HARESH, WONG, HOI TING

33: US 31: 62/814,206 32: 2019-03-05

54: METHOD FOR PREDICTING A MOLECULAR WEIGHT DISTRIBUTION OF A BIOPOLYMER BLEND

00: -

Methods, systems etc., for predicting and/or consistently obtaining uniform biopolymer compositions by blending a plurality of input biopolymer compositions with different molecular weight distributions, the blending based on concentration data as a function of molecular weight for the plurality of input biopolymer compositions.



21: 2021/00274. 22: 2021/01/14. 43: 2022/06/29 51: B01D

71: ARC MEDICAL DEVICES INC. 72: MILLET, IAN, DASWANI, SAILESH HARESH 33: US 31: 62/814,212 32: 2019-03-05 54: SYSTEMS AND METHODS FOR TANGENTIAL FLOW FILTRATION OF VISCOUS COMPOSITIONS 00: -

Apparatus, methods, systems, etc., for the tangential flow filtration (TFF) of viscous compositions including viscous fluids, solutions, gels, pastes, creams and suspensions with viscosities greater than 10 cP, 20 cP, 50 cP or 100 cP. The methods, etc., provide enhanced mixing of the viscous compositions in their storage vessels by extracting the input composition from different depths in the storage vessels to reduce or eliminate vertical concentration gradients.



Compositions, methods, systems, etc., are provided for modified and/or purified fucans and corresponding fucan-containing compositions that inhibit fibrous adhesions among other advantages.

The purified/modified fucans and fucan compositions have a reduced level of non-fucan components or impurities such as those found in a starting fucan composition. Such reduced undesirable components or impurities include, for example, undesired components bound to the fucan and compounds in the composition that are not a part of or bound to the fucan.



21: 2021/00294. 22: 2021/01/15. 43: 2022/06/17 51: A61B; A61F 71: HIP INNOVATION TECHNOLOGY, LLC 72: TERMANINI, ZAFER, VANHIEL, BRIAN, CHARLES, KIRK 33: US 31: 62/197,215 32: 2015-07-27 54: BALL AND CUP IMPACTORS FOR IMPLANTING A HIP PROSTHESIS 00: -

New surgical instruments and methods used to implant elements of a reverse hip prosthesis in a patient are described. The instruments are impactors which are struck with a hammer at their proximal ends after the instrument has been used to position the implant element in the patient. An acetabular cup impactor has inclination and anteversion rods which are used to position the acetabular cup optimally in the acetabulum. An acetabular ball impactor affixes the acetabular ball in the acetabular cup by means of a Morse taper. And a femoral cup impactor affixes the femoral cup in the femoral stem by means of a Morse taper.



21: 2021/00295. 22: 2021/01/15. 43: 2022/06/17 51: A61B; A61F

71: HIP INNOVATION TECHNOLOGY, LLC 72: TERMANINI, ZAFER, VANHIEL, BRIAN, CHARLES, KIRK

33: US 31: 62/197,215 32: 2015-07-27 54: BALL AND CUP IMPACTORS FOR IMPLANTING A HIP PROSTHESIS 00: -

New surgical instruments and methods used to implant elements of a reverse hip prosthesis in a patient are described. The instruments are impactors which are struck with a hammer at their proximal ends after the instrument has been used to position the implant element in the patient. An acetabular cup impactor has inclination and anteversion rods which are used to position the acetabular cup optimally in the acetabulum. An acetabular ball impactor affixes the acetabular ball in the acetabular cup by means of a Morse taper. And a femoral cup impactor affixes the femoral cup in the femoral stem by means of a Morse taper.



21: 2021/00322. 22: 2021/01/15. 43: 2022/06/17 51: A01G 71: HAYGROVE LIMITED 72: DAVISON, ANGUS 33: GB 31: 1810046.1 32: 2018-06-19 54: POLYTUNNEL STRUCTURE 00: -

A polytunnel structure (10) is described comprising a plurality of cover support members (16) supported upon respective pairs of legs (12), a cover member (18) supported by the cover support members (16), an edge of the cover member (18) being secured to a rotatable beam (20), and an anchor rope (22), strap or the like extending over the cover member (18) to anchor the cover member (18) in position, wherein the cover support members (16) are each shaped to define a step (26) between a first section (28) and a second section (30), wherein when the rotatable beam (20) is supported upon the second section (30), the anchor rope (22), strap or the like provides a reduced resistance to movement thereof.



21: 2021/00325. 22: 2021/01/15. 43: 2022/06/17 51: A47C

71: TEMPUR WORLD, LLC 72: JANSEN, TAYLOR M, GHANEI, HAMID, EVANS, JR. JAMES A, ALBERTO, JUSTIN, GWALTNEY, JUDSON P, SWITZER, STEPHEN, GARMA, HENRY, TAR, ALANDA 33: US 31: 16/023,364 32: 2018-06-29 54: BODY SUPPORT CUSHION WITH VENTILATION SYSTEM

00: -

A body support cushion is provided with layered foam which receives airflow and allows passage in predefined areas through the body support cushion. Additionally, a cover is provided including a spacer fabric that allows air movement from the body support cushion to improve ventilation of the user of the cushion.



21: 2021/00326. 22: 2021/01/15. 43: 2022/06/17 51: H01M

71: FORM ENERGY, INC.

72: CHAKRABORTY, RUPAK, MILSHTEIN, JARROD DAVID, WEBER, ERIC, WOODFORD, WILLIAM HENRY, CHIANG, YET-MING, MCKAY, IAN SALMON, SU, LIANG, WHITACRE, JAY, WILEY, THEODORE ALAN, CARLISLE, KRISTEN, WESTWOOD, MITCHELL TERRANCE, MUMMA, RACHEL ELIZABETH, CHU, MAX RAE, KHAREY, AMELIE NINA, HULTMAN, BENJAMIN THOMAS, FERRARA, MARCO, JARAMILLO, MATEO CRISTIAN, CARUSO, ISABELLA, NEWHOUSE, JOCELYN

33: US 31: 62/711,253 32: 2018-07-27 33: US 31: 62/790,668 32: 2019-01-10 33: US 31: 62/868,511 32: 2019-06-28 54: NEGATIVE ELECTRODES FOR ELECTROCHEMICAL CELLS 00: -

Various embodiments provide a battery, a bulk energy storage system including the battery, and/or a method of operating the bulk energy storage system including the battery. In various embodiment, the battery may include a first electrode, an electrolyte, and a second electrode, wherein one or both of the first electrode and the second electrode comprises direct reduced iron ("DRI"). in various embodiments, the DRI may be in the form of pellets. In various embodiments, the pellets may comprise at least about 60 wt% iron by elemental mass, based on the total mass of the pellets. In various embodiments, one or both of the first electrode and the second electrode comprises from about 60% to about 90% iron and from about 1 % to about 40 % of a component comprising one or more of the materials selected from the group of SiO₂, Al₂O₃, MgO, CaO, and TiO₂.



21: 2021/00340. 22: 2021/01/18. 43: 2022/06/17
51: B21D; B23K; B23Q; B25B
71: Tshwane University of Technology
72: MPOFU, Khumbulani, RAMATSETSE, Boitumelo Innocent, SELOANE, Walter Thabo
33: ZA 31: 2019/06868 32: 2019-10-18
54: A RECONFIGURABLE FIXTURE, A
RECONFIGURABLE FIXTURE SYSTEM, AND A

METHOD OF OPERATING A RECONFIGURABLE FIXTURE SYSTEM

00: -

This invention relates to reconfigurable fixtures. The fixture typically comprises at least one station comprising at least one locating platform for receiving one or more articles to be worked on. The fixture comprises a proximity sensor arrangement and a clamp assembly. The proximity sensor arrangement may comprise at least one proximity sensor arranged relative to the at least one locating platform, wherein the proximity sensor arrangement is configured to generate or facilitate generating suitable proximity signal/s in response to the article to be worked on being proximate to the at least one proximity sensor. The clamp assembly is operable to clamp an article relative to the at least one locating platform in response to receiving suitable control signal/s.



21: 2021/00341. 22: 2021/01/18. 43: 2022/06/17
51: B21D; B23K; B23Q; B25B
71: Tshwane University of Technology
72: MPOFU, Khumbulani, RAMATSETSE, Boitumelo Innocent, SELOANE, Walter Thabo
33: ZA 31: 2019/06869 32: 2019-10-18
54: A RECONFIGURABLE FIXTURE, A
RECONFIGURABLE FIXTURE SYSTEM, AND A
METHOD OF OPERATING A RECONFIGURABLE
FIXTURE SYSTEM

00: -

This invention relates to reconfigurable fixtures, systems incorporating said fixtures and a method of operating said system. The fixture comprises a base, proximity sensor arrangement, a clamp assembly, and a displacement arrangement. The base defines first and second major faces, each comprising a station having a locating platform for receiving articles to be worked on. The proximity sensor arrangement comprises proximity sensors arranged relative to the locating platform, wherein the sensor arrangement is configured to generate proximity signal/s in response to the article to be worked on being proximate to the sensors. The clamp assembly clamps articles relative to the locating platform in response to receiving clamping control signal/s. The displacement arrangement is configured to displace the base between a first condition in which the first major face is accessible for use, and a second condition in which the second major face is accessible for use.



21: 2021/00351. 22: 2021/01/18. 43: 2022/06/17 51: C25B; C23C

71: INDUSTRIE DE NORA S.P.A.

72: GARGIULO, ALICE, CALDERARA, ALICE, IACOPETTI, LUCIANO

33: IT 31: 102018000006544 32: 2018-06-21 54: ANODE FOR ELECTROLYTIC EVOLUTION OF CHLORINE

00: -

The invention relates to a process for obtaining a electrode usable as a anode in electrolytic cells for the production of chlorine. The electrode thus obtained comprises a catalytic layer containing oxides of tin, ruthenium, iridium and titanium applied to a substrate of a valve metal.



21: 2021/00353. 22: 2021/01/18. 43: 2022/06/17 51: A61H; A61F 71: DTAMEDICAL 72: DUFAY, FRANÇOIS 33: FR 31: 1856414 32: 2018-07-12 54: TREATMENT METHOD AND APPARATUS WITH A SYSTEM FOR CONTROLLING THE FLOW OF THE GASEOUS MEDIUM 00: -

The invention relates to a treatment apparatus comprising an envelope that can be placed on or around a body part of a person such that the envelope has a positioning area (Z) for said body part of the person, the envelope being provided with an inlet (8) for a gaseous medium and an outlet for discharging the gaseous medium present in the envelope. According to the invention, the apparatus comprises a control system (11) for controlling the flow of the gaseous medium in order to direct the gaseous medium entering the envelope via the inlet (8) outside the positioning area (Z), and to homogenise the gaseous medium present in the envelope.



21: 2021/00388. 22: 2021/01/19. 43: 2022/06/29 51: B63H; F01N 71: COX POWERTRAIN LIMITED 72: EATWELL, JAMES

33: GB 31: 1811468.6 32: 2018-07-12 54: AN EXHAUST SYSTEM 00: -

The present invention relates to an exhaust system (24) for a combustion engine (30) of a marine vessel (1). The exhaust system (24) includes a flow redirection arrangement (48, 50, 56) in the exhaust gas flow path for restricting a flow of liquid flowing in the reverse flow direction towards the exhaust system inlet. The flow redirection arrangement includes at least one flow redirection feature configured to redirect a first stream of the liquid toward the forward flow direction to collide with a second stream of the flow of liquid. This produces turbulence and dissipates the kinetic energy of the incoming flow of liquid. The invention also relates to motor assemblies and marine vessels having such exhaust systems.



- 21: 2021/00389. 22: 2021/01/19. 43: 2022/06/29 51: A62C
- 71: TYCO FIRE PRODUCTS LP
- 72: RYCZEK, CHAD L
- 33: US 31: 62/697,745 32: 2018-07-13

54: CLOSE PROXIMITY NOZZLE SYSTEM

A vehicle includes a chassis, a body coupled to the chassis, a series of tractive elements coupled to the chassis, a hazard coupled to the chassis, and a fire suppression system. The fire suppression system includes a tank configured to contain a volume of fire suppressant, a nozzle having an outlet at least

selectively fluidly coupled to the tank and configured to release a spray of the fire suppressant therefrom, and an activator configured to selectively release the fire suppressant from the tank such that at least a portion of the fire suppressant passes through the outlet of the nozzle. The nozzle is oriented such that the spray is directed toward the hazard. The nozzle is positioned less than 8 inches away from the hazard.



- 21: 2021/00392. 22: 2021/01/19. 43: 2022/06/29 51: A61B
- 71: OCAK, UBBAT

72: OCAK, UBBAT, PAVELS PETERSEN, ERIK, RØNNINGEN, MARTIN W

33: NO 31: 20180994 32: 2018-07-16

54: A SUTURE MEMBER, SUTURING NEEDLE AND SUTURING DEVICE

00: -

An interrupted suture member comprises a flexible elongate member, having a first end and an opposite second end, and one or more detents configured for anchoring the suture member in soft tissue. The second end comprises a movable locking member, whereby a force exerted on the tissue may be adjusted by moving the locking member along at least a portion of the suture member. A suture needle comprising a notch for grabbing and holding an interrupted suture or a suture needle being hollow and comprising a slit sufficiently wide and long for easily insertion and guiding of a suture in the suture needle. A suturing insertion device for connecting to a suturing needle consisting two handles or a suturing apparatus comprises an arcuate suturing needle rotatably arranged in an apparatus housing, a cavity for holding a plurality of suture members,

and drive means to selectively rotate said suturing needle.



Fig. 43 (a)

21: 2021/00393. 22: 2021/01/19. 43: 2022/06/17 51: B60R; G06Q; G07C 71: CAMBRIDGE MOBILE TELEMATICS INC. 72: SHEA, KIMBERLY, MIRANO, GERONIMO, PARK, JUN-GEUN, BRADLEY, WILLIAM 33: US 31: 16/289,797 32: 2019-03-01 33: US 31: 16/035,861 32: 2018-07-16 54: VEHICLE TELEMATICS OF VEHICLE CRASHES

00: -

Among other things, a documentation of a crash involving a vehicle is generated automatically. Telematics data is received that has been produced by one or more sensors associated with a telematics device at the vehicle. Based on the telematics data, a vehicle crash period is determined that begins at a start time and ends at an end time of the vehicle crash. Based on the telematics data, one or more metrics are determined associated with the vehicle during the vehicle crash period. Based on one or more metrics, a human-readable documentation of the vehicle crash is generated automatically.



21: 2021/00424. 22: 2021/01/20. 43: 2022/06/29 51: B32B

71: AGRICULTURAL UTILIZATION RESEARCH INSTITUTE

72: GOSSE, JIMMY, JORGENSON, RANAE, ROOT, DOUGLAS, STUTELBERG, MICHAEL 33: US 31: 62/697,120 32: 2018-07-12 33: US 31: 16/508,424 32: 2019-07-11 54: COLLOIDAL BARRIER MATERIALS AND METHODS OF MAKING AND USING THE SAME 00: -

Some variations provide an emulsion-colloid system for forming a colloidal barrier material disposed on a substrate, the system comprising a hydrophilic first liquid, an acid, a gelling agent, a hydrophobic second liquid, a plasticizer, and optionally additives, wherein the emulsion-colloid system is characterized by (1) a first instance that is a flowable emulsion above 60C and less than the boiling point of the first liquid, and (2) a second instance that is a colloid below 40C. The emulsion colloid system is capable of reversible transition, mediated by temperature, between the first instance and the second instance. The disclosed colloidal barrier material provides the functionality of plastic alternatives while removing disadvantages. The disclosed colloidal barrier material reduces labor-intensive application of the barrier, such as the case for covering grain piles with plastic tarps. The disclosed colloidal barrier material also eliminates the need for removal when barrier protection is no longer required.

21: 2021/00428. 22: 2021/01/20. 43: 2022/06/29 51: A63C; G08C

71: HANGZHOU GUDI LIFE TECHNOLOGY CO., LTD.

72: YAO, QIAN

33: CN 31: 201811621213.0 32: 2018-12-28 33: CN 31: 201811111358.6 32: 2018-09-23 54: AN EXERCISE APPARATUS AND METHOD THEREOF

00: -

The present invention discloses an exercise apparatus and a method thereof and relates to the technical fields of physical exercise, training instruments, life cultivation and health preservation, leisure and entertainment, teaching appliances, smart home and the like. Through reverse thinking, by changing a shape, a structure, a function, a control method or/and a using method of an electric scooter, the electric scooter is switched to the fields of physical exercise or/and learning and education. By means of technical characteristics in an attempt to avoid by the technical staff, unexpected technical effects are achieved, and a new purpose of the electric scooter is achieved. The exercise apparatus carries a user to perform automatic round-trip movement, the user correspondingly adjusts physical and mental states to prevent from falling and the exercise apparatus is helpful for improving abilities of balancing, coordination, relaxation, flexibility, concentration and contingency of the user, so that a more convenient, relaxed and efficient learning and exercising effects are achieved.



21: 2021/00429. 22: 2021/01/20. 43: 2022/06/29 51: H04W

71: SHARP KABUSHIKI KAISHA, FG INNOVATION COMPANY LIMITED

72: ARAMOTO, MASAFUMI, TAKAKURA, TSUYOSHI 33: JP 31: 2018-117940 32: 2018-06-21

54: UE AND COMMUNICATION METHOD FOR SAME

00: -

User equipment (UE) that comprises a transmission unit that, when a public land mobile network (PLMN) is changed, when a first timer has been deactivated for one data network name (DNN) and an old PLMN but a second timer is not operating for the one DNN and a new PLMN and has not been deactivated, can transmit a PDU session establishment request message over the new PLMN for the one DNN or for no DNN without stopping the first timer. The present invention thereby provides a communication control method that, with respect to 5G congestion management in which a plurality of types of congestion management are applied, is for situations in which a PLMN has been changed during application of congestion management.



21: 2021/00437. 22: 2021/01/21. 43: 2022/07/07 51: A01G; C05F 71: VERITAS SUBSTRATES, LLC 72: NELSON, Steven Douglas, NELSON, Michael Dean, NELSON, Daniel Steven, JOHNSTON, David, NELSON, Scott Charles 33: US 31: 16/018,961 32: 2018-06-26

54: PLANT SUBSTRATE GROWING MEDIUM 00: -

Provided herein are methodology and composition for use of any nut (such as almond, walnut, or pistachio) or legume (peanut) shell and/or husk material in a growing substrate, with or without other components such as peat, perlite, or coir; for plant growth, whether it be used in its whole form or some reduced form such as, having been chipped or ground, and whether composted or not.



21: 2021/00442. 22: 2021/01/21. 43: 2022/06/29 51: A61K; C07K 71: BICYCLETX LIMITED 72: BESWICK, PAUL, CHEN, LIUHONG, MUDD, GEMMA ELIZABETH, PARK, PETER, VAN RIETSCHOTEN, KATERINE, RIGBY, MICHAEL 33: GB 31: 1815684.4 32: 2018-09-26 33: GB 31: 181684.4 32: 2018-09-26 33: GB 31: 1810250.9 32: 2018-01-13 33: GB 31: 1810250.9 32: 2018-06-22 33: GB 31: 1904632.5 32: 2019-04-02 54: BICYCLIC PEPTIDE LIGANDS SPECIFIC FOR NECTIN-4 00: -

The present invention relates to polypeptides which are covalently bound to molecular scaffolds such that two or more peptide loops are subtended between attachment points to the scaffold. In particular, the invention describes peptides which are high affinity binders of Nectin-4. The invention also includes drug conjugates comprising said peptides, conjugated to one or more effector and/or functional groups, to pharmaceutical compositions

comprising said peptide ligands and drug conjugates and to the use of said peptide ligands and drug conjugates in preventing, suppressing or treating a disease or disorder mediated by Nectin-4.

21: 2021/00480. 22: 2021/01/22. 43: 2022/06/20 51: H04N

71: Huawei Technologies Co., Ltd.

72: KOTRA, Anand Meher, CHEN, Jianle, ESENLIK, Semih, ZHAO, Zhijie, GAO, Han, WANG, Biao, KRASNOV, Ivan 33: US 31: 62/696,739 32: 2018-07-11 54: LUMA INTRA MODE SIGNALING

00: -

A method of coding implemented by a coding apparatus. The method includes selecting an intra prediction mode for a current block, and encoding the selected intra prediction mode using truncated binary coding when the selected intra prediction mode is a remaining mode.



21: 2021/00484. 22: 2021/01/22. 43: 2022/06/29 51: C07D; A61K; A61P 71: MEIJI SEIKA PHARMA CO., LTD. 72: KUMURA, KO, TAMURA, KEIJI, WATANABE, TAKASHI, TAKAHASHI, MICHIKO 33: JP 31: 2018-121413 32: 2018-06-27 **54: CRYSTAL OF BENZOXAZOLE DERIVATIVE** 00: -

Provided is a crystal of 1-((2-(3, 6diazabicyclo[3.1.1]heptane-3-yl)-7-(thiazole-2yl)benzo[d]oxazole-4-yl)oxy)-1,1-difluoro-2methylpropane-2-ol represented by formula (1).



21: 2021/00527. 22: 2021/01/25. 43: 2022/06/29 51: A61J; B32B 71: FRESENIUS KABI DEUTSCHLAND GMBH 72: BRANDENBURGER, TORSTEN, HEUEL-HOEMMEN, BEATRIX 33: EP 31: 18189930.3 32: 2018-08-21 54: INFUSION BAG 00: -

The invention relates to a medical package designed as an infusion bag, which medical package is made from multi-layer films that are welded to one another and is filled with a medical liquid for infusion and/or for parenteral nutrition. The invention is described by a medical package designed as an infusion bag, which is made up of a film comprising multiple layers welded to one another and has at least one weld seam, preferably longitudinal and transverse weld seams, and is filled with a medical liquid. The multilayer film has at least one inner layer of a matrixphase polymer system, an intermediate layer of a matrix-phase polymer system, and an outer layer of a matrix-phase polymer system. The matrix polymer of the matrix-phase polymer system of the inner layer, the intermediate layer and the outer layer in each case comprises a polypropylene polymer (PP) having defined parts by weight in the individual layers, and the phase polymer of the matrix-phase polymer system of the inner layer, the intermediate layer and the outer layer in each case comprises a styrene-ethylene/butyl-styrene block copolymer (SEBS) having defined parts by weight in the individual layers. The film is characterised in that the styrene-ethylene/butyl-styrene block copolymer (SEBS) of the intermediate layer has a styreneethylene/butylene ratio (S/EB_M) and the styreneethylene/butylene-styrene block copolymer (SEBS)

of the outer layer has a styrene-ethylene/butylene ratio (S/EB_A), in which S/EB_A> S/EB_M. It has been shown that in this way the mechanical properties of the multi-layer film can be improved, in particular in the event of expansion of the multi-layer film in the region of the weld seams. The improved mechanical properties appear both at room temperature and also at lower temperatures of down to 4 °C.



21: 2021/00528. 22: 2021/01/25. 43: 2022/06/29 51: B01D

71: JIANGNAN ENVIRONMENTAL PROTECTION GROUP INC.

72: LUO, JING, QI, LIFANG

33: US 31: 16/191,852 32: 2018-11-15 33: CN 31: 201810804898.6 32: 2018-07-20 54: ACID GAS TREATMENT

00: -

Apparatus and methods for treating acid gas (1), which utilize multi-stage absorption cycle of ammonia (9) desulfurization to treat acid tail gas (6) after pre-treatment of the acid gas (1), thereby achieving the purpose of efficient and low-cost treatment of acid tail gas (6). The parameters of the acid tail gas (6) may be adjusted by a regulatory system (7) such that the enthalpy value of the acid tail gas (6) is in the range of 60-850 kJ/kg dry gas, to meet the requirements of ammonia (9) desulfurization, and achieve the synergy between the acid gas (1) pre-treatment and ammonia (9) desulfurization. Furthermore, hydrogen sulfide may be converted into sulfur/sulfuric acid (3) plus ammonium sulfate (11) at an adjustable ratio.



21: 2021/00531. 22: 2021/01/25. 43: 2022/06/29 51: F42C 71: FOWLDS 3 LIMITED

72: KRIEL, JOHANNES NICOLAAS 33: ZA 31: 2018/04858 32: 2018-07-19

54: A NON-DETONATING CARTRIDGE 00: -

This invention relates to a non-detonating cartridge containing an explosive composition, and more particularly but not exclusively to a non-detonating cartridge having enhanced safety characteristics. The cartridge includes a container including a cavity suitable for receiving a low explosive composition; an initiator, for in use initiating the explosive composition inside the cavity; and a shielding member which is displaceable relative to the container between a safe position, in which the initiator is shielded from the cavity such that initiation of the initiator does not result in initiation of the explosive composition, and a live position in which the initiator is exposed to the cavity to permit initiation of the explosive composition. The cartridge is characterised in that the shielding member is slideably displaceable relative to the container.



21: 2021/00532. 22: 2021/01/25. 43: 2022/06/29 51: F28D

71: ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS "ARMINES" 72: ZOUGHAIB, ASSAAD 33: FR 31: 1856934 32: 2018-07-25 **54: HEAT AND MATERIAL EXCHANGER** 00: -

This exchanger (100) comprises: - membranes (30) that are substantially parallel and vertical, permeable to vapor and impermeable to a liquid, these membranes defining zones, each of said zones alternately belonging to a first type of zone and a second type of zone; - the zones of the first type comprising a spray nozzle (20) in the upper portion, which is configured to vaporize a liquid along a plane (R) that is substantially parallel to the membranes, and a first collector (50) in the lower portion, which is independent and separate from the zones of the second type, - a first pipe (10) supplying the spray nozzles (20) of the zones (Z20) of the first type with a liquid.



21: 2021/00547. 22: 2021/01/26. 43: 2022/06/29 51: A24B

71: PHILIP MORRIS PRODUCTS S.A.

72: DEFOREL, Corinne, LANG, Gerhard, LESUFFLEUR, Céline, VUARNOZ-BIZE, Aline, ARNDT, Daniel

33: EP 31: 18199205.8 32: 2018-10-08 54: NOVEL CLOVE-CONTAINING AEROSOL-GENERATING SUBSTRATE 00: -

An aerosol-generating article

(1000)(4000a,4000b)(5000) comprising an aerosolgenerating substrate (1020), the aerosol-generating substrate comprising a homogenised plant material including clove particles, wherein the aerosolgenerating substrate (1020)(4020a, 4020b)(5020) comprises: at least 125 micrograms of eugenol per gram of the substrate, on a dry weight basis; at least 125 micrograms of eugenol-acetate per gram of the substrate, on a dry weight basis; and at least 1 microgram of beta-caryophyllene per gram of the substrate, on a dry weight basis.



21: 2021/00572. 22: 2021/01/26. 43: 2022/06/29 51: H04W

- 71: NTT DOCOMO. INC.

72: TAKEDA, KAZUKI, NAGATA, SATOSHI, WANG, LIHUI, GUO, SHAOZHEN, HOU, XIAOLIN

54: USER TERMINAL

00: -

In order to properly control half-duplex

communication in the future radio communication system, a user terminal according to an aspect of the present disclosure includes a receiving section that receives information about a slot format for one or more cells, and a control section that determines a slot format of each cell based on the information about the slot format, and whether full-duplex communication is supported, or whether simultaneous transmission and reception of a UL signal and a DL signal is supported.



21: 2021/00573. 22: 2021/01/26. 43: 2022/06/29 51: C08L; A61K; A61Q 71: UNILEVER GLOBAL IP LIMITED 72: THOMAS, MATTHEW RHYS, WESTWELL, JEREMY ROBERT, WOOD, SALLY ELIZABETH, QUENBY-MA, SOPHIA ISABEL ALICE 33: EP 31: 18186422.4 32: 2018-07-30 **54: HAIR CLEANSING COMPOSITION** 00: -

Hair care cleansing composition comprising – a) from 1 to 50 wt % of a cleansing surfactant selected from the group consisting of anionic surfactant, zwitterionic or amphoteric surfactant, non- ionic and mixtures thereof; and b) from 0.01 to 3 wt %, by weight of the total composition, of defibrillated primary cell wall material comprising cellulose microfibrils, wherein • the defibrillated primary cell wall material comprises up to 20 wt. % of water, based on the total weight of the fibrils; and wherein • the cellulose has an average degree of crystallinity of less than 50 %, and wherein • the defibrillated primary cell wall material comprises polyols distributed between the fibrils.

21: 2021/00603. 22: 2021/01/27. 43: 2022/06/29 51: A61K; A61Q 71: UNILEVER GLOBAL IP LIMITED 72: DOUGHERTY, LINDSAY KAITLIN, MILLER, JAMIE LYNN, VASUDEVAN, TIRUCHERAI VARAHAN

33: EP 31: 18186321.8 32: 2018-07-30 54: ENHANCED MOISTURIZER DEPOSITION IN CLEANSING LIQUIDS CONTAINING HYDROPHOBICALLY OR NON-HYDROPHOBICALLY MODIFIED ANIONIC POLYMERS 00: -

The invention relates to compositions comprising hydrophobically and non-hydrophobially modified cross-linked anionic polymers which have been found to minimally hinder deposition of moisturizers in compositions comprising cationic deposition polymers.

21: 2021/00605. 22: 2021/01/27. 43: 2022/06/29 51: F28D 71: ETH ZÜRICH 72: GEISSBÜHLER, LUKAS, HASELBACHER, ANDREAS CHRISTIAN 33: EP 31: 18185902.6 32: 2018-07-26 54: THERMOCLINE CONTROL METHOD 00: -

The present invention to provide a method of operating a thermal energy storage device comprising a body of heat transfer fluid, said body of heat transfer fluid comprising an upper temperature region comprising heat transfer fluid having a temperature above a upper threshold temperature, a lower temperature region comprising heat transfer fluid having a temperature below a lower threshold temperature and a thermocline region separating the upper and lower temperature regions and comprising heat transfer fluid having a temperature above a lower threshold temperature and below an upper threshold temperature, wherein during charging of the thermal energy storage device, heat transfer fluid is removed from the thermocline region of the body of heat transfer fluid and when the temperature of the heat transfer fluid being removed from the thermocline region of the body of heat transfer fluid rises above a maximum temperature, said heat transfer fluid being removed is brought to a temperature equal to or below said maximum temperature, wherein the maximum temperature is above the lower threshold temperature and/or wherein during discharging of the thermal energy storage device, heat transfer fluid is removed from the thermocline region of the body of heat transfer fluid and when the temperature of the heat transfer fluid being removed from the thermocline region of
the body of heat transfer fluid falls below a minimum temperature, said heat transfer fluid being removed is brought to a temperature equal to or above said minimum temperature, wherein said minimum temperature is below the upper threshold temperature.



21: 2021/00628. 22: 2021/01/28. 43: 2022/06/29 51: B02C; G01B; G02B; G01N 71: H-E PARTS INTERNATIONAL CRUSHING SOLUTIONS PTY LTD 72: ZEC, DRAGAN 33: AU 31: 2019901353 32: 2019-04-18 54: WEAR SENSING LINER 00: -

A wear sensing liner for a comminution apparatus. The wear sensing liner comprising: a liner body comprising; a wear surface side defining a wear surface; and an opposed, operatively rear surface side; and at least one sensor carried by the liner body. The at least one sensor being carried by the liner body to sense wear of the wear surface side of the liner body. The at least one sensor being configured to degrade in response to wear of the wear surface side of the liner body and to output a signal representative of the wear of the wear surface side of the liner body.



21: 2021/00630. 22: 2021/01/28. 43: 2022/06/29 51: C11D 71: UNILEVER GLOBAL IP LIMITED 72: ACHARYA, KOUSHIK, HIBARE, SUJITKUMAR SURESH, SARKAR, ARPITA, SUBRAHMANIAM, NARAYANAN 33: EP 31: 18188864.5 32: 2018-08-14 54: FUNCTIONALIZED INORGANICS FOR

IMPROVED DELIVERY OF BENEFIT AGENTS TO A FABRIC 00: -

The invention relates to a laundry detergent composition comprising benefit agent containing delivery particles, wherein at least 90% of the particles are of less than about 20µm, wherein said particles comprise at least 70 wt% of an inorganic material and 0.1 to 20wt% of at least one benefit agent, and wherein the particles are produced by coprecipitating said inorganic material in the presence of the at least one benefit agent in situ. The present invention also pertains to a method for imparting a desired benefit to a fabric, comprising the step of contacting the fabric with an aqueous solution of the aforementioned laundry detergent composition comprising benefit agent containing delivery particles.

21: 2021/00646. 22: 2021/01/29. 43: 2022/06/17 51: C12N; C12P 71: LANZATECH NZ, INC. 72: KOEPKE, MICHAEL, JENSEN, RASMUS OVERGAARD, BEHRENDORFF, JAMES BRUCE YARNTON HAYCOCK, HILL, RYAN EDWARD,

JUMINAGA, DARMAWI, MUELLER, ALEXANDER PAUL

33: US 31: 62/240,850 32: 2015-10-13 54: GENETICALLY ENGINEERED BACTERIUM COMPRISING ENERGY-GENERATING FERMENTATION PATHWAY

00: -

The invention relates to a genetically engineered bacterium comprising an energy-generating fermentation pathway and methods related thereto. In particular, the invention provides a bacterium comprising a phosphate butyryltransferase (Ptb) and a butyrate kinase (Buk) (Ptb-Buk) that act on nonnative substrates to produce a wide variety of products and intermediates. In certain embodiments, the invention relates to the introduction of Ptb-Buk into a C1-fixing microoorgansim capable of producing products from a gaseous substrate.



21: 2021/00649. 22: 2021/01/29. 43: 2022/06/29 51: A61L; B01D; G01N 71: GENZYME CORPORATION 72: PATIL, Rohan, VARNER, Chad 33: US 31: 62/726,043 32: 2018-08-31 54: STERILE CHROMATOGRAPHY RESIN AND USE THEREOF IN MANUFACTURING PROCESSES 00: -

Provided herein are methods of reducing bioburden of a chromatography resin that include exposing a container including a composition including (i) a chromatography resin and (ii) a liquid including at least on alcohol to a dose of gamma-irradiation sufficient to reduce the bioburden of the container and the chromatography resin, where the at least one alcohol are present in an amount sufficient to ameliorate the loss of binding capacity of the chromatography resin after/upon exposure to the dose of gamma-irradiation. Also provided are reduced bioburden chromatography columns including the reduced bioburden chromatography resin, compositions including a chromatography resin and a liquid including at least one alcohol, methods of performing reduced bioburden column chromatography using one of these reduced bioburden chromatography columns, and integrated, closed, and continuous processes for reduced bioburden manufacturing of a purified recombinant protein.



21: 2021/00703. 22: 2021/02/01. 43: 2022/06/29 51: C07K; A61K; A61P 71: UNIVERSITY OF MIAMI 72: KEANE, ROBERT W, DIETRICH, W. DALTON, DE RIVERO VACCARI, JUAN PABLO, BRAMLETT, HELEN M, BRAMBILLA, ROBERTA 33: US 31: 16/026,482 32: 2018-07-03 54: COMPOSITIONS AND METHODS FOR TREATING INFLAMMASOME RELATED DISEASES OR CONDITIONS 00: -

The compositions and methods described herein include agents that inhibit inflammasome signaling in the mammal such as antibodies directed against inflammasome components used alone or in combination with extracellular vesicle uptake inhibitor(s). Also described herein are compositions and methods of use thereof for treating inflammasome related diseases or conditions.



21: 2021/00719. 22: 2021/02/02. 43: 2022/06/17 51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: FOTOPOULOU, Eleni, MULTRUS, Markus, DICK, Sascha, MARKOVIC, Goran, MABEN, Pallavi, KORSE, Srikanth, BAYER, Stefan, DISCH, Sascha, HERRE, Jürgen

33: EP 31: 18181767.7 32: 2018-07-04 54: MULTISIGNAL AUDIO CODING USING SIGNAL WHITENING AS PREPROCESSING 00: -

A multisignal encoder for encoding at least three audio signals, comprises: a signal preprocessor (100) for individually preprocessing each audio signal to obtain at least three preprocessed audio signals, wherein the preprocessing is performed so that a preprocessed audio signal is whitened with respect to the signal before preprocessing; an adaptive joint signal processor (200) for performing a processing of the at least three preprocessed audio signals to obtain at least three jointly processed signals or at least two jointly processed signals and an unprocessed signal; a signal encoder (300) for encoding each signal to obtain one or more encoded signals; and an output interface (400) for transmitting or storing an encoded multisignal audio signal comprising the one or more encoded signals, side information relating to the preprocessing and side information relating to the processing.



21: 2021/00722. 22: 2021/02/02. 43: 2022/06/10 51: B01D; B01J; C10M; F16N 71: 1441413 ALBERTA INC. DBA EPT 72: DUFRESNE, Peter, T. Jr., HOBBS, Matthew 33: US 31: 62/718,638 32: 2018-08-14 **54: HIGHLY POROUS LUBRICANT CONDITIONING AND REMEDIATION MEDIA** 00: -The present invention is a solid lubricant treatment

medium, usually but not always in bead form. suitable to be brought into contact with lubricants to remediate and to condition them. A key feature of the medium, typically a polymeric resin, is the presence of relatively very large pores, which are able to capture and remove fine lubricant contaminants and breakdown products (such as small phosphate ester varnish, soot, coke, dissolved metal or other small semi-soluble or insoluble particles), Resins and adsorbents of the prior art have proven unable to remove fine contaminants like phosphate ester varnish that have a deleterious impact on industrial equipment performance and reliability. The mean pore size diameter of the medium is between about 8.000 Å and 100.000 Å and, more preferably, in the range of about 20,000 Å to about 80,000 Å.



21: 2021/00729. 22: 2021/02/02. 43: 2022/07/25 51: F42D

71: DETNET SOUTH AFRICA (PTY) LTD

72: MAURISSENS, Daniel August Julien Louis, MULLER, Elmar Lennox

33: ZA 31: 2018/05468 32: 2018-08-16 54: BIDIRECTIONAL WIRELESS DETONATOR SYSTEM

00: -

A blasting system which includes control equipment and a plurality of detonators which are located in respective boreholes, wherein signals from the detonators are transmitted to the control equipment via different paths between successive detonators, and wherein a signal from the control equipment can be simultaneously transmitted to all of the detonators.



21: 2021/00762. 22: 2021/02/03. 43: 2022/06/29 51: B66C; F03G 71: ENERGY VAULT, INC.

72: PEDRETTI, ANDREA, GROSS, WILLIAM 33: US 31: 62/700,694 32: 2018-07-19

- 33: US 31: 62/800,919 32: 2019-02-04
- 33: US 31: 62/800,919 32: 2019-02-04 33: US 31: 62/800,905 32: 2019-02-04
- 33: US 31: 62/800,929 32: 2019-02-04

54: ENERGY STORAGE SYSTEM AND METHOD 00: -

A an energy storage system (100, 100a) includes a crane (101) and a plurality of blocks (150), where the crane is operable to move blocks from a lower elevation to a higher elevation (via stacking of the blocks) to store electrical energy as potential energy of the blocks, and then operable to move blocks from a higher elevation to a lower elevation (via unstacking of the blocks) to generate electricity based on the kinetic energy of the block when lowered (e.g., by gravity).



21: 2021/00764. 22: 2021/02/03. 43: 2022/06/29 51: F24D 71: BASIC HOLDINGS 72: BETZ, MARTIN 33: GB 31: 1811105.4 32: 2018-07-06 54: DISTRIBUTED HEATING AND COOLING NETWORK 00: -

A distributed heating and cooling network is described. In one aspect a distributed heating and cooling network used in a district heating architecture is described.



21: 2021/00765. 22: 2021/02/03. 43: 2022/06/29 51: A61K

71: BIOTHEA PHARMA, INC.

72: SOMMADOSSI, JEAN-PIERRE, MOUSSA, ADEL

33: US 31: 62/731,442 32: 2018-09-14 33: US 31: 62/711,936 32: 2018-07-30 54: CRYSTALLINE EPINEPHRINE MALONATE

SALT

00: -

Described herein are epinephrine salts, specifically the epinephrine malonate salt; the epinephrine malonate salt in crystalline form; a pharmaceutical composition comprising epinephrine malonate; a sublingual or buccal pharmaceutical composition comprising epinephrine malonate in crystalline form; and a method for treating a patient comprising administering a pharmaceutical composition of epinephrine malonate in crystalline form.



21: 2021/00792. 22: 2021/02/04. 43: 2022/06/29 51: C11D 71: UNILEVER GLOBAL IP LIMITED 72: BENNETT, JULIE, CARSWELL, ROBERT JOHN, GREEN, ANDREW DAVID, PARRY, ALYN JAMES, TUERK, HOLGER MICHAEL, HOLCOMBE III, THOMAS WESLEY 33: EP 31: 18188543.5 32: 2018-08-10 54: DETERGENT

00: -

The invention provides a liquid laundry detergent composition comprising ethoxylated polyethyleneimine (EPEI) for an improved product viscosity profile without impairing cleaning performance; the detergent composition comprising: a) from 6 to 50% (by weight based on the total weight of the composition) of one or more detersive surfactants selected from non-soap anionic surfactants, nonionic surfactants and mixtures thereof, and b) from 2 to 15% of an ethoxylated polyethyleneimine (EPEI) having a polyethyleneimine backbone derived from a polyethylene starting material and made up of repeating -[(CH₂CH₂)N]- subunits; and one or more polyoxyethylene side chains which are bonded to internal and/or terminal nitrogen atoms in the polyethyleneimine backbone; in which the polyethyleneimine starting material has an average molecular weight (M_w) ranging from 1800 to 5000 g/mol (prior to ethoxylation), and the polyoxyethylene side chains have an average of from 25 to 40 ethoxy units per side chain bonded to the polyethyleneimine backbone.

21: 2021/00793. 22: 2021/02/04. 43: 2022/06/29 51: B29C; A61J

71: FRESENIUS KABI DEUTSCHLAND GMBH 72: WITTORF, JOERN, WEGNER, GERALD, LENHARDT, TOBIAS

33: EP 31: 18196536.9 32: 2018-09-25 54: CONTOUR-FORMING WELDING TOOL FOR PULSE WELDING AND CONTOUR-FORMING PULSE WELDING METHOD FOR A MEDICAL PACK FORMED AS A BAG 00: -

The invention relates to a welding tool and to a method for pulse welding of plastic films for medical packs formed as bags. In general, the invention provides that the film material which is plastified during welding and thus free-flowing is specifically displaced into a deepened, edge-side inner region of the sealing surface by increasing the sealing surface area. The film material accumulated in the recess leads to an increase in the film thickness in the inner region (25i) of the weld seam (6, 7, 8). As a result, the mechanical stability of the medical pack formed as a bag can be improved.



21: 2021/00794. 22: 2021/02/04. 43: 2022/06/29 51: A61K; A61P

71: TRUSTEES OF BOSTON UNIVERSITY 72: SCHAUS, SCOTT EDWARD, HANSEN, ULLA, CHIN, HANG GYEONG

33: US 31: 62/713,741 32: 2018-08-02 54: LATE SV40 FACTOR (LSF) INHIBITORS 00: -

The present invention is directed to compositions, methods and kits for treatment of cancer, e.g. heptacellular carcinoma (HCC). In some embodiments, the present invention discloses the use of a small-molecule compounds of Formula (I)-(V) to inhibit tubulin methylation or to modulate chromatin or cytoskeleton modification in a cell.



21: 2021/00815. 22: 2021/02/05. 43: 2022/06/24 51: B01D; C25C 71: REEL ALESA AG 72: SORHUUS, Anders Kenneth, OSE, Sivert 33: EP 31: 18173125.8 32: 2018-05-18 54: APPARATUS AND METHOD FOR CONTROLLED ALUMINA SUPPLY 00: -

An apparatus and a method are useful for removing pollutants from process effluent gas produced by an electrolytic cell used in an aluminum production plant to produce aluminum. The apparatus and method use a flow control device to control alumina supply to an electrolytic cell and to a dry scrubber contact reactor.



21: 2021/00843. 22: 2021/02/08. 43: 2022/06/10 51: A61K; A61P

71: STELLENBOSCH UNIVERSITY 72: KLUMPERMAN, Lubertus, RAUTENBACH, Marina, JOKONYA, Simbarashe 33: ZA 31: 2019/07417 32: 2019-11-08 54: CONJUGATE FOR TREATING CANCER 00: -

A peptide-polymer conjugate is provided for use in treating cancer. The conjugate is formed from a polymer to which a peptide is conjugated, the peptide being a cyclic decapeptide from the closely-related group of tyrocidines, tryptocidines and phenycidines, all of which have an amino acid sequence of cyclo(X1-X2-Leu3-D-X4-Pro5-X6-X7-Asn8-X9-X10) (SEQ ID NO: 1). The polymer is a hydrophilic and biocompatible polymer with a terminal thiol, such as poly(N-vinylpyrrolidone) (PVP). The polymer chains can be decorated with a targeting ligand that specifically targets cancer cells. A method for synthesising the peptide-polymer conjugate is also provided.

21: 2021/00976. 22: 2021/02/12. 43: 2022/07/25 51: A61K; C07D; A61P 71: SANIONA A/S 72: LARSEN, Janus S., AMRUTKAR, Dipak, JACOBSEN, Thomas Amos, DYHRING, Tino, NIELSEN, Karin Sandager 33: EP 31: 18194297.0 32: 2018-09-13 54: A GABAA RECEPTOR LIGAND 00: -

The present invention relates to 2-(3-(3-(2,4dimethoxypyrimidin-5-yl)phenyl)-3H-imidazo[4,5b]pyridin-6-yl)propan-2-ol, which is useful as a GABA receptor modulator. In one embodiment, said compound is useful in the treatment of pain, neuropathic pain and/or itch.

21: 2021/01006. 22: 2021/02/15. 43: 2022/06/29 51: C07D

71: SANOFI

71. SANUFI

72: TABART, Michel, RABION, Alain, WEHREY, Christian

33: EP 31: 18306177.9 32: 2018-09-07 54: PROCESS FOR THE PREPARATION OF METHYL 6-(2,4-DICHLOROPHENYL)-5-[4-[(3S)-1-(3-FLUOROPROPYL)PYRROLIDIN-3-YL]OXYPHENYL]-8,9-DIHYDRO-7H-BENZO[7]ANNULENE-2-CARBOXYLATE 00: -

Herein is provided a novel process for the preparation of methyl 6-(2,4-dichlorophenyl)- 5-[4-

[(3S)-1-(3-fluoropropyl)pyrrolidin-3-yl]oxyphenyl]-8,9dihydro-7H-benzo[7]annulene-2- carboxylate by a Suzuki coupling of compound (3), wherein LG represents a leaving group, with an organoboron reagent: (3). Compound (3) is obtained by activation of compound (4) with a leaving group LG, and compound (4) is obtained by alpha-arylation of methyl 5-oxo-6,7,8,9-tetrahydro-5Hbenzo[7]annulene-2-carboxylate with 1-LG'-2,4dichlorobenzene, wherein LG' represents a leaving group: (4).





21: 2021/01051. 22: 2021/02/16. 43: 2022/06/17 51: A61P; C07K

71: Citryll B.V.

72: RAATS, Jozef Maria Hendrik, CHIRIVI, Renato Gerardus Silvano, VAN ROSMALEN, Johannes Wilhelmus Gerardus

33: GB 31: 1813597.0 32: 2018-08-21 54: ANTIBODIES BINDING TO CITRULLINATED HISTONE 2A AND/OR 4

00: -

The invention provides antibodies or binding fragments thereof directed against citrullinecontaining epitopes. The antibodies or binding fragments thereof of the invention can be used in therapy, for example in the treatment or prevention of Neutrophil Extracellular Trap (NET)-associated pathologies. 21: 2021/01080. 22: 2021/02/17. 43: 2022/06/29 51: A61K; A61P 71: NYMOX CORPORATION 72: AVERBACK, Paul 33: US 31: 16/110,549 32: 2018-08-23 54: METHOD OF INDUCING SELECTIVE PROSTATE GLANDULAR PHARMACO-ABLATION WITH SPARING OF NERVES AND PRESERVATION OF SEXUAL FUNCTION 00: -

Disclosed are methods of selective glandular pharmaco-ablation using compositions containing compounds based on small peptides and a pharmaceutically acceptable carrier. The methods of selectively destroying prostate gland overgrowth substantially or completely preserve key nerve, stromal, vascular, connective tissue, urethral musculature, and structural elements in intimate structural proximity to the foci of ablation.



21: 2021/01187. 22: 2021/02/22. 43: 2022/06/20 51: H04W; H04L 71: IDAC HOLDINGS, INC. 72: RUDOLF, MARIAN, MARINIER, PAUL, ALFARHAN, FARIS, WATTS, DYLAN JAMES, PELLETIER, GHYSLAIN, LEE, MOON-IL, BALA, ERDEM, STERN-BERKOWITZ, JANET A, HAGHIGHAT, AFSHIN 33: US 31: 62/753,597 32: 2018-10-31 33: US 31: 62/886,083 32: 2019-08-13 33: US 31: 62/720,547 32: 2018-08-21 33: US 31: 62/752.797 32: 2018-10-30 33: US 31: 62/735,939 32: 2018-09-25 33: US 31: 62/840,935 32: 2019-04-30 54: METHODS AND APPARATUS FOR WIRELESS TRANSMIT/RECEIVE UNIT (WTRU) **POWER CONTROL** 00: -

Methods and apparatus for wireless transmit/receive unit (WTRU) power control are described. A method includes receiving a time domain resource allocation (TDRA) list configuration including entries, each including a resource allocation that includes a slot offset value. L1 signaling is received indicating a minimum slot offset value. Downlink control information (DCI) is decoded on a physical downlink control channel in a slot. An index is obtained from the decoded DCI, identifying an entry in the TDRA list. A particular slot offset value identified by the index is retrieved from the TDRA list and compared with the minimum slot offset value. If the particular slot offset value is less than the minimum slot offset value, the entry is invalid. If the particular slot offset value is greater than or equal to the minimum slot offset value, a physical downlink shared channel is received.



21: 2021/01418. 22: 2021/03/02. 43: 2022/07/27 51: E21F

71: CCTEG Chongqing Research Institute Co., Ltd 72: Zhang Yongjiang, Guolindong, Zhao Xusheng, Lu Zhanjin, Sun Haitao, Xu Zunyu, Liu Yanbao, Li Chengcheng, Yang Huiming, Huang Zhenfei, Ji Fei, Liu Yongsan, Li Shuai

33: CN 31: CN202011539778.1 32: 2020-12-23 54: EXTERNAL GROUTING COMPENSATORY STRUCTURE OF HOLE SEALING AND METHOD FOR GAS EXTRACTION BOREHOLES 00: -

The field of invention is about coal seam gas extraction. It relates to an external grouting compensatory structure and method of hole sealing for a gas extraction borehole, which means that auxiliary boreholes are constructed around the slotted sealing extraction borehole and connected

with circular slots of a hole sealing section of the extraction borehole to form an external grouting compensatory structure of hole sealing. The auxiliary boreholes are grouted with a higher pressure that forces the cement mortar to diffuse into slots and the sealing section of extraction borehole, so as to achieve the compensatory effect of external grouting and help the grouting to plug fissures around the borehole. When being grouted, a circular slot plays a role of connection. After the cement mortar solidifies, a blocking baffle is formed to block gas leakage of the borehole. Besides, the auxiliary boreholes relieve some pressures to a certain extent and prevent the coal in the hole sealing section from deformation to affect the hole sealing quality. The invention can effectively promote the hole sealing slurry to sealing the cracks around the borehole, improve the stress distribution around the boreholes, perform much better in sealing the gas extraction borehole and strengthen the gas extraction.



21: 2021/01424. 22: 2021/03/02. 43: 2022/06/17 51: H04W

71: NTT DOCOMO, INC.

72: MATSUMURA, YUKI, NAGATA, SATOSHI, WANG, JING, HOU, XIAOLIN 54: USER TERMINAL AND RADIO COMMUNICATION METHOD 00: -

In order to assume an appropriate base station beam (TCI state) during a period after an RRC reconfiguration procedure and before MAC CE activation in future radio communication systems, one aspect of a user terminal of the present disclosure includes: a receiving section that receives a PDCCH (Physical Downlink Control Channel) after transmission of an RRC (Radio Resource Control) reconfiguration complete message; and a control section, when the RRC reconfiguration involves a random access procedure, assumes that a synchronization signal block or a channel state information reference signal identified during the random access procedure and the PDCCH are quasi-co-located.



21: 2021/01434. 22: 2021/03/02. 43: 2022/06/17 51: B60C

71: BAOLONG HUF SHANGHAI ELECTRONIC CO., LTD.

72: FENG, Meilai, LI, Wei, SHI, Weihua, QIU, Zhenfang, XU, Changwu, TONG, Zuofei, HONG, Dongdeng, YANG, Tinghua

33: CN 31: 201810949819.0 32: 2018-08-20 54: TPMS TRANSMITTER FIXING STRUCTURE AND ASSEMBLING STRUCTURE 00: -

A TPMS transmitter (100) fixing structure, comprising a valve stem and a core rod (200) in the middle of the valve stem, the core rod (200) having a connector suitable for connecting to the TPMS transmitter (100), and also comprising a protruding part protruding outward along the radial direction of the valve stem, such that, when the valve stem is mounted on a wheel rim (300) of an automobile, the protruding part is in contact with the wheel rim (300); adding a protruding part to the valve stem can counteract the rotational torque produced by the eccentricity and centrifugal force of the transmitter to forcefully prevent rotation of the transmitter during operation, and limits the mounting direction of the TPMS transmitter, ensuring that the TPMS transmitter is not biased when mounted on the wheel rim, and effectively reducing the risk of the loss of function or reduction in performance of the TPMS transmitter due to biased or backward mounting of the TPMS transmitter.



21: 2021/01438. 22: 2021/03/03. 43: 2022/07/27 51: E21B

71: CCTEG Chongqing Research Institute Co., Ltd 72: Zhang Yongjiang, Guo lindong, Zhao Xusheng, Lu Zhanjin, Li Chengcheng, Niu Xin'gang, Xu Zunyu, Huang Zhenfei, Ji Fei, Yuan Benqing, Liu Yongsan, Li Shuai, Liu Huaifu

33: CN 31: CN202110004028.2 32: 2021-01-04 54: HYDRAULIC CUTTING DRILL HOLE CINDER CONVEYING AND SEPARATING DEVICE 00: -

The present invention belongs to the field of gas extraction drill hole cinder cleaning of coal mines, and relates to a hydraulic cutting drill hole cinder conveying and separating device used for separating cinders and gas in a drill hole during processes of drilling with a drill rod and cutting, comprising a drill hole cinder collecting device, a cinder collecting box, a cinder conveying pump and a cinder separator which are connected in sequence through slurry pipes and an automatic control system used for controlling start-stop of the cinder conveying pump and the cinder separator; and the drill hole cinder collecting device is sleeved on the end of a drill hole in the outer side of a drill rod, the drill hole cinder collecting device, the cinder collecting box and the cinder conveying pump are connected to a main extraction pipe through gas extraction pipes, and a mixing impeller is arranged in the cinder collecting box. The device can realize automatic start-stop, is simple to operate, and can effectively reduce the labor input cost of cinder cleaning work and the working strength of on-site staff.



21: 2021/01442. 22: 2021/03/03. 43: 2022/06/29 51: B23K

- 71: KOSTECKI, Andrew
- 72: KOSTECKI, Andrew
- 33: US 31: 62/732,041 32: 2018-09-17
- 33: US 31: 16/359,588 32: 2019-03-20
- 33: US 31: 62/874,569 32: 2019-07-16

54: FUSED OVERLAY PLATE AND METHOD 00: -

An electronically controlled apparatus for the manufacture of fused overlay plate including a conveyor assembly, two hopper assemblies, a number of wire feeder assemblies, and a perforated cooling drum to produce a metal plate with a fused weld overlay that is harder, more impact resistant, and demonstrates a longer lifespan with respect to abrasion than known in the prior art. A spring-loaded ground (earth) assembly with tensioned feet is configured to contact the metal plate to provide direct grounding. The apparatus includes two hoppers or boxes: a first hopper connected with a raking apparatus, whereby the assembly is vertically adjustable to accommodate the thickness of the plate to be clad as desirable, and whereby the apparatus maintains a uniform thickness of a first media such as a metal powder in preparation for fusion with the base metal plate; and a second hopper connected with a raking apparatus, whereby the assembly is vertically adjustable to accommodate the thickness of the plate to be clad as desirable, and whereby the apparatus maintains a uniform thickness of a second media such as an insulating powder in preparation for fusion with the base metal plate. Each head in each of the wire feeder assemblies further includes a gear-driven, individual filler-metal feed unit that is liquid- or gascooled and that supplies electrical current to a power

head which supplies voltage and current through insulating element(s), continuing through the metal powder to contact the metal base plate, and in so doing creates a metallurgical fusion bonding. Each power head is individually controlled and every other power head is configured to permit a transverse "scissor" horizontal motion with an oscillating backward/forward of the forward indexing motion of the base metal plate in a multi-axis movement pattern designed to form a variety of weld patterns as may be desirable. The metal plate is passed along the conveyor over, between, and/or among a battery of sensors that feedback data instantaneously to the electronic control logic, which in turn can make instantaneous changes to the manufacturing process to reduce variability between plates.



21: 2021/01458. 22: 2021/03/03. 43: 2022/06/17 51: H01L

71: UNIVERSITY OF SOUTH AFRICA 72: SRINIVASAN, ANANTHAKRISHNAN, VALLABHAPURAPU, SREEDEVI, VALLABHAPURAPU, VIJAYA SRINIVASU 33: ZA 31: 2018/08000 32: 2018-11-27 54: NON-VOLATILE RESISTIVE RANDOM ACCESS MEMORY AND A MANUFACTURING METHOD THEREFOR

00: -

The invention relates to a non-volatile resistive random access memory (ReRAM), a non-volatile ReRAM composition and to a method for manufacturing a non-volatile non-volatile ReRAM. The ReRAM includes a first electrode, a second electrode and a resistive switching/active layer which is located between the first and second electrodes. The switching layer contains chitosan and aluminium doped/incorporated zinc oxide. The switching/active layer may be configured to perform a switching operation according to an applied voltage. The switching/active layer may be in the form of a film. The switching/active layer may be coated/applied onto the first electrode and the second electrode may be placed/applied/provided over the switching/active layer such that the switching/active layer is located/wedged in-between the two electrodes.



21: 2021/01459. 22: 2021/03/03. 43: 2022/06/17 51: D06M; A01N; C07D; C11D 71: UNILEVER GLOBAL IP LIMITED 72: KOTSAKIS, PANAGIOTIS, PARRY, NEIL JAMES 33: EP 31: 18194524.7 32: 2018-09-14 54: LACTAM COATED TEXTILE 00: -

The invention relates to a modified textile comprising a) a textile substrate; and, b) a lactam coating; and to the use of a lactam to impart anti-biofilm properties to a textile; and to the use of a lactam to inhibit biofilm growth on a textile substrate; wherein the lactam is selected from: (I) 4-(4-chlorophenyl)-5methylene-pyrrol-2-one; and (II) 5-methylene-4-(ptolyl)pyrrol-2-one; (III) 4-(4-bromophenyl)-5methylene-pyrrol-2-one; (IV) 4-(3-chlorophenyl)-5methylene-pyrrol-2-one; (V) 4-(2-fluorophenyl)-5methylene-pyrrol-2-one; and (VI).



21: 2021/01460. 22: 2021/03/03. 43: 2022/06/17

51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED 72: KUNJUPILLAI, BALU, NYALAM, PRAVEEN, VAIDYA, ASHISH ANANT 33: EP 31: 18200305.3 32: 2018-10-15 54: AN ANTIPERSPIRANT COMPOSITION 00: -

The present invention relates to an anti-perspirant (AP) composition that comprises conventional metal based AP actives, natural oil and a selective sulphur containing anti-oxidant that ensures that when such compositions are used on a body part e.g. the axilla there is minimal or no yellow coloured staining of the fabric which is worn by an individual through several use-wash-rinse-dry cycles.

21: 2021/01463. 22: 2021/03/03. 43: 2022/06/17 51: C11D; A01N; C07D; A47L 71: UNILEVER GLOBAL IP LIMITED 72: KOTSAKIS, PANAGIOTIS, PARRY, NEIL JAMES, MOORE, SIMON JOHN 33: EP 31: 18194538.7 32: 2018-09-14 54: WIPE

00: -

The invention relates to a wipe suitable for application to a hard surface comprising from 0.0001 to 5 wt.% of a lactam; to the use of said wipe on a surface to reduce microorganism buildup on said surface; and, to the use of a lactam in a wipe product to enhance preservation of said wipe product.

21: 2021/01464. 22: 2021/03/03. 43: 2022/06/17 51: A61K; A61Q; C11D 71: UNILEVER GLOBAL IP LIMITED 72: KOTSAKIS, PANAGIOTIS, PARRY, NEIL JAMES, RUTHERFORD, KEITH LESLIE, MOORE, SIMON JOHN 22: EP 21: 18104562 7 22: 2018 00 14

33: EP 31: 18194562.7 32: 2018-09-14 54: MOUSSE COMPOSITION

00: -

The invention relates to a mousse composition comprising: a) a base composition comprising: (i) from 0.0001 to 5 wt.% of a lactam; (ii) from 0.1 to 10 wt.% of an alcohol; and, b) a propellant; and to the use of a combination of a lactam with an alcohol, in a mousse composition to collapse the resulting mousse foam quicker; and to the use of a combination of a lactam with an alcohol, in a mousse composition to make the resulting mousse foam easier to rinse. 21: 2021/01474. 22: 2021/03/03. 43: 2022/06/17 51: B62D

71: CATERPILLAR INC.

72: STEINER, KEVIN

33: US 31: 16/120,996 32: 2018-09-04

54: TRACK JOINT ASSEMBLY AND TRACK LINK HAVING WEAR BAND STRUCTURED FOR ANTI-SCALLOPING

00: -

A track joint assembly (28) includes adjacent first and second track links (36) each having an elongate link body (42) with an upper rail surface (60) located in part upon first and second link body ends (44, 48) and in part upon a middle section (52) of the link (36). The upper rail surface (60) forms part of a track rail (34, 40) having a segment (62, 64) formed by each of the middle sections (52) of the elongate link bodies (42) of the first and second track links (36) and a compound segment (66) formed by the two adjacent track links (36). The upper rail surface (60) is formed of a sacrificial wear material that has a varying cross-sectional area structured to limit scalloping of the track links (36).



21: 2021/01490. 22: 2021/03/04. 43: 2022/06/01 51: C07D; A61P; A61K; C07C 71: MODERN BIOSCIENCES LIMITED 72: PATEL, LISA, SMITH, STEPHEN ALLAN 33: GB 31: 1813312.4 32: 2018-08-15 54: 1-METHYL-4-[(4-PHENYLPHENYL)SULFONYLMETHYL]CYCLOHE XYANOL AND 1-METHYL-4-[[4-(2-PYRIDYL)PHENYL]SULFONYLMETHYL]CYCLOH EXANOL COMPOUNDS AND THEIR THERAPEUTIC USE 00: -

The present invention pertains generally to the field of therapeutic compounds. More specifically the present invention pertains to certain substituted 1methyl-4-[(4-

phenylphenyl)sulfonylmethyl]cyclohexanol and 1methyl-4-[[4-(2-

pyridyl)phenyl]sulfonylmethyl]cyclohexanol compounds (collectively referred to herein as CHMSA compounds) that are useful, for example, in the treatment of disorders (e.g., diseases) including, e.g., multiple myeloma, diffuse large B-cell lymphoma, acute myeloid leukemia, eosinophilic leukemia, glioblastoma, melanoma, ovarian cancer, chemotherapy resistant cancer, radiation resistant cancer, inflammatory arthritis, rheumatoid arthritis, psoriatic arthritis, psoriasis, ulcerative colitis, Crohn's disease, systemic lupus erythematosus (SLE), lupus nephritis, asthma, chronic obstructive pulmonary disease (COPD), non-alcoholic fatty liver disease (NAFLD), non-alcoholic steatohepatitis (NASH), autoimmune hepatitis, hidradenitis suppurativa, etc. The present invention also pertains to pharmaceutical compositions comprising such compounds, and the use of such compounds and compositions, for example, in therapy.



21: 2021/01520. 22: 2021/03/05. 43: 2022/06/29 51: A61K; C07D; A61P

71: SK BIOPHARMACEUTICALS CO., LTD. 72: KANG, Young Soon, SHIN, Yu Jin, RYU, Choon Ho, HAN, Min Soo, YOON, Yeo Jin, KIM, Yu Jin, LEE, Ka Eun, LEE, Ju Young, JUNG, Myung Jin, BAEK, Eun Hee, CHOI, Eun Ju, SONG, Yea Mi, KIM, Jin Sung, LIM, Hee Jeong, KIM, Yong Soo 33: KR 31: 10-2018-0113956 32: 2018-09-21 54: COMPOUND CONTAINING OXADIAZOLE, AND PHARMACEUTICAL COMPOSITION CONTAINING SAME

00: -

Disclosed in the present invention is an oxadiazole compound and pharmaceutically useful salts thereof. The compound and pharmaceutically useful salts thereof are especially suitable for the treatment of nervous system diseases such as epilepsy.

21: 2021/01544. 22: 2021/03/08. 43: 2022/06/17 51: C07C 71: CHEVRON PHILLIPS CHEMICAL COMPANY LP 72: KREISCHER, BRUCE 33: US 31: 14/858,526 32: 2015-09-18 33: US 31: 14/858,588 32: 2015-09-18 54: IMPROVED DESIGN OF AN ETHYLENE OLIGOMERIZATION/TRIMERIZATION/TETRAMER IZATION REACTOR 00: -

A process includes periodically or continuously introducing an olefin monomer and periodically or continuously introducing a catalyst system or catalyst system components into a reaction mixture within a reaction system, oligomerizing the olefin monomer within the reaction mixture to form an oligomer product, and periodically or continuously discharging a reaction system effluent comprising the oligomer product from the reaction system. The reaction system includes a total reaction mixture volume and a heat exchanged portion of the reaction system comprising a heat exchanged reaction mixture volume and a total heat exchanged surface area providing indirect contact between the reaction mixture and a heat exchange medium. A ratio of the total heat exchanged surface area to the total reaction mixture volume within the reaction system is in a range from 0.75 in⁻¹to 5 in⁻¹, and an oligomer product discharge rate from the reaction system is between 1.5 (lb)(hr⁻¹)(gal⁻¹) to 6.0 (lb)(hr⁻¹)(gal⁻¹).

21: 2021/01563. 22: 2021/03/08. 43: 2022/06/17 51: B01D; B03C 71: VAN WEES INNOVATIONS B.V. 72: VAN WEES, PETER WILLEM 33: NL 31: 1043003 32: 2018-09-18 54: A METHOD AND AN APPARATUS FOR CLEANING THE AIR 00: -The present invention relates to a method and an

The present invention relates to a method and an apparatus for cleaning outside or inside air that is polluted by solid particles. The method comprises a

specific sequence of measures for promoting agglomeration and/or coagulation of the particles, including ionization, followed by a series of filtrations. The invention includes an apparatus for the application of the method.



21: 2021/01564. 22: 2021/03/08. 43: 2022/06/17 51: A61K: A61Q

71: UNILEVER GLOBAL IP LIMITED 72: HUANG, LEI, QIU, QIANG, ROSA, JOSE GUILLERMO, COURTOIS, JEAN-PHILIPPE ANDRE ROGER

33: US 31: 62/757,824 32: 2018-11-09 54: RED COLORANT FREE OF COCHINEAL RED AND COMPOSITIONS COMPRISING THE SAME 00: -

Colorant Compositions free of cochineal red are described. The colorant compositions mimic the color of cochineal red and they are stable in the pressure of active materials typically found in cosmetic compositions.

21: 2021/01566. 22: 2021/03/08. 43: 2022/06/17 51: C07K; A61K

71: UNILEVER GLOBAL IP LIMITED 72: CAO, HAN, CHEN, HONG, CHEN, XIN, PRAMANIK, AMITAVA, SHAO, ZHENGZHONG, YAO, JINRONG, ZHOU, WEIZHENG 33: EP 31: 18208334.5 32: 2018-11-26 33: CN 31: PCT/CN2018/111503 32: 2018-10-23 54: COSMETIC COMPOSITIONS COMPRISING LOW MOLECULAR WEIGHT SILK FIBROIN 00: -

The invention relates to a cosmetic composition comprising a low molecular weight silk fibroin and a cosmetically acceptable carrier; wherein said low molecular weight silk fibroin comprises at least 85 parts by weight peptides of molecular weight less than 2500 Da, where amino acid sequence of at least 50 wt% of said peptides is GAGY, GAGAGAGY, GAGVGAGY or AWSSESDF and where said silk fibroin is produced by a process comprising the steps of: (i) mixing an aqueous solution comprising 0.01 to 20 wt% of a high molecular weight silk fibroin of weight average molecular weight 6 to 100 KDa with ochymotrypsin at temperature of 25 to 45°C, under pH of 6 to 9 for 4 to 24 hours; where ratio of said high molecular weight silk fibroin to said ochymotrypsin in said solution is from 100:1 to 300:1 parts by weight: (ii) inactivating excess ochymotrypsin and separating the inactivated α-chymotrypsin from reaction mixture of step (i); and (ill) drying said reaction mixture to obtain said low molecular weight silk fibroin; wherein said composition comprises 0.1 to 10 % by weight of the low molecular weight silk fibroin.

21: 2021/01567. 22: 2021/03/08. 43: 2022/06/17 51: E21B 71: OIL STATES INDUSTRIES (UK) LIMITED 72: STEPHEN, GARRY, JOHNSTON, RICHARD, SYMONDS, DAVID, WALLACE, GORDON 33: GB 31: 1815150.6 32: 2018-09-18 54: CONNECTION SYSTEM FOR A MARINE DRILLING RISER 00: -

The present invention concerns a connection system1for a marine drilling riser (10) having one or more auxiliary lines (20), the connection system comprising: a moveable coupling member (30) having at least one first connector and at least one second connector coupled to the at least one first connector, wherein the at least one second connector is adapted for engaging with at least one connector of an auxiliary line of the marine drilling riser The connection system further comprising a control line support (18) for fixing at or adjacent an outer surface of the marine drilling riser; a control line supported by the control line support and for attachment to the moveable coupling member; and a tailing line for attachment to the moveable coupling member.



21: 2021/01569. 22: 2021/03/08. 43: 2022/06/10 51: H04N

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: KIM, Ki Baek

33: KR 31: 10-2018-0107255 32: 2018-09-07 54: IMAGE ENCODING/DECODING METHOD AND DEVICE USING INTRA PREDICTION 00: -

A video signal processing method and device, according to the present invention, can determine an intra prediction mode of a current block, determine a reference sample for intra prediction of the current block, determine a predetermined matrix on the basis of the intra prediction mode, and predict the current block on the basis of the reference sample and the matrix.

Determine an intra prediction mode used for intra prediction of the current bloc \bot	k 5500
Determine an reference sample used for intra prediction of the current block	J~~\$510
Determine a matrix used for intra prediction of the current block	~\$520
Predict the current block based on the reference sample and the matrix	~S530

21: 2021/01586. 22: 2021/03/09. 43: 2022/06/29 51: C10L

71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. 72: GRIFFITHS, Claire, SOUTHBY, Mark, Clift, SMITH, Alastair, Graham, BERA, Tushar 33: US 31: 62/741,585 32: 2018-10-05 54: FUEL COMPOSITIONS

00: -

A fuel composition comprising a base fuel and at least one viscosity index (VI) improving additive,

wherein the viscosity index (VI) improving additive is a star-shaped polyisoprene-based polymer. The viscosity index improving additive can be used in a fuel composition to provide improved lubricity as well as providing improved power output and/or acceleration characteristics.

21: 2021/01626. 22: 2021/03/10. 43: 2022/07/25

- 51: A61F; G02B
- 71: OCUMETICS TECHNOLOGY CORP.
- 72: WEBB, Garth T.

33: CA 31: 3016143 32: 2018-08-30 54: A HYBRID ACCOMMODATING INTRA-OCULAR LENS AND METHOD OF USE THEREOF 00: -

An intra-ocular lens having an air-filled collapsible cavity situated between two optical elements wherein air is transferred from optical regions of the collapsible cavity to its peripheral haptic regions after being compressed by external force.



21: 2021/01629. 22: 2021/03/10. 43: 2022/06/17 51: B02C

71: CANADA MINING INNOVATION COUNCIL

72: NORDELL, LAWRENCE K

33: US 31: 62/723,841 32: 2018-08-28

54: MONO ROLLER GRINDING MILL

00: -

A crushing mill with a single roller inside a driven cylindrical shell inner surface, both with horizontal and parallel but offset axes is disclosed. In some embodiments, the roller has protrusions such that as the roller and shell rotate rock or other material may be crushed between the shell and the roller, respectively. In some embodiments, the shell and

the roller each have surface protrusions such that rock or other materials may be crushed between the shell and the roller as they rotate. In some embodiments the shell and the roller operate at differential speeds with respect to each other to induce shear forces on the material to be crushed.



21: 2021/01632. 22: 2021/03/10. 43: 2022/06/10 51: H04N

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. 72: HUO, Junyan, MA, Yanzhuo, ZHANG, Wei 33: US 31: 62/872,488 32: 2019-07-10 33: US 31: 62/872,830 32: 2019-07-11 33: US 31: 62/873,170 32: 2019-07-11 54: IMAGE COMPONENT PREDICTION METHOD, ENCODER, DECODER, AND STORAGE MEDIUM 00: -

Disclosed in embodiments of the present invention are an image component prediction method, an encoder, a decoder, and a storage medium. The method comprises: determining prediction parameters for a current block, wherein the prediction parameters include a prediction mode parameter and a size parameter of the current block; if the prediction mode parameter indicates that a matrix-based intra prediction (MIP) mode is to be used to determine an intra prediction value of the current block, determining an MIP weight matrix of the current block, a shift factor of the current block and an MIP input sample matrix of the current block; and determining an intra prediction value of the current block according to the MIP weight matrix, the shift factor and the MIP input sample matrix.



51: F16J; B62D 71: CATERPILLAR INC.

72: HERBERS, BRICE J, KIESEL, MARK J, LIAN, HONG

33: US 31: 16/127,528 32: 2018-09-11 54: LIP SEAL

00: -

A seal (300) includes an annular body (202) defining a radial direction (R), an axial direction (A), and a circumferential direction (C), and further defines a cross-sectional area (204) including a perimeter (206). The perimeter (206) includes a first axial extremity (208), a second axial extremity (210), an outer radial extremity (212), and an inner radial extremity (214). The perimeter (206) also includes a first axial extremity defining surface (302) and a second axial extremity defining surface (304), a first concave arcuate surface (244) interposed between the inner radial extremity (214) and the second axial extremity (210), and a second concave arcuate surface (246) interposed between the outer radial extremity (212) and the second axial extremity (210).



21: 2021/01634. 22: 2021/03/10. 43: 2022/06/06

51: B62D

71: CATERPILLAR INC. 72: STEINER, KEVIN 33: US 31: 16/128,455 32: 2018-09-11 54: TRACK LINK FOR A TRACK JOINT ASSEMBLY HAVING WEAR BAND WITH LENGTHWISE-VARIED HARDNESS 00: -

A track link (32) for a ground-engaging track system (16) includes an elongate link body (46) having an upper rail surface (60) located in part upon each of a first link strap (48), a second link strap (52), and a middle section (56) of the track link (32). The upper rail surface (60) is formed by a wear band (62) of sacrificial wear material having a hardness that is varied lengthwise along the upper rail surface (60) to retard scalloping of the track link (32) during service and forming relatively softer zones (64,66) in the first and second link straps (48,52) and a relatively harder zone (68) within the middle section (56). Methodology for making such a track link (32) is also disclosed.



21: 2021/01680. 22: 2021/03/12. 43: 2022/06/29 51: F41G; G02B

71: MARSUPIAL HOLDINGS, INC. 72: PARKER, William, STRAUSS, Michael 33: US 31: 62/764,725 32: 2018-08-15 33: US 31: 62/790,294 32: 2019-01-09 54: DIRECT ENHANCED VIEW OPTIC 00: -

A direct enhanced view optic (DEVO) provides a user with enhanced target acquisition information, such as real time ballistic solutions, fused thermal imaging, extended zoom, and automatic target recognition. The direct view optic may include an optical device having a front objective, a rear ocular exit, and a waveguide. The front objective and the rear ocular exit may be separated by the waveguide, and the optical device provides a distant image onto a display. A diffractive based holographic display system is coupled to the optical device, and the holographic display system provides a see-through information overlay on the display.



- 21: 2021/01694. 22: 2021/03/12. 43: 2022/06/03 51: B65D
- 71: SCHOELLER ALLIBERT GMBH

72: VINKE, Jan

33: DE 31: 10 2018 119 699.7 32: 2018-08-14 54: PALLET CONSISTING OF PLASTIC WITH A TOP, A LOWER PART AND REINFORCEMENT MEMBERS 00: -

The invention relates to a pallet consisting of plastic, having: a top (2); a lower part (6); supporting feet (10) which hold the top and the lower part at a distance from each other and are in the form of hollow profiles (28) which can be inserted into one another; and elongate reinforcement members (24) which are embedded in the top (2) and/or lower part (6) and each bridge multiple supporting feet, wherein there are, on one pallet side of the top (2) and/or of the lower part, insertion openings (26) in upper and/or lower supporting foot sections (14), through which insertion openings the reinforcement members (24) can be introduced and can be arranged on the top and/or lower part, and wherein there are, on the opposite pallet side, one stop (30) for each reinforcement member (24) inside the hollow profile (28) of the upper and/or lower supporting foot sections (14) which are arranged on this pallet side, said stops being recessed relative to the pallet side such that, when the top (2) and the lower part (6) are assembled, each hollow profile of the lower and/or upper supporting foot sections passes into the free space between the stop and the wall (18) of the upper and/or lower supporting foot section (14).



21: 2021/01758. 22: 2021/03/16. 43: 2022/06/17 51: A01N; C07D 71: CORTEVA AGRISCIENCE LLC 72: MUHUHI, JOSECK M, CISMESIA, MEGAN A 33: US 31: 62/745,684 32: 2018-10-15 54: METHODS FOR SYTHESIS OF OXYPICOLINAMIDES 00: -

The present technology relates to processes, mixtures and intermediates useful for making fungicide, florylpicoxamid. Also disclosed herein are processes for addition reactions which suppress

epimerization and/or racemization.

21: 2021/01790. 22: 2021/03/17. 43: 2022/05/30 51: F25B; G01K; F24S

71: The Research Foundation for the State University of New York, Wisconsin Alumni Research Foundation

72: Qiaoqiang GAN, Lyu ZHOU, Zongfu YU, Haomin SONG

33: US 31: US62/719,543 32: 2018-08-17 54: BEAM -CONTROLLED SPECTRAL-SELECTIVE ARCHITECTURE FOR A RADIATIVE COOLER

00: -

A passive cooler of the disclosure includes a thermal emitter having a substrate and a coating disposed on at least a portion of a first side of the substrate. The cooler has a beam guide made from a material having a high absorption to solar wavelengths and high reflectance at mid-infrared wavelengths. The beam guide is configured such that at least a portion of incident light is acted on by the beam guide before reaching the thermal emitter. In some embodiments, the beam guide has a graded optical index.



21: 2021/01797. 22: 2021/03/17. 43: 2022/06/17 51: A61K; A61Q

71: L'OREAL

72: MITCHELL, BARBARA, MAHADESHWAR, ANAND RAMCHANDRA, GORDON, JACOB 33: US 31: 16/176,350 32: 2018-10-31 54: HAIR TREATMENT COMPOSITIONS, METHODS, AND KITS FOR TREATING HAIR 00: -

The instant disclosure relates to hair treatment compositions that include a unique combination of components that function to impart desirable cosmetic properties to the hair. The hair treatment compositions typically include: at least 0.5 wt.% of at least one non-polymeric mono, di, or tricarboxylic acid, and/or a salt thereof; one or more amines selected from the group consisting of diamines, polyamines, alkylamines, alkanolamines, and a mixture thereof; one or more fructan polysaccharides; one or more prosolvents; and water.

21: 2021/01822. 22: 2021/03/18. 43: 2022/06/29 51: A61K; C07F; A61P

71: PFIZER INC.

72: STROHBACH, Joseph Walter, BLAKEMORE, David Clive, JONES, Peter, LIMBURG, David Christopher, YEOH, Thean Yeow, ODERINDE, Martins Sunday, TORELLA, Rubben Federico, AKAMA, Tsutomu, JACOBS, Robert Toms, PERRY, Matthew Alexander, PLATTNER, Jacob John, ZHOU, Yasheen

33: US 31: 62/741,868 32: 2018-10-05 33: US 31: 62/889,599 32: 2019-08-21 54: BORON CONTAINING PDE4 INHIBITORS 00: -

The present invention relates to boron containing compounds of Formula (I) X-Y-Z Formula (I) that inhibit phosphodiesterase 4 (PDE4). The invention also encompasses pharmaceutical compositions containing these compounds and methods for treating diseases, conditions, or disorders ameliorated by inhibition of PDE4. 21: 2021/01836. 22: 2021/03/18. 43: 2022/06/17 51: A61K 71: MARS, INCORPORATED 72: WATSON, ADRIAN, ALLAWAY, DAVID, THOMAS, GAELLE 33: EP 31: 18306184.5 32: 2018-09-10 54: COMPOSITIONS CONTAINING LINOLEIC ACID

00: -

The present invention relates to the use of a diet or foodstuff comprising linoleic acid in an amount ranging from 7 g/Mcal to 9 g/Mcal for sustaining or improving skin quality of a healthy pet. In some embodiments, the diet or foodstuff further comprises zinc in an amount of about 50 mg/Mcal. It further pertains to a diet or foodstuff comprising linoleic acid in an amount ranging from 7 g/Mcal to 9 g/Mcal for use in a method for treating a pet animal affected with a skin disorder or disease.



21: 2021/01843. 22: 2021/03/18. 43: 2022/06/02 51: H04W

71: Huawei Technologies Co., Ltd.

72: CHONG, Weiwei, WU, Xiaobo, XIN, Yang 33: CN 31: 201811163075.6 32: 2018-09-30 54: COMMUNICATION METHOD AND RELATED DEVICE

00: -

This application provides a communication method and a related device. The method includes: sending, by a policy control network element, first query information to a data analytics network element, where the first query information is used to obtain service quality information; and receiving, by the policy control network element, first response information sent by the data analytics network element, where the first response information includes the quality information that is of the service and that is requested by using the first query information. The foregoing technical solution can help the policy control network element obtain the service quality information.



21: 2021/01867. 22: 2021/03/19. 43: 2022/06/17 51: C07K; G01N; C12N; A61K 71: HOWARD HUGHES MEDICAL INSTITUTE 72: STERNSON, SCOTT, LEE, PETER, MAGNUS, CHRISTOPHER 33: US 31: 62/486,779 32: 2017-04-18

33: US 31: 62/359,534 32: 2016-07-07 54: MODIFIED LIGAND-GATED ION CHANNELS AND METHODS OF USE 00: -

This document relates to materials and methods for controlling ligand gated ion channel (LGIC) activity. For example, modified LGICs including at least one LGIC subunit having a modified ligand binding domain (LBD) and/or a modified ion pore domain (IPD) are provided. Also provided are exogenous LGIC ligands that can bind to and activate the modified LGIC, as well as methods of modulating ion transport across the membrane of a cell of a mammal, methods of modulating the excitability of a cell in a mammal, and methods of treating a mammal having a channelopathy.

21: 2021/01890. 22: 2021/03/19. 43: 2022/06/17

- 51: H04N
- 71: Huawei Technologies Co., Ltd.

72: CHEN, Xu, ZHENG, Jianhua

33: CN 31: 201811068957.4 32: 2018-09-13 54: DECODING METHOD AND DECODING APPARATUS FOR PREDICTING MOTION INFORMATION 00: -

The embodiments of the present application relate to a decoding method and device for predicted motion

information. Said method comprises: parsing a code stream to obtain a first identifier; according to the first identifier, determining from a first candidate set a target element, an element in the first candidate set comprising at least one piece of first candidate motion information and a plurality of pieces of second candidate motion information, the first candidate motion information including first motion information, and the second candidate motion information including a preset motion information offset; when the target element is the first candidate motion information, using the first candidate motion information as target motion information, the target motion information being used to predict motion information concerning an image block to be processed; and when the target element is obtained according to the plurality of pieces of second candidate motion information, parsing the code stream to obtain a second identifier, and according to the second identifier and on the basis of one of the plurality of pieces of second candidate motion information, determining the target motion information.



21: 2021/01894. 22: 2021/03/19. 43: 2022/06/17 51: C07K; C12N; G01N; A61K; A61P 71: AKESO BIOPHARMA, INC. 72: LI, BAIYONG, XIA, YU, WANG, ZHONGMIN MAXWELL, ZHANG, PENG 33: CN 31: 201811002548.4 32: 2018-08-30 54: ANTI-PD-1 AND ANTI-VEGFA BIFUNCTIONAL ANTIBODY, PHARMACEUTICAL COMPOSITION THEREOF AND USE THEREOF 00: -

An anti-VEGFA and anti-PD-1 bifunctional antibody, a pharmaceutical composition thereof and use thereof belong to the field of tumor therapy and molecular immunology. Specifically, the anti-VEGFA and anti-PD-1 bifunctional antibody comprises: a first protein functional region targeting VEGFA, and a second protein functional region targeting PD-1. The bifunctional antibody can specifically bind to VEGFA and PD-1, specifically relieve immunosuppression of VEGFA and PD-1 on an organism, and inhibit tumorinduced angiogenesis, and thus has good application prospects.



21: 2021/01895. 22: 2021/03/19. 43: 2022/06/17 51: F42B

71: LEONARDO ELECTRONICS US INC.
72: KEEGAN, MATTHEW, INNES, JOHN,
REHERMANN, STEVEN T
33: US 31: 62/873,698 32: 2019-07-12
54: METHOD AND SYSTEM FOR ELECTRONIC
WARFARE OBSCURATION AND SUPPRESSION
OF ENEMY DEFENSES

00: -

An apparatus, system, and method for deployment of an electronic warfare (EW) asset are provided. The system includes a projectile launching device capable of launching a projectile round. An EW asset is detachably carried by the projectile round. A deployable parachute is attached to the EW asset, wherein the EW asset is configured to be suspended from the parachute when the EW asset is detached from the projectile round. The related method is used for suppression or obscuration of enemy counterfire radar (CFR) system by initiating an EW effect by the EW asset as the EW asset floats towards a ground surface.



21: 2021/01900. 22: 2021/03/19. 43: 2022/06/17 51: A45D; A61K; A61Q 71: L'OREAL 72: SAMAIN, HENRI, GIRON, FRANCK, ROBINAULT, JEAN-LUC 33: FR 31: 1859106 32: 2018-10-02 54: COSMETIC TREATMENT PROCESS 00: -

The present invention relates to a process for subjecting a surface of the skin or of the hair to an abrasive and/or stimulating action, comprising projecting onto said surface a flow of at least one composition comprising a vector liquid and solid particles, this flow being generated from the collision of at least two jets generated by at least two nozzles (13) of a dispensing device (10), the nozzles being oriented such that their jets encounter one another, at least one nozzle (13) being supplied with a pressure of at least 4 bar and with a vector-liquid flow rate of less than or equal to 10 L/min.



21: 2021/01901. 22: 2021/03/19. 43: 2022/06/17 51: A01N; C12R; C12N; A01P

71: FMC CORPORATION

72: VAN DER LELIE, DANIEL, TAGHAVI, SAFIYH, DEVINE, ANTHONY ANDREW, LEE, JAEHEON 33: US 31: 62/738,653 32: 2018-09-28 54: BACILLUS AMYLOLIQUEFACIENS FCC1256 COMPOSITIONS AND METHODS OF CONTROLLING PLANT PATHOGENS 00: -

The present application discloses method of controlling plant pathogen(s), e.g. fungal and bacterial pathogens, on a plant, wherein a composition comprising Bacillus amyloliquefaciens FCC1256 deposited as ATCC No. PTA-122162 is applied to the plant, in particular to over-ground parts of the plant. The composition may comprise iturin and fengycin in a relative weight ratio of 1.3:1.0 to 3.0:1.0. The application also discloses an agricultural composition comprising the strain, a carrier, a surface-active agent and optionally a buffer, and a corresponding concentrate.



21: 2021/01923. 22: 2021/03/23. 43: 2022/06/17 51: G01K; G01M 71: LANDIS+GYR AG 72: DAVIS, IAN JACKSON 33: EP 31: 18194512.2 32: 2018-09-14 54: ELECTRICITY METER THERMAL PERFORMANCE MONITORING 00: -

The present invention relates to a method of monitoring a functional state of an electricity meter (2), comprising the steps of generating at least one temperature signal from which an actual temperature value (T) of the electricity meter (2) can be derived; determining whether the actual temperature value (T) and/or a gradient (Gm) thereof exceeds at least one threshold value (L) derived from at least one predefined temperature curve (T300) representing

predefined temperature values (T) of the electricity meter (2) over time according to a modelled thermal behaviour of the electricity meter (2). Further, the present invention relates to a computer program (4) for monitoring a functional state of an electricity meter (2). Furthermore, the present invention relates to a computer-readable data carrier (5) having stored thereon a computer program (4) according to the present invention, and to a data carrier signal (6) carrying a computer program (4) according to the present invention. Moreover, the present invention relates to an electricity meter (2) configured to carry out the computer program (4) according to the present invention. Finally, the present invention relates to an electricity metering system (1), in particular an Advanced Metering Infrastructure (AMI), comprising at least one electricity meter (2) and/or at least one administration device (3) configured to carry out a method according to the present invention.



21: 2021/01927. 22: 2021/03/23. 43: 2022/06/17 51: A61M; A61K

71: TEVA PHARMACEUTICALS INTERNATIONAL GMBH

72: GIBSON, PAUL ANDREW CHRISTOPHER, CUMMINGS, EDWARD ANDREW 33: US 31: 62/734,209 32: 2018-09-20 54: INJECTION SPRING FOR AGED PREFILLED SYRINGE AND AUTO INJECTOR 00: -

A method of adapting an auto injector configured to actuate a prefilled syringe, the auto injector having a

biasing member having a spring constant, the prefilled syringe being filled with a volume of therapeutic fluid, the prefilled syringe including a barrel, stopper, and a needle, the stopper having a path of travel, the biasing member arranged to move the stopper along the path of travel. An auto injector having an injection spring adapted to an aged prefilled syringe.



- 21: 2021/02025. 22: 2021/03/25. 43: 2022/06/02
- 51: B01F; B01J
- 71: Plastic Energy Limited

72: MCNAMARĂ, David, STRIVENS, Christopher, YABRUDY, Andres, DUNPHY, Patrick 33: GB 31: 1815701.6 32: 2018-09-26 54: A REACTOR ASSEMBLY 00: -

A reactor assembly (200) is provided for heating plastic material. The reactor assembly (200) comprises: a reactor vessel (1) comprising a central axis (X); and an agitator (3) mounted within the reactor vessel (1). The agitator (3) comprises: one or more blade(s) (34) distal from the central axis (X) for mixing contents of the reactor vessel (1) in use; and one or more wearing parts (36) mounted to the blade(s) to extend from the blade(s).



21: 2021/02039. 22: 2021/03/25. 43: 2022/07/11 51: A61K; A61P

71: VERONA PHARMA PLC

72: SPARGO, Peter Lionel, HAYWOOD, Phillip A 33: GB 31: 1816447.5 32: 2018-10-09 54: PHARMACEUTICAL COMPOSITIONS COMPRISING RPL554 IN HFA-134A FOR ADMINISTRATION BY INHALATION 00: -

The present invention relates to a liquid pharmaceutical composition suitable for administration by inhalation comprising: (i)a suspension of particles comprising 9,10-dimethoxy-2-(2,4,6-trimethylphenylimino)-3-(N-carbamoyl-2aminoethyl)- 3,4,6,7-tetrahydro-2H-pyrimido[6,1a]isoquinolin-4-one (RPL554); and (ii) a diluent which is 1,1,1,2-tetrafluoroethane (HFA-134a), wherein the liquid pharmaceutical composition is substantially free of surfactant. The invention also relates to a pressurised metered dose inhaler comprising the liquid pharmaceutical composition.



- 21: 2021/02057. 22: 2021/03/26. 43: 2022/05/31 51: G02B
- 71: VYAS, Trilok
- 72: VYAS, Trilok
- 33: US 31: 62/744,074 32: 2018-10-10

54: VILLANOVA ULTRA EFFICIENT VERTICAL WINDMILL SYSTEM AND METHOD

00: -

A vertical windmill system which provides a vertical axis windmill designed to rotate vertically as opposed to horizontally in order to optimize powergeneration. The windmill utilizes kinetic wind energy to its maximum extent in order to create sustainable energy. It ensures the generator is not slowed down as wind speed is reduced so the efficiency of harvesting wind energy is increased. As designed it offers a simplified means for improving the efficiency of windmills.



- 21: 2021/02065. 22: 2021/03/26. 43: 2022/06/02
- 51: A01N; A01P
- 71: Centro de Ingeniería Genética y Biotecnología

72: GONZALEZ FERNANDEZ, Nemecio, MORÁN VALDIVIA, Rolando, PEREZ HEREDIA, Carlos, PANEQUE DIAZ, Yunier, WONG PADILLA, Idania, SÁNCHEZ ORTIZ, Ileana, MORA GONZÁLEZ, Néstor, FRANCO RODRÍGUEZ, Ramón, SOMONTES SANCHEZ, Danalay, MENA CAMPOS, Jesús, GONZALEZ BLANCO, Sonia 33: CU 31: 2018-0117 32: 2018-09-27 54: SOLID COMPOSITION FOR AGRICULTURAL AND VETERINARY USE 00: -

A solid composition for agricultural or veterinary use, comprising a mixture of a bacterial concentrate of strain C-924 and a culture medium or a commercially available organic amendment, an antifoam substance and sucrose, and having less than 12% of residual moisture. The components of the formulation ensure adequate wettability of the finished solid product and extended storage stability at temperatures of 2 to 8°C. The invention discloses the use of the solid composition to control of plant and animal pathogens, and to stimulate seed germination and plant growth.

21: 2021/02069. 22: 2021/03/26. 43: 2022/07/11 51: H04L

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: FRENNE, Mattias, LINDBOM, Lars 33: US 31: 62/744,095 32: 2018-10-10 54: METHOD FOR PEAK TO AVERAGE POWER REDUCTION OF DM-RS SIGNALS 00: -

A user equipment (UE) (30) is configured to enhance Demodulation Reference Signals (DM-RS) in order to reduce the Peak-to-Average Power Ratio (PAPR) to the same level as for data symbols. To accomplish this function, the UE obtains a first initialization value that is calculated based on one of a first parameter (e.g., cell ID) and a second parameter and a scrambling code ID. The UE then maps the first initialization value to either a first Code Division Multiplexing (CDM) group or a second CDM group based on the scrambling code ID. The mapping associates the first initialization value with the first or second CDM group such that the initialization value is used when generating a demodulation sequence for that CDM group.



21: 2021/02072. 22: 2021/03/26. 43: 2022/06/01 51: G08B; G01H 71: ASSA ABLOY AB 72: JONSSON, TOMAS, CEDERBLAD, MATS, MACKEGÅRD, PER, JOHANSSON, STEFAN 33: SE 31: 1851357-2 32: 2018-10-31 **54: CLASSIFYING VIBRATIONS** 00: -It is provided a method for classifying vibrations

It is provided a method for classifying vibrations detected in a structure of a building. The method is performed in a vibration classifier and comprising the steps of: determining a measurement period of a vibration signal; splitting the measurement period in a plurality of sequential sub-periods; calculating, for each one of the sub-periods, a variation indicator of at least one component of the vibration signal; and classifying a source of the vibration signal based on the variation indicators.



21: 2021/02080. 22: 2021/03/26. 43: 2022/06/10 51: H04N

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: LEE, Bae Keun

33: KR 31: 10-2018-0114350 32: 2018-09-21 33: KR 31: 10-2018-0114346 32: 2018-09-21 33: KR 31: 10-2018-0114345 32: 2018-09-21 33: KR 31: 10-2018-0114347 32: 2018-09-21 33: KR 31: 10-2019-0022754 32: 2019-02-26 54: IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR 00: -

An image decoding method according to the present invention comprises the steps of: generating a merge candidate list of a current block; specifying any one of a plurality of merge candidates included in the merge candidate list; on the basis of a first affine seed vector and a second affine seed vector of the specified merge candidate, inducing a first affine seed vector and a second affine seed vector of the current block; using the first affine seed vector and the second affine seed vector of the current block, inducing an affine vector regarding a subblock in the current block; and on the basis of the affine vector, performing motion compensation prediction regarding the sub-block.



21: 2021/02091. 22: 2021/03/29. 43: 2022/05/31 51: G06F; G06K; H04B

71: Qingdao University

72: MIAO, Pu, LIU, Xi, SONG, Kang, YIN, Zuoliang, WANG, Xinhua

33: CN 31: 202010287522.X 32: 2020-04-13 54: METHOD AND SYSTEM FOR EQUALIZING IN VISIBLE LIGHT COMMUNICATION BASED ON SPARSE BAYESIAN LEARNING 00: -

The present disclosure relates to a method and a system for equalizing in visible light communication based on sparse Bayesian learning. The method comprises the steps of: acquiring an electric domain signal from a photoelectric detector; constructing a nonlinear equalizer using sparse Bayesian learning method and Kalman filter iteration method with the Volterra series as the basic architecture; performing self-adaptive compensation on the electric domain signal using the nonlinear equalizer, and recovering the original transmission symbol. The method and system for equalizing in visible light communication based on sparse Bayesian learning according to the present disclosure can realize adaptive compensation for complex dynamic nonlinearity and multipath transmission damage of a VLC system, and improve communication performance of the VLC system.

21: 2021/02092. 22: 2021/03/29. 43: 2022/05/31 51: A61K

- DI. ADIK
- 71: PHARMATHEN S.A.

72: KARAVAS, Evangelos, KOUTRIS, Efthymios, SAMARA, Vasiliki, KOUTRI, Ioanna, KALASKANI, Anastasia, KIZIRIDI, Christina, KAKOURIS, Andreas 54: PHARMACEUTICAL COMPOSITION COMPRISING RIVAROXABAN AND METHOD OF PREPARATION THEREOF 00: -

The present invention relates to an immediate release stable pharmaceutical formulation for oral

administration containing a therapeutically effective quantity of 5-chloro-N-({(5S)-2-oxo-3-[4-(3-oxo-4morpholinyl)-phenyl]-1,3-oxazolidin-5-yl}-methyl)-2thiophenecarboxamide or a pharmaceutically acceptable salt thereof, and a method for the preparation thereof.

21: 2021/02104. 22: 2021/03/29. 43: 2022/06/02 51: A61K; A61P; C12N

71: Eisai R&D Management Co., Ltd.

72: SUZUKI, Yuta, MOTOI, Sotaro, TAKAHASHI, Yoshinori, TAHARA, Kazuhiro

33: JP 31: 2018-201777 32: 2018-10-26

54: DOUBLE-STRANDED RIBONUCLEIC ACID INHIBITING EXPRESSION OF COMPLEMENT C5 00: -

Disclosed is a double-stranded ribonucleic acid that comprises a combination of a sense strand with an antisense strand, said combination being selected from the group consisting of SEQ ID NOS: 159 and 160, SEQ ID NOS: 141 and 142, SEQ ID NOS: 143 and 144, SEQ ID NOS: 145 and 146, SEQ ID NOS: 147 and 148 and SEQ ID NOS: 153 and 154.

21: 2021/02109. 22: 2021/03/29. 43: 2022/06/01 51: A23L; A23N; F26B

71: Dermasole Societa' A Responsabilita' Limitata Semplificata

72: ZAGALLO, Graziano

33: IT 31: 102018000009070 32: 2018-10-01 54: IMPROVED PLANT FOR THE TREATMENT OF VEGETABLE PRODUCTS 00: -

Improved plant (1) for the treatment of vegetable products characterized in that it comprises: - a chamber (2) comprising walls (5, 6, 7) arranged so as to delimit together an internal environment which, during the operation of said plant, is closed and isolated with respect to the external environment, within said chamber (2) where the products (8) to be treated are intended to be positioned, - a lighting apparatus (12) positioned within said chamber (2) and configured so as to emit infrared radiation on the products (8) to be treated intended to be positioned inside the chamber (2), - a ventilation apparatus (17) to circulate the air inside the chamber (2), - a dehumidification apparatus (19) configured to control the humidity conditions inside the chamber (2).



21: 2021/02142. 22: 2021/03/30. 43: 2022/06/01 51: G02B

71: Furukawa Electric LatAm S.A.

72: VIEIRA, Thiago Deconto

33: BR 31: 20 2018 067293 8 32: 2018-08-31

54: OPTICAL NETWORK TERMINATION BOX 00: -

The box houses and retains a drop cable (CD) and a connection terminal (TC) in which an end connector (CE) of the drop cable (CD) and an end plug (PE) of an optical cable (CO) are clamped. The box comprises: a base (10) having a front face (10a) incorporating a jaw (20) provided with teeth (22), for receiving and retaining a length of the drop cable (CD), and a pair of lateral claws (30) for locking the connection terminal (TC); and a cover (60), having a front wall (61), end walls (62), each provided with a window (62a) surrounding a portion of the jaw (20) and of the connection terminal (TC), respectively, and opposite longitudinal walls (63), the rear edges of the end (62) and longitudinal (63) walls being seated and locked against the front face (10a) of the base (10).



21: 2021/02147. 22: 2021/03/30. 43: 2022/06/01 51: B63B; E02B

71: Indian Institute of Technology, Bombay 72: JOTHIPRAKASH, Vinayakam, SINGH, Meena Harphool, RANU, Meena

33: IN 31: 201821033390 32: 2018-09-05 54: A SYSTEM FOR REMOVING FLOATING DEBRIS IN AN OPEN WATER CHANNEL 00: -

A System for Removing Floating Debris in an Open Water Channel The invention relates to a system for removing floating debris in an open water channel. The system includes a perforated screen placed between the channel walls, extends from surface of water towards bottom of the channel to impede the flow of water thereby accumulating floating debris; a float connected on the rear side of the perforated screen; an inclined conveyor belt having an upper end and a lower end; a plurality of vessels mounted on the conveyor belt at predetermined location; and means for driving the conveyor belt for moving the conveyor belt from the lower end to the upper end to collect the accumulated floating debris and moves towards the upper end, whereby the vessel while transiting from the upper end towards the lower end dumps the floating debris in a debris collector.



21: 2021/02182. 22: 2021/03/31. 43: 2022/07/07 51: F21V; G08B

71: MATRIX DESIGN GROUP, LLC

72: MOORE, Timothy, R., JONES, Ryan, NICHOLS, Joel

33: US 31: 16/129,945 32: 2018-09-13 54: IMPROVED LIGHT FOR UNDERGROUND MINING AND SYSTEM FOR TRACKING UNDERGROUND ASSETS 00: -

A lighting unit for use in low lighting environments such as underground mines is provided. The lighting unit includes a main housing having a front opening and a cavity, a first visual lighting assembly positioned within the cavity of the main housing that emits light in the visible spectrum, and a second ultraviolet lighting assembly positioned a fixed distance from the first visual lighting assembly within the cavity of the main housing that emits light in the ultraviolet spectrum. The lighting unit is part of a system for detecting patterns on objects having reflective or high visibility colored material thereon. In addition to the lighting unit, the system includes a camera having a field of view within which the system is configured to detect patterns of reflective or high visibility colored material on one or more objects, a warning device to alert the operator when a marked object enters the camera's field of view. A controller/processor is programmed to detect when a pattern of reflective or high visibility colored material enters the camera's field of view. A variety of patterns can be used, and the controller can be programmed to associated each pattern with a specific object.



21: 2021/02193. 22: 2021/03/31. 43: 2022/06/02 51: B08B; C25C

71: Norsk Hydro ASA

72: MANGER, Eirik, DYRØY, Are, KARLSEN, Morten

33: NO 31: 20181482 32: 2018-11-20

54: METHOD AND SYSTEM FOR CONTROLLING SUCTION OF OFF-GASES FROM ELECTROLYSIS CELLS

00: -

The present invention relates to a method and a system for controlling the normal operational suction of off-gases from individual electrolysis cells for production of aluminium, where the cells can be of Hall-Héroult type, and further being provided with a hooding (CH) connected via a gas duct (GD) to a main gas duct (MGD) having means for generating a suction that transports the gas to a gas treatment centre (GTC), where the gas flow in said gas duct (GD) is controlled by a gas duct damper (GDD). One or more process variable/s such as pressure and/or temperature in the gas duct (GD) of each cell are measured and used as input signals to a controller (PLC) comprising a calculator where the controller calculates the actual mass flow in said gas duct (GD) based upon a pre-defined algorithm and produces an output set signal corresponding to a wanted flow rate, the signal is transmitted to an actuator (A) that regulates the position of the gas duct damper (GDD), and followingly the gas flow in the gas duct from each individual cell.



21: 2021/02230. 22: 2021/04/01. 43: 2022/06/01 51: F23B; F23C; F23D

71: KAISER, Thomas, WASSERMANN, Christian 72: KAISER, Thomas, WASSERMANN, Christian 33: DE 31: 20 2018 004 601.9 32: 2018-10-04 54: FIRE COLUMN 00: -

In order to create a safe and simply designed fire column, the flame of which is fed from a fuel tank, in particular for bioethanol, and is surrounded by an outer casing (4), wherein supply air flows in largely axially in the lower region of the outer casing via a plurality of guide elements (3) and is preferably set in helical rotation to form a swirling flame, according to the invention the outer casing (4) is placed over the guide elements (3). The outer casing (4) is preferably centered in an upright position by outer edges (3a) of the guide elements (3).



21: 2021/02262. 22: 2021/04/06. 43: 2022/06/01 51: H02K

71: The Trustees for the time being of the KMN FULFILMENT TRUST

72: MAKGERU, Kabu Walter

33: ZA 31: 2019/04106 32: 2019-06-25

54: AN ELECTRIC POWER GENERATOR COMPRISING TWO STATORS AND A ROTOR 00: -

An electric power generator comprises a rotor and a plurality of stators arranged coaxially and concentrically about a central axis. There is an inner stator provided radially inwardly of the rotor separated by an inner airgap and an outer stator provided radially outwardly of the rotor separated by an outer airgap. The rotor includes a plurality of magnetic pole structures configured to provide or generate a magnetic field having plurality of magnetic poles. The rotor is not of uniform crosssectional thickness, wherein: an inner surface of the rotor bulges inwardly at the pole structures, the inner airgap being non-uniform as it is radially shorter at the pole structures and longer in between the pole structures; and an outer surface of the rotor bulges outwardly at the pole structures, the outer airgap being non-uniform as it is radially shorter at the pole structures and longer in between the pole structures.



21: 2021/02263. 22: 2021/04/06. 43: 2022/06/01 51: A61K; C07K 71: Cara Therapeutics, Inc.

72: WILSON, Bryan R., O'CONNOR, Stephen J.

33: US 31: 62/731,802 32: 2018-09-14 54: ORAL FORMULATIONS OF KAPPA OPIOID RECEPTOR AGONISTS 00: -

The invention provides formulations for oral delivery of a therapeutic agent wherein the formulation comprises a kappa opioid receptor agonist and an absorption enhancer, the absorption enhancer includes a medium chain fatty acid or a salt of a medium chain fatty acid; and a medium chain fatty acid glyceride. The kappa opioid receptor agonist may be embedded in an oligosaccharide, such as trehalose. Also provided are capsules containing the oral formulations of the kappa opioid receptor agonists and the absorption enhancer of the invention and methods use of these formulations for the prophylaxis and treatment of variety of kappa opioid receptor-associated diseases and conditions such as pain, pruritus and inflammation; the method comprising administering to the mammal the formulation comprising the kappa opioid receptor agonist and an absorption enhancer.



21: 2021/02353. 22: 2021/04/09. 43: 2022/06/01 51: A61P; C07D

71: Hangzhou DAC Biotech Co., Ltd 72: ZHAO, Robert Yongxin, YANG, Qingliang, HUANG, Yuanyuan, ZHAO, Linyao, YE, Hangbo, ZHUO, Xiaotao, YANG, Chengyu, LEI, Jun, XU, Yifang, GUO, Huihui, LI, Wenjun, GAI, Shun, BAI, Lu, GUO, Zhixiang, JIA, Junxiang, ZHENG, Jun, ZHOU, Xiaomai, XIE, Hongsheng, TONG, Qianqian, CHAO, Mingjun, TONG, Yanhong, YE, Zhicang, LIN, Chen, YANG, Yanlei, CHEN, Binbin 54: CONJUGATION LINKERS CONTAINING 2,3-DIAMINOSUCCINYL GROUP

00: -Provided is a conjugate of a cytotoxic drug/molecule to a cell-binding molecule with a bis-linker (aduallinker) containing a 2, 3-diaminosuccinyl group. It also relates to preparation of the conjugate of a cytotoxic drug/molecule to a cell-binding molecule with the bis-linker, particularly when the drug having functional groups of amino, hydroxyl, diamino, amino-hydroxyl, dihydroxyl, carboxyl, hydrazine, aldehyde and thiol for conjugation with the bis-linker in a specific manner, as well as the therapeutic use of the conjugates.

21: 2021/02381. 22: 2021/04/12. 43: 2022/06/02 51: A61K; C12N; A61P 71: ZHEJIANG UNIVERSITY 72: ZHANG, Jin, ZHANG, Li, TIAN, Lin, LUO, Tao 33: CN 31: 201811218443.2 32: 2018-10-18 54: MACROPHAGE CAPABLE OF TARGETING TUMOR CELL AND PREPARATION METHOD THEREOF 00: -

A macrophage capable of targeting a tumor cell and a preparation method thereof. The macrophage contains a chimeric antigen receptor. Due to the limitations of a microenvironment of a solid tumor, a CAR-T cell is difficult to enter the tumor, even if the CAR-T cell enters the tumor, the killing effect on the tumor cell is weakened because of the inhibition in the microenvironment. Aiming at the above technical defects, provided is another idea of tumor immunotherapy, in which the chimeric antigen receptor is expressed in the macrophage. The application of the chimeric antigen receptor in CAR-T cell therapy to the macrophage can implement the expression of the chimeric antigen receptor on the surface of the macrophage, target tumor cell and activate the macrophage to phagocytize the tumor cell. A new idea and technical means are provided for tumor immunotherapy.

21: 2021/02405. 22: 2021/04/13. 43: 2022/06/29 51: F16D; F16J 71: KAAN HOLDING AS 72: GJERSVIK, Roger, RUGSET, Geir 33: NO 31: 20181441 32: 2018-11-09 54: BELLOW 00: -

Bellow (300) of a flexible material for protecting a coupling comprising first and second connector end (101, 201) subject to vibration and torsion. The bellow (300) comprises a material able to prevent material from entering or exiting the space between the connector ends (101, 201). The bellow (300) is arranged to be attached to the first connector end (101) by a first clamp (303) and to the second connector end (201) by a second clamp (304). The bellow (300) is provided with a zipper (305) comprising a zipper slider (306) and first and second zipper part (305', 305'') attached to opposite ends of the sheet. Thus, the bellow (300) can be wrapped around said first connector end (101) and second connector end (201) and closed by zipper (305).



21: 2021/02420. 22: 2021/04/13. 43: 2022/06/01 51: B25J; G01B; G01N 71: Saint-Gobain Glass France

72: CARLU, Adrien, MARLIER, Alexandre 33: FR 31: 1872770 32: 2018-12-12

54: METHOD FOR MEASURING GEOMETRIC DISCREPANCIES BETWEEN THE CURVED SURFACES OF A PLURALITY OF MATERIALS THAT ARE TO BE EVALUATED AND A CURVED SURFACE OF A REFERENCE MATERIAL 00: -

The present invention relates to the field of the checking of the reliefs of the curved surfaces of materials, particularly curved surfaces of window glazing designed for means of transport, notably in the automotive industry. The subjects of the invention are a method and system for measuring the geometric discrepancies between the curved surfaces of a plurality of materials that are to be evaluated and a curved surface of a reference material.

21: 2021/02436. 22: 2021/04/14. 43: 2022/06/29 51: E21B

71: REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD

72: BEACH, Andrew Phillip, MCLEOD, Gavin Thomas

33: AU31: 2017903988 32: 2017-10-0333: AU31: 2017903989 32: 2017-10-03

54: DOWNHOLE DEVICE DELIVERY AND ASSOCIATED DRIVE TRANSFER SYSTEM AND METHOD OF DELIVERING A DEVICE DOWN A HOLE

00: -

A downhole device delivery and drive transfer system 10 comprises a sub 12 which is arranged to attach to a drill string 14 and a tool 16 which is configured to enable it to travel through the drill string 14 and releasably couple to the sub 12. The sub 12 and the tool 16 are arranged so that when they are releasably coupled to each other torque imparted to the drill string is transferred by the sub 12 to the tool 16. The tool 16 is arranged to carry one or more devices for performing one or more downhole functions such as core drilling, hole reaming or wedge placement for directional drilling. The system 10 also has a guide mechanism 24 that operates between the sub 12 and the tool 16 to guide the tool 16 to a known rotational orientation relative to the sub 12 as the tool 16 travels into the sub 12. A fluid control system controls the flow of fluid through the tool through a downhole outlet and and a plurality of ports intermediate opposite ends of the tool.



21: 2021/02441. 22: 2021/04/07. 43: 2022/06/29 51: A62D; C23F 71: LUBRIZOL ADVANCED MATERIALS, INC. 72: BAKER, Mark, R., PALLISTER, David, M., KNUREK, Mark 33: US 31: 62/744,728 32: 2018-10-12 54: FIRE SUPPRESSION FLUID CONTAINING A CARBOXYLATE SALT 00: -

An aqueous fire sprinkler fluid containing a C4 or greater carboxylate salt for freezing point depression is described. The salts may be used in conjunction with glycols. The salts decrease the combustibility and give lower viscosity than higher glycol fluids, both benefitting fire sprinkler systems. These salt solutions are friendly to metal and CPVC pipes and are thus useful for fire sprinkler systems by not causing environmental stress cracking of the CPVC components and not being corrosive to the metal parts.

21: 2021/02445. 22: 2021/04/14. 43: 2022/06/01 51: H01R B60R H01Q 71: NIPPON SHEET GLASS CO., LTD. 72: TSURUME, Yoshinobu, MORISHITA, Hiromasa, NAKANO, Yuta 33: JP 31: 2018-175049 32: 2018-09-19 54: VEHICULAR GLASS MODULE 00: -

A vehicular glass module (1) that includes vehicular window glass (2) on which a conductive pattern (4) is formed and an on-glass connector (3) that is attached to the vehicular window glass (2). The onglass connector (3) has a hollow part (11) and a circuit board (6) that is arranged inside the hollow part (11). The hollow part (11) communicates with the outside of a case (5) via a through hole (15) that is provided in a partition wall (14) that defines a portion of the hollow part (11). The through hole (15) is positioned below the circuit board (6). Water that condenses inside the hollow part (11) is discharged to the outside via the through hole (15).



21: 2021/02543. 22: 2021/04/16. 43: 2022/06/01 51: A61F 71: Edwards Lifesciences Corporation

72: DVORSKY, Anatoly, LEVI, Tamir S., NEUMANN, Yair A., AXELROD, Noa, ATIAS, Eitan, COHEN, Oren, SCHWARCZ, Elazar Levi, WITZMAN, Ofir, MILLER, Noam, MANASH, Boaz, GARMAHI, Danny M.

33: US 31: 62/748,284 32: 2018-10-19 54: PROSTHETIC HEART VALVE HAVING NON-CYLINDRICAL FRAME 00: -

An implantable prosthetic device can include a frame that is radially expandable and compressible between a radially compressed configuration and a radially expanded configuration. The frame can have a first set of a plurality of struts extending in a first direction, and a second set of a plurality of struts extending in a second direction, and each strut of the first set of struts can be pivotably connected to at least one strut of the second set of struts. Each strut can be curved helically with respect to a first, longitudinal axis of the frame, and each struts can be curved with respect to a second axis that is perpendicular to the first, longitudinal axis of the frame.



- 21: 2021/02603. 22: 2021/04/20. 43: 2022/07/07 51: H04L
- 71: LLEIDA NETWORKS SERVEIS TELEMATICS,
- SL
- 72: SOLER, Francisco Sapena

54: METHOD FOR CERTIFYING DELIVERY OF ELECTRONIC MESSAGES

00: -

A method to receive and send electronic mail from a transmitting user to a recipient and generating proof of the operation transactions to submit the transmitting user a certificate as a trusted third party, which includes the steps of reception in a mail server (11) of a copy of a first electronic message sent by the transmitting user (1) to the recipient (2), and the later delivery of a copy of the first electronic message to the recipient (2) together with a particular indication, so that the recipient (2) receives (14) a second electronic message copy of the first electronic message from the mail server, which comprises that particular indication, and wherein the data processing unit (11) creates an electronic document with the transactional data of the delivered copy and signs it digitally creating a certificate (4) that is sent to the initial user (1).



21: 2021/02607. 22: 2021/04/20. 43: 2022/07/07 51: H04L

71: LLEIDA NETWORKS SERVEIS TELEMATICS, SL

72: SOLER, Francisco Sapena

54: METHOD FOR CERTIFYING AN ELECTRONIC MAIL COMPRISING A TRUSTED DIGITAL SIGNATURE BY A TELECOMMUNICATIONS OPERATOR

00: -

A method of certifying a digitally signed electronic mail, carried out by a telecommunications operator, the method including the steps of: generating an electronic mail, sending the electronic mail to a client mail server, sending the electronic mail to a mail destination and to a certification data processing server, and certifying the electronic mail by the certification data processing server.

21: 2021/02608. 22: 2021/04/20. 43: 2022/06/29 51: C08L

71: BOREALIS AG

72: WANNERSKOG, Åsa, HJÄRTFORS, Anna, PRIETO, Oscar, ANKER, Martin, WATSON, Ann 33: EP 31: 18215241.3 32: 2018-12-21 54: IMPROVED FOAMING BEHAVIOUR OF POLYMER COMPOSITIONS USING BLOWING AGENT AND NUCLEATION AGENT 00: -

The invention relates to a foamable polymer composition comprising a blowing agent and a foamed polymer composition obtained by foaming this foamable polymer composition. The invention further relates to a cable comprising at least one layer which comprises the foamable polymer composition or a foamed polymer composition.

- 21: 2021/02663. 22: 2021/04/21. 43: 2022/06/13
- 51: B65G; C25C

71: Norsk Hydro ASA

72: DYRØY, Are, KARLSEN, Morten, BERVELING, Albert, ØREN, Tore

33: NO 31: 20181483 32: 2018-11-20 54: A METHOD AND EQUIPMENT FOR STORING AND TRANSPORTING HOT GAS EMITTING COMPONENTS

00: -

A method and equipment for storing and transporting hot gas emitting components taken out of an electrolysis cell for aluminium production, the cell being of Hall-Héroult type with prebaked anodes, the components comprise at least one of; spent anode/s, bath material, anode covering material, the equipment comprises a top open closeable container that is closeable by means of lid(s), and further means for allowing a fluoride adsorbing material to be poured onto said component/s that have been brought into a central chamber (C) of the container. The equipment comprises further at least one

fluidising air slide(s) arranged at the outside of the container where material is readily available for said air slide(s) as pre-stored material in compartment(s) in the equipment or readily available by external supply of material during the covering operation. The air slide(s) distribute the fluoride adsorbing material, by fluidisation of the material, through one or more inlet openings (O) in on or more side wall(s) (2) of the container, further into the central chamber (C) and finally covering said component(s) with material.



21: 2021/02678. 22: 2021/04/21. 43: 2022/06/13 51: G06Q; G16H

71: UNIVERSITY OF JOHANNESBURG, University of the Witwatersrand, Johannesburg 72: MARWALA, Tshilidzi, MBUVHA, Rendani 33: ZP 31: 2018/06344 32: 2018-09-21 54: A SYSTEM AND METHOD FOR IMPUTING MISSING DATA IN A DATASET, A METHOD AND SYSTEM FOR DETERMINING A HEALTH CONDITION OF A PERSON, AND A METHOD AND SYSTEM OF CALCULATING AN INSURANCE PREMIUM 00: -

This invention relates to systems and methods for imputing missing data in a dataset, for determining a health condition of a person, and for calculating an insurance premium. In particular, the method described herein employs a trained autoencoder system which is configured to receive an input dataset comprising input data which has data missing therefrom. In a preferred example embodiment, the input data contains data associated with a person and the missing data is an HIV and/or Syphilis status of the person. The trained autoencoder system is configured to impute the missing data from the input dataset, which in the case of the preferred example embodiment is to impute or predict the HIV and/or Syphilis status of the person.



21: 2021/02686. 22: 2021/04/22. 43: 2022/06/13 51: G06N; G06Q

71: International Business Machines Corporation 72: LUUS, Francois Pierre, KHAN, Naweed Aghmad, MAKONDO, Ndivhuwo, VOS, Etienne Eben, AKHALWAYA, Ismail Yunus 33: US 31: 16/856,730 32: 2020-04-23 54: GENERATION OF REPRESENTATIVE DATA TO PRESERVE MEMBERSHIP PRIVACY 00: -

Methods and systems for generating representative data. A generator is configured to create, using a learning model, one or more generated records based on a plurality of training records obtained from a sensitive database. A discriminator is trained to identify the generated records as being generated based on the training records and a privacy adversary is trained to identify a training sample as being more similar to a distribution of the generated records than a distribution of the reference records.



21: 2021/02689. 22: 2021/04/22. 43: 2022/06/13 51: A41D

71: HANDEL STREET UPHOLSTERERS AND MOTOR TRIMMINGS (PROPRIETARY) LIMITED 72: ISMAIL, Ashraf 33: GB 31: 2005870.7 32: 2020-04-22

54: DISPOSABLE PROTECTIVE GEAR 00: -

A 4-ply disposable face mask is provided. In one version, the mask can filter out from between 50% and 95% of harmful airborne particles and protect against blood spatter, and comprises an outer layer made from spun bonded nonwoven material; a first filtering layer made from spun bonded melt blown material; a second filtering layer; and an outer layer facing a wearer of the mask, made from spun bonded nonwoven material. In another version, the mask provides general protection against viruses, bacteria, airborne microbes, dust and pollen and blood spatter, known in the market as the 4-ply Face Fit N95 Technology Mask and/or a Level 1A or 4A mask/respirator. In yet another embodiment, the invention discloses a disposable medical and industrial respirator mask comprising a 5, 6, 7, 8 or 9 ply of nonwoven fabric or material with electrostatic properties for bacterial repellence.



21: 2021/02705. 22: 2021/04/22. 43: 2022/06/13 51: C22C; C23C

71: Qingdao NPA Industry Co., Ltd.

72: LUO, Heli, WANG, Xinglei, LI, Shangping, GU, Zhaoxiong, WANG, Jiantao, WEI, Lijuan, YIN, Fajie, WANG, Zhenhua

33: CN 31: 201811324651.0 32: 2018-11-08 54: ANTI-OXIDATION HEAT-RESISTANT ALLOY AND PREPARATION METHOD 00: -

The present application relates to the technical field of alloys, and relates to an anti-oxidation heat-resistant alloy and a preparation method, which solve the problem of existing alloys having poor toughness when the oxygen, sulfur, and nitrogen content in the alloys is high, the proportion of an Al₂O₃ film in an oxide film of an alloy surface is low, and the aluminum content is high. The antioxidation heat-resistant alloy of the present application comprises according to mass percentage: Al: 2.5%-6%, Cr: 24%-30%, C: 0.3%-0.55%, Ni: 30%-50%, W: 2%-8%, Ti: 0.01%-0.2%, Zr: 0.01%-0.2%, Hf: 0.01%-0.4%, Y: 0.01%-0.2%, V: 0.01%-0.2%, N<0.05%, O<0.003%, S<0.003%, Si<0.5%, and the remainder is Fe and unavoidable impurities, wherein Ti and V comprise one thereamong. The preparation method for the anti-oxidation heatresistant alloy comprises: smelting non-active element materials # refining # adding mixed rare earth # adding slag # alloying active elements. The full anti-oxidation grade temperature of the anti-oxidation heat-resistant alloy of the present application reaches 1200°C, thereby implementing the stable service of the alloy below 1200°C for a long period of time.



21: 2021/02706. 22: 2021/04/22. 43: 2022/06/13 51: F04B

71: Obshchestvo S Ogranichennoj Otvetstvennosťyu "Toreg"

72: KUZIN, Egor Vladimirovich, TYUKAVKIN, Egor Aleksandrovich, BUBLIK, Dmitrij Alekseevich 33: RU 31: 2018134507 32: 2018-10-02 54: PUMP ASSEMBLY

00: -

The invention relates to pump assemblies for pumping fluids with a high solids content. The present assembly comprises a housing having two parts with internal cylindrical cavities having openings for the inlet and outlet of a pumped fluid, and two longitudinally deformable bellows fastened inside the respective parts of the housing. The opposite end of each bellows is provided with a plug. On the end surface of the housing to which the bellows are connected is an opening for the inlet of a working fluid into the corresponding internal cavity. A hydraulic system for controlling the pump assembly is configured in the form of a tank containing a working fluid, a positive displacement pump, two independent hydraulic pipelines, and a system of valves capable of alternately connecting the internal cavities of the bellows containing working fluid to the pipelines. The internal cavity of each bellows is alternatingly connected to the positive displacement pump for supplying working fluid by a first hydraulic pipeline and to the working medium tank by a second hydraulic pipeline. The assembly makes it possible to increase the capacity of the pump, reduce the weight and size of the pump assembly, and improve energy efficiency.

21: 2021/02725. 22: 2021/04/23. 43: 2022/06/13 51: G06F; G06N; G06Q 71: International Business Machines Corporation 72: LUUS, Francois Pierre, VOS, Etienne Eben, MAKONDO, Ndivhuwo, KHAN, Naweed Aghmad, AKHALWAYA, Ismail Yunus 33: US 31: 16/862,509 32: 2020-04-29 54: GENERATIVE ONTOLOGY LEARNING AND NATURAL LANGUAGE PROCESSING WITH PREDICTIVE LANGUAGE MODELS 00: -

An ontology topic is selected and a pretrained predictive language model is primed to create a predictive primed model based on one or more ontological rules corresponding to the selected ontology topic. Using the predictive primed model, natural language text is generated based on the ontology topic and guidance of a prediction steering component. The predictive primed model is guided in selecting text that is predicted to be appropriate for the ontology topic and the generated natural language text. The generated natural language text is processed to generate extracted ontology rules and the extracted ontology rules are compared to one or more rules of an ontology rule database that correspond to the ontology topic. A check is performed to determine if a performance of the ontology extractor is acceptable.



- 21: 2021/02726. 22: 2021/04/23. 43: 2022/06/13 51: B28B: C04B
- 71: ADLEM, Pieter Willem Adrian, VON PLASTER, Vincent
- 72: ADLEM, Pieter Willem Adrian, VON PLASTER, Vincent
54: A WALL AND METHOD OF MANUFACTURING SAME 00: -

A method of manufacturing a wall structure is disclosed, comprising casting a semi-dry mix of cementitious material in at least one mould positioned on a supporting base, the at least one mould and supporting base being shaped and dimensioned to form the wall structure, the casting being characterized by removal of the shaped cementitious wall structure from the mould and base directly after casting as part of a continuous production line. A kit for use in said method and individual components of the kit and a wall formed using said method are further disclosed.

21: 2021/02731. 22: 2021/04/23. 43: 2022/06/29 51: C08L

71: BOREALIS AG

72: WANNERSKOG, Åsa, HJÄRTFORS, Anna, PRIETO, Oscar, ANKER, Martin, WATSON, Ann 33: EP 31: 18215274.4 32: 2018-12-21 54: IMPROVED FOAMING BEHAVIOUR OF POLYMER COMPOSITIONS USING PASSIVE NUCLEATION

00: -

The present invention concerns a foamable polymer composition and a foamed polymer composition obtained by foaming this foamable polymer composition. The invention is also concerned with a cable comprising at least one layer which comprises the foamable polymer composition or the foamed polymer composition. The invention further provides a process for producing a foamed polymer composition.

21: 2021/02761. 22: 2021/04/23. 43: 2022/06/13 51: H04N

71: INVIDI Technologies Corporation
72: FIDERER, Howard, WILSON, Daniel C.
33: US 31: 62/742,107 32: 2018-10-05
54: MEDIAHUB FOR CONTROLLING AND
MONITORING THE DISTRIBUTION OF
TARGETED ASSETS
00: -

The present invention relates generally to the provision of targeted advertisements in media. Systems and methods are described which facilitate addressable and non-addressable distribution of assets across a plurality of distribution networks and platforms. In this regard, an advertiser may be able to place a single order for advertising through a media distribution platform that allocates and distributes the asset via multiple channels such as internet streaming, websites (e.g., banners, pop-ups, overlays, etc.), cable, satellite, etc.



21: 2021/02774. 22: 2021/04/26. 43: 2022/06/13 51: C04B 71: SIKA TECHNOLOGY AG

72: DUPOUY, Lissa, LIARD, Maxime, HAUGUEL, Lolita, LOOTENS, Didier 33: EP 31: 18198197.8 32: 2018-10-02 54: ACTIVATION OF GROUND GRANULATED BLAST FURNACE SLAG 00: -

The present invention relates to an improved mineral binder composition comprising: - a mineral binder comprising at least 30 weight-% slag, based on the weight of the mineral binder, - an activator for the hydration of the slag consisting of or comprising calcium hydroxide and - a co-activator consisting of or comprising at least one salt selected from the group consisting of lithium carbonate, lithium sulfate and sodium carbonate. The improved mineral binder composition shows reduced setting time and increased early strength.

21: 2021/02798. 22: 2021/04/26. 43: 2022/06/08 51: A61K; A61P 71: BYONDIS B.V. 72: VAN DEN HOEF, CAROLUS JOHANNES EDGAR 33: EP 31: 18205459.3 32: 2018-11-09 54: FILTERABLE DUOCARMYCIN-CONTAINING ANTIBODY-DRUG CONJUGATE COMPOSITIONS AND RELATED METHODS 00: -Duocarmycin-based antibody-drug conjugates can

be readily separated from non- conjugated

duocarmycin linker-drug in a composition that contains a solvent system of water and acetonitrile and that has 30% to 60% acetonitrile.

21: 2021/02807. 22: 2021/04/28. 43: 2022/06/15 51: E05D; E06B 71: AFRILOO (PROPRIETARY) LIMITED 72: FOURIE (851119 5215 08 0), Lukas Pieter 33: ZA 31: 2020/02468 32: 2020-05-06 **54: Door Assembly** 00: -

The invention relates to a door assembly which includes a door surround which defines an opening. A door is supported on a lower pivot pin and an upper pivot pin which extend between the door and the surround and permit pivotal displacement of the door between an open position and a closed position. A bias arrangement in the form of a torsion spring is provided which urges the door towards its closed condition, one of the pivot pins extending through the torsion spring. The pretension in the spring can be selected or adjusted in order to adjust the force with which the door is urged towards its closed condition.



- 21: 2021/02826. 22: 2021/04/28. 43: 2022/06/15
- 51: C12N; C12P
- 71: Bonumose, Inc.

72: WICHELECKI, Daniel Joseph

33: US 31: 62/752,061 32: 2018-10-29

54: ENZYMATIC PRODUCTION OF HEXOSES 00: -

Disclosed herein are methods of producing hexoses from saccharides by improved enzymatic processes. The improved processes utilize enzymes with higher activities than those previously reported to convert starch or a starch derivative, cellulose or a cellulose derivative, or sucrose to a glucose 6-phosphate (G6P) intermediate.



21: 2021/02872. 22: 2021/04/29. 43: 2022/06/15 51: A61K

71: CELLIX BIO PRIVATE LIMITED

72: KANDULA, Mahesh

- 33: IN 31: 201841044540 32: 2018-11-26
- 33: IN 31: 201941001491 32: 2019-01-12

54: OPHTHALMIC COMPOSITIONS AND METHODS FOR THE TREATMENT OF SKIN DISEASES AND EYE DISEASES

00: -

The invention relates to the compounds or its pharmaceutical acceptable polymorphs, solvates, enantiomers, stereoisomers and hydrates thereof. The pharmaceutical compositions comprising an effective amount of compounds of formula I, formula

II, formula III and formula IV and the methods for the treatment of eye disorders and skin diseases and may be formulated for the topical eye drop, topical paste, ocular solution, device-drug delivery, oral, buccal, rectal, topical, transdermal, transmucosal, lozenge, spray, intravenous, oral solution, nasal spray, oral solution, cream, dermal ointment, gels, lotions, suspension, oral spray, buccal mucosal layer tablet, parenteral administration, syrup, or injection. Such compositions may be used to treatment of skin diseases and eye diseases.

21: 2021/02889. 22: 2021/04/29. 43: 2022/06/14 51: B22F; B23K; B29C; B33Y

71: L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude 72: KAYA, Cerkez

33: DE 31: 10 2018 125 605.1 32: 2018-10-16 54: METHOD FOR THE ADDITIVE MANUFACTURING OF A COMPONENT 00: -

Method for the additive manufacturing of a component (17), in which the component (17) is applied layer-by-layer from a base material which in each layer at least in regions is solidified, wherein at least one cooling medium for cooling at least the region to be solidified by way of at least one cooling medium nozzle (11) is introduced into a carrier gas flow so as to form a cooling gas flow, wherein the cooling medium is present so as to be liquid and/or gaseous, wherein the cooling gas flow is guided through a de Laval nozzle (3), wherein the cooling medium flow is introduced such that the outflow of the cooling medium flow into the carrier gas flow takes place within or downstream of the de Laval nozzle (3), and the cooling gas flow (19) is directed at least onto the region to be solidified.



21: 2021/02893. 22: 2021/04/29. 43: 2022/06/14 51: A61B

71: Suzhou Anbo Medical Technology Co., Ltd.
72: ZHENG, Yang, CAO, Dong
33: CN 31: 201811152894.0 32: 2018-09-30
33: CN 31: 201811152844.2 32: 2018-09-30
54: MULTI-DIRECTIONALLY AND FLEXIBLY
BENDING AND LOCKING OPERATION
APPARATUS

00: -

Disclosed is a multi-directionally and flexibly bending and locking operation apparatus, comprising a hollow hard rod body; two ends of the rod body are respectively provided with a control part (2) and a wrist part structure; the control part (2) is provided with a first socket joint and a driving device; the wrist part structure is provided with a second socket joint; the second socket joint is connected to a front-end executing component; a transmission cable (26) is connected between a first ball head (21) and the second socket joint; the first socket joint comprises the first ball head (21) and a first ball seat (11); the second socket joint is provided with a second ball head (36) and a second ball seat (22); the first socket joint and the second socket joint connected to each other by means of the transmission cable (26) synchronize an operation of the control part and an execution action of the wrist part structure; the driving device can be controlled by hand directly and operated by a doctor in a handheld manner and can also be controlled by a servomotor (82) and used in a remotely controlled manner as an operation robot. The multi-directionally and flexibly bending and locking operation apparatus has a rational structural design, is convenient for use and in addition, has good portability and is economical.



- 21: 2021/02894. 22: 2021/04/29. 43: 2022/06/13 51: A01N
- 71: Syngenta Crop Protection AG
- 72: THOMSON, Niall Rae, NELSON, King, TOVEY, Ian David, RAMSAY, Guy
- 33: US 31: 16/194,624 32: 2018-11-19

54: PARAQUAT FORMULATION

00: -

The present invention relates to pesticidal emulsions comprising an aqueous continuous phase comprising paraquat and at least one polyvinylalcohol or polyvinylalcohol derivative; a dispersed oil phase; a pesticidal active ingredient; and at least two polymeric surfactants selected from a sorbitan ester and an ethoxylated sorbitan ester. It also relates to the use of a pesticidal emulsion to control undesired vegetation.

21: 2021/02946. 22: 2021/04/30. 43: 2022/06/13 51: F42C

71: CODED AMMUNITION PROPRIETARY LIMITED

72: ARENDZE, Ebrahim Edries

33: ZA 31: 2018/07670 32: 2018-11-15

54: CARTRIDGE AMMUNITION AND METHOD OF MANUFACTURING SAME 00: -

Cartridge ammunition 10 comprises a projectile 12, a cartridge case 14 and a primer insert 16 containing a primary explosive for igniting a propellant charge in a pressure chamber in the cartridge case. The cartridge case has a cylindrical side wall 18 and a base 19. The base defines a central recess 24 and a rim flange 26. The primer insert is cup-shaped and comprises a base wall 32 and a cylindrical side wall 34. The primer insert is press-fitted into the recess 24 such that the base wall 32 of the primer insert closes off the recess 24. An external side of the side wall 34 has a unique identification marking 36 linking an owner to the ammunition, which is covered by a wall of the recess 24. It is not possible to remove the primer insert without affecting the structural integrity of the cartridge ammunition and sealing of the primary explosive and propellant charge and dangerous to attempt to do so.



21: 2021/02964. 22: 2021/05/03. 43: 2022/06/13 51: B03B; B03D; C22B 71: FINETECH MINERALS PROPRIETARY LIMITED 72: NIEMOLLER, Rudy 33: ZA 31: 2020/01957 32: 2020-05-04 54: APPARATUS, METHOD AND PROCESS FOR THE RECOVERY OF MINERALS 00: -

This invention relates to an inverted up-flow separator, its use in a method of recovering target mineral particles from tailings and a process for the recovery of target mineral particles from tailings using the inverted up-flow separator of the invention.



21: 2021/02965. 22: 2021/05/03. 43: 2022/06/13 51: C12R; A61K

71: QILU UNIVERSITY OF TECHNOLOGY
72: ZHU, LIPING , YAN, SHIGAN
33: CN 31: 202011520077.3 32: 2020-12-21
54: ENZYME COMPLEX-PRODUCING BACILLUS
SUBTILIS (B. SUBTILIS) STRAIN Q3, AND
CULTIVATION METHOD AND USE THEREOF
00: -

The present disclosure discloses an enzyme complex-producing Bacillus subtilis (B. subtilis) strain, and a cultivation method and use thereof. The enzyme complex-producing B. subtilis strain Q3 was deposited in the China Center for Type Culture Collection (CCTCC) on November 17, 2017, at Wuhan University, No. 299 Bayi Road, Wuchang District, Wuhan City, Hubei Province, with a deposit number of CCTCC NO: M2017701. The B. subtilis disclosed in the present disclosure is isolated from leaf mold, can produce cellulase and pectinase, and has an inhibitory effect on common pathogenic bacteria. The B. subtilis can be used as an animal feed additive. Fermenting Echinacea purpurea with Q3 bacteria can promote the release of active ingredients in Echinacea purpurea, thus improving the effects of Echinacea purpurea such as growth promotion, immunity enhancement, and disease prevention and treatment. The bacteria and an Echinacea purpurea preparation fermented thereby have promising market application prospects.

21: 2021/02969. 22: 2021/05/03. 43: 2022/06/13 51: E04C

71: WACO Africa (Pty) Ltd t/a FORMSCAFF 72: POUWELS, Klaas, MOES, Jan Johannes 33: ZA 31: 2018/06526 32: 2018-10-02 54: MULTI-FUNCTIONAL BEAM FOR FORMWORK, SUPPORT WORK AND SCAFFOLDING RELATED APPLICATIONS 00: -

An elongate multi-functional I-beam for formwork, support work and scaffolding related applications is provided. The I-beam comprises a web having a plurality of circular spaced apart apertures formed therein; and a pair of flanges on opposite ends of the web, extending substantially at 90 degrees to the web, each flange comprising at least one pair of third apertures positioned on opposite sides of the web, and at least one pair of slots positioned on opposite sides of the web and proximate, but spaced apart, from the adjacent, corresponding third apertures, the pair of slots and the pair of third apertures defining a cluster of openings that extend along the length of the web.



21: 2021/02972. 22: 2021/05/03. 43: 2022/06/15 51: A61F

71: Edwards Lifesciences Corporation

72: MAIMON, David, BUKIN, Michael, LEVI, Tamir S., NIR, Noam, YOHANAN, Ziv, KERET, Amir, SHERMAN, Elena

33: US 31: 62/767,412 32: 2018-11-14 54: PROSTHETIC HEART VALVE HAVING COMMISSURE SUPPORT ELEMENT 00: -

A prosthetic heart valve includes an annular frame including a plurality of angled strut members that is radially collapsible to a collapsed configuration and radially expandable to an expanded configuration. The frame has an inflow end and an outflow end, and includes a leaflet structure positioned within the frame, the leaflet structure comprising a plurality of leaflets arranged to form a plurality of commissures. The frame includes a plurality of commissure support elements, each commissure support element being positioned at one of the commissures. Each of the commissure support elements has a coupling portion coupled to the frame and first and second members coupled to the coupling portion and extending in a direction toward the inflow end of the frame or toward the outflow end of the frame. The leaflets of

each commissure are received between the first and second members of the respective commissure support element.



- 21: 2021/02991. 22: 2021/05/04. 43: 2022/06/15 51: A61K; A61P; A61Q 71: Bio Minerals N.V.

72: CALOMME, Mario Remi Yvonne, VAN HOOF,
Kathleen Jozef Ingrid Suzanne
33: EP(BE) 31: 18198972.4 32: 2018-10-05
54: SILICIC ACIDS FOR USE IN THE TREATMENT

54: SILICIC ACIDS FOR USE IN THE TREATMENT OF PERIODONTITIS 00: -

The oral administration of bioavailable silicic acid, such as choline-stabilized silicic acid during a period of at least 3 months daily leads to the prevention, inhibition and or treatment of periodontitis and periimplantatis. The treatment is particularly suitable in combination with appropriate cleaning of the teeth and disinfecting the mouth, by one or more antiseptic and/or antimicrobial agent(s), as carried out at least once and suitably regularly, such as once per year, twice per year, four times per year or even every second month or every month. The treatment may be further enhanced by simultaneous administration of vitamins, trace elements, as well as by administration of a probioticum. Such additional agents may be applied separately, but are preferably incorporated in the formulation of bioavailable silicic acid.



21: 2021/03006. 22: 2021/04/30. 43: 2022/06/15 51: A61B 71: SIHONG ZHENGXING MEDICAL

TECHNOLOGY CO., LTD. 72: ZHENG, Yang, ZHENG, Xing 33: CN 31: 201811152855.0 32: 2018-09-30 33: CN 31: 201811152893.6 32: 2018-09-30 54: SURGICAL ROBOT BASED ON BALL AND SOCKET JOINT AND TACTILE FEEDBACK, AND CONTROL DEVICE THEREOF 00: -

Provided are a surgical robot based on a ball and socket joint (1) and tactile feedback, and a control device (7) thereof, wherein the surgical robot is provided with the ball and socket joint (1) consisting of a ball member (11) and a joint seat, the joint seat is internally provided with a first roller and a second roller for driving the ball member (11) to rotate threedimensionally therein, and also arranged with a sensor (62) for collecting the three-dimensional rotation of the ball member (11) relative thereto. A rotating channel tube, an advancing and retreating channel tube and a surgical instrument are provided through the center of the ball member (11) sequentially. The structures of the surgical robot and the control device (7) are simplified by using the three-dimensional rotation ability of the ball and socket joint (1), the structures of the control device (7) and an execution device (8) are the same, tactile feedback is provided to the operator, and thus the portability and the operability of the surgical robot are improved.

21: 2021/03015. 22: 2021/05/05. 43: 2022/06/15 51: G06F 71: DISCOVERY LIMITED 72: FRIEDLANDER, GARETH, KALLNER, HYLTON, FALCONER, STEVEN JOHN, SADOWSKI, ROMUALD STANISLAW

33: ZA 31: 2020/02710 32: 2020-05-14 54: A COMPUTER IMPLEMENTED SYSTEM FOR PROVIDING AN AUTOMATED COMPARATIVE INSURANCE QUOTE TO A USER 00: -

A computer implemented system for providing a comparative insurance quote to a user includes a memory for storing data. A communications module receives an insurance document in the form of an electronic document or digital image containing information relating to an individual and information relating to an insurance policy and stores this in the memory. A processor is programmed to access the memory and retrieve the stored electronic document or digital image. The processor executes optical character recognition on the electronic document or digital image to extract text from the electronic document or digital image and analyses the extracted text to identify relevant fields related to the individual and relevant fields related to insurance information. The processor maps the insurance information fields to comparative insurance fields of the insurer and uses the mapped fields to generate an insurance quote which is then transmitted to the user via the communications module.



21: 2021/03017. 22: 2021/05/05. 43: 2022/06/15 51: F04D 71: GRADIDGE, ROBERT CHARLES 72: GRADIDGE, ROBERT CHARLES 33: ZA 31: 2020/02426 32: 2020-05-05 54: PUMPING ASSEMBLY AND PUMP INCLUDING SUCH ASSEMBLY 00: -

This invention concerns a pumping assembly for use with a pump in pumping fluid from a body of fluid, particularly pumping slurry. The pumping assembly includes a pump casing and a removable cover that together define a fluid cavity. An impeller is located within the fluid cavity to pump fluid along a fluid flow path running from an inlet, through the fluid cavity and to an outlet. The cover defines fluid flow conduits along which a portion of the fluid is diverted to a number of outlet ports while the impeller forces fluid along the first fluid flow path. The portion of fluid being diverted to the outlet ports is ejected as high pressure fluid jets radially outward and downward away from the inlet and to agitate sediments on a floor of the body of fluid. The invention also concerns a method of pumping fluid, in particular slurry.



21: 2021/03024. 22: 2021/05/05. 43: 2022/06/15 51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: XU, Wenliang, FERNANDEZ ALONSO, Susana 33: EP 31: 18382714.6 32: 2018-10-09

54: METHOD AND APPARATUS FOR SUPPORTING EVENT MONITORING 00: -

A method (400) for supporting event monitoring in a first apparatus, comprising: sending (S401) to a second apparatus a monitoring request message including a monitoring type parameter indicating a requested monitoring event to be monitored for one or a group of User Equipment UEs; and receiving (S402) from the second apparatus a first monitoring response message or a first monitoring indication message including a monitoring event report of the requested monitoring event of the one or group of UEs.



21: 2021/03033. 22: 2021/05/05. 43: 2022/06/15 51: C07D

- 71: THE UNIVERSITY OF JOHANNESBURG
- 72: JIYANE, Pangaman, NDINTEH, Derek, Tantoh
- 33: ZA 31: 2018/07451 32: 2018-11-07
- 54: SCOPOLAMINE PRODUCTION
- 00: -

The invention provides an improved method for the production of Scopolamine by extraction.

21: 2021/03053. 22: 2021/05/06. 43: 2022/06/15 51: E21C

71: PTD METALWORKING PROFESSIONALS, KENNAMETAL EUROPE GMBH 72: FILIPE DOS SANTOS, Johann Izak Hattingh 54: RIBBED COAL SLEEVE

00: -

The present invention relates to a sleeve including a body having a first end capable to receive and house a tool and an opposing second end removably securable to a machine, the first end including at least one machined rib.

21: 2021/03077. 22: 2021/05/03. 43: 2022/06/15 51: G06F G06K G01V H04W 71: MOBILE TECHNOLOGY HOLDINGS LIMITED 72: EDMISTON, Sean, Anthony, NORMAN, Carl, WILSON, Michael, John 33: AU 31: 2018904106 32: 2018-10-30 **54: ELECTRONIC DEVICE IDENTIFICATION** 00: -A system and method to identify an electronic device

(5), by detecting spurious emissions (4) in the form of electromagnetic waves which are radiated from the device (5). Once identified, the device (5) may be used to authorise an action associated with the

device, such as, a financial transaction conducted at a user terminal (3) in a retail outlet.



21: 2021/03096. 22: 2021/05/07. 43: 2022/06/06 51: E21D

- 71: Crosscut Enterprises LLC
- 72: HUSSEY, David A., WATSON, George A.
- 33: US 31: 62/750,029 32: 2018-10-24

54: MINE ROOF SUPPORT

00: -

A system or method for a structural mine roof support includes a roof support apparatus that includes a cylindrical cladding defining a hollow interior, a plurality of bamboo sections disposed in the hollow interior and coaxial with an axis of the cylinder. Also, a roof support apparatus with a cylindrical cladding defining a hollow interior, a plurality of bamboo sections disposed in the hollow interior and coaxial with an axis of the cylinder, and voids between adjacent bamboo sections, the voids being injected with a filler material, e.g., polyurethane foam, to maintain axial positioning of the bamboo sections when under load. The support apparatus configured to load and to yield in a

predetermined fashion to control a mine roof from sudden failure.



- 21: 2021/03102. 22: 2021/05/07. 43: 2022/06/10
- 51: B01J; B05B; F26B
- 71: Spraying Systems Co.
- 72: SZCZAP, Joseph
- 33: US 31: 62/754.691 32: 2018-11-02

54: ELECTROSTATIC SPRAY DRYER SYSTEM 00: -

An electrostatic spray dryer for drying liquid into powder including an elongated cylindrical drying chamber having an electrostatic spray nozzle at an upper end and a powder collection vessel at a lower end. The powder collection vessel includes a removable and replaceable filter collections sock made of filter material for receiving and collecting dried powder from the drying chamber. For cleaning residual powder from an inside wall of the drying chamber, a scraper member is provided that is coupled by magnetic attraction to a manually removable driver on the external surface of the wall.



21: 2021/03124. 22: 2021/05/10. 43: 2022/06/10 51: A47G

71: JENSEN, Eugene, PEEK, Johannes, Samuel 72: JENSEN, Eugene, PEEK, Johannes, Samuel 33: ZA 31: 2020/02602 32: 2020-05-11

54: INSULATING HOLDER AND METHOD FOR TRANSPORTING BEVERAGES

00: -

The invention provides an insulating transport container for transportation of beverages in ready to drink on demand beverage containers over short distances where temperature control is needed inside the beverage container when transporting the hot or cold beverages and which includes an insulating holder for cups positioned or placed therein, which insulating holder reduces temperature changes and inhibits spillage during transportation of cups containing a beverage, wherein the holder includes one or more self supporting resiliently deformable insulating material portions with at least one portion having a plurality of cup receiving cavities, which holder is sized and dimensioned to be placed inside the transport container for the transportation of beverages. The invention further provides an insert cover for a beverage cup, said insert cover being a sheet of food grade material which is larger or equivalent in diameter to the top of the cup on which it is to be used and, in use, is placed or inserted to form a cover insert between the top of the cup and a sealing lid, provided that the cover is not sealed or otherwise secured to the cup prior to placing of the lid onto the cup and is only inserted after a beverage has been dispensed into the cup. The invention extends to a method of transporting a beverage.



- 21: 2021/03140. 22: 2021/05/10. 43: 2022/06/13 51: C08J
- 71: CHATURVEDI, Ashok
- 72: CHATURVEDI, Ashok

33: IN 31: 201811040463 32: 2018-10-26 54: A BIODEGRADABLE POLYMERIC SUBSTRATE AND A METHOD OF PRODUCING THE SUBSTRATE

00: -

The present invention discloses a method of making a non-biodegradable flexible packaging substrate biodegradable. The method comprises the steps of (i) providing a substrate web from an unwind to a coating station (402), (ii) applying thin layer of uniform deposition of a curable coating on atleast one surface of the substrate partially or completely by the coating station wherein the external surface of the substrate is essentially coated, (iii) curing the coating applied on the substrate web by a curing unit, and (iv) collecting the coated substrate web in roll at rewind. Further, the thickness of the thin layer of uniform deposition is in the range of 0.01gsm to 10gsm.



21: 2021/03156. 22: 2021/05/10. 43: 2022/08/02 51: B01D; F26B; G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, CHINA UNIVERSITY OF MINING AND TECHNOLOGY

72: LIU, HUIHU, SANG, SHUXUN, XU, HONGJIE, WU, HAIYAN, LIU, SHIQI, ZHOU, XIAOZHI, WANG, HAIWEN, HUANG, HUAZHOU, LIU, CHANGJIANG, LI, ZICHENG, JIA, JINLONG

33: CN 31: 202010706758.2 32: 2020-07-21 54: EFFICIENT SEPARATION, RECYCLING TREATMENT AND CYCLIC UTILIZATION TEST METHOD FOR COAL-WATER-GAS MIXTURE 00: -

The invention discloses an efficient separation, recycling treatment and cyclic utilization test method for a coal-water-gas mixture, including the following steps: (1) performing multi-stage separation and filtration treatment on the coal-water-gas mixture by using a multi-stage screen to separate coal from water; (2) recycling the separated water back to the multi-stage screen for repeated filtration, and sampling, analyzing and testing the filtered water through a sampling port; (3) drying the separated coal to separate the coal from coal-bed methane in the drying process; and (4) collecting the separated coal-bed methane. The test method can perform efficient separation on coal, gas and water in a test room to realize separation of coal, water and coalbed methane (gas) in a test process, treatment and cyclic utilization of water, and accelerated desorption and recycling of residual gas in coal and shorten the test time.



21: 2021/03176. 22: 2021/05/11. 43: 2022/06/13 51: A23K; A61K; A61P 71: Ynsect

72: MOTTE, Constant, ARMENJON, Benjamin 33: FR 31: 1859486 32: 2018-10-12

54: INSECT POWDER FOR PREVENTING SKELETAL DEFORMITIES IN FISH AND/OR INCREASING THE STRENGTH OF A FISH BONE DURING FARMING

00: -

The present invention relates to an insect powder for use in the prevention of skeletal deformities in fish during farming and/or for increasing the strength of a fish bone during farming. The insect powder is preferably a powder of Tenebrio molitor.

- 21: 2021/03189. 22: 2021/05/11. 43: 2022/06/13 51: B65D
- 71: GBS HOLDINGS LLC
- 72: Bryan Justin Robert Crosby

33: US 31: PCT/US2018/055627 32: 2018-10-12 54: GUSSETED FLEXIBLE CONTAINER 00: -

Flexible containers are provided herein. In some embodiments, the flexible containers include a front panel, a back panel, a bottom panel, and a top panel attached to form a pourable material storage area, wherein the front panel and the top panel include a hole in the front panel and the top panel to form a dispensing system passage, and wherein the dispensing system passage is not in fluid communication with the pourable material storage area. A dispensing system is attached to the top panel between the top panel and the back panel and extends through the dispensing system passage.

21: 2021/03191. 22: 2021/05/11. 43: 2022/06/13 51: B01L; C08B

71: SOUTH CHINA UNIVERSITY OF TECHNOLOGY

72: ZENG, JINSONG, WANG, Shuxiu 33: CN 31: 201910495382.2 32: 2019-06-10 54: METHOD FOR PREPARING CELLULOSE NANOCRYSTALS BASED ON MICROFLUIDIC CHIP 00: -

A method for preparing cellulose nanocrystals based on a microfluidic chip comprises the following steps: (1) processing a microfluidic chip; (2) preparing sulfuric acid with a certain concentration; (3) preparing an MCC suspension; (4) adding the MCC suspension through an inlet of the microfluidic chip, and at the same time adding the same amount of the sulfuric acid from another inlet; (5) controlling the injection flow of a micro-injection pump to control the reaction time of the acid hydrolysis; (6) placing the entire reaction area of the microfluidic chip in a constant temperature water bath; (7) diluting the sulfuric acid in the reaction solution to inhibit the reaction, and collecting the final product at an outlet; (8) centrifuging the product to obtain CNCs suspension. The reaction conditions can be controlled more accurately, and the acid added can also be accurately controlled in terms of amount and recycled; also, multiple reactants are more uniformly mixed, and the safety of the experiment is also improved.



21: 2021/03206. 22: 2021/05/12. 43: 2022/06/13 51: G06F; G06N

71: International Business Machines Corporation 72: LUUS, Francois Pierre, RIEGEL, Ryan, AKHALWAYA, Ismail Yunus, KHAN, Naweed Aghmad, VOS, Etienne Eben, MAKONDO, Ndivhuwo

33: US 31: 15/931,223 32: 2020-05-13 54: OPTIMIZING CAPACITY AND LEARNING OF WEIGHTED REAL-VALUED LOGIC 00: -

Maximum expressivity can be received representing a ratio between maximum and minimum input weights to a neuron of a neural network implementing a weighted real-valued logic gate. Operator arity can be received associated with the neuron. Logical constraints associated with the weighted real-valued logic gate can be determined in terms of weights associated with inputs to the neuron, a threshold-of-truth, and a neuron threshold for activation. The threshold-of-truth can be determined as a parameter used in an activation function of the neuron, based on solving an activation optimization formulated based on the

logical constraints, the activation optimization maximizing a product of expressivity representing a distribution width of input weights to the neuron and gradient quality for the neuron given the operator arity and the maximum expressivity. The neural network of logical neurons can be trained using the activation function at the neuron, the activation function using the determined threshold-of-truth.



21: 2021/03208. 22: 2021/05/12. 43: 2022/06/13 51: A61B

71: WARR, Eric Howell Charles

72: OVERALL, Sean Grant 33: ZA 31: 2020/02628 32: 2020-05-12 54: A MEDICAL APPARATUS FOR A MOBILE

DEVICE AND A KIT FOR A MOBILE DEVICE 00: -

This invention relates to an apparatus for use with a mobile computing device having at least one image capturing device provided adjacent at least one face of the mobile computing device, particularly a medical apparatus. The apparatus comprises a focus head to which a tool is removably attachable or attached; an attachment arrangement for attaching the apparatus to the mobile computing device; and a displacement assembly configured to displace the focus head spatially in at least a first plane parallel to the at least one face of the mobile computing device such that the focus head is adjustably locatable to an operative position relative to the at least one image capturing device of the mobile computing device. The invention also relates to a kit comprising the apparatus and a plurality of suitable associated tools.



21: 2021/03210. 22: 2021/05/12. 43: 2022/06/29 51: C10L

71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.

72: CLAYTON, Christopher, William, GEE, Michael, WILLIAMS, Rodney, Glyn, WYATT, Emma, ROSS, Alan, Norman, WOODALL, Keith, REID, Jacqueline, Glen, MULQUEEN, Simon, Christopher, COOK, Stephen, Leonard

33: EP 31: 18211571.7 32: 2018-12-11 54: USE AND METHOD TO REDUCE DEPOSITS IN COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES 00: -

Use of an additive selected from nitrate compounds, peroxide compounds, nitrite compounds and polyether compounds, and mixtures thereof in a diesel fuel composition for reducing the build-up of deposits in an Exhaust Gas Recirculation (EGR) system of a compression ignition internal combustion engine.



21: 2021/03213. 22: 2021/05/12. 43: 2022/06/15 51: B09B; B29B; C22B

71: CSIR

72: MUSYOKA, Nicholas, REN, Jianwei 33: ZA 31: 2018/07422 32: 2018-11-06 54: RECYCLING OR PROCESSING OF LAYERED PACKAGING MATERIALS

00: -

A method of recycling or processing layered packaging material includes admixing a polymermetal composite obtained from or forming part of layered packaging material with a reactant selected to react with the metal of the polymer-metal composite at elevated temperatures, and reacting the polymer-metal composite with the reactant at an elevated reaction temperature to form a metalcontaining compound of the metal of the polymermetal composite. The polymer of the polymer-metal composite and any other non-metal layer material of the layered packaging material that may be present is burned or driven off, at said elevated reaction temperature.

21: 2021/03224. 22: 2021/05/12. 43: 2022/06/13 51: F24F

71: University of the Witwatersrand, Johannesburg, The Regents of the University of California
72: MANGER, Paul Robert, DAVIMES, Joshua Gabriel, BHAGWANDIN, Adhil, PHILANDER, Illke Bianca, SIEGEL, Jerome Melvin
33: ZA 31: 2018/06789 32: 2018-10-12
54: SYSTEMS, METHODS, AND AN APPARATUS
FOR CONTROLLING A SLEEP ENVIRONMENT AND WAKING A SLEEPING PERSON

00: -

This invention relates to a systems, methods and apparatuses for controlling a sleep environment, particularly for controlling an indoor sleep environment, and to a method and system of waking a sleeping person. The invention monitors one or both of wet-bulb globe temperatures (WBGTs) within the sleep environment and outdoors with a view to either altering the WBGT within the sleep environment to mimic a nadir or inflection point typically found outdoors and/or or generate an alarm when a nadir or inflection point of the WBGT outdoors is determined.



21: 2021/03252. 22: 2021/05/13. 43: 2022/06/10 51: D06P

71: PARTHASARATHY, Prabhakaran 72: PARTHASARATHY, Prabhakaran 33: IN 31: 201841042721 32: 2018-11-14 54: ADVANCEMENT OF EXHAUSTION, MIGRATION, ADSORPTION AND FIXATION OF DYESTUFF TO THE CELLULOSE MATERIALS 00: -

The present invention related to a method of dyeing using the salt mixture as an electrolyte with 0.5 to 5.00 GPL of sodium chloride or sodium sulphate and alkali agents I and II to exhaust and fix the dyestuff to the cellulose material in the reactive dyeing wherein the fiber is treated with (i) the salt mixture with sodium chloride or sodium sulphate specifically, putting the pre-treated fiber maintained with pH between 3 and above and an (MLR) maintained between 1:20 and 1:3 at a temperature between 20°c and above and exhausted for between 15 minutes and above, (ii) the alkali agent I with a pH between 9.5 and above at a temperature between 30°c and above and stained for between 20 minutes and above (iii) the alkali agent II with a pH between

10.5 and above at a temperature between 30°c and above and stained for 40 minutes and above.

21: 2021/03259. 22: 2021/05/13. 43: 2022/06/10 51: C12N 71: MODALIS THERAPEUTICS CORPORATION 72: QIN, YUANBO 33: US 31: 62/749,855 32: 2018-10-24 54: MODIFIED CAS9 PROTEIN, AND USE THEREOF

00: -

The present invention relates to a protein which is composed of a sequence comprising such an amino acid sequence that there is a contiguously deleted region between position-721 and position-755 in the amino acid sequence represented by SEQ ID NO: 2 and amino acid residues that are respectively adjacent to the deleted region are linked to each other through a linker composed of 3 to 10 amino acid residues, and which has an ability to bind to guide RNA. The protein maintains the guide RNAbinding ability and the DNA binding affinity thereof, in spite of the fact that the protein has the deleted region and is therefore miniaturized compared with full-length dSaCas9. The use of the miniaturized dSaCas9 protein makes it possible to package a larger number of genes in a vector.

21: 2021/03278. 22: 2021/05/14. 43: 2022/06/13 51: C07D A61K A61P

71: JIANGSU HENGRUI MEDICINE CO., LTD. 72: QIU, Zhenjun, ZHANG, Quanliang, WEI, Yanli, CAO, Yongxing, YANG, Junran, MA, Yahui, DU, Zhenxing, WANG, Jie 33: CN 31: 201811231321.7 32: 2018-10-22 54: CRYSTAL FORM OF MALEATE OF

TYROSINE KINASE INHIBITOR AND PREPARATION METHOD THEREFOR 00: -

Provided are a crystal form of a maleate of a tyrosine kinase inhibitor and a preparation method therefor. Specifically, provided are I crystal form, a II crystal form, a IV crystal form and a V crystal form of the compound as shown in formula (I) and a preparation method therefor. The new crystal form has a good stability, thereby making same better to use in clinical treatments. (I)



21: 2021/03282. 22: 2021/05/14. 43: 2022/06/16 51: H04N 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. 72: LEE, BAE KEUN 33: KR 31: 10-2018-0167979 32: 2018-12-21 33: KR 31: 10-2018-0136262 32: 2018-11-08 54: VIDEO SIGNAL ENCODING AND DECODING METHOD, AND APPARATUS THEREFOR 00: -

A video decoding method according to the present disclosure includes the steps of: determining whether a merge motion difference coding method is applied to a current block; generating a merge candidate list for the current block; specifying a merge candidate for the current block based on the merge candidate list; and deriving a motion vector for the current block based on the merge candidate.



21: 2021/03309. 22: 2021/05/17. 43: 2022/06/10 51: A61K

71: PHARMATHEN S.A.

72: KARAVAS, Evangelos, KOUTRIS, Efthymios, SAMARA, Vasiliki, KOUTRI, Ioanna, KALASKANI,

Anastasia, KAKOURIS, Andreas, FOUSTERIS, Manolis

54: PHARMACEUTICAL COMPOSITION COMPRISING A COMBINATION OF SITAGLIPTIN AND METFORMIN AND METHOD OF PREPARATION THEREOF

00: -

The present invention relates to a solid pharmaceutical composition including a fixed dose combination of Sitagliptin or a pharmaceutically acceptable salt thereof and Metformin or a pharmaceutically acceptable salt thereof, for oral administration and a process for the preparation thereof. The pharmaceutical composition of the present invention is to be used for the treatment of Type 2 diabetes.

21: 2021/03317. 22: 2021/05/17. 43: 2022/06/01 51: G06N; G06F

71: MICROSOFT TECHNOLOGY LICENSING, LLC 72: DEY, DEBADEEPTA, HU, HANZHANG, CARUANA, RICHARD A, LANGFORD, JOHN C, HORVITZ, ERIC J 33: US 31: 16/213,470 32: 2018-12-07

54: AUTOMATED GENERATION OF MACHINE LEARNING MODELS

00: -

This document relates to automated generation of machine learning models, such as neural networks. One example system includes a hardware processing unit and a storage resource. The storage resource can store computer-readable instructions cause the hardware processing unit to perform an iterative model-growing process that involves modifying parent models to obtain child models. The iterative model-growing process can also include selecting candidate layers to include in the child models based at least on weights learned in an initialization process of the candidate layers. The system can also output a final model selected from the child models.



21: 2021/03347. 22: 2021/05/18. 43: 2022/06/20 51: H04N

71: Huawei Technologies Co., Ltd.

72: CHERNYAK, Roman Igorevich, ZHAO, Yin, IKONIN, Sergey Yurievich, CHEN, Jianle 33: US 31: 62/812,282 32: 2019-03-01 54: THE METHOD OF EFFICIENT SIGNALLING OF CBF FLAGS 00: -

A method of coding implemented by a decoding device or encoding device, the method comprising obtaining a bitstream, the bitstream comprises a transform unit syntax, (in an example, the transform unit syntax element can be either coded for a whole block or coded for multiple sub-transform units that are obtained by Sub-Block Transform for inter block (SBT), or in order to satisfy maximal transform unit size restrictions); the syntax comprises at least two cbf flags for chroma blocks (in an example, transform unit syntax correspond to either transform unit or sub-transform units which include two chroma cbf flags: tu cbf cb and tu cbf cb - one flag for each chroma plane), a chroma cbf flag specifies whether certain block has residue in correspondent color plane; deriving a value of a luma cbf flag tu cbf luma based on one or any combination of a value of a cu_cbf flag, values of two chroma cbf flags corresponding to a current transform unit or sub-transform unit, location of the sub-transform unit within transform unit, values of luma and chroma cbf flags correspondent to previous sub- transform units in the current transform unit.

obtaining a bitstream comprising a transform unit syntax	 1601
deriving a value of a luma cbf flag	 1602

21: 2021/03350. 22: 2021/05/18. 43: 2022/06/10 51: A61K; C07K; C12N; C12P 71: Teijin Pharma Limited 72: TANOKURA, Akira, KATO, Hirotsugu, EGUCHI, Hiroshi, TAKAGI, Kenichiro, YAMAMURA, Satoshi, NAMIKI, Naoko, ISHIKAWA, Daisuke, HIGUCHI, Hirofumi, TAKEO, Tomoyo, OHORI, Masayo 33: JP 31: 2018-226669 32: 2018-12-03 54: ANTI-IGF-I RECEPTOR HUMANIZED ANTIBODY

00: -

Provided is a humanized antibody that, through IGF-I receptor, increases muscle mass but does not lower the blood glucose level. This humanized antibody: is an anti-IGF-I receptor humanized antibody, a fragment thereof, or a derivative thereof; has a specific amino acid sequence such as SEQ ID NOs: 1 to 6 serving as a CDR sequence; and specifically binds to IGF-I receptor extracellular domain.



21: 2021/03385. 22: 2021/05/19. 43: 2022/06/10 51: G06Q; H04L

71: CLEMENTS, Douglas Logan Darrow

72: CLEMENTS, Douglas Logan Darrow 33: US 31: 16/181,018 32: 2018-11-05 54: COMPUTER ENHANCEMENTS FOR

INCREASING SERVICE GROWTH SPEED

Techniques to increase a speed of a growth of a service are disclosed. User-specific information is dynamically calculated for each of a plurality of users of the service while each of the plurality of users is accessing the service. The user-specific information includes scores associated with the plurality of users. The scores represent combined values of points associated with each of a set of scoring activities performed by each of the plurality of users with respect to the service. Designated users are identified from the plurality of users based on a determination that one or more qualifying criteria have been satisfied. A transferring of a value to each of the one or more identified designated users is initiated based on a determination that one or more granting criteria have been satisfied.



- 21: 2021/03389. 22: 2021/05/19. 43: 2022/06/10
- 51: B02C

71: Vulco S.A.

72: MORENO, Victor, LARA, Héctor, PINTO, Alonso

33: GB 31: 1821262.1 32: 2018-12-28

54: LIFTER BAR 00: -

A lifter bar for a grinding mill is described. The lifter bar comprises: an elongate structural support defining a longitudinal axis and extending from (i) a first end transverse to the longitudinal axis to (ii) a second end transverse to the longitudinal axis; a plurality of structural plates extending along the longitudinal axis in spaced relation, where each structural plate is transverse to the longitudinal axis, and defines opposed edges. The lifter bar may further comprise at least two protective plate portions, each protective plate portion being mounted over one set of the opposed edges.



21: 2021/03391. 22: 2021/05/19. 43: 2022/06/13 51: B42D; G06Q; H04N 71: Thales DIS France SA 72: CHAPELLIER, Sébastien, RANTI, Mario-Locas, WANG-ZW, Jervis, FOO, Yong Jie 33: EP(FR) 31: 18306538.2 32: 2018-11-21 54: A CIRCUIT CHIP AND A METHOD OF OPERATING IT 00: -

Secure patching of an operating system of the integrated circuit chip. A patch server encrypts a patch to the operating system of the integrated circuit chip and transmits the encrypted patch to an issuing-authority server. The issuing- authority server appends the encrypted patch into a digital certificate in an extension to the digital certificate and transmits the digital certificate including the encrypted patch to a terminal. The terminal transmits the digital certificate the integrated circuit chip. The integrated circuit chip recovers the extension to the second digital certificate and decrypts the extension using a decryption key of the manufacturer of the integrated circuit chip thereby recovering the patch to the operating system of the integrated circuit chip and installs the patch into the operating system of the integrated circuit chip.



- 21: 2021/03393. 22: 2021/05/19. 43: 2022/06/13
- 51: C07F; C08K
- 71: LANXESS Corporation
- 72: LEE, Julia Yue, HE, Qingliang

33: US 31: 62/782,907 32: 2018-12-20 54: METHOD FOR PREPARING READILY PROCESSABLE, THERMALLY-STABLE, PHOSPHORUS-CONTAINING FLAME RETARDANT MATERIAL

00: -

The present disclosure provides for the production of non-halogenated phosphorus containing, thermally stable flame retardant materials directly in the form of a powder or small particles. The process generally includes heating one or more phosphonic acid salts in a high boiling, water miscible, acid stable solvent to dehydration reaction temperatures of 200°C or higher.

21: 2021/03426. 22: 2021/05/20. 43: 2022/06/27

- 51: B01D; B04C
- 71: BIBBY, Darren Richard
- 72: BIBBY, Darren Richard
- 33: ZA 31: 2020/00390 32: 2020-01-21

54: CYCLONIC AIR FILTRATION EQUIPMENT 00: -

The invention relates to an air filtration bank (100) and an air filtration system (50) for removing grit or impurities from an airstream using a plurality of cyclonic air classifiers (10) arranged in 2x2 arrays in each air filtration bank (100). The system (50) comprises a plurality of interconnected, modular air filtration banks (100) arranged side-by-side and a grit collecting chute (5). In order to improve airflow efficiency and particle separation, each cyclonic air classifier (10) includes a vortex-inducing inlet duct (13), an extraction pipe (16) and a conical diffuser (15). The conical diffusers (15) of upper and lower cyclonic air classifiers are of different lengths such that their respective waste outlets are not coplanar which serves to limit waste outlet flow interference and results in less pressure drop across the air filtration bank, which in turn leads to more efficient particle removal.



21: 2021/03455. 22: 2021/05/21. 43: 2022/06/10 51: A61H; G01C; G01S; G09B; H04W 71: International Business Machines Corporation 72: BYAMUGISHA, Joan, YOUNG, Richard Allen, KURIEN, Toby, KHAN, Naweed Aghmad, MOLAPO, Maletsabisa

33: US 31: 16/882,399 32: 2020-05-22 54: SPATIAL GUIDANCE SYSTEM FOR VISUALLY IMPAIRED INDIVIDUALS 00: -

Method, systems, and apparatus to facilitate navigation in a known environment. Communication and tracking between a receiver device and one or more beacons are provided to identify a current position of the receiver device. A direction to a next waypoint of a current path is determined based on the identified current position and a haptic feedback system is signaled to provide continuous haptic feedback to orient a user in the identified direction.



- 21: 2021/03461. 22: 2021/05/21. 43: 2022/06/10 51: E06B
- 71: BESTADOM S.R.O.
- 72: KLIMEŠ, Petr, MULLIE, Bernard
- 33: CZ 31: CZ2018-585 32: 2018-10-29

54: ROLLER SHAFT WITH A REINFORCEMENT 00: -

A roller winding mechanism comprising a winding shaft (2) which is created as a tube attached at one end to a drive which is coupled to the frame (7) and at its other end mounted on a bearing on a pivot fixed to the frame (7), whereas it comprises a shaft reinforcement (6) which is inserted into a roller winding shaft (2) and anchored firmly to a frame (7) on the side opposite to a drive (8), the bending direction of the shaft reinforcement (6) being opposite to the expected deflection of the winding shaft (2) and the initial curvature of this reinforcement (6) is such that its deformation along its length is such that its axis at maximum deformation coincides with the axis of the originally non-deformed winding shaft (2) and the reinforcement (6) is provided with rolling support bearings (10) mutually spaced apart along its length.



21: 2021/03521. 22: 2021/05/24. 43: 2022/06/10 51: D01H; D02G; D03D 71: Candiani S.p.A. 72: BENELLI, Paolo 33: IT 31: 102018000009802 32: 2018-10-25 54: COTTON-BASED ELASTICISED YARNS TO MAKE ENVIRONMENT-FRIENDLY ELASTICISED FABRICS

00: -

A method is disclosed for making an elastic core yarn (50), wherein an elastic core (30) comprising a fibre (10) of natural rubber with metric count 200-1000 dtex is covered by a cotton-based covering yarn (40), comprises a step of conveying the elastic core (30) and the covering yarn (40) in such a way that the covering yarn (40) laterally attains a proximity of the elastic core (30) in a wrapping space (35); a step of helically wrapping the covering yarn (40) about the elastic core (30) in a wrapping space (35), wherein the conveying speed, and therefore the winding/unwinding speed, is selected such that the elastic core (30) is stretched up to a stretching ratio of at least 2, and such that, during this wrapping step, the covering yarn (40) becomes twisted with a final twist direction opposite to its initial twist direction, and forms a number T of coils per length unit of the elastic fibre (10) set between a predetermined minimum value T₀ and a predetermined maximum value T₁ both depending on the linear mass density Nm of covering yarn (40), the wrapping space (35) being enclosed by a container (67). An elasticised yarn obtained this way, and a fabric, in particular a denim type fabric, manufactured from this yarn.



21: 2021/03541. 22: 2021/05/25. 43: 2022/06/29 51: A01C; A01G; A01M; B05B 71: MA INDUSTRIES, LLC 72: SAUDER, Greggory, A., SAUDER, Timothy, KOCH, Justin, L., MOORE, Nowell, WELTE, Jonathan, T., ABERLE, Reid, NUEST, Steven 33: US 31: 62/769,378 32: 2018-11-19 54: CROP INPUT APPLICATION SYSTEMS, METHODS, AND APPARATUS 00: -

Crop input application systems, methods and apparatus are provided. In some embodiments, an irrigation system is provided with a reel in fluid communication with a wellhead, secondary cart or fluid supply line outlet. In some embodiments, a drop assembly is incorporated in an irrigation system. In some embodiments, a crop applicator system traverses a field portion at a first speed in a first direction and then traverses the field portion at a second, lower speed in a second, opposite direction.



21: 2021/03571. 22: 2021/05/26. 43: 2022/06/10 51: G06F; G06N; G10K; H04R 71: International Business Machines Corporation 72: KHAN, Naweed Aghmad, KURIEN, Toby, GORDON, Michael S., WELDEMARIAM, Komminist 33: US 31: 16/884,278 32: 2020-05-27 54: AI-ASSISTED DETECTION AND PREVENTION OF UNWANTED NOISE 00: -

A signal representing a sound can be received. A machine learning model can be run to identify that the sound triggers a reaction in a user hearing the sound. A preventive action can be automatically activated to mitigate the reaction. The user's reactions can be monitored. Responsive to determining that the user's reaction has been mitigated or suppressed, the preventive action can be deactivated. The machine learning model can be retrained using at least the signal as new training data.



21: 2021/03572. 22: 2021/05/26. 43: 2022/06/10 51: G06N; G06Q

71: International Business Machines Corporation 72: KHAN, Naweed Aghmad, MUTAHI, Juliet, TER-MINASSIAN, Lucile, LUUS, Francois Pierre, AKHALWAYA, Ismail Yunus, WELDEMARIAM, Komminist

33: US 31: 16/884,746 32: 2020-05-27 54: MACHINE LEARNING MODELS OF LIVESTOCK VALUE CHAIN 00: -

Methods and systems for operating a machine learning system are described. In an example, a device can receive an image and assign a set of pixels in the image as a digital representation of a livestock. The device can further train a machine learning model using the digital representation. The device can further run the machine learning model to generate prediction data relating to the livestock. The device can further generate output data relating to at least one activity among a livestock value chain. The at least one activity can correspond to a process to generate a commodity based on the livestock.



21: 2021/03580. 22: 2021/05/26. 43: 2022/06/10 51: C07F A61K A61P

71: QUANTUM GENOMICS, INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, COLLEGE DE FRANCE

72: BALAVOINE, Fabrice, COMPERE, Delphine, LLORENS-CORTES, Catherine, MARC, Yannick 33: EP 31: 18306396.5 32: 2018-10-26 54: AMINOPEPTIDASE A INHIBITORS AND PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME

00: -

The present invention relates to a novel compound, to a composition comprising the same, to methods for preparing the compound, and the use of this compound in therapy. In particular, the present invention relates to compound that is useful in the treatment and prevention of primary and secondary arterial hypertension, ictus, myocardial ischaemia, cardiac and renal insufficiency, myocardial infarction, peripheral vascular disease, diabetic proteinuria, Syndrome X and glaucoma.

21: 2021/03581. 22: 2021/05/26. 43: 2022/06/10 51: C07F A61K A61P 71: QUANTUM GENOMICS, INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, CENTRE NATIONAL DE LA

RECHERCHE SCIENTIFIQUE, COLLEGE DE FRANCE

72: BALAVOINE, Fabrice, COMPERE, Delphine, LLORENS-CORTES, Catherine 33: EP 31: 18306398.1 32: 2018-10-26 54: NOVEL AMINOPHOSPHINIC DERIVATIVES AS AMINOPEPTIDASE A INHIBITORS 00: -

The present invention relates to a novel compound, to a composition comprising the same, to methods for preparing the compound, and the use of this compound in therapy. In particular, the present invention relates to compound that is useful in the treatment and prevention of primary and secondary arterial hypertension, ictus, myocardial ischaemia, cardiac and renal insufficiency, myocardial infarction, peripheral vascular disease, diabetic proteinuria, Syndrome X and glaucoma.





21: 2021/03599. 22: 2021/05/26. 43: 2022/06/10 51: B01J

71: SASOL SOUTH AFRICA LIMITED 72: GAUCHÉ, Jean Louis, PIENAAR, Cornelia, SWART, Jurie Christiaan Wessels, BOTHA, Jan Mattheus, MOODLEY, Denzil James, POTGIETER, Jana Heloise, DAVEL, Jolandie Zonja

33: ZA 31: 2018/08304 32: 2018-12-10 54: PROCESS FOR PREPARING A COBALT-CONTAINING CATALYST PRECURSOR AND PROCESS FOR HYDROCARBON SYNTHESIS 00: -

The invention provides a process for preparing a cobalt-containing catalyst precursor. The process includes calcining a loaded catalyst support comprising a silica (SiO2) catalyst support supporting cobalt nitrate to convert the cobalt nitrate into cobalt oxide. The calcination includes heating the loaded catalyst support at a high heating rate, which does not fall below 10°C/minute, during at least a temperature range A. The temperature range A is from the lowest temperature at which calcination of the loaded catalyst support begins to 165°C. Gas flow is effected over the loaded catalyst support during at least the temperature range A. The catalyst precursor is reduced to obtain a Fischer-Tropsch catalyst.



21: 2021/03624. 22: 2021/05/27. 43: 2022/07/07 51: B01D; B01J 71: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA 72: YAGHI, Omar M., HANIKEL, Nikita, LYU, Hao 33: UY 31: 62/771,537 32: 2018-11-26 54: MULTIVARIATE AND OTHER METAL-ORGANIC FRAMEWORKS, AND USES THEREOF 00: -Compositions comprising multivariate metal-organic

frameworks and other single-linker metal-organic frameworks are used for containing and storing a gas or fluid or for water harvesting or water purification applications.

21: 2021/03640. 22: 2021/05/27. 43: 2022/07/08 51: B22F; B29C; B33Y 71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY 72: PEI, Weichi, WANG, Lu, ZHANG, Xintao, LIU, Naijiang, SU, Liye

33: CN 31: 201910968154.2 32: 2019-10-12 54: MECHANICAL PRODUCT FORMING AND PROOFING 3D PRINTER 00: -

The present invention relates to a mechanical product forming and proofing 3D printer. A shell frame is installed at the lower end of a printer body. A placement port is provided in the upper side of the front end of the shell frame, and a discharging port is provided in the lower side of the front end of the shell frame. A rotating device is arranged between inner walls of the shell frame. A pushing device is arranged at the rear end of the shell frame. The present invention can solve the following problems of an existing 3D printer for forming and proofing a mechanical product: a, a printed 3D product needs to be left to stand for cooling, such that the printed product can be removed after being reinforced, and the 3D printer cannot conduct a continuous printing operation during operation thereof; and b, residue at a printing position needs to be manually removed, manual cleaning is not complete, and due to the fact that residue accumulates at the printing position, the printed product fails to meet the production requirements, thereby causing material waste.



21: 2021/03663. 22: 2021/05/28. 43: 2022/07/08

51: A45B; A47C; A61H; F41B; F41H 71: KNERSUS (PTY) LIMITED 72: VAN VUUREN, Lukas, Daniel 54: MULTICONFIGURATION DEVICE 00: -

The present invention relates to a multiconfiguration device comprised of a handle portion, elongate member extending from the handle portion and defence means arranged on the elongate member. In use, the multiconfiguration device is capable of being displaceable between a handle configuration and a seating configuration. In the handle configuration, a user can utilize the defence means, which includes a pepper spray device and a taser device arranged on the elongate body. In the seating configuration, a user can utilize the multiconfiguration device as a seat. The invention also allows for tracking of the device from a central point, sounding an alarm in the case of emergency and using the device for illuminating purposes.



- 21: 2021/03679. 22: 2021/05/28. 43: 2022/07/08 51: H01M
- 71: XEROTECH LIMITED
- 72: FLANNERY, Barry
- 33: GB 31: 1818053.9 32: 2018-11-05

54: A BATTERY PACK AND A METHOD OF MANUFACTURING A BATTERY PACK 00: -

A battery pack comprises one or more cells 30, a flexible duct 50 positioned proximally to the surface of at least one of the one or more cells 30 such that heat can be exchanged between the duct 50 and at least one of the one or more cells 30 and a potting means which at least partially surrounds at least a

part of the duct 50. A method of manufacturing a battery pack comprises providing one or more cells 30, positioning a flexible duct 50 proximally to the surface of at least one of the one or more cells 30 such that heat can be exchanged between the duct 0 and the at least one of the one or more cells 30, inserting fluid into the duct 50 and at least partially surrounding at least a part of the duct 50 with a potting means. The potting means may be expandable foam.



21: 2021/03758. 22: 2021/06/01. 43: 2022/07/08 51: F42D

71: DETNET SOUTH AFRICA (PTY) LTD 72: KRUGER, Michiel Jacobus, BIRKIN, Christopher Malcolm, MICHNA, Richard Joseph, MAURISSENS, Daniel Auguste, KOEKEMOER, Andre Louis 33: ZA 31: 2019/00558 32: 2019-01-28 54: METHOD OF VALIDATING A SHOCK TUBE EVENT

00: -

A detonator which is responsive to a shock tube event which is validated if a link is fused at a predetermined time interval after a light signal produced by the event is detected and if, at the end of a subsequent time interval, the link is still fused and the light signal is absent.



21: 2021/03759. 22: 2021/06/01. 43: 2022/07/08 51: G01R 71: G & W ELECTRIC COMPANY 72: BAUER, Alberto 33: IT 31: 102018000011146 32: 2018-12-17 33: IT 31: 202018000003942 32: 2018-12-17 **54: ELECTRICAL SENSOR ASSEMBLY** 00: -A sensor assembly includes a connecting bar

extending along a longitudinal axis and a tubular body extending along the longitudinal axis and at least partially surrounding the connecting bar such that the tubular body is radially spaced from the connecting bar. The tubular body includes a support member made of insulating material. The tubular body also includes a first section with an electric field sensor comprising a first layer of electrically conductive material on an inner surface of the support member to detect an electric field produced by the connecting bar. The first section also includes a first electric screen comprising a second layer of electrically conductive material on an outer surface of the support member to shield the electric field sensor from outside electrical interference. A second section disposed adjacent the first section includes a second electric screen. A dielectric material at least partially encloses the tubular body.



21: 2021/03762. 22: 2021/06/01. 43: 2022/06/15 51: H04N

71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.
72: WAN, SHUAI, MA, YANZHUO, HUO, JUNYAN
33: US 31: 62/790,795 32: 2019-01-10
54: METHOD FOR PICTURE DECODING,
DECODER, AND COMPUTER STORAGE MEDIUM

00: -A meth

A method for picture decoding, a decoder, and a computer storage medium are provided. The method includes the following. A bitstream corresponding to a current picture is acquired. The bitstream is parsed to obtain a flag corresponding to the current picture. A cross-decoding function is disabled when a decoding manner indicated by the flag is independent decoding of colour components, where the cross-decoding function allows decoding based on dependency between colour components.



21: 2021/03771. 22: 2021/06/01. 43: 2022/07/08 51: B02C

71: WESCONE DISTRIBUTION PTY LTD 72: BIONDILLO, Joe, SUE, Ayrton, BOLTON, Lee, BERTI, Daniel 33: AU 31: 2019902955 32: 2019-08-15

54: A CRUSHER

00: -

A gyratory crushing apparatus (10) for frangible or friable material comprises: a bowl (104) having a chamber (104m) for receiving the material and a discharge opening (104j) disposed at the base with a central axis (101b) and a gyratory axis (101a) extending at an angle to the central axis (101b); a crushing head (102) and a drive assembly (103, 106). The discharge opening 104j) defines a throat with a circumferential wall (104k) and the crushing head (102) is disposed within the discharge opening. The crushing head (102) has a crushing face (102d) in spaced relation to the circumferential wall (104k) of the throat defining a nip between the circumferential wall and the crushing face (102d). The drive assembly includes a transmission (106) and a rotatable eccentric shaft (103) for driving the crushing head (102) within the bowl (104) and about the gyratory axis (101a) in a nutating motion. The bowl (104) also comprises a feed section and a discharge section, each defined by a wall (104b, 104d) and spaced by a mid-section, wherein thickness of a wall defining the mid-section (104c) is greater than a thickness of the discharge section wall (104d)



21: 2021/03809. 22: 2021/06/03. 43: 2022/07/08 51: E03C

71: HADLOW, William Albert

72: HADLOW, William Albert

54: DRAINAGE GULLY SURROUND 00: -

There is disclosed a drainage gully surround comprising a rigid container made from sheet material having a base and sidewalls extending from the base. The base is substantially flat and has a hole therethrough sized to cooperate with the mouth of a drain. The sidewalls include at least one mounting formation by which the drainage gully surround can be secured to a wall adjacent the drainage gully.

 21: 2021/03821. 22: 2021/06/03. 43: 2022/06/13 51: G06F

71: MICROSOFT TECHNOLOGY LICENSING, LLC 72: PELTON, BLAKE D, CAULFIELD, ADRIAN MICHAEL

33: US 31: 16/247,269 32: 2019-01-14 54: LANGUAGE AND COMPILER THAT GENERATE SYNCHRONOUS DIGITAL CIRCUITS THAT MAINTAIN THREAD EXECUTION ORDER 00: -

A multi-threaded programming language and compiler generates synchronous digital circuits that maintain thread execution order by generating pipelines with code paths that have the same number of stages. The compiler balances related code paths within a pipeline by adding additional stages to a code path that has fewer stages. Programming constructs that, by design, allow thread execution to be re-ordered, may be placed in a reorder block construct that releases threads in the order they entered the programming construct. Firstin-first-out (FIFO) queues pass local variables between pipelines. Local variables are popped from FIFOs in the order they were pushed, preserving thread execution order across pipelines.



21: 2021/03822. 22: 2021/06/03. 43: 2022/06/13 51: H01L; B82Y; C23C; G06N 71: MICROSOFT TECHNOLOGY LICENSING, LLC 72: ASEEV, PAVEL, CAROFF-GAONAC'H, PHILIPPE

33: US 31: 16/252,230 32: 2019-01-18 54: FABRICATION OF A QUANTUM DEVICE 00: -

In a masking phase, a first segment of an amorphous mask is formed on an underlying layer of a substrate. The first segment comprises a first set of trenches exposing the underlying layer. In the masking phase, a second segment of the amorphous mask is formed on the underlying layer. The second segment comprises a second set of trenches exposing the underlying layer. The segments are non-overlapping. An open end of one of the first set of trenches faces an open end of one of the second set of trenches, but the ends are

separated by a portion of the amorphous mask. In a semiconductor growth phase, semiconductor material is grown, by selective area growth, in the first and second sets of trenches to form first and second sub-networks of nanowires on the underlying layer. The first and second sub-networks of nanowires are joined to form a single nanowire network.



21: 2021/03905. 22: 2021/06/07. 43: 2022/06/17 51: A61K; C12Q; G01N 71: University of Miami 72: HARE, Johua M. 33: US 31: 62/757,745 32: 2018-11-08 54: METHOD OF DETERMINING RESPONSIVENESS TO CELL THERAPY IN DILATED CARDIOMYOPATHY 00: -

The present disclosure is directed to methods for determining responsiveness to cell therapy in a subject suffering from a cardiovascular disorder (e.g., cardiomyopathy) and methods of treating subjects suffering from a cardiovascular disorder.

21: 2021/03925. 22: 2021/06/08. 43: 2022/07/25 51: C12N; C12Q

71: QINGDAO AGRICULTURAL UNIVERSITY 72: WANG, Hui, WANG, Fu, WANG, Yu, ZHU, Wenying, LI, Wenli

33: CN 31: 202011145147.1 32: 2020-10-23 54: MOLECULAR MARKER FOR IDENTIFYING FUSARIUM CROWN AND ROOT ROT OF TOMATO AND USE THEREOF 00: -

The present disclosure provides molecular markers for identifying Fusarium crown and root rot of tomato and use thereof. The molecular marker FrIDel30-1 has a nucleotide sequence shown in SEQ ID NO. 1 and is identified as a molecular marker for identifying Fusarium oxysporum f. sp. radicis-lycopersici; the molecular marker FrIDel30-2 has a nucleotide sequence shown in SEQ ID NO. 2 and is identified as a molecular marker for identifying Fusarium oxysporum f. sp. lycopersici race 3; moreover, a primer pair for detecting the molecular markers includes FrIDel30F: 5'-

GAGCGGGAGTTGAATTCTTG-3'; and FrlDel30R: 5'-AAGAGCCTGCTCCA GTTGAA-3'. The molecular markers of the present disclosure can distinguish between F. oxysporum f. sp. radicis-lycopersici strain and F. oxysporum f. sp. lycopersici race 3 strain simply, rapidly and accurately.



21: 2021/03963. 22: 2021/06/09. 43: 2022/07/08 51: B01D; B65D; D21H 71: MONDI AG 72: SCHWAIGER, Elisabeth, JÖBSTL, Franz, KAINZ, Reinhard 33: AT 31: A374/2018 32: 2018-12-14 **54: HOT-EXTRACTION PAPER** 00: -In the case of a hot-extraction paper consisting substantially of cellulose and manufacturing

substantially of cellulose and manufacturing assistants needed in cellulose production, such as pH modifiers based on acids and/or bases, the paper comprises exclusively cellulose having fibre lengths of at least 2.0 mm on length-weighted average, more particularly at least 2.5 mm on lengthweighted average, and has isotropic extension properties which are substantially equal in machine and cross directions and amount to at least 7.5%, more particularly at least 8.5%.

21: 2021/03998. 22: 2021/06/10. 43: 2022/07/08

51: B60B

71: PHILLIPS GLOBAL (PTY) LTD

72: PIENAAR, Abel, Albertus

33: ZA 31: 2018/08339 32: 2018-12-11 54: LUBRICATION OF A WHEEL SUPPORT 00: -

This invention relates to the lubrication of a wheel support 10. The wheel support 10 comprises support 10 comprises a housing 12 that includes a base portion 14 defining a cavity 16 for receiving therein at least one gear 40, and lubricant for lubricating the gear 40. Opposing first and second arm members 18.1, 18.2 extend respectively from the base portion 14. A free end of each arm member 18.1, 18.2 includes a bearing receiving formation 20.1, 20.2 for receiving therein a bearing. The wheel support 10 further comprises internal lubricant feed means 22, defined in the housing 12, and that extends internally from the base portion 14 into at least one of the arm members 18.1 or 18.2 for feeding lubricant operatively received from a lubricant supply, internally, via the base portion 14, to the bearing receiving formation 20.1 or 20.2 associated with the at least one arm member 18.1 or 18.2.



21: 2021/04000. 22: 2021/06/10. 43: 2022/07/14 51: A61K; C07D; C07F 71: BETA PHARMA, INC. 72: ZHANG, Don, PENG, Jirong, GRECO, Michael, Nicholas, COSTANZO, Michael, John, GREEN, Michael, Alan 33: US 31: 62/779,960 32: 2018-12-14 54: ORGANOPHOSPHORUS-SUBSTITUTED COMPOUNDS AS C-MET INHIBITORS AND THERAPEUTIC USES THEREOF 00: - The present disclosure provides [1,2,4]triazolo[4,3b][1,2,4]triazine, [1,2,4] triazolo[4,3-b]pyridazine, and [1,2,3]triazolo[4,5-b]pyrazine derivatives, and pharmaceutically acceptable salts, solvates or prodrugs thereof, as tyrosine kinase c-MET inhibitors, which are useful as novel anticancer and/or anti-inflammatory agents.

21: 2021/04013. 22: 2021/06/10. 43: 2022/06/20 51: A61F; G02B; G02C 71: AAREN SCIENTIFIC INC. 72: LIU, YUEAI 33: US 31: 62/783,175 32: 2018-12-20 54: QUINT-FOCAL DIFFRACTIVE INTRAOCULAR LENS

00: -A diffractive quint focal intraocular lens includes a base optic and a diffractive element. The base optic has a base curvature that corresponds to a base power. The diffractive element provides constructive interference in at least five consecutive diffractive orders to create a set of five focal points for vision from near to distance. The constructive interference provides for a near focal point at the highest diffractive order of the five consecutive diffractive orders, a distance focal point at the lowest diffractive order, and three intermediate diffractive orders between the highest and lowest diffractive orders to provide continuity of vision from near to distance with an extended intermediate, an intermediate, and an extended near focal points. The multifocal intraocular lens (i) provides a diffraction efficiency of -100%, (ii) creates almost no positive optical disturbance, (iii) may also reduce longitudinal chromatic aberration.



21: 2021/04025. 22: 2021/06/11. 43: 2022/07/14 51: C08G; C08L; C09D 71: WU, Zhenghuan

72: WU, Zhenghuan, GUO, Junxin, DU, Jin, FAN, Qixiang

54: EPOXY RESIN FLAME-RETARDED NANOCOMPOSITES AND PREPARATION METHOD THEREOF

00: -

The present disclosure provides an epoxy resin flame-retarded nanocomposite and a preparation method thereof. In the present disclosure, a microwave exfoliation method is used to exfoliate two-dimensional materials from two-dimensional nanostructures, and at the same time the twodimensional materials are organically-modified by intercalation during the process of microwave exfoliation, which can be used synergistically with the intumescent flame retardant in the inflaming retarding of epoxy resin, thus improving the flame retardancy of the epoxy resin composites; in addition, the two-dimensional nanomaterials have an advantage of super multiphase barrier property of the two-dimensional nanostructures, thereby greatly reducing the properties of heat release rate and smoke release rate of epoxy resin during combustion, which can enhance the quality and rate of esterification into carbon of the intumescent flame retardant most greatly, improve the flame retardant efficiency of the intumescent flame retardant, and improve the flame retardancy of the intumescent flame retardant prominently.

21: 2021/04026. 22: 2021/06/11. 43: 2022/07/13

- 51: G06T; H04N
- 71: Shihezi University

72: GAO, Pan, YAN, Tianying, LV, Xin, XU, Wei, LIN, Jiao

54: COTTON APHID MONITORING METHOD AND SYSTEM BASED ON SPECTRAL IMAGING AND DEEP LEARNING

00: -

The present disclosure relates to the technical field of pest condition monitoring, and discloses a cotton aphid monitoring method and system based on spectral imaging and deep learning. Hyperspectral images of cotton leaves are obtained by using a hyperspectral imaging system; with single cotton leaves as regions of interest, hyperspectral images of the single leaves are extracted, and average spectra and first-order derivative spectra are finally calculated. The spectral information and the deep learning technology are fully utilized, so as to discover importance of each band by using a visualization technology, and important bands are selected for monitoring and early warning. A threedimensional convolutional neural network is used to learn the hyperspectral images of single leaves, and hyperspectral images in the range of visible and near-infrared bands are selected, to generate a significance map by using the visualization technology. Cotton leaf damage areas stressed by cotton aphids can be found.

72: ZHANG, Guoliang, ZHOU, Changyou, SUN, Huangbin

33: CN 31: PCT/CN2019/073254 32: 2019-01-25 33: CN 31: PCT/CN2019/095227 32: 2019-07-09 54: STABLE SOLID DISPERSION OF A B-RAF KINASE DIMER INHIBITOR, METHODS OF PREPARATION, AND USES THEREFORE 00: -

Disclosed herein is a physically stable solid dispersion comprising Compound 1, i.e., the B-RAF kinase dimer inhibitor 1- ((1S, 1aS, 6bS) -5- ((7oxo-5, 6, 7, 8-tetrahydro-1, 8-naphthyridin-4-yl) oxy) -1a,6b-dihydro-1H-cyclopropa [b] benzofuran-1-yl) -3- (2, 4, 5-trifluorophenyl) urea and a specific stabilizing polymer, the method for preparing the same, and the uses of the solid dispersion. Also

^{21: 2021/04032. 22: 2021/06/11. 43: 2022/06/29} 51: A61K; C07D; A61P

^{71:} BEIGENE, LTD.

disclosed herein is the crystalline form of Compound 1.

21: 2021/04071. 22: 2021/06/14. 43: 2022/07/18

51: C21B; F27B; F27D

71: MACRAE TECHNOLOGIES, INC.

72: Allan J. MACRAE

33: US31: PCT/US2019/03875232: 2019-06-2433: US31: 16/712,91232: 2019-12-12

54: MANUFACTURING METHODS FOR LONG-TERM STABILIZATION IN OVERALL THERMAL CONDUCTION OF BLOCK COOLERS WITH CAST-IN COOLANT PIPES 00: -

Computer modelling methods and foundry methods for copper- nickel coolant pipes cast-in-copper coolers are combined. First, Computational Fluid Dynamics and/or Finite Element Analysis steps verify geometric computer aided design models and materials choices, point-by-point heat distribution, and heat flows. And second, casting steps to commit an acceptable last thickness iteration of a thermal buffer part in simulation to casting it in a foundry. In the foundry, casting conditions are empirically developed to yield all but slight, unclustered bonding imperfections at a concentric diffusion interface of the pipes and surrounding solidified casting that improve the thermal conductivity of furnace-block coolers that incorporate coolant pipes. The combined methods verify in simulation that operational thermal stresses at the pipe-casting interface stay in-bounds of material stress limits, and that the peak temperatures on the hot face will not rise above 450 deg C.

21: 2021/04135. 22: 2021/06/17. 43: 2022/07/13 51: F16H; F16N

71: Zhengzhou Research Institute of Mechanical Engineering Co., Ltd.

72: WANG, Zhengbing, LIU, Zhongming, ZHANG, Zhihong, PEI, Bang, SHI, Lubing, GUAN, He 33: CN 31: 202110353345.5 32: 2021-03-31 54: LUBRICATING DEVICE FOR BEARINGS OF GEARBOX

00: -

The present disclosure relates to the technical field of lubrication of gearbox bearings, and in particular to a lubricating device. The lubricating device comprises an oil collecting assembly and an oil slinging member. An oil guide channel is formed in the oil collecting assembly. The oil slinging member is connected to a transmission shaft of a gearbox. The oil slinging member rotates with the transmission shaft and is capable of conveying oil to the oil guide channel after being stained with the oil, and the oil is guided to bearings of the gearbox through the oil guide channel and used for lubricating the bearings. Compared with the previous carrying of oil only by means of gear rotation, the addition of the oil slinging member provides larger oil collection capacity, better oil collection capability, more abundant lubricating oil, and a better lubrication effect, and especially under low-speed conditions, greatly improves the reliability of the working lubrication of the gearbox bearings. In addition, compared with the forced feed lubrication for improving the lubrication effect, no additional lubricating oil pump is needed, the structure is simple, and the manufacturing cost is low.

21: 2021/04155. 22: 2021/06/17. 43: 2022/07/08 51: B60P

71: THE DYNAMIC ENGINEERING SOLUTION PTY LTD

72: NEWSTEAD, Michael, BROWNE, James, FIORINOTTO, Oscar

33: DE 31: 10 2018 129 146.9 32: 2018-11-20 54: LOADING ARM ARRANGEMENT FOR A SWAP BODY VEHICLE FOR LOADING TRANSPORT CONTAINERS WITH A HOOK 00: -

The invention relates to a loading arm arrangement (8) for a swap body vehicle (1) with a main arm (9), with an auxiliary arm (11) and with a gripping hook (16), wherein the loading arm arrangement (8) is designed for unloading and loading transport containers (6) with a hook (7), wherein a pivoting arm part (14) is arranged pivotably on the auxiliary arm (11) via a joint (15), wherein a gripping hook (16) is arranged pivotably on the pivoting arm part (14). The loading arm arrangement (8) is improved by the fact that, in a transport position, the pivoting arm part (14) engages in a recess (18) of the auxiliary arm (11).



21: 2021/04193. 22: 2021/06/18. 43: 2022/07/08 51: H01M 71: UNIVERSITY OF TARTU 72: KRUUSENBERG, Ivar, VOLPERTS, Aleksandrs, ZURINS, Aivars, DOBELE, Galina 33: GB 31: 1819118.9 32: 2018-11-23 54: CARBON NANOMATERIAL FOR USE AS A CATALYST

00: -

A method for producing a carbon nanomaterial for use as a catalyst, including the steps of: (a) providing a precursor which is a source of lignin, (b) heating the precursor to an activation temperature from 700°C to 800°C in the presence of an alkali solution in order to produce an activated precursor, and (c) reacting the activated precursor with a source of nitrogen atoms in order to dope the activated precursor with nitrogen atoms, wherein the precursor is heated in step (b) to the activation temperature at a rate of at least 500°C per minute.



21: 2021/04204. 22: 2021/06/18. 43: 2022/06/20 51: H04N

71: Huawei Technologies Co., Ltd.

72: FILIPPOV, Alexey Konstantinovich, RUFITSKIY, Vasily Alexeevich, CHEN, Jianle 33: US 31: 62/822,981 32: 2019-03-24

54: METHOD AND APPARATUS FOR CHROMA INTRA PREDICTION IN VIDEO CODING 00: -

Devices and methods of directional intra prediction for chroma component of a picture are provided. The method includes obtaining an initial intra prediction mode of the chroma component, and deriving a chroma intra prediction mode (intraPredModeC) from a look up table (LUT) by using the initial intra prediction mode of the chroma component. The chroma component has different subsampling ratios in horizontal and vertical directions. The method further includes performing wide-angle mapping on the chroma intra prediction mode (intraPredModeC) to obtain a modified intraPredModeC; obtaining an intraPredAngle parameter for the chroma component based on the modified intraPredModeC: and obtaining predicted samples of the chroma component based on the intraPredAngle parameter. The method provides the minimum number of entries in the LUT that is used to determine chroma intra prediction mode from the initial chroma intra prediction mode.



21: 2021/04226. 22: 2021/06/21. 43: 2022/06/06

- 51: A41D
- 71: EVANS, Craig
- 72: EVANS, Craig
- 54: A MULTIPURPOSE GARMENT

00: -

A multipurpose garment 10 includes a body portion 12 manufactured from a flexible sheet material. A securing means in the form of a button 22 and loop 24 is provided for in use removably securing the garment 10 around the waist of the user 18. Two spaced apart slits 26.1 and 26.2 are defined in the body portion 12, which slits 26.1 and 26.2 are located near the free end regions 14.1 and 14.2 of the body portion 12.



21: 2021/04232. 22: 2021/06/21. 43: 2022/06/06 51: H02S

71: INDIAN OIL CORPORATION LIMITED 72: DIKSHIT, Vibhav, MEENA, Chhavideep, TIWARI, Vinay, SRIVASTAVA, Umish, SINGH, Sudhir Kumar, SAXENA, Deepak, RAMAKUMAR, Sankara Sri Venkata

33: IN 31: 202021028525 32: 2020-07-04 54: DUAL AXIS SOLAR TRACKING SYSTEM 00: -

The present invention relates to a dual axis solar tracking system (10). The sun tracking system (10)

includes a tripod shape stand (17) with a T bar assembly (11) and a base structure (12) pivotal to the horizontal section of T-bar assembly (11). The base structure (12) has brackets on which any suitable solar collector (13) such as a photovoltaic panel, parabolic dish, Fresnel concentrator etc. can be mounted. The solar collector (13) mounted on the base structure (12) is rotated through the T-bar assembly (11) using electronically controlled DC motors (19,14) which provides freedom to track the sun in respect to the solar azimuth angle and zenith angle. DC motors (19,14) are controlled through computer written programs thus giving complete freedom to track the sun continuously or intermittently as required for different applications.



21: 2021/04261. 22: 2021/06/21. 43: 2022/06/07 51: A61K; A61P

71: UNIVERSITY OF WASHINGTON

72: HO, Rodney, J.Y., YU, Jesse, MCCONNACHIE, Lisa

33: US 31: 62/791,453 32: 2019-01-11 54: COMBINATION PHARMACEUTICAL COMPOSITIONS AND METHODS THEREOF 00: -

Described herein are combination pharmaceutical compositions including a combination of hydrophilic and hydrophobic therapeutic agents (i.e., drugs) that are assembled together with excipients under specific conditions, forming a homogeneous pharmaceutical powder with unified repetitive multidrug motif (MDM) structure. Unlike currently available drug combination powders, which are amorphous, the combination pharmaceutical compositions (e.g., combination therapeutic agent powders) of the present disclosure have long range order, in the form of repetitive multi-drug and unified motifs

21: 2021/04279. 22: 2021/06/22. 43: 2022/06/07 51: C12Q; G01N 71: STELLENBOSCH UNIVERSITY 72: WALZL, GERHARD, MUTAVHATSINDI, HYGON, CHEGOU, NOVEL NJWEIPI 33: ZA 31: 2020/04135 32: 2020-07-07 54: SALIVARY PROTEOMIC BIOMARKERS FOR TUBERCULOSIS 00: -

Provided herein are salivary proteomic biomarkers useful for detecting Tuberculosis (TB). The salivary proteomic biomarkers may be used in a method of diagnosing TB in a subject, wherein the method comprises determining the expression level and/or quantity of the biomarker in a saliva sample from the subject and comparing the expression level and/or quantity of the biomarker to a reference value and/or control sample, in order to detect TB in the subject based on the comparison. A biomarker signature comprising two or more of the biomarkers described, may be particularly useful in detecting TB according to the invention. Also provided are diagnostic kits for detecting TB using the biomarkers and/or biomarker signatures of the invention.



21: 2021/04299. 22: 2021/06/22. 43: 2022/06/07 51: G21G 71: QSA Global Inc.

72: SHILTON, Mark G., VOSE, Mark W.

33: US 31: 62/803,713 32: 2019-02-11 54: LOW DENSITY IRIDIUM AND LOW DENSITY STACKS OF IRIDIUM DISKS 00: -

The disclosure pertains to improvements in a gamma radiation source, typically containing lowdensity alloys or compounds or composites of iridium in mechanically deformable and compressible configurations, within an encapsulation, and methods of manufacture thereof.



21: 2021/04300. 22: 2021/06/22. 43: 2022/06/20 51: C03C; C09J; D04H 71: Saint-Gobain Isover 72: LEGRAND, Aurélie, OBERT, Edouard, TOULEMON, Delphine 33: FR 31: 1900256 32: 2019-01-11 54: METHOD FOR MANUFACTURING AN INSULATION PRODUCT BASED ON MINERAL WOOL 00: -

The present invention concerns a method for manufacturing an insulating product based on organic or mineral fibres, which comprises - applying an aqueous binder composition to organic or mineral fibres, preferably mineral wool fibres; - heating the fibres bonded with the aqueous binder composition so as to evaporate the volatile phase of the aqueous binder composition and to bring about the thermal curing of the non-volatile residue, or packaging the organic or mineral fibres bonded with the aqueous binder composition for the purpose of storage and/or transport, the aqueous binder composition having a pH of between 1.0 and 6.5, preferably between 1.5 and 5.0, and comprising: a) at least one carbohydrate selected from hydrogenated sugars, reducing sugars, non-reducing sugars and mixtures

thereof, (b) at least one polycarboxylic acid or an anhydride of such an acid, (c) from 1 to 35 % by weight, relative to the total weight of components (a), (b) and (c), of a water-soluble, amine-containing phenolic resin consisting essentially of phenolformaldehyde condensates and phenolformaldehyde-amine condensates.

21: 2021/04323. 22: 2021/06/23. 43: 2022/06/20 51: H04L

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: ÖSTERLING, Jacob

33: US 31: 62/773,599 32: 2018-11-30 54: METHODS FOR SEPARATING REFERENCE SYMBOLS AND USER DATA IN A LOWER LAYER SPLIT

00: -

A radio unit, RU, in a network node of a wireless communication system is operable to receive, at the radio unit and from a lower-layer split central unit, LLS-CU, a plurality of downlink signals that include reference symbols, RS, and user data downlink, UD-DL, messages to be transmitted to a user equipment, UE, over a wireless interface. The RU can accumulate received data corresponding to the plurality of downlink signals into a concentrated data format. The RU can further receive a dataassociated control information, DACI, message including a section description associated with the plurality of downlink signals. The DACI message can include an indication of how to perform the accumulating data operation.



21: 2021/04394. 22: 2021/06/25. 43: 2022/06/29 51: A24D

71: CHINA TOBACCO YUNNAN INDUSTRIAL CO., LTD

72: TANG, Jianguo, LEI, Ping, ZHENG, Xudong, HAN, Jingmei, LI, Zhiqiang, WANG, Chengya, WANG, Ru, GONG, Weimin, CHEN, Yongkuan, YANG, Wen, MAO, Deshou, WANG, Yifan, CHENG, Jinghui, SHANG, Shanzhai, WU, Jun, HONG, Liu, DOU, Yuanchun, LIU, Lingxuan, SU, Yang, MA, Xiaolong, XU, Xiaoli

33: CN 31: 201910318783.0 32: 2019-04-19 33: CN 31: 201910319688.2 32: 2019-04-19 54: PAPER-BASED GEL THREAD, PREPARATION METHOD THEREFOR AND CIGARETTE CONTAINING SAME

00: -

Disclosed is a paper-based gel thread (5), which is a twisted paper-based strip. The paper-based gel thread (5) is formed by twisting a composite paperbased strip, the composite paper-based strip comprising a gel layer (5-2) carrying a functional material and a paper-based layer (5-1). Also disclosed are a preparation method for the paperbased gel thread (5) and a cigarette containing the paper-based gel thread (5). The paper-based gel thread (5) has the advantages of carrying a large amount of functional materials and having a good

fragrance protectiveness, and meets the requirements of cigarettes for adding various flavor substances, smoking agents, etc.



21: 2021/04401. 22: 2021/06/25. 43: 2022/07/21 51: A61K; A61P 71: ESCAPE THERAPEUTICS, INC.

72: HANTASH, Basil M.

33: US 31: 62/794,582 32: 2019-01-19 54: TYROSINE INHIBITORS WITH IMMUNOSUPPRESSIVE ACTIVITY IN HUMAN NEONATAL KERATINOCYTE PROGENITORS 00: -

Embodiments relate to tyrosine inhibitors that exhibit immunosuppressive activity in human neonatal keratinocyte progenitors. Particular embodiments feature the immunosuppressive effects of a decapeptide and/or oxyresveratrol, as measured by two different methods: blockade of stimulated cell growth, and inhibition of cytotoxic killing.

21: 2021/04477. 22: 2021/06/28. 43: 2022/06/20 51: B61F

71: BAOWU GROUP MASTEEL RAIL TRANSIT MATERIALS TECHNOLOGY CO., LTD 72: LIU, Zhi, XIE, Feng, HUANG, Xiaoqing 33: CN 31: 202010975663.0 32: 2020-09-16 54: LOCOMOTIVE MONOBLOCK WHEEL AND DESIGN METHOD THEREOF 00: -

The present disclosure discloses a locomotive monoblock wheel, including a wheel hub, a plate, and a rim. The plate is of a curved structure. One end of the plate is connected to the wheel hub, and the other end of the plate is connected to the rim. A flange and a tread are formed on one end, far away from the plate, of the rim. The wheel of the present disclosure can be applied to a railway locomotive, and is applicable to tread brake or axle disc brake, and facilitates mass production. The plate includes a wheel hub-plate transition area, a plate main body, and a rim-plate transition area. The wheel hub-plate transition area is located between the wheel hub and the plate main body. The rim-plate transition area is located between the rim and the plate main body. Both the wheel hub-spoke plate transition area and the rim-spoke plate transition area are of arc structures. The direction of the arc of the wheel hubspoke plate transition area is opposite to the direction of the arc of the rim-spoke plate transition area. The spoke plate main body is of an oblique straight structure. The two ends of the spoke plate main body are respectively tangent to the wheel hub-spoke plate transition area and the rim-spoke plate transition area. The present disclosure further discloses a design method of the locomotive monoblock wheel.

21: 2021/04502. 22: 2021/06/29. 43: 2022/07/18 51: B61K; B61L

71: ASIATIC INNOVATIONS PTY LTD
72: Peter Hamilton HOGG, Glenn VIVIAN
33: AU 31: 2018904739 32: 2018-12-13
54: TRANSPORT AND RAIL INFRASTRUCTURE
MONITORING SYSTEM
00: -

A rail infrastructure monitoring system enables integrated continuous monitoring and analysis of above and below rail assets, providing passenger and freight operators an end-to-end solution. Embodiments of the system comprise monitoring, co-ordinator control and display, communications, and business integration. Modern rail and transport techniques of providing integrated logistics are supported, offering improved safety, reduced total cost of ownership and the ability to increase capacity. Also, identification of links between different sets of data in 'real time' across all monitored infrastructure is enabled. Field hardware includes three modules: control; wagon master; and sensor, the latter communicating wirelessly with a wagon master module, and each sensor module is associated with a respective wagon or portion of below rail infrastructure. Sensor data values indicate the condition of either values outside the threshold alert of a train master via wagon master units or for

below rail directly to the train master, which is then forwarded to a business component.

21: 2021/04596. 22: 2021/07/01. 43: 2022/07/14 51: A01M; B61L; F16B; H02G 71: BALMORAL ENGINEERING PTY LTD 72: DENGATE, Chris, SOLARI, Clive, MESITI, Enzo; 33: AU 31: 2019900101 32: 2019-01-14 54: APPARATUS FOR SECURING DEVICE TO TRANSMISSION LINES 00: -

The invention provides an apparatus adapted for attachment to transmission lines, the apparatus comprising a warning marker; and a warning marker application tool for applying the warning marker to transmission lines; wherein the warning marker comprises: at least one securing means adapted to engage the transmission lines; a first handle and a second handle each connected to the at least one securing means; a spring-biased clamp means adjacent the proximal end at the least one securing means; an attachment means adjacent the at least one securing means; and wherein the application tool comprises: a base means; a first protrusion and a second protrusion each protruding from a surface of the base means: a screw mechanism attached to the base means; wherein the first protrusion and the second protrusion are each adapted to releasably engage with the first handle and the second handle respectively, to position and clamp the warning marker to the transmission lines.

21: 2021/04606. 22: 2021/07/01. 43: 2022/06/23 51: A61K; C07F 71: LIPICARE LIFE SCIENCES LTD 72: EZRA, Rafael, MANOR, Yoni 33: US 31: 62/776,022 32: 2018-12-06 54: VITAMIN D MICRO-EMULSIONS AND USES THEREOF

00: -

Pharmaceutical compositions designed to deliver Vitamin D efficiently to the eyes and methods for using same are described herein. More particularly, ophthalmic pharmaceutical compositions for use in protecting eyes from the harmful effects of light exposure, in maintaining a healthy ocular state, and in treating disorders of the eye are described herein. The composition may also be used as a medical device which, once on the surface of the eye, creates a layer that filters electro-magnetic radiation in different wave lengths. The composition may also be used as a medical device which eases the symptoms and signs of eye-surface conditions.



21: 2021/04661. 22: 2021/07/05. 43: 2022/07/12
51: B65H
71: Patrice KANDIN
72: Patrice KANDIN
33: FR 31: FR1900286 32: 2019-01-11
54: DEVICE FOR WINDING A FLEXIBLE TUBE
00: The invention relates to a device for winding a flexible tube comprising two blades LAM that are coupled in rotation about a pivoting axis PIVO

coupled in rotation about a pivoting axis PIVO appearing at the left-hand end of these blades. The device is defined such that: - a blade LAM has, on its left-hand edge, a first notch En1 which is open at the top and which is formed by a first arc of a circle Ac1 whose origin is a connection point P2 located on the right-hand edge of this notch and on the longitudinal axis AXL of this device, - the blade LAM has, on its right-hand edge, a second notch En2 which is open at the top and which is formed by a second arc of a circle Ac2 whose origin is a connection point P4 located on the right-hand edge of this notch and on the longitudinal axis AXL of this device, and - a diameter of these arcs of circles Ac1, Ac2 is supported by the longitudinal axis AXL. Moreover, one of these arcs of a circle (Ac2) has an angle at the centre equal to the sum of 180 degree and an additional angle (K) greater than 0 degree.

21: 2021/04671. 22: 2021/07/05. 43: 2022/07/27 51: A24D; A24F; A61M 71: TRPESKI, Sasho 72: TRPESKI, Sasho 33: MK 31: MK/P/2018/000726 32: 2018-09-14 54: DISPOSABLE INHALATION DEVICE THAT RELEASES SMOKE WHICH IS NOT DIRECTLY INHALED 00: -

"Disposable inhalation device that releases smoke which is not directly inhaled" belongs to the category of devices that help people stop or reduce smoking
and inhalers shaped like a cigarette for medical use. The body of the device is in the form of a cylinder formed by a sheath of thin material and is composed of three components that function independently of one another: an inhalation section, organic matter combustion section and a splitting section. The splitting section separates the inhalation section and the organic matter combustion section. Through the side apertures on the body of the inhalation section, the external atmospheric air enters the inhalation section during the inhalation process, where it mixes with the inhalation substance and the person inhales. By combustion of the organic matter together with the sheath of the organic matter combustion section, smoke is not inhaled directly by the inhaler i.e. the person who is inhaling.

21: 2021/04732. 22: 2021/07/07. 43: 2022/07/12 51: B01D; C12G; C12H; G01N 71: STELLENBOSCH UNIVERSITY 72: NEL, Anton Pieter 54: WINE FILTRATION METHOD AND APPARATUS 00: -

A wine filtration method and apparatus are provided. The method may comprise providing a holding receptacle containing wine to be filtered, a receiving receptacle, and a filtration apparatus for filtration of the wine during transfer of the wine from the holding receptacle to the receiving receptacle. A flow of inert gas may be applied into the holding receptacle to push the wine under inert gas pressure from the holding receptacle through the filtration apparatus. The filtered wine may be received in the receiving receptacle for analysis.



21: 2021/04758. 22: 2021/07/07. 43: 2022/07/12 51: B65H; E21B 71: JOY GLOBAL UNDERGROUND MINING LLC 72: GEORGIOU, Michael 33: US 31: 62/794,915 32: 2019-01-21 54: CABLE FEEDER AND DRILL RIG 00: -

A cable feed tool includes a first support, a second support coupled to the first support, a first roller supported on the first support for rotation and configured to drive a cable, and a second roller supported on the second support for rotation and configured to drive the cable. The first roller is also supported for pivoting movement relative to the second support about a pivot axis. The second roller is also supported for translational movement relative to the first support.



21: 2021/04778. 22: 2021/07/08. 43: 2022/07/12 51: G02B

71: ZHEJIANG DONGTONG IOT TECHNOLOGY CO., LTD.

72: CHEN, Long, HU, Le, WAN, Wenbo, WU, Jinhua, SHEN, Cong, SUN, Wentao, SHEN, Xinhua, SHENG, Chunmin, YAN, Huiliang, MA, Jianlin, WEI, Dong, YANG, Yanjie, JIANG, Ying, WANG, Mengwei, LIANG, Chengcheng, XU, Huifang 33: CN 31: 202110512334.7 32: 2021-05-11 54: SUPER LARGE CORE FIBER OPTICAL CABLE FOR 5G

00: -

The invention relates to an ultra-large core number optical cable for 5G, including a central reinforcer, a signal transmission body, and a first sheath layer which are sequentially and concentrically sleeved along a radial direction. The signal transmission body includes an inner layer signal transmission unit and an outer layer signal transmission unit which are concentrically sleeved. The inner layer signal transmission unit and the outer layer signal transmission unit are both composed of a plurality of core wires which are circumferentially twisted around a central axis of the central reinforcer. The core wire is composed of an optical fiber bundle, a fiber paste filler and a loose tube which are concentrically sleeved. The optical fiber bundle is composed by assembling a plurality of optical fibers. In actual

molding and manufacturing of the optical cable, a total number of the optical fibers used for forming the optical fiber bundle, an outer diameter of the optical fiber, an outer diameter of the loose tube, a total number of the signal transmission unit, and an outer diameter of the first sheath layer are controlled. Thus, on the premise of ensuring a large core number data transmission capability, a crosssectional size of the molded optical cable is capable of being effectively reduced, and a self-weight per unit length is reduced.

21: 2021/04841. 22: 2021/07/12. 43: 2022/07/13 51: C10M; G10K

71: INDIAN OIL CORPORATION LIMITED 72: SETH, Sarita, KATTA, Lakshmi, JOSHI, Ratandeep, MAHAPATRA, Rajendra, HARINARAIN, Ajay Kumar, GARG, Sarita, SAXENA, Deepak, RAMAKUMAR, Sankara Sri Venkata 33: IN 31: 202021030289 32: 2020-07-16 54: LUBRICANT COMPOSITION FOR E-AXLE APPLICATIONS

00: -

The present invention relates to a novel transmission lubricant composition having unique combination of additives and base oil of suitable viscosity for significant noise suppression and durability in E-axle application.

21: 2021/04863. 22: 2021/07/12. 43: 2022/06/20 51: A61B; A61H; G01B 71: JUST A NEW HEALTH 72: HARFOUCHE, Joseph 33: BE 31: BE2019/5075 32: 2019-02-07 54: DEVICE FOR MEASURING THE CIRCUMFERENCE OF AN OBJECT, IN PARTICULAR A BODY LIMB 00: -

The present invention relates to a device for measuring the circumference of an object, in particular to a device for measuring the circumference of a body limb.



21: 2021/04911. 22: 2021/07/13. 43: 2022/07/13 51: E04H

71: WEATHERHAVEN GLOBAL RESOURCES LTD. 72: JOHNSON, Brian D., SAVENKOFF, Ryan Douglas, CHRISTENSEN, Matt, BENNETT, Jeanmarc

33: US 31: 16/287,539 32: 2019-02-27 54: RAPIDLY DEPLOYABLE MODULAR SHELTER SYSTEM

00: -

A modular tent frame system comprises a number of folding frame elements which permit the shelter to be rapidly deployed in extreme environmental conditions. Telescopically sliding legs each comprise an inner leg having a plurality of slots adapted to receive a spring-loaded latch supported on an outer leg; and the outer leg. The tent frame is characterized in that it comprises a plurality of arch brackets located around a periphery thereof for releasably receiving and securing the outer leg. The telescopically sliding legs permit the tent frame to be unfolded, and the tent fabric attached to the frame; the frame is on the ground and the tent can then be raised by sliding the outer leg elements up the inner leg elements to thereby raise the tent to the desired height, even in high winds.



21: 2021/04917. 22: 2021/07/13. 43: 2022/06/17 51: H04B

71: Deutsches Zentrum für Luft- und Raumfahrt e.V.
72: GIGGENBACH, Dirk, FUCHS, Christian
33: DE 31: 10 2018 133 548.2 32: 2018-12-21
54: GROUND STATION FOR ANALYSING AN
OPTICAL DATA COMMUNICATION BEAM
EMANATING FROM A SATELLITE
00: -

The ground station is provided with a telescope (10) having a frame (14) and an optical unit (11) mounted movably thereon, the optical unit having a front for receiving light and a rear (16) for outputting a telescope beam (18) formed from the received light. An attachment module (12) is also provided for attachment to the rear (18) of the optical unit (11) of the telescope (10), the telescope beam (18) entering the attachment module (12) and defining an optical axis (20) of the attachment module (12). The following components are disposed in the attachment module: a visual camera (26) for receiving light, particularly light from stars, for calibrating the telescope (10); an optical data receiver (42) for receiving the optical data communication beam (40); a beacon beam source (30) for emitting a beacon beam (28) to a satellite: and an acquisition and tracking camera (44) for receiving a guide beam emitted by a satellite for tracking the optical unit (11) in accordance with the

trajectory of the satellite, beam splitters (22, 36, 38) being disposed along the optical axis (20) of the attachment module (12) for coupling out the portions of the telescope beam (18) to be received by the individual components.



21: 2021/04923. 22: 2021/07/13. 43: 2022/07/13 51: C09K

71: ZYDEX INC.

72: RANKA, Mikhil, RANKA, Moulik

33: US 31: 62/787,218 32: 2018-12-31

54: SOIL STABILIZING COMPOSITIONS

Compositions are provided that include at least one water soluble non-ionic organosilane. The compositions may further include at least one ionic organosilicon compound. The compositions may be provided in a liquid form. For instance, the compositions may comprise a aqueous dispersion or aqueous solution. Also provided are compositions including soil, at least one water soluble non-ionic organosilane, and/or at least one ionic organosilicon compound. Methods of stabilizing soil are also provided that include applying at least one water soluble non-ionic organosilane alone or in combination with at least one ionic organosilicon compound.

21: 2021/04943. 22: 2021/07/14. 43: 2022/06/20 51: A61K A61P 71: DONG-A ST CO., LTD., KM TRANSDERM LTD. 72: JANG, Sun-Woo, SHIN, Chang-Yell, KIM, Hae-Sun, CHA, Kwang-Ho, KIM, Hyun-Jung, GOTO, Masaoki

33: KR 31: 10-2018-0167289 32: 2018-12-21 54: PERCUTANEOUS ABSORPTION PREPARATION COMPRISING STABILIZED DONEPEZIL 00: -

The present invention relates to a transdermal absorption preparation for treating dementia containing donepezil and, specifically, to a transdermal absorption preparation for treating dementia containing donepezil, wherein the transdermal absorption preparation containing donepezil consists of a support layer, a drugcontaining layer, and a release layer, wherein the drug-containing layer contains donepezil or a pharmaceutically acceptable salt thereof as an active ingredient, monothioglycerol, thiocyanate (suitably, potassium salt) or dimethylthiouria as a stabilizer, and an adhesive agent. The transdermal absorption preparation for treating dementia according to the present invention provides a donepezil-containing transdermal absorption preparation that can reduce the production of donepezil related substances.

21: 2021/04956. 22: 2021/07/14. 43: 2022/07/12 51: A23G; B65D 71: MRGRANITA LTD. 72: Amichai Haim YIFRACH 33: IL 31: 264930 32: 2019-02-20 54: AN APPARATUS FOR MAKING TEXTURE CONTROLLED EDIBLE ICE PRODUCTS INSTANTLY 00: -

The present invention relates to an apparatus for producing edible ice products comprising: (a) a thermally insulated food grade material chamber; (b) at least one atomizing beverage nozzle (s) inserted in said thermally insulated chamber for spraying beverage droplets into said thermally insulated chamber; (c) at least one beverage valve(s), disposed between a beverage source and said atomizing beverage nozzle (s), for controlling the beverage flow rate into said chamber; (d) at least one gas expansion nozzle (s), inserted in said thermally insulated chamber, for expanding the gas in its liquid state to its gaseous state, and for jetting gas on said beverage droplets, in said thermally

insulated chamber; (e) at least one gas flow regulator(s), disposed between a gas source and said gas nozzle (s) for regulating the gas flow rate into said gas expansion nozzle (s); (f) a controller for controlling said beverage valve (s) and said gas flow regulator (s); and (g) wherein said controller controls said beverage valve (s) and said gas flow regulator(s) for ensuring that said sprayed beverage droplets meet the jetted gas for freezing said droplets for forming a texture controlled edible ice product in said thermally insulated chamber.

21: 2021/04999. 22: 2021/07/15. 43: 2022/06/22 51: G06F

71: INTERNATIONAL BUSINESS MACHINES CORPORATION

72: GIAMEI, Bruce Conrad, KLEIN, Matthias, SLEGEL, Timothy, FARRELL, Mark, SOFIA, Anthony Thomas, WEISHAUPT, Simon, MISHRA, Ashutosh

33: US 31: 16/263,735 32: 2019-01-31 54: GENERAL-PURPOSE PROCESSOR INSTRUCTION TO PERFORM COMPRESSION/DECOMPRESSION OPERATIONS

00: -

A DEFLATE Conversion Call general-purpose processor instruction. An instruction is obtained by a general- purpose processor of the computing environment. The instruction is a single architected instruction of an instruction set architecture that complies to an industry standard for compression. The instruction is executed, and the executing includes transforming, based on a function to be performed by the instruction being a compression function or a decompression function, state of input data between an uncompressed form of the input data and a compressed form of the input data to provide a transformed state of data. The transformed state of the data is provided as output to be used in performing a task.



21: 2021/05074. 22: 2021/07/19. 43: 2022/06/22 51: C10M C10N 71: KAJO GMBH 72: BONGARDT, Frank, JOHN, Markus

33: DE 31: 10 2018 133 586.5 32: 2018-12-24 54: MINERAL-OIL-FREE LUBRICANT AND METHOD FOR PRODUCING A MINERAL-OIL-FREE LUBRICANT 00: -

The invention relates to a method for producing a lubricant, in which, first, an overbased calcium sulfonate is created or provided, this is then transformed from the vaterite to the calcite form and, finally, a calcium sulfonate grease is produced by heating the mixture. The invention further relates to a lubricant produced by this method and to a lubricant that comprises at least one ester composition, calcium carbonate and at least one overbased alkylbenzene sulfonate. According to the invention, the basicity of the mixture is limited to a TBN of at most 550 mg KOH/g during the synthesis of the overbased calcium sulfonate and to a TBN of at most 450 mg KOH/g during the transformation of the calcium sulfonate. The method according to the invention is characterized more particularly in that both the calcium sulfonate and grease containing same are produced only on an ester basis, and therefore the end product contains no mineral oil at all and is thus easily and completely biologically degradable.



21: 2021/05086. 22: 2021/07/19. 43: 2022/07/13 51: A47J

71: BLENDJET INC.

72: PAMPLIN, Ryan Michael

33: US 31: 16/237,183 32: 2018-12-31 54: A PORTABLE AND RECHARGEABLE BLENDER

00: -

A portable and rechargeable blender is disclosed. Exemplary implementations may include a base assembly, a container assembly, and control circuitry. The base assembly may include a rechargeable battery configured to power an electrical motor such that, during blending by the blender, no power is supplied to the electrical motor from an external power source.



21: 2021/05178. 22: 2021/07/22. 43: 2022/07/18 51: B65D 71: IBAU HAMBURG INGENIEURGESELLSCHAFT INDUSTRIEBAU MBH 72: Oliver HARLOFF 33: EP 31: 19155517.6 32: 2019-02-05 **54: DOME COVER** 00: -

The present invention relates to a dome cover assembly for automatically opening and closing a through-opening. The problem addressed by the present invention is that of providing a dome cover assembly, the dome cover ensuring that opening of the dome cover is prevented when there is pressure in the tank, and the dome cover assembly in particular not requiring any extension into the tank. Said problem is solved by means of a dome cover assembly, which comprises, on at least one first element from among the cover and the flange, at least one reach-around element, the at least one reach-around element of the cover and/or the at least one reach-around element of the flange being designed in each case to at least partially enclose, in the first rotational position, the other element from among the cover and the flange, on which said at least one reach-around element is not arranged, on the side facing away from the first element. The other element from among the cover and the flange has a recess toward the first element on the side facing away from the first element, the at least one

reach-around element and the recess being designed and arranged in such a way that, in the first rotational position, the reach-around element engages behind the recess in a first distanced position of the cover and the flange and in such a way that, in the first rotational position, the reacharound element does not engage behind the recess in a second closer position of the cover and the flange.

21: 2021/05188. 22: 2021/07/22. 43: 2022/06/22 51: B29C; B32B; F41H 71: Teijin Aramid B.V. 72: CALIS, Ruben, WILBERS, Dennis 33: EP(NL) 31: 19153440.3 32: 2019-01-24 54: BALLISTIC-RESISTANT ARTICLE BASED ON FILMS PROVIDED WITH MATRIX 00: -

The present invention pertains to a process for the manufacture of a ballistic resistant article comprising the steps of a) stacking a stretchable lamina of ultrahigh molecular weight polyethylene (UHMWPE) and a stretchable continuous film of a polymer as organic matrix material to form a lamina-film stack, the continuous film of a polymer as organic matrix material not being an UHMWPE film, b) elongating the lamina-film stack formed in step a) at a temperature below the melting point of the stretchable UHMWPE lamina, to an elongation ratio of at least 2, thereby providing a UHMWPE film with an organic matrix material in which the UHMWPE film is co-stretched with the film of polymer as organic matrix material, c) aligning a plurality of films provided according to step b) to form a layer of films, d) stacking at least two layers of films formed according to step c) to form a sheet, e) stacking a plurality of sheets formed according to step d) to form a stack of sheets, and consolidating the sheets prior to and/or after stacking according to step e) by applying pressure and optionally heat. The invention also pertains to a ballistic-resistant article that can be obtained by the claimed method.

21: 2021/05193. 22: 2021/07/22. 43: 2022/07/13 51: F42C; F42D 71: DETNET SOUTH AFRICA (PTY) LTD 72: KRUGER, Michiel Jacobus 33: ZA 31: 2019/00727 32: 2019-02-04 54: BOOST PUMP

00: -

A detonator installation (10) in which a detonator fire capacitor (36) which is connected in series with an inductor (18) is charged from a low voltage source (16) by repeatedly opening and closing a switch (20) thereby to cause a collapsing magnetic field in the inductor (18) which results in a charging current flow to the capacitor (36).



- 21: 2021/05219. 22: 2021/07/23. 43: 2022/06/23 51: E02D; E03F
- 71: Kgothalo Projects CC T/A Waterfix Services
- 72: NGANGA, Christopher Kimaru
- 33: ZA 31: 2020/07425 32: 2020-11-30

54: Manhole Accessory 00: -

The invention provides a manhole accessory (40) which is receivable in a manhole (18) to inhibit the entry of foreign objects larger than a predetermined size through an access hole in a pipeline (12) which opens into the manhole (18). The manhole accessory (40) includes a foraminous barrier member (42) and a support arrangement (44) configured to support the barrier member such that it extends transversely across the manhole (18). The barrier member (42) and support arrangement (44) are typically formed from a synthetic plastics material. An access hatch is provided in the barrier member (42) in order to permit authorised access to the pipeline (12).



21: 2021/05250. 22: 2021/07/26. 43: 2022/06/24 51: A61B; A61M; B09B; B65F 71: BARNARD, Adriaan Jacobus 72: BARNARD, Adriaan Jacobus 54: A BIN 00: -

This invention relates to a bin 10 for disposing of hazardous materials such as medical, sanitary and/or contaminated waste in a safe manner. The bin includes a receptacle body 12.1 defining an inner storage cavity and a removable cover 12.2 received over the body. The cover defines a mouth for receiving the hazardous waste into the inner storage cavity. The bin further includes waste processing means 13 including lamination means 14 including a pair of adhesive rolls 14.1 mounted to the body 12.1 for rotation about roll rotation axes X. The rolls define a waste reception area 14.2 for receiving the waste. The bin further includes a pair of contiguous rollers 16 which draw lengths of the opposing rolls, containing the waste, through a roller interface 16.4, laminating them together. An actuator is drivingly connected to the rollers such that upon actuation a downstream laminate containing the waste is produced.



21: 2021/05277. 22: 2021/07/26. 43: 2022/06/24 51: A61K; A61P 71: Professional Dietetics S.p.A. 72: GIORGETTI, Paolo Luca Maria 33: IT 31: 10201900002109 32: 2019-02-13 54: COMPOSITIONS COMPRESING AMINO ACIT

54: COMPOSITIONS COMPRISING AMINO ACIDS FOR USE AND TREATMENT OF CENTRAL NERVOUS SYSTEM INJURIES 00: -

Composition for use in the treatment of a central nervous system disease, the composition comprising an active agent, said active agent containing the amino acids leucine, isoleucine, valine, threonine, lysine and the carboxylic acids citric acid, succinic acid, malic acid.

21: 2021/05290. 22: 2021/07/27. 43: 2022/06/24 51: A01C; B07B

71: ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & BAST FIBER CROPS RESEARCH), HANGZHOU XIAOSHAN AGRICULTURAL (FORESTRY) TECHNOLOGY EXTENDED CENTER, ZHEJIANG FORESTRY TECHNOLOGY EXTENDED STATION, HANGZHOU XIAOSHAN AGRICULTURAL SCIENCE AND TECHNOLOGY RESEARCH INSTITUTE 72: AN, Xia, YING, Jinyao, ZHOU, Huaping, JIN,

Guanrong, LUO, Xiahong, LI, Wenlue, LIU, Tingting, CHEN, Changli, ZHU, Guanlin, HE, Zhen, WANG, Xiang, LOU, Xuping, XU, Yajun, LI, Lufeng

54: CROP SEED SCREENING DEVICE WITH DUST REMOVAL DEVICE

00: -

A crop seed screening device with a dust removal device is provided, which includes a housing. A driving mechanism is arranged in the housing. An inner wall of the housing is fixedly connected with a partition plate, a filter plate, a box body, and an air duct. An outer wall of the partition plate is rotatably connected with a third belt pulley. An outer wall of the third belt pulley is fixedly connected with a drum provided with a filter screen. The partition plate is rotatably connected with a third rotating shaft, which is fixedly connected with a first fan blade arranged in the box body and a fourth belt pulley. An inner wall of the housing is fixedly connected to a box body. An air inlet pipe and an air outlet pipe are arranged on the box body. A second motor is arranged on the housing.



21: 2021/05338. 22: 2021/07/28. 43: 2022/06/23 51: A61K; C07D; A61P 71: BEIGENE, LTD. 72: ZHANG, Guoliang, ZHOU, Changyou, MIAO, Jianzhuang, CHEN, Gang 33: CN 31: PCT/CN2019/074732 32: 2019-02-07 33: CN 31: PCT/CN2019/098757 32: 2019-07-31 33: CN 31: PCT/CN2020/073673 32: 2020-01-22 54: IMIDAZO[2,1-F][1,2,4]TRIAZIN-4-AMINE DERIVATIVES AS TLR7 AGONIST 00: -

An imidazo [2, 1-f] [1, 2, 4] triazin-4-amine derivative or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof which are used as a TLR7 agonist in the treatment of cancer are provided. Pharmaceutical compositions comprising the imidazo [2, 1-f] [1, 2, 4] triazin-4-amine derivative or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof are also provided.

21: 2021/05345. 22: 2021/07/28. 43: 2022/06/23
51: B05D; B65D; C23C; H01J; H05H
71: Innovative Systems Et Technologies (Isytech)
72: BELDI, Nasser, OGE, Fabrice, CHOLLET,
Patrick, JAOUEN, Mikaël
33: FR 31: 1900426 32: 2019-01-17
54: TREATMENT METHOD AND DEVICE FOR
DEPOSITING A BARRIER-EFFECT COATING
00: -

The invention concerns a method for treating, in an enclosure, (3) an inner surface (2) of a container (20) made from polymer material, in order to deposit a barrier-effect coating there, comprising: - inserting the container (20) into the enclosure, - introducing a so-called precursor gas into the container (20) intended, once transformed into the plasma state, to be deposited at least partially on the inner surface of the container in order to constitute the coating, the method further comprising: - transforming the precursor gas into the plasma state by a combination of excitations comprising a main excitation by means of electromagnetic waves of the microwave type, and a secondary excitation by means of an electrical discharge of alternating voltage having a frequency of between 1 kHz and 15 MHz. The invention also relates to a device for implementing the method of the invention.



21: 2021/05346. 22: 2021/07/28. 43: 2022/06/23 51: H04N

71: Huawei Technologies Co., Ltd.

72: FILIPPOV, Alexey Konstantinovich, RUFITSKIY, Vasily Alexeevich, CHEN, Jianle, MA, Xiang

33: US 31: 62/786,563 32: 2018-12-31 54: METHOD AND APPARATUS OF CROSS-COMPONENT LINEAR MODELING FOR INTRA PREDICTION

00: -

Apparatuses and methods for encoding and decoding are provided. The method for intra predicting a chroma sample of a block by applying cross-component linear model includes: obtaining reconstructed luma samples; determining maximum and minimum luma sample values based on the reconstructed luma samples; obtaining a difference of the maximum and minimum luma sample values. The method also includes: fetching a value out of a lookup table (LUT) by using a set of bits as an index, the set of bits following a position of the mostsignificant bit; obtaining linear model parameters based on the fetched value; and calculating a predicted chroma sample value by using the obtained linear model parameters. The efficiency to fetch the value out of the LUT is increased.

21: 2021/05349. 22: 2021/07/28. 43: 2022/06/24

51: A61K; A61P; C07K

71: Hangzhou DAC Biotech Co., Ltd 72: ZHAO, Robert Yongxin, YANG, Qingliang, LEI, Jun, HUANG, Yuanyuan, ZHAO, Linyao, YE, Hangbo, GAI, Shun, CAO, Mingjun, TONG, Qianqian, BAI, Lu, GUO, Zhixiang, YANG, Chengyu, ZHOU, Xiaomai, XIE, Hongsheng, XU, Yifang, GUO, Huihui, JIA, Junxiang, ZHENG, Jun, LIN, Cheng, ZHUO, Xiaotao, LI, Wenjun, DU, Yong, KONG, Xiangfei, CHEN, Binbin, YANG, Yanlei, TONG, Yanhong, CHEN, Xiaoxiao, LI, Yanhua, ZHANG, Xiuzheng, LAI, Juan

54: A CONJUGATE OF AN AMANITA TOXIN WITH BRANCHED LINKERS

00: -

Provided herein is the conjugation of an amanita toxin compound to a cell-binding molecule with branched linkers for having better targeted treatment of abnormal cells. It also relates to a branchedlinkage method of conjugation of an amanita molecule to a cell-binding ligand, as well as methods of using the conjugate in targets treatment of cancer, infection and autoimmune disease.

21: 2021/05352. 22: 2021/07/28. 43: 2022/06/24 51: A01N; A01P

71: Syngenta Crop Protection AG

72: WILLETTS , Nigel James, HALL, Gavin John, THOMSON, Niall Rae, FELLMANN, Julia, WUERFFEL, Raymond Joseph, SONAWANE, Ravindra, PHADTE, Mangala, KANDUKURI, Sandeep Reddy, ARMSTRONG, Sarah, NG, Sean, MCGRANAGHAN, Andrea, SCUTT, James Nicholas, MOORHOUSE, Sian 33: IN 31: 201911006088 32: 2019-02-15 **54: HERBICIDAL COMPOSITIONS** 00: -

The present invention relates to novel herbicidal combinations and their use in controlling plants or inhibiting plant growth. In particular, herbicidal combinations of the invention comprise at least one pyridazine derivative of Formula (I), in combination with at least one futher herbicide that is a nonselective herbicide, a herbicide that acts through the inhibition of protoporphoryinogen oxidase, or a herbicide that inhibits photosystem II in photosynthesis.

- 21: 2021/05392. 22: 2021/07/29. 43: 2022/06/24 51: C09K; E21B
- 71: Sasol Chemicals GmbH

72: ROMMERSKIRCHEN, Renke, SOTTMANN, Thomas, BILGILI, Harun, FISCHER, Julian 33: EP(DE) 31: 19158014.1 32: 2019-02-19 54: INJECTION FLUIDS COMPRISING ALKOXYLATED ALCOHOLS AND THE USE OF SUCH FLUIDS IN OIL RECOVERY PROCESSES 00: -

The present invention is concerned with an injection fluid comprising liquid or super- critical carbon dioxide (CO₂) and alkoxylates alcohols and the use of such fluids in oil recovery processes. More specifically, the invention it relates to the reduction of the miscibility pressure during CO₂ injection oil recovery processes by the use of alkox- ylated alcohols. Further, the invention relates to an oil recovery process injecting CO₂ and alkoxylated alcohols.

21: 2021/05397. 22: 2021/07/29. 43: 2022/06/23 51: B60B; B60C 71: Hutchinson Industries, Inc.

71: Hutchinson Industries, Inc.

72: RENSON, Christopher R., HARTMAN, Michael G., RESARE, Lars Johan, STUCK, Larry W., NOBLANC, Olivier, HOBE, Peter K.

33: US 31: 62/795,834 32: 2019-01-23 54: DEFLATION SAFETY SYSTEM AND SYSTEM INCLUDING SAME 00: -

A system is disclosed. The system includes an adapter member and a safety member. The adapter member includes a fill valve, an internal passageway and a boss member positioned within a multi-piece

wheel. The safety member is removably connected to the adapter member, and covers nuts which removably connect a first piece of the multi-piece wheel to a second piece of the multi-piece wheel.



21: 2021/05399. 22: 2021/07/29. 43: 2022/06/23 51: A01N

71: Syngenta Crop Protection AG

72: SENN, Robert, JOHNSON, Stephen, DANIELS, Miriam

33: EP(CH) 31: 19158282.4 32: 2019-02-20 54: USE OF SPIROPIDION

00: -

Use of an active ingredient compound of Formula (I): (I) wherein G is H or -C(O)OC.H, for controlling a pest by applying the active ingredient to the growth substrate of a crop of a useful plant. A method of controlling pests, which method comprises applying to the growth substrate of a crop of a useful plant an active ingredient compound of Formula (I): $CI = (CH_3) + (CH_3)$

(I)

21: 2021/05428. 22: 2021/07/30. 43: 2022/07/13 51: E01B; H05B 71: MATISA MATERIEL INDUSTRIEL SA 72: SAVOYAT, Marc-Antoine

33: FR 31: 1901736 32: 2019-02-21 54: MOBILE DEVICE FOR HEATING A RAIL OF A PERMANENT WAY USING INFRARED-RADIATION ELECTRIC LAMPS, AND ASSOCIATED HEATING METHOD 00: -

A mobile device for heating a rail (12) of a permanent way (2) is made up of a heating module (34) comprising at least one heating zone (28) and at least one radiating heat source (46) directed towards the heating zone (28), and of a transport vehicle (16) for transporting the heating module (34). A heating unit (36) of the heating module (34) comprises infrared-radiation electric lamps (42) able to emit radiation that is concentrated in the nearinfrared, and which are equipped with a primary reflector (48) oriented in such a way as to reflect the infrared radiation emitted by the radiation source (46) towards the heating zone (28). The heating unit (36) also comprises a secondary reflector (50) having a concave reflective surface surrounding the heating zone (28) and able to return towards the heating zone (28) rays reflected by the rail and that pass between the infrared-radiation electric lamps (42).

21: 2021/05496. 22: 2021/08/03. 43: 2022/07/13 51: A63B

71: JANSE VAN RENSBURG, Jedri, assisted by his father, JANSE VAN RENSBURG, Michris 72: JANSE VAN RENSBURG, Michris, JANSE VAN RENSBURG, Jedri

33: ZA 31: 2020/02463 32: 2020-05-06 54: SPORT PRACTICE DEVICE 00: -

The invention relates to a sport practice device more specifically a golf practice device which allows a player to practice golf in a confined space.

According to the invention, the sport practice device comprises a ball, an elongate connection member having a first end and a second end, with the first end of the elongate connection member connected to the ball. The device further comprises a shockabsorbing member having a first end and a second end, with the first end of the shock-absorbing member connected to the second end of the elongate connection member and a counter-weight connected to the second end of the shock-absorbing member.



21: 2021/05505. 22: 2021/08/03. 43: 2022/06/23 51: E04H; F16K

- 71: Fluidra Waterlinx (Pty) Ltd
- 72: BOTHA. Hermanus Johannes
- 33: ZA 31: 2020/05066 32: 2020-08-17
- 54: Multiport Valve
- 00: -

The invention provides a diffuser (44) and a multiport valve (14) incorporating the diffuser (44). The valve (14) includes a housing (16) within which is defined a chamber (28). A lower portion of the chamber is divided into sector-shaped compartments by a plurality of angularly spaced-apart partitions with a port leading from each of the compartments. The diffuser (44) includes a body (46) which defines a downwardly open recess (58) within which a seal (66) is mounted such that it protrudes beyond a lower surface of the body (46). The diffuser is displaceable relative to the housing between a rest position, towards which is resiliently biased and in which the seal element is in sealing engagement with a complementary sealing surface of the housing, and a displaced position in which the seal element is clear of the complementary sealing surface of the housing and the diffuser is angularly displaceable between the plurality of positions.



21: 2021/05507. 22: 2021/08/03. 43: 2022/06/23 51: A01D; F26B

71: ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & BAST FIBER CROPS RESEARCH), HANGZHOU XIAOSHAN AGRICULTURAL (FORESTRY) TECHNOLOGY EXTENDED CENTER

72: AN, Xia, YING, Jinyao, ZHOU, Huaping, JIN, Guanrong, LUO, Xiahong, CHEN, Changli, LI, Wenlue, LIU, Tingting, ZHU, Guanlin

54: HARVESTING, THRESHING AND IMPURITY REMOVING DEVICE FOR FIBER CROPS 00: -

The present disclosure discloses a harvesting, threshing and impurity removing device for fiber crops, including a box body. An air drying mechanism is arranged in the box body; a driving mechanism is arranged in the box body; an inner wall of the box body is fixedly connected with a first fixed plate and a second fixed plate; the first fixed

plate and the second fixed plate are both slidably connected with sliding rods; the top ends of the sliding rods are fixedly connected with screens; the sliding rods are sleeved with first reset springs; an inner wall of the box body is rotatably connected with a seventh belt wheel and an eighth belt wheel; the seventh belt wheel is fixedly connected with a first eccentric disk; and the eighth belt wheel is fixedly connected with a second eccentric disk.



21: 2021/05508. 22: 2021/08/03. 43: 2022/06/23 51: A41D: A62B 71: LATEGAN, ANDRIES WILLEM

72: LATEGAN, ANDRIES WILLEM 33: ZA 31: 2020/05201 32: 2020-08-21 54: AIRFLOW CHANNELING APPARATUS 00: -

A face mask to be worn by a person and to provide a barrier between immediate surroundings and a face of said person, the face mask comprising an air permeable barrier, intended to block flow of droplets of saliva or mucus, while still allowing air to flow to and from the nose and mouth of the wearer of the face mask; and an airflow channeling apparatus, having a body shaped to direct air flow to and from the nose along a first route different than a second route via which air flow to and from the mouth is directed. An airflow channeling apparatus and kit for forming a face mask are further disclosed.



- 21: 2021/05520, 22: 2021/08/03, 43: 2022/06/22 51: H04W
- 71: Huawei Technologies Co., Ltd.
- 72: ZARIFI, Keyvan

33: US 31: 62/788,165 32: 2019-01-04 54: SOUNDING REFERENCE SIGNAL FOR **UPLINK-BASED MULTI-CELL MEASUREMENT** 00: -

Aspects of the present application provide methods and devices in a communication network that aid in implementing sounding reference signal (SRS) measurement by multiple cells (i.e. serving cells and non-serving cells, also known as "neighbor cells") as well as NR LMUs. This enhanced SRS measurement based on multiple cell and/or NR LMU measurements may facilitate more beneficial usages such as UL-based positioning and UL-based mobility.



21: 2021/05544. 22: 2021/08/06. 43: 2022/07/13 51: E21B: E21C 71: VAN ZYL, John Dean

- 72: VAN ZYL, John Dean

54: DRILL STEEL RETRIEVAL

00: -

A method of retrieving a drill steel from a borehole in which the drill steel is locked wherein a protruding end of the drill steel is tethered to an anchor by means of a flexible cable which thereby prevents the drill steel from being removed together with rock segments produced by a blasting process.



21: 2021/05617. 22: 2021/08/10. 43: 2022/06/27 51: E21B

71: GNBM Geological Engineering Exploration Academy Co., Ltd., Beijing Building Material Geotechnical Engineering Corporation, Beijing Urban Construction Science Technology Promoting Association

72: HE, Shiming, GUO, Dangsheng, LI, Jiang, YANG, Fengchen, ZHOU, Yucheng, YU, Hekun, CHEN, Hui, HUANG, Xinfeng, LIANG, Chenghua 54: CONSTRUCTION PROCESS OF LONG AUGER DRILLING AND GROUTING PILE IN ANHYDROUS THICK SAND GRAVEL STRATUM 00: -

The present disclosure proposes an efficient and practical technique for grouting concrete into a pile by using a long auger drilling to drill and press grouting the mud and then grouting concrete into an underwater pipe or hoisting the reinforced cage into the underwater pipe and pouring the concrete into a pile after the pressure grouting. The process effectively utilizes the drilling ability of the highpower, high-torque long auger drill, and the hole formation speed is fast, which can reach 5-10 factors of the forward and reverse cycle percussion drill, and the unit cost is basically the same; it is 2 to 3 times that of the rotary drill, while the cost is only half of that of the rotary drilling, so it has obvious advantages in speed and economic benefits.



21: 2021/05619. 22: 2021/08/10. 43: 2022/06/27

51: B05B; B65D; F16K

71: ReSyCa B.V.

72: DE KRUIJF, Wilhelmus Petrus Johannes, VAN RIJN, Cornelis Johannes Maria, NIJDAM, Wietze, VAN EGMOND, Henri Joseph

33: NL 31: 2022560 32: 2019-02-12

54: ATOMIZER DEVICE

00: -

An atomizer device for atomizing a liquid under increased pressure, comprising an atomizer body 14 with one or more atomizing openings from which a mist formed from the liquid escapes during operation. The device comprises a valve device 20, 30 upstream of the atomizer body. The valve device 20, 30 comprises a valve cavity 31 with a valve body 32 and a spring chamber 21 in which spring means 22 are compressible counter to a spring tension. The valve body 24 receives the liquid in valve cavity 31 with a first operative cross-section D1, which first operative cross-section b2 of spring chamber 21 in which spring means 22 are compressible.



21: 2021/05625. 22: 2021/08/10. 43: 2022/06/23 51: E04F; F16B

71: I4F LICENSING NV

72: PERRA, Antonio Giuseppe

54: FLOOR PANEL AND FLOOR COVERING 00: -

The present invention relates to a floor panel and to a floor covering comprising a plurality of such floor panels. The present invention particularly relates to a laminated floor panel. The floor panel of the invention comprises a hook that protrudes from an upward tongue of one floor panel to engage a clearance between an upward tongue block and an upward tongue of an adjacent floor panel.



21: 2021/05627. 22: 2021/08/10. 43: 2022/06/23 51: E04F

71: I4F LICENSING NV 72: PERRA, Antonio Giuseppe

54: PANEL AND FLOOR COVERING COMPRISING THE SAME 00: -

The present invention relates to a panel and to a floor covering comprising the same. The present invention also relates to other coverings, such as a wall covering, which are constructed by using a plurality of the panels. According to the invention, the panel comprises a first and second coupling profile on opposing sides of the panel. The first coupling profile comprises an upward tongue that has a curved portion. This upward tongue is spaced apart from a first inner flank of the panel by a clearance that defines an upward groove. According to the invention, an outermost point of the curved portion is positioned further away from the first inner flank than a center point of the upward tongue.



21: 2021/05628. 22: 2021/08/10. 43: 2022/06/23
51: E04F
71: I4F LICENSING NV
72: PERRA, Antonio Giuseppe
54: A FLOORING PANEL AND A FLOOR COVERING WITH SUCH PANEL
00: The present invention is related to a panel

configured to be used for constructing a floor

covering that comprises a plurality of such panels. According to the present invention a combination of locking elements is used on the flanks of the coupling profiles on the sides of the panel that provides for replacing the well known tongue and groove coupling.



21: 2021/05629. 22: 2021/08/10. 43: 2022/06/21 51: E21B; E21C; G01D 71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY

72: MA, Dan, ZHANG, Jixiong, KONG, Saibo, FENG, Xiujuan, WANG, Jiajun, LI, Meng, ZHANG, Qiang, ZHOU, Nan, SUN, Qiang, HUANG, Yanli 33: CN 31: 202010416817.2 32: 2020-05-18 54: COAL-GEOTHERMAL ENERGY COLLABORATIVE EXPLOITATION METHOD BASED ON WATER-CONDUCTING FRACTURED ZONE OF FAULT

00: -

The present disclosure provides a coal-geothermal energy collaborative exploitation method based on a water-conducting fractured zone of a fault. A geothermal water gathering area is fully utilized for coal-geothermal energy collaborative exploitation. A heat energy exchange station is established in a roadway or a chamber formed by gob-side entry retaining after mining at a working face, geothermal wells are excavated through a drilling chamber, a geothermal water extraction pipeline is arranged in the geothermal water gathering area, a tail water reinjection pipeline is arranged in a geothermal reservoir, and tail ends of the geothermal water extraction pipeline and the tail water reinjection pipeline are separated by a certain distance. Geothermal water is extracted to the heat energy exchange station through the geothermal water extraction pipeline, and heat energy is extracted and then conveyed to the ground for utilization. After being extracted, the geothermal water is reinjected to the geothermal reservoir through the tail water reinjection pipeline so as to control the stability of a rock stratum and realize sustainable exploitation of geothermal energy. Meanwhile, coal mining can be carried out at the next working face at the same time, and cooperative exploitation of coal and geothermal energy is achieved. The exploitation method of the present disclosure has the advantages that the resource utilization rate is high, the geothermal energy exploitation utilization cost is low, and harm of the water-conducting fractured zone of the fault is turned into benefit.



21: 2021/05631. 22: 2021/08/10. 43: 2022/06/23 51: B01D; C02F 71: ECO CLARITY LTD. 72: CLEMES, Christopher Charles 33: ZA 31: 2018/04718 32: 2019-01-16 **54: FATS, OIL AND GREASE COLLECTION** 00: -A FOG (Fats, Oil and Grease) collector (100, 100') includes at least one floating member (110, 110')

includes at least one floating member (110, 110') which is configured operatively to float in an effluent containing zone. The FOG collector has at least one heating arrangement (112) configured to warm effluent (150) in the effluent containing zone, thereby liquifying, at least partially, FOG (152) in the effluent. The FOG collector has a collecting arrangement (114, 114') configured to draw in at least some of the warmed effluent including the liquified FOG out of

the effluent containing zone for further treatment, processing and/or separation.



21: 2021/05634. 22: 2021/08/10. 43: 2022/06/23

- 51: E04F
- 71: I4F LICENSING NV

72: PERRA, Antonio Giuseppe 54: PANEL AND COVERING COMPRISING THE SAME

00: -

The present invention relates to a panel and to a covering comprising a plurality of such panels. The present invention particularly relates to floor panels, and more in particular to laminated floor panels, hardwood floor panels, solid wood floor panels, or PVC based floor panels. The invention proposes a coupling of the tongues of different adjacent panels that are arranged on the short side of those panels by a tongue of a further panel that is arranged on the long side of that panel. Compared to prior art panels, an improved coupling between the short sides of adjacent panels can be achieved, reducing the likelihood that these panels become detached.



21: 2021/05653. 22: 2021/08/05. 43: 2022/06/23 51: H01M

71: Delectrik Systems Private Limited

72: MITTAL, Vishal Onkarmal, BHAT, Sunil, SINGH, Mainpal

33: IN 31: 201911000927 32: 2019-01-08 54: A FLOW BATTERY MODULE 00: -

The present disclosure provides a flow battery module for improving energy efficiency of flow battery during dynamic load conditions. The flow battery module comprises a plurality of stacks connected in any or a combination of parallel and series. One or more pumps are configured to circulate electrolyte to the stack where ion exchange between the electrolyte occurs and a current is generated. A series of switches are configured between the flow battery and an external load or source. Based on the load or charging power stacks can be electrically and fluidically isolated thereby decreasing parasitic power consumption and selfdischarge current, and as a result improving energy efficiency



21: 2021/05678, 22: 2021/08/11, 43: 2022/06/23 51: B60J; B66F; B60R 71: MANITOU ITALIA S.R.L. 72: IOTTI, MARCO 33: IT 31: 102020000021244 32: 2020-09-08 54: ROTARY TELEHANDLER WITH MULTIPLE

ASCENT AND DESCENT PATHS 00: -

A rotary telehandler comprising a carriage movable on wheels, which mounts a tower, which in turn mounts a driver's cab and an operating arm. The telehandler is equipped with the following free paths of ascent and descent. A first path, defined by a first position of the tower, wherein it has an axis parallel to that of the carriage and comprises a door of the cab, a handle on which an operator can grasp and a ladder on a side wall of the carriage. A second path, defined by an angled position of the tower, wherein it is oblique or transversal to the axis of the carriage, with a front of the cab facing towards the inside of the carriage, the second path comprising the door, a first handle mounted at a first side of the door, a treadable surface of the carriage and a further ladder in a side of the carriage. A third path, defined by a further angled position of the tower, wherein it is oblique or transversal to the axis of the carriage, with the front of the cab facing towards the outside of the carriage, the third path comprising the door, a second handle mounted at a second side of the door, a treadable surface of the carriage and a ladder on a further side of the carriage.



21: 2021/05679, 22: 2021/08/11, 43: 2022/06/23 51: A01F

71: ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN **INSTITUTE OF COTTON & BAST FIBER CROPS** RESEARCH), INSTITUTE OF SUBTROPICAL AGRICULTURE, CHINESE ACADEMY OF SCIENCES

72: AN, Xia, HUANG, Daoyou, ZHU, Qihong, JIN, Guanrong, LUO, Xiahong, CHEN, Changli, LI, Wenlue, LIU, Tingting, ZHU, Guanlin 54: FLAX THRESHER CAPABLE OF **AUTOMATICALLY DISCHARGING IMPURITIES** 00: -

Disclosed is a flax thresher capable of automatically discharging impurities. The flax thresher comprises a working body, wherein a working cavity and a power cavity are formed in the working body, a feeding port is formed in one side of the working cavity, first grinding wheels are symmetrically and rotatably connected to the side, close to the feeding port, of the working cavity, second grinding wheels are symmetrically and rotatably connected to the lower ends of the first grinding wheels, a first discharging port is formed in the end, away from the feeding port, of the working cavity, and an impurity removing component is connected between the first discharging port and the feeding port. According to the flax thresher, flax threshing is facilitated, and the threshing efficiency is greatly improved.



21: 2021/05685. 22: 2021/08/11. 43: 2022/06/23 51: C03B

71: CR PACKAGING LLC

72: KNOBEL, Simon, GONZALEZ, Alexander, HAYES, Matthew, CLARK, Jeffrey 33: US 31: 62/802,381 32: 2019-02-07 33: US 31: 62/825,976 32: 2019-03-29 33: US 31: 62/839,326 32: 2019-04-26 54: METHODS AND COMPONENTS FOR PRODUCING CHILD RESISTANT GLASS CONTAINERS

00: -

Disclosed herein are methods and components for manufacturing substantially square glass containers and components and a method for forming parisons are disclosed. A plunger is extended into a mold which presses molten glass against the walls of the mold and against the extended plunger.

Compressed air is applied through the neck of the parison to expand the parison outwardly against another mold and an end surface defined by a baffle. The neck ring provides retention features on the neck of the glass container and can include childresistance features. Each of the molds, neck ring, and plunger produce substantially square glass containers having a substantially square neck.



21: 2021/05686. 22: 2021/08/11. 43: 2022/06/23 51: B65D 71: CR PACKAGING LLC 72: KNOBEL, Simon, HAYES, Matthew, GONZALEZ, Alexander, CLARK, Jeffrey 33: US 31: 62/802,381 32: 2019-02-07 33: US 31: 62/825,976 32: 2019-03-29 33: US 31: 62/849,593 32: 2019-05-17 33: US 31: 62/896,954 32: 2019-09-06 54: CHILD RESISTANT GLASS CONTAINER 00: -

Disclosed herein are child-resistant containers. Also disclosed are methods using the modular containers and methods of storing substances in containers. The containers have a glass base and a plastic cap and provide for child-resistant containers. A user can releasably remove the cap from base with a squeeze and lift sequence on the sides of the cap. For example, the user squeezes opposite sides of the container cap, which releases a locking mechanism and allows for removal of the cap by lifting or pulling the container cap off from the container base. The containers are modular and stackable.



21: 2021/05691. 22: 2021/08/11. 43: 2022/06/23 51: C25C

71: Norsk Hydro ASA

72: DYRØY, Are, KARLSEN, Morten, MANGER, Eirik, SEGATZ, Martin, WEDERSHOVEN, Elmar 33: NO 31: 20190343 32: 2019-03-14 54: ARRANGEMENT FOR COLLECTION OF HOT GAS FROM AN ELECTROLYSIS PROCESS, AND A METHOD FOR SUCH GAS COLLECTION 00: -

A dual gas collection system for collection of hot gas from an electrolysis process producing aluminium in a cell of Hall-Héroult type comprising PTS (Pot Tending Suction) channels (20, 30) with chimneys (25, 35) having openings (25', 35') for collecting gas from the interior of a gas hooding of the cell, outside the said gas hooding. Inside the gas hooding, that can be thermally insulated, there is arranged a (DPS) Distributed Pot Suction channel (10) that runs along the extension of the hooding, where the channel (10) is provided with at least one the gas collection cap (11). The invention also relates to a method for dual collection of hot gas from an electrolysis process producing aluminium in a cell of Hall-Héroult type where the gas is collected via plural gas collecting caps (11, 12, 13, 14, 15, 16) arranged in a common DPS channel (10), wherein the channel is modified such that the suction rate is substantially equal at each cap along the channel. According to the invention one can extract a more CO_x-concentrated flue gas from a cell than is standard procedure in the aluminium industry today, by means of distributed pot suction (DPS) devices. In one embodiment the DPS cap can be integrated with a breaker bar (4) and a feeder for feeding raw material to the cell.



21: 2021/05712. 22: 2021/08/12. 43: 2022/06/27 51: B01J; C07F; C08F

71: CHINA PETROLEUM & CHEMICAL CORPORATION, BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION

72: Hongfei WU, Mingfang ZHENG, Songshuang HU, Tonglin LI, Jun LIU, Ke XU, Xiaoqing WANG, Feng PAN

33: CN 31: 201910037044.4 32: 2019-01-15 33: CN 31: 201910036068.8 32: 2019-01-15 54: HALOGEN-CONTAINING COMPOUND AND USE THEREOF AS CATALYST LIGAND IN ETHYLENE OLIGOMERIZATION 00: -

A halogen-containing compound represented by formula I and a use thereof as a ligand of an ethylene oligomerization catalyst composition, an ethylene oligomerization catalyst composition comprising the halogen-containing compound, and an ethylene oligomerization method, ethylene trimerization method and ethylene tetramerization method using the catalyst composition. Serving as the ligand of the ethylene oligomerization catalyst, the halogen-containing polymer may effectively improve the catalytic performance of a catalyst system, especially by displaying a significantly improved catalytic performance in an ethylene oligomerization reaction. The maximum catalyst activity may exceed 4×108g·mol(Cr)-1·h-1, and the total selectivity of 1-hexene and 1-octene exceeds 92 wt%. In a C6 product, the content of 1-hexene may reach about 97%, and in a C8 product, the content of 1-octene may reach more than 98%. The present catalyst composition has good industrial application prospects and economic value.



21: 2021/05715. 22: 2021/08/12. 43: 2022/07/18 51: B29B; B65G 71: EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT M.B.H.

I

72: Michael AIGNER, Christian WAGNER, Roland HUBER, Klaus FEICHTINGER 33: AT 31: A 50329/2019 32: 2019-04-11 54: ASSEMBLY FOR GRANULATING EXTRUDED MATERIAL 00: -

The invention relates to an assembly for granulating plasticised material, in particular polymer material, comprising: a housing (1) with a gas feed line (2) having a rectangular cross-section and a gas discharge line (3) opposite the gas feed line, connected to the housing (1) and having a rectangular cross-section; a granulating unit disposed at least partially in the housing (1) with a perforated plate (4) of a feed or plasticising unit (27) feeding or leading into the housing (1); and a scraper (6), which comminutes or separates the material emerging through openings (5) of the perforated plate (4). In a plane or plane of section (E-E) running parallel to the plane of the perforated plate (4) and/or the front wall (17) of the housing (1), the two side wall faces (7) of the gas discharge line (3) arranged perpendicularly to said plane or plane of section enclose an angle a2 with one another, and the two side wall faces (8) of the gas feed line (2) arranged perpendicularly to said plane or plane of section enclose an angle a1, the two angles a1 and a2 being open towards the housing (1), and the angle a1 being larger than the angle a2.



BB Blade rotation direction

21: 2021/05716. 22: 2021/08/12. 43: 2022/07/18
51: B04C; B29B; B29C
71: EREMA ENGINEERING RECYCLING
MASCHINEN UND ANLAGEN GESELLSCHAFT
M.B.H.
72: Michael AIGNER, Christian WAGNER, Roland
HUBER, Klaus FEICHTINGER
33: AT 31: A50334/2019 32: 2019-04-12

54: DEVICE FOR COOLING PARTICULATE MATERIALS 00: -

Device for cooling particulate materials, in particular granulates of polymeric materials, comprising an outer container (2) with an in particular frustoconical outer lateral face (3) and, arranged at least locally inside the outer container (2), an inner container (4) with an in particular frustoconical inner lateral face (5), wherein an interspace (6) is formed between the outer lateral face (3) and the inner lateral face (5), wherein in an inlet-side starting region (11) of the device (1) there is provided an inlet device (7) for introducing a gas stream and the particles into the

interspace (6), and wherein in an outlet-side end region (12) of the device (1), opposite the inlet device (7), there is provided an outlet opening (15) for the particles, wherein the inlet device (7) is arranged and/or designed in such a way that the gas stream and the particles can be introduced substantially tangentially into the interspace (6).



21: 2021/05729. 22: 2021/08/12. 43: 2022/06/20 51: A61K; A61P; C07D

71: Eisai R&D Management Co., Ltd. 72: OHASHI, Yoshiaki, NORIMINE, Yoshihiko, HOSHIKAWA, Tamaki, YOSHIDA, Yu, KOBAYASHI, Yoshihisa, SATO, Nobuhiro, HAGIWARA, Koji, SATO, Nobuaki, HIROTA, Shinsuke, HARADA, Takaaki, YOSHIMURA, Hikaru 33: JP 31: 2019-039351 32: 2019-03-05

54: PENTACYCLIC HETEROCYCLIC COMPOUND 00: -

This compound represented by any one of formulae (I)-(XVII) or a pharmaceutically acceptable salt thereof has a cholinergic neuronal activation effect and is applicable as a therapeutic agent for cognitive impairment.



- 21: 2021/05739. 22: 2021/08/04. 43: 2022/06/27 51: B23B; E21B 71: K2014013441 (Pty) Ltd T/A NM Properties
- 72: VAN JAARSVELD, Maarten Jacobus 33: ZA 31: 2020/06034 32: 2020-09-30

54: Drill Rig

00: -

The invention relates to a drill rig (10) which includes a base (12) and a carriage (14) on which a drill is mounted or mountable. The drill rig (10) further includes a displacement arrangement (16) for displacing the carriage (14) and a drill mounted thereon longitudinally backwards and forwards relative to the base (12). The displacement arrangement (16) includes an electric motor (76) which is drivingly connected to the carriage (14) by a screw drive arrangement (68). A drill driving arrangement (18) which includes an electric motor (64) is provided for driving a drill mounted on the carriage



21: 2021/05740. 22: 2021/08/04. 43: 2022/06/27 51: B60R

71: MAHINDRA N.A. TECH CENTER

72: BLUMENSTEIN, Damon

33: US 31: 16/245,629 32: 2019-01-11 54: ACCESSORY POWER CENTER FOR VEHICLE

00: -

An accessory power center for a vehicle includes: a first terminal configured to be connected to a first reference potential of a battery of the vehicle; a second terminal configured to be connected to a second reference potential of the battery; and a fuse holder that includes: a first end that is electrically connected to the first terminal; and a second end. A first connector is configured to connect to a second connector of an accessory, the first connector including: a first electrical conductor that is electrically connected to the second end of the fuse holder; a second electrical conductor that is electrically connected to the second terminal; a third electrical conductor that is configured to receive power when backlights of the vehicle are powered; and a fourth electrical conductor that is configured to receive power when an ignition system of the vehicle is in an accessory state.



21: 2021/05745. 22: 2021/08/04. 43: 2022/07/18 51: E04G

71: PASCHAL-WERK G. MAIER GMBH 72: Uwe HÄGERICH, Bernd KURTH 33: DE 31: 10 2019 104 315.8 32: 2019-02-20 54: FORMWORK ELEMENT AND FORMWORK CONSTRUCTION KIT 00: -

The invention relates to improvements in the field of concrete formwork construction. As an improved embodiment, a formwork element (1) is disclosed, inter alia, with a frame (3) produced from flat-rolled steel, and the bracing (4) of said formwork element (1) consisting of sectional steel.



21: 2021/05748. 22: 2021/08/04. 43: 2022/06/27 51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: LIN, Zhipeng

33: CN 31: PCT/CN2019/070625 32: 2019-01-07 54: METHOD AND APPARATUS FOR TWO-STEP RANDOM ACCESS PROCEDURE 00: -

Various embodiments of the present disclosure provide methods and apparatuses for a two-step random access procedure. A method performed by a terminal device comprises determining a preamble for a two-step random access procedure, determining a radio network temporary identity,

RNTI, for the two-step random access procedure according to RNTI information, generating a physical uplink shared channel, PUSCH, message based on the determined RNTI, and transmitting a request message comprising the preamble and the PUSCH message in the two-step random access procedure.



21: 2021/05750. 22: 2021/08/04. 43: 2022/06/27 51: G02B F41G

71: SHELTERED WINGS, INC. d/b/a VORTEX OPTICS

72: HAMILTON, David, MORELL, Rob, TOY, Seth, PARKS, Scott

33: US 31: 62/789,769 32: 2019-01-08 54: RIFLE SCOPE TURRET WITH TOOL-FREE ZEROING 00: -

A viewing optic is disclosed. In one embodiment, the viewing optic is a rifle scope having a scope body, a movable optical element defining an optical axis connected to the scope body, a turret and a zero point adjustment subassembly. The turret includes a

turret screw, a turret chassis subassembly and a turret cap. The turret screw defines a screw axis and is operably connected to the optical element for adjusting the optical axis in response to rotation of the screw. The turret cap at least partially overlaps the turret chassis subassembly. The zero point adjustment subassembly includes a zero cap connected to the turret screw and a locking mechanism. The locking mechanism releasably secures the zero cap and the turret. The zero point adjustment subassembly permits adjustment of the zero point without the use of tools.



- 21: 2021/05755. 22: 2021/08/04. 43: 2022/06/27 51: A63B
- 71: DE JONGE, Hendrik, Jan

72: DE JONGE, Hendrik, Jan, RAUTENBACH, Isaac, Louis

54: VIBRATING STATIONARY EXERCISE MACHINE

00: -

The invention provides an exercise machine (10) of the type which have pedals (38) or foot plates through which a person can, in use, transfer kinetic energy to the machine, which machine comprises a means for vibrating the pedals or foot plates during exercise. The exercise machine includes a mechanism (40) to engage or disengage the vibration.



21: 2021/05756. 22: 2021/08/04. 43: 2022/06/27 51: B02C

71: CTL ENERGY, INC.

72: TROIANO, Richard, RALEIGH, Cliff, BADAC, Jeffrey

33: US 31: 62/790,297 32: 2019-01-09 54: METHODS OF JET MILLING AND SYSTEMS 00: -

Methods of grinding materials. The methods may include introducing a material and a circulating fluid to a jet mill and recycling the circulating fluid. The material may include coal. Systems of grinding materials also are provided.



- 21: 2021/05778. 22: 2021/08/13. 43: 2022/06/20
- 51: A61M
- 71: Janssen Biotech, Inc.

72: OLSON, Lorin P., KRULEVITCH, Peter, GLENCROSS, James, WANG, Jingli, FOLEY,

Nicholas, ZHAO, Mingqi

33: US 31: 61/252,378 32: 2009-10-16

54: PALM ACTIVATED DRUG DELIVERY DEVICE 00: -

Disclosed is a device for the parenteral delivery of a medication, such as a drug. The device includes upper and lower housings in which the upper housing is configured to move relative to the lower

housing as a result of application of an external force to permit the user of the device to control the rate at which the drug is administered. provides use of the catalyst of the invention in producing carbon nanotubes.





21: 2021/05786. 22: 2021/08/13. 43: 2022/06/27 51: B01J

72: MHLANGA, Sabelo Dalton, NXUMALO, Edward Ndumiso

33: ZP 31: 2019/00253 32: 2019-01-15 54: CARBON NANOTUBES AND METHOD OF PRODUCING CARBON NANOTUBES 00: -

The invention relates to carbon nanotubes and, more particularly, the production thereof. The invention provides a method of preparing a catalyst for producing carbon nanotubes. The method includes, irradiating, with microwave radiation, a catalyst support supporting a metal compound, to form the catalyst. The invention also extends to a catalyst prepared according to a conventional method of preparing a catalyst for producing carbon nanotubes. The invention also provides a method of producing carbon nanotubes. The invention further 21: 2021/05832. 22: 2021/08/16. 43: 2022/06/24 51: A61K; A61Q 71: TOMPA MAJCEN, Dominika 72: TOMPA MAJCEN, Dominika 33: SI 31: P-201900011 32: 2019-01-14 54: FORMULATIONS CONTAINING ACTIVE OXYGEN COMPOUNDS AND DEVICES FOR APPLICATION THEREOF 00: -

The present invention relates to formulations with active oxygen compounds that include active oxygen and other active ingredients for the purposes of care for and/or maintaining and preserving a healthy condition of skin and integumentary systems on the surface of the body of the organism and in the ears, healthy condition of finger- and toenails and of oral cavity, including its mucous membranes, teeth, interdental spaces and periodontal tissues (gingiva) in the oral cavity, i.e. the target areas of the organism. The formulation for skin and integumentary systems on the surface of the body and in the ears and for the finger- and toenails is in the form of a solution, gel, emulsion, lotion, milk, spray, cream, film dressing, liposomes and/or mycelia. The formulation for the oral cavity and related systems and structures, including teeth, interdental spaces and periodontal tissues (gingiva) is in the form of a solution, mouthwash, spray, gel, paste, emulsion, film dressing, liposomes and/or mycelia. These formulations are included in the device for its application on and/or into the said area of the organism.

21: 2021/05836. 22: 2021/08/16. 43: 2022/06/24 51: A61K; A61Q 71: Givaudan SA

72: HUMEAU, Anne, REYNAUD, Romain, SCANDOLERA, Amandine

^{71:} SabiNano (Pty) Ltd.

33: GB 31: 1902796.0 32: 2019-03-01 54: COSMETIC COMPOSITION 00: -

Non-therapeutic methods of improving an individual's mood and of treating sensitive skin are provided.

21: 2021/05885. 22: 2021/08/17. 43: 2022/06/24 51: C07K

71: Mayo Foundation for Medical Education and Research

72: BARRY, Michael A.

33: US 31: 62/839,916 32: 2019-04-29

54: MULTIVALENT PD-L1 BINDING COMPOUNDS FOR TREATING CANCER 00: -

This invention provides methods and materials for treating cancer. The invention encompasses methods and materials for delivering programmed death-ligand 1 (PD-L1) binding compounds and/or compositions containing one or more monovalent or multivalent programmed death-ligand 1 (PD-L1) binding compounds which are administered to a mammal having cancer to treat the mammal. In some cases, a multivalent PD-L1 binding compound can include two or more programmed cell death protein 1 (PD-1) polypeptides (and/or fragments thereof having the ability to bind PD-L1). This invention also provides methods and materials for making multivalent PD-L1 binding compounds and methods and materials for making nucleic acid molecules that encode PD-L1 binding compounds.

21: 2021/05893. 22: 2021/08/17. 43: 2022/06/24 51: B60B; B60G

71: BPW BERGISCHE ACHSEN KG

72: Rossen ILIEV, Manfred MICHELS

33: DE 31: 10 2019 107 816.4 32: 2019-03-27 54: AXLE FIXATION FOR A VEHICLE AXLE, AND AXLE PLATE FOR SAME

00: -

The invention relates to an axle fixation for a vehicle axle, comprising an axle link, an axle body, preferably a tubular axle body, which crosses the axle link on the lower or upper face of the axle link, an axle plate (9), and tension elements for pulling the axle body and axle link away from each other with the interposition of the axle plate (9). On the side facing the axle body, the axle plate (9) has a contour (5) which is designed to correspond to the outer contour of the axle body (1) at least in some regions, said outer contour lying opposite said contour, and on the side facing the lower or upper face of the axle link, the axle plate has a contact region (10) made of surface sections which contact the lower or upper face and between which an opening (15) is located. In order to achieve a lower travel height by changing the spacing of the axle fixation parts, the width of the opening (15) is greater than or equal to the width of the lower or upper face of the axle link in the contact region (10).



21: 2021/05896. 22: 2021/08/17. 43: 2022/06/24 51: G01N

71: Blue Cube Technology (Pty) Ltd 72: DU PLESSIS, Francois Eberhardt, LE ROUX, Pieter, THERON, Pieter 33: ZA 31: 2019/00491 32: 2019-01-24 54: OBTAINING DATA FROM A MOVING PARTICULATE PRODUCT 00: -

A sensor structure (10) is used for obtaining data from a moving stream of particulate material (11), with a light source (56) providing a focussed light beam (64) to illuminate the particles (11) and a light receiver (54) receiving light reflected off the illuminated particles (11) and transmitting the light to an optical sensor. The light from the illuminated particles (11) in a small analysis zone (65) is analysed during short intervals, so that light from only one particle is analysed at a time. The light from a large number of individual particles (11) is analysed separately and an analysis result is calculated from the analysis of the light reflected from the multiple individual particles (11)



21: 2021/05898. 22: 2021/08/17. 43: 2022/06/24 51: A23L: A23P

71: SMARTBUBBLE LTD

72: GOLAN, Alon, ETZIONI, Adi, EDELHEIT, Oded 33: US 31: 62/811.690 32: 2019-02-28

54: SATIETY INDUCING FOOD PRODUCTS AND **PREPARATION THEREOF**

00: -

00: -

There is provided a satiety inducing food product including Agar and Alginate particles having a size range of about 0.5 - 30 mm, wherein the particles are configured to remain essentially intact in the stomach and in the intestine so as to occupy volume within the stomach and the intestine and thereby induce satiety.



21: 2021/05899. 22: 2021/08/17. 43: 2022/06/27 51: B01D 71: PRO-FLO AS 72: MELHUS, Trond 54: FILTRATION APPARATUS AND METHOD

A filtration apparatus (10) for filtrating particles from fluid, the filtration apparatus(10) comprising a

filtration vessel (12); -at least one filtering element (14) for removing particles from fluid passing therethrough, the at least one filtering element (14) being arranged to move along a path (20) into the filtration vessel (12), and out from the filtration vessel (12); a filtration inlet (16) arranged to convey a mixture of particles and fluid to the at least one filtering element (14) within the filtration vessel(12); and a filtration outlet (18) arranged to convey fluid, filtrated by the at least one filtering element(14), out from the filtration vessel (12); wherein the filtration apparatus (10) is configured to establish a differential pressure over the at least one filtering element (14) inside the filtration vessel (12). A method of filtrating particles from fluid is also provided.



- 21: 2021/05900. 22: 2021/08/04. 43: 2022/06/27
- 51: A41D; G01R
- 71: Neoratech
- 72: CAZOR, Thomas, ARBET-PONT, Mathias

33: FR 31: 1901198 32: 2019-02-06 54: DEVICE FOR CHECKING LACK OF VOLTAGE IN AN ELECTRIC CIRCUIT 00: -

The device for checking lack of voltage in an electric circuit comprises a pair of flexible and insulating gloves (1a, 1b), a lack of voltage checking device (2) comprising at least one display screen (3) and two contact points (4), said device being noteworthy in

that the lack of voltage checking device (2) is formed in a flexible electronic circuit comprising a flexible substrate and embedded in a first glove (1a) of the pair of flexible and insulating gloves (1a, 1b), said display screen (3) being flush on the surface of said glove (1a).



21: 2021/05956. 22: 2021/08/19. 43: 2022/07/25 51: E05F; F16F

71: STABILUS GMBH

72: REISER, Alexander, PROBST, Ulrich, BEIB, Felix

33: DE 31: 10 2020 123 636.0 32: 2020-09-10 54: GAS STRUT, METHOD FOR PRODUCING THE GAS STRUT, DRIVE FOR A FLAP WITH THE GAS STRUT

00: -

The invention relates to a gas strut (50), comprising: an outer working space (12a) arranged radially to the stroke axis (H) between the working cylinder (1) and the equalising cylinder (12), the outer working space (12a) being connected to the inner working space (1a) in a gas-conducting manner; an equalising piston (10) enclosing the working cylinder (1) radially to the stroke axis (H), the equalising piston (10) being mounted displaceably along the stroke axis (H), delimiting the outer working space (12a) on one side transversely to the stroke axis (H) and being subjected to a pressure of the working medium and a pressure of the equalising medium so as to increase the volume of the outer working space (12a); and a restoring medium arranged in a restoring space (15a) radially to the stroke axis (H) between the working cylinder (1) and the equalising cylinder (12), the equalising piston (10) being subjected to a pressure of the restoring medium so as to decrease the volume of the outer working space (12a). The invention further relates to a

method for producing the gas strut (50) and to a drive for a flap with the gas strut (50).



21: 2021/05967. 22: 2021/08/19. 43: 2022/06/23

- 51: A61M
- 71: Texas Tech University System
- 72: FUHRMAN, Bradley P.

33: US 31: 16/263,749 32: 2019-01-31

54: DEVICE AND METHOD TO COMPENSATE FOR AIR LEAK FROM AN ANESTHESIA CIRCLE CIRCUIT

00: -

The disclosure provides a way to supplement the tidal volume delivered to the patient by a leaking rebreather when the delivered volume becomes less than that set by the ventilator (in either pressureregulated or volume modes). This may be accomplished with a shunt - a gas conduit joining the

non-patient side of the re-breather to the patient side. A low-resistance, plenum or a draw-over vaporizer may also be incorporated into the gas pathway. Such a device may include a housing with a movable partition separating an actuating side from a patient side. The housing includes a ventilator orifice for pneumatic communication between a ventilator and the actuating side and a patient orifice for pneumatic communication between the patient side and a patient. A shunt defines a bypass flow path from the actuating side and to the patient side when the moveable partition is at a maximal displacement towards the patient side.



21: 2021/05995. 22: 2021/08/20. 43: 2022/06/27 51: A61B

71: Shenyang University of Technology 72: GUO, Hui, ZHANG, Yimin, SUN, Feng, LIU, Yunting, KONG, Zhenxing, JIA, Xiao, YU, Jingjing, SUN, Ping, WANG, Lei, WANG, Congtao, BO, Mingwei, LI, Zhuoran, ZHANG, Fucheng 54: TESTER FOR TESTING HUMAN DYNAMIC BALANCE AND TEST METHOD 00: -

A tester for testing human dynamic balance includes pressure sensors and a control host. The pressure sensors are in data connection with a controller in the control host, an upper plate is arranged above the control host, the pressure sensors are arranged between the upper plate and the control host, and the upper plate is in contact with the pressure sensors. There are a plurality of pressure sensors, lines of connection between the plurality of pressure sensors and a center of the control host are equal, and two adjacent lines of connection have an equal included angle. The tester for testing human dynamic balance according to the present disclosure has accuracy in measurement. Moreover, the control host, the upper plate and the pressure sensors are integrated from top to bottom to reduce a size, and the control host is supported by a steel structure, thus being firm and durable.



21: 2021/06003. 22: 2021/08/20. 43: 2022/06/07 51: A01C; B01F

71: HANGZHOU XIAOSHAN AGRICULTURAL (FORESTRY) TECHNOLOGY EXTENDED CENTER, ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & BAST FIBER CROPS RESEARCH)

72: AN, Xia, YING, Jinyao, ZHOU, Huaping, JIN, Guanrong, LUO, Xiahong, CHEN, Changli, LI, Wenlue, LIU, Tingting, ZHU, Guanlin 54: MIXING MACHINE FOR PRECISELY APPLYING MULTIPLE FERTILIZERS TO CROPS 00: -

Disclosed is a mixing machine for precisely applying multiple fertilizers to crops. The mixing machine comprises a movable vehicle body, wherein a support frame is fixedly connected to the upper end of the movable vehicle body, a storage box is fixedly connected into the support frame, a first storage cavity and a second storage cavity are arranged in the storage box, a driving motor is connected between the first storage cavity and the second

storage cavity, a rotating shaft is fixedly connected to the output end of the driving motor, a mixing box is fixedly connected to the lower end of the storage box, a mixing part is rotationally connected into the mixing box, multiple groups of supporting rods are fixedly connected to the upper end of the mixing part, and the ends, away from the mixing part, of the supporting rods are fixedly connected with the rotating shaft.



21: 2021/06004. 22: 2021/08/20. 43: 2022/07/25 51: A01B; A01C

71: ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & BAST FIBER CROPS RESEARCH), GUANGXI SUBTROPICAL CROPS RESEARCH INSTITUTE

72: AN, Xia, LUO, Xiahong, LIU, Tingting, CHEN, Tao, CHEN, Changli, ZHU, Guanlin, JIN, Guanrong, LI, Wenlue

54: AUTOMATIC CROP FURROWING AND LAND LEVELING DEVICE

00: -

Disclosed is an automatic crop furrowing and land leveling device. The automatic crop furrowing and land leveling device comprises a bottom plate, a box body and a water tank, wherein a second motor is fixedly connected to the side wall of the box body, a first rotating shaft is fixedly connected to the output end of the second motor, a roller is fixedly connected to the first rotating shaft, a second rotating shaft is rotationally connected to the side wall of the box body, a transmission mechanism is connected between the second rotating shaft and the first rotating shaft, a crankshaft is fixedly connected to the second rotating shaft, a piston is fixedly connected to the side wall of the box body, the piston is rotationally connected with the crankshaft, and a first pipeline is connected between the piston and the water tank.



- 21: 2021/06148. 22: 2021/08/25. 43: 2022/06/20 51: G09F
- 71: DENNY BROS LIMITED

72: DENNY, Graham, Dennis, DENNY, Andrew, Haig

33: GB 31: 1902514.7 32: 2019-02-25 54: A LABEL 00: -

There is provided a label (10) for attachment to an article such as a container (11). The label has a back sheet (15) and a leaflet (17) which has a front sheet (18), a first transverse edge (19) and a second transverse edge (20). The front sheet has a laminate layer (30) having an extended part (33) which extends in a lengthwise direction away from the second transverse edge (20), to a free edge (36)

and which has a transverse line of weakening (35). The line of weakening (35) is adjacent, but spaced from the second transverse edge (20) and is spaced from the free edge (36) by a lengthwise distance at least the length between the first and second transverse edges (19, 20). When attached to the container (11), the extended part (33) extends around the container periphery and overlaps and is adhered to the laminated front sheet with the free edge (36) disposed between the second transverse edge (20) and the line of weakening (35).



21: 2021/06177. 22: 2021/08/26. 43: 2022/06/24 51: G01S; G08G

71: CATERPILLAR INC.

72: PETRANY, PETER, HODEL, BENJAMIN J, PANNALA, VAMSI KRISHNA, PAYNE, NICHOLAS 33: US 31: 17/014,697 32: 2020-09-08

54: OBJECT TRACKING FOR WORK MACHINES 00: -

A system and method for monitoring objects in the vicinity of a work machine that is in motion includes obtaining, using a camera (408) associated with the work machine (400), first image data of a field-ofview of the camera (408) at a first position; identifying an object-of-interest (406) within the first image data; associating an alarm with the object-ofinterest (406), the alarm configured to indicate the presence of the object-of-interest; presenting the alarm through an output device (612); receiving an input to snooze the alarm for the object-of-interest (406); generating a mask (500) for the object-ofinterest (406) using image coordinates of the objectof-interest within the first image data; obtaining, using the camera (408), second image data of the field-of-view of the camera (408) at a second position during motion of the work machine (400); identifying an object within the second image data; and selectively aborting the alarm presentation through the output device in response to determining, using the mask (500), that the object is the object-of-interest (406).



21: 2021/06187. 22: 2021/08/26. 43: 2022/06/24 51: A01C

71: ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN **INSTITUTE OF COTTON & BAST FIBER CROPS** RESEARCH), HANGZHOU XIAOSHAN AGRICULTURAL (FORESTRY) TECHNOLOGY EXTENDED CENTER, ZHEJIANG FORESTRY TECHNOLOGY EXTENDED STATION, HANGZHOU XIAOSHAN AGRICULTURAL SCIENCE AND TECHNOLOGY RESEARCH INSTITUTE, HANGZHOU DAZHAN AGRICULTURAL DEVELOPMENT CO., LTD. 72: AN, Xia, YING, Jinyao, ZHOU, Huaping, HONG, Fuying, JIN, Guanrong, LUO, Xiahong, LI, Wenlue, LIU. Tingting, CHEN, Changli, ZHU, Guanlin, HE, Zhen, WANG, Xiang, LOU, Xuping, XU, Yajun, LI, Lufeng

54: SCREENING DEVICE FOR FIBER CROP SEEDS BEFORE SOWING 00: -

A screening device for fiber crop seeds before sowing is provided. The screening device includes a casing. The casing is provided with a feed port and provided therein with a sliding chute. A sieve plate is slidably connected in the sliding chute; a spring is connected between the sieve plate and the sliding chute. A first discharge port is provided on a first side wall of the casing, a second discharge port is provided on a second side wall of the casing. The casing is provided with a driving motor, which is connected with air blowing blades. The disclosure is not only convenient for blowing dust in seeds, but also convenient for sucking and filtering dust in the casing.



21: 2021/06192. 22: 2021/08/26. 43: 2022/06/20 51: A61K; A61P; C07D

71: AstraZeneca AB

72: KETTLE, Jason Grant, SIMPSON, Iain, PHILLIPS, Christopher, BOYD, Scott, STEWARD, Oliver Ross, BODNARCHUK, Michael Steven, CASSAR, Doyle Joseph, PIKE, Kurt Gordon 33: US 31: 62/813,885 32: 2019-03-05 54: FUSED TRICYCLIC COMPOUNDS USEFUL AS ANTICANCER AGENTS

00: -

The specification relates to compounds of Formula (A) and pharmaceutically acceptable salts thereof. The specification also relates to processes and intermediates used for their preparation, pharmaceutical compositions containing them and their use in the treatment of cell proliferative disorders.



(A)

21: 2021/06194. 22: 2021/08/26. 43: 2022/06/24 51: A01N; C07C 71: Syngenta Crop Protection AG 72: RENDINE, Stefano, BOU HAMDAN, Farhan, QUARANTA, Laura, WILLIAMS, Simon, WEISS, Matthias, HOFFMAN, Thomas James 33: GB 31: 1903942.9 32: 2019-03-22 54: FUNGICIDAL COMPOUNDS 00: -

Compounds of the formula [I] wherein the substituents are as defined in claim 1, useful as a pesticides, especially as fungicides.



- 21: 2021/06230. 22: 2021/08/27. 43: 2022/06/06
- 51: C08G C08K C09D C09J C08L E04F H01F
- 71: !OBAC LIMITED
- 72: ROOSEN, Peter Paul;

54: MAGNETIC FLOORING SYSTEM ADHESIVE COMPOSITION

00: -

A liquid adhesive coating composition that cures into a solid form, used to non- permanently adhere interior floor or wall coverings to substrate floor or wall surfaces respectively, includes a polymer incorporating iron or other

paramagnetic, superparamagnetic, ferromagnetic, or ferrimagnetic ingredients, that becomes permanently adhered to the substrate as it cures, and thereafter provides a low- tack adhesive surface that is also magnetically attractive, upon which magnetized floor or wall coverings including certain types of carpet, linoleum, vinyl, wallpaper, and other types of magnetically- backed coverings can be subsequently installed. The combined low-tack adhesive and magnetic adhesion qualities of the cured composition of the invention allow for the magnetically-backed floor or wall coverings to be

sufficiently well adhered to the surface of the cured adhesive composition to remain in place during normal usage while retaining the ability for the coverings to be subsequently removed, repositioned or replaced without damaging the respective coverings, adhesive coating composition layer, or substrate.

21: 2021/06287. 22: 2021/08/30. 43: 2022/06/06 51: B07B

71: BINDER + CO AG

72: EIXELBERGER, Rainer, TIMISCHL, Bernhard, ANIBAS, Franz, URL, Christian, DELIBASIC, Ermin 33: EP 31: 19166047.1 32: 2019-03-29 54: SCREENING DEVICE 00: -

The invention relates to a screening device having a first oscillating body (S1) comprising first cross members (2) and a second oscillating body (S2) comprising second cross members (3), wherein first cross members (2) and second cross members (3) are arranged alternately and preferably transversely to a screening surface (4) and each have clamping devices by means of which screen linings (4a) which form the screening surface (4) are each clamped or can be clamped between a first cross member (2) and a second cross member (3), and first (S1) and second (S2) oscillating bodies can be set in oscillation relative to one another in order to alternately compress and expand the screen linings (4a), wherein the first oscillating body (S1) comprises a first pair of push rods (7a, 7b) on which the first cross members (2) are arranged and the second oscillating body (S2) comprises a second pair of push rods (8a), 8b) on which the second cross members (3) are arranged and a stationary support structure (1) which accommodates the two oscillating bodies (S1, S2) is provided, wherein first and second oscillating bodies (S1, S2) can be set in oscillation relative to the stationary support structure (1).



21: 2021/06292. 22: 2021/08/30. 43: 2022/06/20 51: C10L

71: TREVIÑO QUINTANILLA, Sergio Antonio, RODARTE HERRERA, Guillermo Gerardo 72: TREVIÑO QUINTANILLA, Sergio Antonio, RODARTE HERRERA, Guillermo Gerardo 33: US 31: 62/799,910 32: 2019-02-01 54: PROCESS FOR THE PRODUCTION OF AN IMPROVED DIESEL FUEL 00: -

A method for the continued production of an improved diesel fuel, with improved ignition characteristics, more specifically with a greater electrical conductivity, higher cetane numbers and increased lubricity, and with a greater percentage of total combustion, at the same time giving rise to a lower production of particulates and a reduction in NOx in an internal combustion diesel engine, interrupting the exchange in the emission of these two pollutants from an internal combustion diesel engine.



21: 2021/06471. 22: 2021/09/03. 43: 2022/06/15 51: B01D; B65D 71: Zeitgeist Ventures Deutschland GmbH 72: SIMPSON JR., Raymond, PROFESSOR TRAUERNICHT, Gert, KRIEGLSTEIN, Tim 33: DE 31: 10 2019 102 969.4 32: 2019-02-06 54: FILTER COMPRISING COMMUNICATION MEANS 00: -

The invention relates inter alia to a device (10) for filtering air flows, comprising a filter frame (22), an exchangeable filter nonwoven (23) and a holding device (24) by means of which the filter nonwoven can be held in place on the filter frame. A special feature of the invention is inter alia that the filter nonwoven is compressed and is arranged in a transport packaging (30) particularly in a vacuumized state.



21: 2021/06511. 22: 2021/09/06. 43: 2022/06/08 51: A61K; C07D; A61P 71: HENAN MEDINNO PHARMACEUTICAL TECHNOLOGY CO., LTD. 72: LU, Liang, HUANG, Hai, ZHANG, Longzheng, ZHAO, Saisai, ZHANG, Jixuan 33: CN 31: 201910137984.0 32: 2019-02-25 33: CN 31: 201910877661.5 32: 2019-09-17 54: JAK INHIBITOR COMPOUND AND USE THEREOF

00: -

The present disclosure relates to a class of JAK inhibitor compounds and uses thereof. Specifically, the present disclosure discloses a compound represented by formula (G), isotopically labeled compound thereof, or optical isomer thereof, geometric isomer thereof, a tautomer thereof or a mixture of various isomers, or a pharmaceutically acceptable salt thereof, or a prodrug thereof, or a metabolite thereof. The present disclosure also relates to the application of the compounds in medicine.



21: 2021/06512. 22: 2021/09/06. 43: 2022/06/15 51: B02C

- 71: BELKE, Jeffrey Victor
- 72: BELKE, Jeffrey Victor
- 33: AU 31: 2019900949 32: 2019-03-21
- 33: AU 31: 2019902211 32: 2019-06-25

54: CRUSHER

00: -

There is disclosed a crusher for crushing material into finer particulates, the crusher including a housing that encloses a crushing head mounted on a shaft. The housing supports an outer crushing shell, while the crushing head supports an inner crushing shell. The two crushing shells cooperate to form a crushing gap therebetween. The crusher further includes a drive mechanism joined to the shaft for generating movement of the inner crushing shell relative to the outer crushing shell. The drive mechanism includes at least three drive units joined to the shaft and configured to impart a pulling force on the shaft. Also disclosed is a method of operating the crusher, wherein each of the drive units are selectively activated and deactivated to selectively generate orbital or gyratory movement of the crushing head relative to the outer housing.



21: 2021/06520. 22: 2021/09/06. 43: 2022/06/15 51: C22B: C25C

71: BROMINE COMPOUNDS LTD.

72: NAIM, Ronen, COSTI, Ronny, SERTCHOOK, Hanan, ELAZARI, Ran

33: US 31: 62/817,578 32: 2019-03-13 54: A PROCESS FOR RECOVERING GOLD FROM ORES

00: -

A process for recovering gold from a refractory gold ore, comprising the steps of: electrolyzing a mixture consisting of the ore particles and an aqueous bromide solution in an electrolytic cell having anode and cathode, wherein bromine is produced at the anode by oxidation of the bromide, thereby dissolving gold in the aqueous phase; separating the ore particles from the aqueous phase to obtain a leach liquor; adjusting the pH of the leach liquor to the alkaline range to produce a gold-containing precipitate; collecting the gold-containing precipitate and recycling a bromide-containing barren solution for reuse as an aqueous bromide feed solution.

21: 2021/06550. 22: 2021/09/07. 43: 2022/06/08 51: B01D

71: DONALDSON COMPANY, INC.

72: JOHNSON, Steven, A., GRAHAM, Stephan, A. 33: US 31: 62/803,097 32: 2019-02-08

54: FILTER SEAL ASSEMBLY AND SYSTEM 00: -

The technology disclosed herein relates to, in part, a filter assembly. Filter media is arranged about a central media opening, where the filter media has a first end and a second end. The central media opening extends in an axial direction from the first

end towards the second end. An endcap is coupled to the first end of the filter media. The endcap defines an opening in fluid communication with the central media opening, an inner surface abutting and surrounding the endcap opening, and a perimetric sealing surface about the endcap. A first portion of the perimetric sealing surface projects inwardly towards the endcap opening and a second portion of the perimetric sealing surface projects outwardly from the endcap opening. The first portion and the second portion are in axial alignment, and the perimetric sealing surface forms an oblong loop in a first cross-section orthogonal to the axial direction.



- 21: 2021/06553. 22: 2021/09/07. 43: 2022/07/18
- 51: A23K; A23L
- 71: Daniel SCHAAF
- 72: Daniel SCHAAF

33: DE 31: 10 2019 108 011.8 32: 2019-03-28 54: EXPANDED FOODSTUFF- OR ANIMAL FEED EXTRUDATE

00: -

The object of the invention is that of providing an expanded foodstuff- or animal feed extrudate, in which the importance of the proportion of starch and/or protein as essential structure-giving ingredients no longer applies. According to the invention, this is achieved by an expanded foodstuff- or animal feed extrudate, in which the foodstuff- or animal feed extrudate contains, as an essential structure-giving ingredient, gel-forming dietary fibre and a crystalline ingredient having a melting point of less than or equal to 150 degrees centigrade, and the remaining ingredients are contained in the form of fillers or non-expansion relevant ingredients.

21: 2021/06587. 22: 2021/09/08. 43: 2022/06/06
51: A61J B65D 71: A. RAYMOND ET CIE 72: REY, Gaëtan 33: FR 31: FR2009215 32: 2020-09-11 54: DELIVERY TRAY AND PACKAGING SYSTEM FOR MEDICAL ITEMS

00: -

The invention relates to a delivery tray (20) for medical items (50), the tray (20) being provided with a plurality of receiving spaces (21) each intended to receive a single medical item (50); the lower face of the tray (20) has a plurality of caps, the caps being arranged and sized such that when the tray (20) is stacked on a second identical tray, the caps (25) of the tray (20) are able to close the receiving spaces of the second tray. The invention also relates to a packaging system (100) comprising: a vessel (10) having an opening, a bottom (10a) and a peripheral wall (10b); a stack formed by a plurality of trays (20); a porous lid (40) that is sealed on the upper edge of the peripheral wall (10b) of the vessel (10) to close it. The invention also relates to a packaging method in particular comprising a vacuumization step.



21: 2021/06599. 22: 2021/09/08. 43: 2022/07/21 51: C07C

71: INDIAN OIL CORPORATION LIMITED 72: DOOSA, Hima Bindu, SUBRAMANI, Saravanan, THAKUR, Ram Mohan, NATH, Vineeth Venu, LOGANATHAN, Kumaresan, KANATTUKARA VIJAYAN, Bineesh, SAU, Madhusudan, KAPUR, Gurpreet Singh, RAMAKUMAR, Sankara Sri Venkata

33: IN 31: 20202104124 32: 2020-09-16 54: FLUIDIZED BED DEHYDROGENATION PROCESS FOR LIGHT OLEFIN PRODUCTION 00: -

The present invention discloses process and apparatus for the production of light olefins from their respective alkanes by catalytic dehydrogenation, where in the dehydrogenation reaction is carried out in multiple semi-continuously operated fluidized bed isothermal reactors, connected to a common regenerator and wherein the process is carried out in a sequence of steps in each cycle i.e., entry of hot regenerated catalyst, pre-treatment with reducing gas, dehydrogenation reaction, stripping, transfer of catalyst to regenerator and catalyst regeneration. Process cycle in each reactor starts at different times such that the catalyst inventory in the regenerator is invariable with time.



- 21: 2021/06611. 22: 2021/09/08. 43: 2022/06/08
- 51: A61K; A61Q
- 71: Givaudan SA

72: AURIOL, Daniel, REYNAUD , Romain,

SCANDOLERA, Amandine

33: GB 31: 1904469.2 32: 2019-03-29

54: ANTI-AGING COSMETIC COMPOSITION 00: -

A cosmetic active agent comprising a mixture of mannose-6-phosphate and mannose is disclosed.

Mitochondrial mass after 48h treatment



21: 2021/06612. 22: 2021/09/08. 43: 2022/06/08

51: A61K; A61P; C07D; C07K

71: MedImmune Limited

72: HOWARD, Philip Wilson, DICKINSON, Niall, CAILLEAU, Thais, MASTERSON, Luke, GOUNDRY, William

33: US 31: 62/826,393 32: 2019-03-29

54: COMPOUNDS AND CONJUGATES THEREOF 00: -

A conjugate comprising the following topoisomerase inhibitor derivative (A*): with a linker for connecting to a Ligand Unit, wherein the linker is attached in a cleavable manner to the amino residue. The Ligand Unit is preferably an antibody. Also provided is A* with the linking unit attached, and intermediates for their synthesis, as well as the released warhead.



21: 2021/06708. 22: 2021/09/10. 43: 2022/06/08 51: F23D

71: MITSUBISHI POWER EUROPE GMBH 72: HOFFMEISTER, Falk, HENDRICKS, Reiner, GERNAND, Stefan, MERTIN, Sven 33: DE 31: 10 2019 103 640.2 32: 2019-02-13 54: FUEL NOZZLE HAVING EXPANSION SLITS FOR A PULVERIZED-COAL BURNER 00: -

The invention relates to a fuel nozzle (100) for a burner for burning particulate fuel, in particular powdered, carbon-containing fuel such as coal or biomass, the fuel nozzle comprising a fuel pipe portion (110), which is to be associated with a fuel pipe or primary-air pipe (200) of the burner, and comprising an opening portion (120), which is integrally connected to the fuel pipe portion (110) and is provided for forming an opening region (210) of the fuel pipe or primary-air pipe (200), the fuel pipe portion (110) having a fuel-pipe-side end (111) for connecting to the fuel pipe or primary-air pipe (200) and the opening portion (120) having an opening-side end (121). The aim of the invention is to provide a solution which allows the service life of burners for burning particulate fuel to be optimized by reducing thermal stresses in the material, in particular in the opening region of the fuel pipe or

primary-air pipe (200) or in the fuel nozzle (100). This is achieved because the fuel nozzle (100) has expansion slits (160) for compensating a thermal alternating load on the fuel nozzle (100), which expansion slits are arranged along the circumference of the fuel nozzle, extend axially along the longitudinal extent of the fuel nozzle toward the opening-side end (121), end in an opening-side end face (122) of the fuel nozzle (100) and are in the form of notches that extend through and sever the material wall of the fuel nozzle (100) in the radial direction.



21: 2021/06710. 22: 2021/09/10. 43: 2022/06/08 51: H04W H04L

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: SACHS, Joachim, LARMO, Anna, PATEL, Dhruvin, ROELAND, Dinand, WANG, Yi-Pin Eric, CHERNOGOROV, Fedor, NEMETH, Gabor, SZABO , Geza, ENBUSKE, Henrik, FARKAS, Janos, PERSSON, Joakim, LUNDSJÖ, Johan, NYGREN, Johannes, DIACHINA, John Walter, FRÖBERG OLSSON, Jonas, PRADAS, Jose Luis, ALABBASI, Abdulrahman, SHAPIN, Alexey, HÖGLUND, Anders, KERN, Andras, VARGA, Balazs, SINGH, Bikramjit, KITTICHOKECHAI, Kittipong, BALACHANDRAN, Kumar, WANG, Kun, SANDGREN, Magnus, GERAMI, Majid, ANDERSSON, Mattias, WAHLSTRÖM, Mårten, SHI, Nianshan, ANDGART, Niklas, REIDER, Norbert, YILMAZ, Osman Nuri Can, SALMELA, Patrik, SCHLIWA-BERTLING, Paul, RAMACHANDRA, Pradeepa, BALDEMAIR, Robert, RACZ, Sandor, SANDBERG, Sara, FALAHATI, Sorour, RUFFINI, Stefano, DUDDA, Torsten, TONUTTI, Wolfgang, SUN, Ying, BLANKENSHIP, Yufei, ZOU, Zhenhua, KENESI, Zsolt, SVENSSON, Fredrik, PERSSON, Per, LOPEZ, Miguel, BERG, Rodrigo, SMEETS, Bernard, ARAÚJO, José, OLSSON, Johan, SKARIN, Per, GUSTAFSSON, Harald, ANGELSMARK, Ola, HOLMBERG, Torgny, MIKLÓS, György, MUNZ, Hubertus Andreas, ASHRAF, Muhammad, Ikram, HILTUNEN, Kimmo, PALAIOS, Alexandros, SUNDMAN, Dennis, SVENSSON, Malgorzata 33: US 31: 16/274,800 32: 2019-02-13

54: WIRELESS TIME-SENSITIVE NETWORKING 00: -

Techniques for enhancing performance in Industrial Internet-of-Things (IIoT) scenarios, including techniques for time-sensitive networking (TSN) and 5G wireless network integration. An example method performed by a wireless device associated with a wireless communications network comprises receiving a first timing signal from the wireless communications network and receiving a second timing signal from an external Time-Sensitive Networking, TSN, data network to which the wireless device is connected. The method further comprises establishing at least one TSN stream with the external TSN data network, through a radio base station, RBS, in the wireless communications network.



21: 2021/06711. 22: 2021/09/10. 43: 2022/06/06 51: A61K; C07D; A61P 71: JIANGSU HENGRUI MEDICINE CO., LTD., SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD.

72: YANG, Fanglong, YU, Nan, CHI, Jiangtao, LIU, Zhiwei, HE, Feng, TAO, Weikang

33: CN 31: 201910125750.4 32: 2019-02-20

33: CN 31: 201910384992.5 32: 2019-05-09

33: CN 31: 201910567035.6 32: 2019-06-27 33: CN 31: 202010020863.0 32: 2020-01-09 54: 6-OXO-1,6-DIHYDROPYRIDAZINE PRODRUG DERIVATIVE, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF IN MEDICINE

00: -

Specifically, the present invention relates to the 6oxo-1,6-dihydropyridazine prodrug derivative shown in general formula (I), a preparation method therefor, a pharmaceutical composition containing the derivative, a use thereof as a NaV inhibitor, and a use thereof in the preparation of a drug for the treatment and/or prevention of pain and pain-related diseases.



21: 2021/06716. 22: 2021/09/10. 43: 2022/07/18 51: A23L; C12H

71: STONE TREE INTERNATIONAL LIMITED 72: Paul Bertus HAYES, Timothy John BOND 33: ZA 31: 2019/01552 32: 2019-03-13 54: METHOD AND MEANS FOR PROCESSING BEVERAGES

00: -

The invention discloses a method for the manufacture of a naturally preserved beverage that is substantially free from -, or substantially reduced in supplementary (added) sulphur compounds -, or containing combined levels of supplementary sulphur- and/or other preservation compounds, which includes the steps of providing a suitable beverage substrate to suitable processing vessel; of undertaking suitable treatment of the substrate within the processing vessel; of adding suitable plant material to the substrate prior to- and/or during and/or post suitable treatment to render a naturally preserved beverage that is substantially free from -, or substantially reduced in supplementary (added) sulphur compounds -, or containing combined levels of supplementary sulphur- and/or other preservation

compounds. The beverage substrate is of fruit and/or vegetable and/or grain origin.

21: 2021/06755. 22: 2021/09/13. 43: 2022/06/08 51: B03D; C22B

71: BETACHEM (PROPRIETARY) LIMITED 72: Grobler, Willem Adriaan, Mokadze, Abel Monele 33: ZA 31: 2020/06196 32: 2020-10-07 54: BENEFICIATION OF Cr-BEARING ORE

00: -A process for beneficiating Cr-bearing ore includes conditioning an aqueous slurry of particulate Crbearing ore to provide a conditioned slurry or pulp, the conditioning of the aqueous slurry including admixing into the aqueous slurry or pulp an organic, water-insoluble collector and an alkyl ether carboxylic acid dispersant for the collector. The conditioned slurry or pulp is subjected to froth flotation by aerating the conditioned slurry or pulp to produce a Cr-rich froth concentrate, and the Cr-rich froth concentrate is removed from the aerated slurry or pulp. Also provided is a chromite froth flotation collector composition comprising an organic, waterinsoluble collector and an alkyl ether carboxylic acid dispersant.

71: INDIAN OIL CORPORATION LIMITED 72: NATH, Vineeth Venu, DOOSA, Hima Bindu, THAKUR, Ram Mohan, SUBRAMANI, Saravanan, RAVULURI, Sahithi, SAU, Madhusudan, KAPUR, Gurpreet Singh, RAMAKUMAR, Sankara Sri Venkata

33: IN 31: 202021040369 32: 2020-09-17 54: AN INTEGRATED OXIDATIVE ALKANE DEHYDROGENATION AND HYDROGEN GENERATION PROCESS 00: -

The present invention relates to an integrated oxidative alkane dehydrogenation and hydrogen generation process, wherein carbon dioxide from Pressure Swing Adsorption (PSA) off gas stream of Hydrogen Generation Unit (HGU), and alkane from any known source are sent to oxidative dehydrogenation (ODH) unit for producing high value olefins, such as ethylene, propylene and butenes. Products formed from ODH reactor are separated and the stream comprising of hydrogen, carbon monoxide and methane are recycled to Shift

^{21: 2021/06756. 22: 2021/09/13. 43: 2022/06/08} 51: C07C

reactor of HGU unit for enhanced production of hydrogen at PSA.



21: 2021/06761. 22: 2021/09/13. 43: 2022/06/20 51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: XU, Wenliang, XIE, Jinyang

33: CN 31: PCT/CN2019/075212 32: 2019-02-15 54: METHOD AND APPARATUS FOR GROUP CONTENT DELIVERY

00: -

Embodiments of the present disclosure provide methods and apparatus for group content delivery. A method in a communication network which comprises the content provider node and a broadcast-multicast service node, wherein the content provider node needs to deliver a message to a group of user equipments via the broadcast multicast service node. The method comprises obtaining one or more group identifiers. The method further comprises sending the one or more group identifiers to the broadcast-multicast service node.



21: 2021/06762. 22: 2021/09/13. 43: 2022/06/20 51: H04B

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: BERGQVIST, Jens, DA SILVA, Icaro L. J. 33: US 31: 62/805,602 32: 2019-02-14

54: BEAM INFORMATION IN EARLY MEASUREMENTS

00: -

A method for measurement reporting performed by a wireless device includes obtaining a beam measurement configuration from a network. Based on the beam measurement configuration, the wireless device performs at least one beam measurement while operating in a dormant state. The wireless device reports a result of the at least one beam measurement to the network. The reporting is done after a transition from the dormant state to a connected state.



21: 2021/06764. 22: 2021/09/13. 43: 2022/06/20 51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: HEDMAN, Peter, SEDLACEK, Ivo, GAN, Juying, FOTI, George

33: CN 31: PCT/CN2019/075020 32: 2019-02-14 54: CONGESTION CONTROL IN AMF AND SMF 00: -

A method implemented in an access and mobility management function, AMF, node that implements at least one congestion control process is provided. A message including a first indication that the message is exempt from the at least one congestion control process is received by a UE. The message is forwarded to the SMF either with the exempt indication or, if this is missing, an indication that the AMF applies a congestion control. The SMF, only when receiving the forwarded message with the additional information inserted by the AMF, carries out a validation of the message of the UE, thus preventing that a UE tags a message to be

exempted from congestion control, when it should be not be exempt.



21: 2021/06801. 22: 2021/09/14. 43: 2022/06/24 51: G05F; H02J; G06Q 71: UNIVERSITY OF CAPE TOWN 72: GAUNT, Charles Trevor, MALENGRET, Michel 33: GB 31: 1904736.4 32: 2019-04-04 54: FREQUENCY DOMAIN-BASED DETERMINATION OF CURRENTS FOR INJECTION INTO A POWER NETWORK 00: -

A system and method for determining currents for injection into or extraction from a power network are provided. In a method conducted at a point of common coupling to the network, Thévenin parameter data structures for each of a Thévenin voltage, resistance and inductance, are compiled. An offset data structure including offset values is compiled for application to corresponding values of the Thévenin voltage data structure to output an offset Thévenin voltage data structure. Offset values are calculated to satisfy physical constraints associated with the network. An optimal point of common coupling power data structure and the offset Thévenin voltage data structure are used to calculate current components for determining current for injection into or extraction from corresponding lines at the point of common coupling to reduce total electrical transmission losses of the network. The method may use the frequency domain and may include using frequency-dependent Thévenin parameters.



21: 2021/06854. 22: 2021/09/17. 43: 2022/06/07 51: G01W; G06N

71: International Business Machines Corporation 72: VOS, Etienne Eben, WATSON, Campbell D., JUNIOR, Alberto Costa Nogueira, ZADROZNY, Bianca, WELDEMARIAM, Komminist 33: US 31: 17/302,077 32: 2021-04-23 54: REGIONALIZED CLIMATE MODELS USING PHYSICS-INFORMED NEURAL NETWORKS 00: -

A method, a computer system, and a computer program product for regionalized climate models is provided. Embodiments of the present invention may include selecting a class of a reduced order model. Embodiments of the present invention may include building a neural network in a reduced order space. Embodiments of the present invention may include recovering full state dynamics. Embodiments of the present invention may include training a model. Embodiments of the present invention may include providing an output.





21: 2021/06874. 22: 2021/09/17. 43: 2022/07/07 51: A61K; C07C; A61P 71: THE REGENTS OF THE UNIVERSITY OF

CALIFORNIA

72: LISHKO, Polina V., SKINNER, William, KHASIN, Liliya Gabelev, TABARSI, Emiliano, BERTHOLET, Ambre M., KIRICHOK, Yuriy

33: US 31: 62/808,861 32: 2019-02-22

54: NONHORMONAL UNISEX CONTRACEPTIVES 00: -

Nonhormonal unisex contraceptive products, compositions, formulations and methods of use comprise an effective amount of a targeted mild mitochondria uncoupler.



21: 2021/06892, 22: 2021/09/17, 43: 2022/06/07 51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: GAN, Juying

33: CN 31: PCT/CN2019/075412 32: 2019-02-18 54: METHODS AND APPARATUSES FOR **CONNECTION ESTABLISHMENT**

00: -Methods and apparatuses for connection establishment are disclosed. According to an embodiment, a first network node receives, from a terminal device, a first request for establishment of a first connection that is a connection of a first type according to a first technology. The first request comprises a first indication about whether the terminal device supports a second connection that is a connection of the first type according to a second technology. The first network node sends, to a second network node, a second request for establishment of the first connection. The second request comprises the first indication. The first network node receives, from the second network

node, a second indication about whether the second connection is supported by the second network node. The first network node sends the second indication to the terminal device.



21: 2021/06921. 22: 2021/09/17. 43: 2022/06/07 51: B61B; E01B

71: Nevomo Poland Spolka Z Ograniczona Odpowiedzialnoscia

72: RADZISZEWSKI, Pawel, MIELCZAREK, Lukasz, SWIATEK, Grzegorz, PACZEK, Przemyslaw 33: PL 31: P.429274 32: 2019-03-14 54: VACUUM TUBE RAILWAY SYSTEM

00: -

Vacuum tube railway system comprising a vacuum tube (18) mounted on a ground support (4), a magnetic levitation railway track (10) mounted inside a wall (20) forming the vacuum tube (18) for guiding a magnetic levitation railway vehicle (8), the vacuum tube (18) assembled in sections along the ground support, at least some of a plurality of sections of vacuum tube being coupled together by a dilatation joint (22) configured for hermetically sealing a dilatation gap between said sections of tube. The dilatation joint (22) comprises at least first and second support plates (26a, 26b) mounted on an outer surface of the tube wall (20), a first support plate fixed to a first section (18a) of vacuum tube and a second support plate (26b) being fixed to a second section (18b) of vacuum tube, the support plates extending longitudinally over the dilatation gap over a length (L1) greater than a maximum dilatation gap (G), the first and second support plates being slidably mounted with respect to the

other, the dilatation joint further comprising an elastic sealing layer (30) extending over an outer side of the support plates. The sealing layer is bonded to the outer surface of the wall and extends fully over the support plates, configured to hermetically seal the dilatation gap when the pressure inside the vacuum tube is lower than atmospheric pressure.



- 21: 2021/06928. 22: 2021/09/17. 43: 2022/06/07 51: B65D
- 71: Focke & Co. (GmbH & Co. KG)
- 72: SCHNAKENBERG, Jan, KÖSTER, Johann
- 33: DE 31: 10 2019 106 620.4 32: 2019-03-15 54: PACKET FOR CIGARETTE INDUSTRY PRODUCTS, AND METHOD FOR PRODUCING SAME

00: -

The invention relates to a packet for cigarette industry products, said packet comprising a casing (13) which surrounds at least part of a group (12) of cigarette industry products as packet contents, wherein the casing (13) is made from a packaging material, and wherein folding tabs of the packaging material are connected to one another by seams (23). The invention is characterised in that the casing (13) is made from a paper-based packaging material. The invention also relates to a corresponding method.



- 21: 2021/06938. 22: 2021/09/17. 43: 2022/06/07 51: A61K; A61Q
- 71: Givaudan SA
- 72: DENIGOT, Marion
- 33: GB 31: 1904918.8 32: 2019-04-08 54: ENCAPSULATED COMPOSITION
- 00: -
- Described is an encapsulated composition comprising at least one core-shell microcapsule. The at least one core-shell microcapsule comprises a core comprising at least one perfume and/or cosmetic ingredient, and a shell surrounding the core. The shell comprises a polymeric stabilizer that is formed by combination of a polymeric surfactant with at least one bipodal aminosilane. Disclosed is also a method of preparing an encapsulated composition and a use of such an encapsulated composition to enhance the performance of perfume and/or cosmetic ingredients in consumer goods.

21: 2021/06942. 22: 2021/09/17. 43: 2022/06/07 51: H04N

71: Huawei Technologies Co., Ltd. 72: WANG, Biao, ESENLIK, Semih, KOTRA, Anand Meher, GAO, Han, CHEN, Jianle 33: US 31: 62/839,670 32: 2019-04-27

54: AN ENCODER, A DECODER AND CORRESPONDING METHODS OF INTRA PREDICTION

00: -

The present disclosure provides methods and devices for intra prediction. A method of coding implemented by a decoding device, comprising: setting a value of candidate intra prediction mode of a current block to be a default value, wherein the current block is predicted using an intra prediction mode but not a Matrix-based Intra Prediction, MIP, mode and a neighboring block adjacent to the current block is used to derive the value of candidate intra prediction mode of the current block and is predicted using MIP mode; obtaining a value of the intra prediction mode of the current block according to the default value



21: 2021/07023. 22: 2021/09/21. 43: 2022/06/07 51: B01D; C02F 71: CLEAR EDGE PROJECTS CC 72: CARLISLE, Mathew Benedict 33: ZA 31: 2020/05916 32: 2020-09-25 54: A MEDIUM FOR INCREASED SURFACE AREA

00: -

The invention provides for a flexible medium for providing an enhanced surface area for liquid contacting apparatus such as a reactor tank. The medium comprises a plurality of longitudinal strips of flexible sheet material, each strip comprising a front face and a back face, the front face of each strip being connected to the back face of an adjacent strip at spaced apart connection points along their length to create an expanded flexible mesh-like structure when the strips are pulled away from one another. The surfaces of each strip provide liquid contacting surfaces and the depth of the mesh-like structure is determined by the width of the strips.



21: 2021/07051. 22: 2021/09/21. 43: 2022/06/20 51: G01N

71: INDIAN COUNCIL OF MEDICAL RESEARCH 72: KASATKAR, Priyanka Arun, SHETTY, Shrimati Dharmapal

33: IN 31: 201911010626 32: 2019-03-19 54: APPARATUS, METHOD AND KIT FOR DETECTION OF VON WILLEBRAND FACTOR AND FACTOR VIII

00: -

The present invention provides a rapid, specific, user friendly and cost effective lateral flow immunoassay based apparatus, method and kit for the detection of FVIII:Ag and VWF:Ag from human plasma samples. The LFIA based method and kit of the present invention can be used for the diagnosis of newly undiagnosed patients with bleeding history, menorrhagia cases, gynecological complications, differential diagnosis of Hemophilia A and VWD, recovery of factors in the transfused patient etc.

21: 2021/07068. 22: 2021/09/22. 43: 2022/06/07 51: B82Y; C08B 71: CAPE PENINSULA UNIVERSITY OF

TECHNOLOGY 72: JIDEANI, VICTORIA ADAORA EBELE, MAPHOSA, YVONNE, GULU, NONTOBEKO BENHILDA, IKHU-OMOREGBE, DANIEL IMWANSI OGIEMWANVA

33: GB 31: 2016304.4 32: 2020-10-14 54: STARCH-SOLUBLE DIETARY FIBRE NANOCOMPOSITE

00: -

This invention provides for a nanocomposite comprising a Vigna subterranean starch component and a Vigna subterranean soluble dietary fibre (SDF) component. Vigna subterranean is otherwise none as Bambara groundnut (BGN). In particular, this invention relates to a graft copolymer nanocomposite comprising starch derived from BGN and soluble dietary fibre derived from BGN. The nanocomposite of the invention is useful in several food applications, including as a replacement of other starches and the stabilisation of emulsions.



21: 2021/07082. 22: 2021/09/22. 43: 2022/06/07 51: A01N

71: GLOBACHEM NV

72: CLAES, Francis, VAN DAELE, Guy

33: EP 31: 19020239.0 32: 2019-03-29

54: SUN PROTECTANT FOR CROP PLANTS

The present invention relates to the compositions comprising algae, specifically Spirulina platensis and Chlorella, and their use for the treatment of crops, such as fruits, vegetables and arable crops against heat stress, especially sunburn.

21: 2021/07115. 22: 2021/09/23. 43: 2022/06/07 51: H04B; H04L 71: VODACOM (PTY) LTD. 72: BUITENDACH, Albertus, PIENAAR, Vernon 33: ZA 31: 2020/07469 32: 2020-12-01 54: A FIBRE RELAY UNIT

00: -

A fibre relay unit for use in a fibre ring includes at least three optical fibre ports (namely a first fibre port, a second fibre port, and a third fibre port), a fibre switching module which is configured with a passive component and an active component to interconnect the fibre ports, and a power input coupled to the fibre switching module. The passive component of the fibre switching module is configured to provide an optical channel or interconnection between the first fibre port and the third fibre port when no power is supplied via the power input. The active component of the fibre switching module is configured to overwrite the passive component and to provide an optical channel or interconnection between the first fibre

port and the second fibre port when power is supplied via the power input.



21: 2021/07117. 22: 2021/09/23. 43: 2022/06/07 51: A61K

71: DIPLAL, Sheetal

72: DIPLAL, Sheetal

33: ZA 31: 2020/06000 32: 2020-09-29 54: NUTRITION

00: -

The invention relates to nutrition. The invention provides nutritional compositions, and extends to the compositions for use as medicaments. The invention also extends to manufacture or production of the compositions, optionally for use as medicaments. The invention also extends to medical uses and methods of medical treatment.

21: 2021/07120. 22: 2021/09/23. 43: 2022/07/11 51: B23K; B32B; G01M; G01N; E02D; E04B; E04D 71: A.W.A.L. S.R.O.

72: MISAR, Ivan, NOVOTNÝ, Marek, PELECH, Marcel

33: CZ 31: PUV 2019-36081 32: 2019-04-03 54: INSULATING ELEMENT, IN PARTICULAR STRIP, METHOD OF INSPECTION OF WELDS AND MELTING OF INSULATING ELEMENTS AND CONTROL SYSTEM OF WELDS AND MELTING OF INSULATING ELEMENTS

00: -

The subject of the invention is based on an insulating element, in particular a strip or other insulating element, joined in particular by melting or welding, which is provided on at least one side with a combustible or thermally destructible and electrically conductive element. The invention also relates to a method of inspecting of welds and melting of insulating elements, in particular strips. The invention further provides a control system for welds and melting-down of insulating elements. 21: 2021/07125. 22: 2021/09/23. 43: 2022/06/08 51: A61B

71: DIGITAL BLOOD CORPORATION 72: KAZAR, Pavel

33: US 31: 62/810,927 32: 2019-02-26

54: SYSTEM FOR NON-INVASIVE EXAMINATION OF BLOOD ENVIRONMENT PARAMETERS 00: -

A system for non-invasive examination of a user's blood environment parameters that includes having at least four user-input sensors (1, 2, 3, 4) operably configured to measure a partial pressure of O2 and CO2 in a user's blood, a temperature of the user, and a hemoglobin content in the user's blood, an external electronic display unit (11), and a computing unit (9) with a communication interface (12) and communicatively coupled to the external electronic display unit (11) and the least four user-input sensors (1, 2, 3, 4), the computing unit (9) operably configured to cause a user's blood environment parameters to display on the external electronic display unit (11) through use of a mathematical software application resident thereon and employing a model of the user's internal environment based on a mathematical expression of an equation for hemoglobin buffer and utilizing the data from the user-input sensors.



21: 2021/07126. 22: 2021/09/23. 43: 2022/06/07 51: B62D

71: ZHEJIANG WANLI UNIVERSITY

72: HUAN, Honglun, LIU, Min

33: CN 31: 201910863979.8 32: 2019-09-12

54: ELECTROMAGNETIC RELEASE HOPPING ROBOT, BADMINTON ROBOT AND

ELECTROMAGNETIC RELEASE HOPPING MECHANISM

00: -

The invention discloses an electromagnetic release hopping mechanism, which includes an electromagnet base and a magnetic iron absorption plate which can be adsorbed on the electromagnet base under the action of electromagnetic force. The magnetic iron absorption plate is provided with a hopping energy storage and energy releasing mechanism; the bounce energy storage and energy releasing mechanism includes a base arranged above the magnetic iron absorption plate, and at least three uniformly distributed annular rings are arranged on the base, which are connected with their hinges The hopping leg is far away from the free end of the base and is outside the magnetic iron absorption plate; the spring energy storage and release mechanism also includes: an opening driving mechanism for driving the hopping leg to open or close; the hopping energy releasing mechanism is used for accumulating elastic potential energy when the hopping leg is opened and releasing after the electromagnetic force between the electromagnet base and the magnetic iron absorption plate disappears The elastic potential energy is released and the hopping leg is driven to close the bounce. The invention also discloses an electromagnetic release bounce robot and an electromagnetic release bounce badminton robot.



21: 2021/07222. 22: 2021/09/27. 43: 2022/06/24 51: C25B; H01M 71: DynElectro ApS 72: JENSEN, Søren Højgaard, GRAVES, Christopher Ronald, MOGENSEN, Mogens Bjerg 33: EP(DK) 31: 19167612.1 32: 2019-04-05 54: ELECTROLYSIS SYSTEM WITH CONTROLLED THERMAL PROFILE 00: -

This invention relates to a system comprising one or more electrolysis cell(s) and at least one power electronic unit that supplies the cell(s) with a fluctuating voltage, and to a method for operating one or more electrolysis cell(s), comprising providing one or more voltage fluctuations to the electrolysis cell(s) by at least one power electronic unit, enabling the provision of a low-cost electrolysis system which simultaneously allows for fast-response dynamic operation, improved electrolysis efficiency, increased lifetime and high impurity tolerance.



21: 2021/07225. 22: 2021/09/27. 43: 2022/06/24 51: A61L; B09B; B29B; B29K

71: Fater S.p.A.

72: SOMMA, Marcello, VACCARO, Giorgio, PIGNALOSA, Giorgio, D'ALESSIO, Nicola, CARUSO, Tonino, PALOMBI, Laura 33: IT 31: 10201900010062 32: 2019-06-25 54: METHOD FOR STERILIZING AND DECONTAMINATING POST-CONSUMER ABSORBENT SANITARY PRODUCTS POLLUTED WITH ORGANIC COMPOUNDS DERIVED FROM HUMAN METABOLISM 00: -

A method for sterilizing and decontaminating postconsumer absorbent products polluted with organic compounds derived from human metabolism including drug residues, said post-consumer absorbent sanitary products comprising fractions of plastic, super-absorbent polymers (SAP), and optionally cellulose, the method comprising at least the steps of: sterilizing (SR) said absorbent sanitary post-consumer products by heating to a temperature equal to or less than 140°C, and to a pressure lower than 4 bar, decontaminating (DC) said postconsumer absorbent sanitary products of organic compounds by treating with an oxidizing composition comprising at least one compound selected from the group consisting of hydrogen peroxide, sodium percarbonate, potassium percarbonate, sodium perborate, potassium perborate, potassium monopersulfate, ammonium persulfate, sodium persulfate, potassium persulfate, and ozone. The at least one compound is contained in said oxidizing composition in an amount equal to or greater than 2% by weight with respect to the dry weight of the post-consumer absorbent sanitary products.



21: 2021/07226. 22: 2021/09/27. 43: 2022/06/03 51: B60C: H04W

71: CalAmp Corp.

72: PATTON, David B. 54: SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION

00: -System

Systems and methods for determining vehicle operational status in accordance with embodiments of the invention are disclosed. In one embodiment, a vehicle event detection device includes a low pass filter configured to sense a vehicle voltage and filter the sensed voltage to remove noise, and a plurality of first high pass filter configured to detect either a drop or a rise in the vehicle voltage and several low power comparators configured to determine whether the drop or rise in voltage is indicative of a vehicle event.



21: 2021/07227. 22: 2021/09/27. 43: 2022/06/24 51: G06F

71: Wuxi Hisky Medical Technologies Co., Ltd.

72: SUN, Shibo, HE, Qiong, SHAO, Jinhua, SUN, Jin, DUAN, Houli

33: CN 31: 201910236161.3 32: 2019-03-27 54: DATA STORAGE APPARATUS AND METHOD, AND READABLE STORAGE MEDIUM 00: -

A data storage apparatus and method, and a readable storage medium, the data storage apparatus comprising: a processor (101) and a

memory (102); the processor (101) comprises: a cache scheduling device (1011), a plurality of transmission caches (1012, 1013), an interface cache (1014), and an internal memory controller (1015); each transmission cache (1012, 1013) is respectively connected to the cache scheduling device (1011) and the interface cache (1014), and the interface cache (1014) is connected to the memory (102) by means of the internal memory controller (1015); the cache scheduling device (1011) is used for controlling the plurality of transmission caches (1012, 1013) to write data and to read data and send same to the interface cache (1014); the interface cache (1014) is used for receiving data sent by the transmission caches (1012, 1013) if the capacity of the data stored in the interface cache (1014) is less than a preset capacity threshold, or stopping the reception of the data sent by the transmission caches (1012, 1013) if the capacity of the data stored in the interface cache (1014) is greater than or equal to the preset capacity threshold; and the internal memory controller (1015) is used for controlling the memory (102) to write data from the interface cache (1014) and store said data; thus, data storage efficiency can be improved.



21: 2021/07256. 22: 2021/09/28. 43: 2022/06/24 51: H04N

71: Huawei Technologies Co., Ltd.

72: CHEN, Xu, AN, Jicheng, ZHENG, Jianhua 54: VIDEO CODING METHOD AND APPARATUS 00: -

Embodiments of this application disclose a method for obtaining a motion vector, including: determining a reference block of a to-be-processed block, where the reference block and the to-be-processed block have a preset temporal or spatial correlation, the reference block has an initial motion vector and one or more preset motion vector offsets, the initial motion vector of the reference block is obtained based on a predicted motion vector of the reference block, and a prediction block of the reference block is obtained based on the initial motion vector and the one or more preset motion vector offsets; and using the initial motion vector of the reference block as a predicted motion vector of the to-be-processed block.



21: 2021/07296. 22: 2021/09/28. 43: 2022/06/23 51: G06Q

71: AUTHENTISS TECHNOLOGIES (PTY) LTD. 72: BOTES, JACOBUS JOHANNES 33: ZA 31: 2019/01957 32: 2019-03-29 54: A SYSTEM AND METHOD FOR EFFECTING A TRANSACTION USING A MOBILE COMMUNICATIONS DEVICE ASSOCIATED WITH A RECEIVER OF TRANSACTION INFORMATION 00: -

A system and method for effecting a transaction using a mobile communications device of a user who is a receiver of transaction information are provided. The method comprises receiving a data set on the mobile communications device containing metadata, transaction information, a transaction public key and a digital signature. Verifying that the transaction public key has not expired and verifying the transaction information by checking the validity of the digital signature. If the digital signature is valid, verifying that the received transaction information is uniquely associated with a sender of the transaction information and the receiver of the transaction information by verifying a transaction association value. If the transaction association value is verified then displaying the transaction information to the user, receiving a user input to approve the transaction and transmitting the transaction

information from the mobile communications device to a payment system to effect the transaction.



21: 2021/07321. 22: 2021/09/29. 43: 2022/07/21 51: G16B

71: Harbin Medical University

72: WANG, Li, ZHAO, Hongying, XU, Haotian 33: CN 31: 202110122466.9 32: 2021-01-28 54: DNA METHYLATION DATA PROCESSING PLATFORM AND METHOD FOR PATIENTS WITH CARDIOVASCULAR DISEASES 00: -

Disclosed is a DNA methylation data processing platform and method for patients with cardiovascular diseases. The platform includes a searching module, a browsing module, a disease details module and a tool module. The platform is built in the Internet, through which users can look up differential methylation genes of patients with cardiovascular diseases or cardiovascular diseases that lead to the most remarkable difference in methylation of a certain gene; additionally, an online visual browser allows users to directly view the gene methylation level of different patients with cardiovascular diseases at different loci in a genome; interactive network tools make it possible to directly view known therapeutic drugs for different cardiovascular diseases, enabling users to conduct network-based predictive analysis; and with the aid of several online tools, users can also upload their own data to the network platform for analysis and processing. The platform will greatly improve the current understanding of cardiovascular diseases, and hence becomes an instant and valuable resource.



21: 2021/07327. 22: 2021/09/29. 43: 2022/06/23 51: G10L H04S H03G 71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. 72: REUTELHUBER, Franz, EDLER, Bernd, FOTOPOULOU, Eleni, MULTRUS, Markus, MABEN, Pallavi, DISCH, Sascha 33: EP 31: 19161076.5 32: 2019-03-06 54: DOWNMIXER AND METHOD OF DOWNMIXING 00: -

A downmixer for downmixing a multi-channel signal having at least two channels, comprises: a weighting value estimator (100) for estimating band-wise weighting values for the at least two channels; a spectral weighter (200) for weighting spectral domain representations of the at least two channels using the band-wise weighting values; a converter (300) for converting weighted spectral domain representations of the at least two channels into time representations of the at least two channels; and a mixer (400) for mixing the time representations of the at least two chan- nels to obtain a down mix signal.



21: 2021/07328. 22: 2021/09/29. 43: 2022/06/23 51: E05B

71: ABLOY OY

72: KINNUNEN, Keijo, TIRKKONEN, Jouni 33: FI 31: 20195157 32: 2019-03-05 54: DISC TUMBLER CYLINDER AND KEY COMBINATION

00: -

The invention relates to a combination of a disc tumbler cylinder lock and a key. The disc tumbler cylinder lock (100) comprises rotation limiting means (101) for the key and a guiding element (25, 48, 50). The key (1) comprises grooves (5) for the guiding element. The guiding element comprises two rails (25, 48, 50) which make up some of said rotation limiting means (101), and both of said rails comprise at least one limiter protrusion (26). The limiter protrusions are arranged to facing inward in the disc tumbler cylinder lock, and the key (1) comprises at least one re- cess (6) for the limiter protrusions. The rotation limiting means further comprise a front guide (22, 57), said front guide having the rails (25, 48, 50)in association therewith. The front guide and the rails are arranged to allow the key (1), which is in a basic position in the disc tumbler cylinder lock, to be turned for releas- ing the locking of the disc tumbler cylinder lock.



21: 2021/07329. 22: 2021/09/29. 43: 2022/06/23 51: A61L B08B B64C B64D G05D 71: G f P S-GESELLSCHAFT FÜR PRODUKTIONSHYGIENE UND STERILITÄTSSICHERUNG MBH 72: DIETZ, Simon 33: DE 31: 10 2019 108 397.4 32: 2019-04-01 54: METHOD AND DEVICE FOR DISINFECTING CLEAN ROOMS 00: -

The invention relates to a method for disinfecting clean rooms by applying a disinfection agent, according to which the disinfection agent is sprayed from the air onto the surfaces to be disinfected, with the aid of an unmanned air vehicle, the disinfection agent being stored on board the aircraft in at least one container. The invention further relates to a device for carrying out said method, comprising a suitably designed unmanned air vehicle.



21: 2021/07330. 22: 2021/09/29. 43: 2022/06/23 51: C12N C12P C07K 71: CJ CHEILJEDANG CORPORATION 72: YOO, Hye Ryun, KIM, So-Yeon, PARK, Hye Min, LEE, Sung Gun, LEE, Jin Nam, KIM, Hyun Ah, CHOI, Sol, HUH, Lan

33: KR 31: 10-2019-0054430 32: 2019-05-09 54: MICROORGANISM PRODUCING L-AMINO ACID AND METHOD FOR PRODUCING L-AMINO ACID BY USING SAME

00: -

The present application relates to a microorganism producing L-amino acid or a precursor thereof and a method for producing L-amino acid or a precursor thereof by using the microorganism.

21: 2021/07331. 22: 2021/09/29. 43: 2022/06/23 51: A61K A61P

71: HANMI PHARM. CO., LTD.

72: KWON, Hyun Joo, KIM, Jung Kuk, PARK, Eun Jin, LEE, Jong Min, LEE, Jong Suk, JO, Hyo Sang, CHOI, In Young

33: KR 31: 10-2020-0069219 32: 2020-06-08 33: KR 31: 10-2020-0004379 32: 2020-01-13 33: KR 31: 10-2019-0077776 32: 2019-06-28 33: KR 31: 10-2020-0004386 32: 2020-01-13 54: THERAPEUTIC USE, FOR LIVER DISEASE, OF TRIPLE AGONIST HAVING ACTIVITY WITH RESPECT TO ALL OF GLUCAGON, GLP-1, AND GIP RECEPTORS, OR CONJUGATE THEREOF 00: -

The present invention relates to a therapeutic use, for liver disease, of a triple agonist having activity with respect to all of glucagon, GLP-1, and GIP receptors, or a long-acting conjugate thereof.



21: 2021/07343. 22: 2021/09/29. 43: 2022/06/24 51: B23K

71: MOMEK SERVICES AS

72: JOHANSEN, Alexander, BERSVENDSEN, Jørn, KARLSEN, Finn Oscar 33: NO 31: 20190560 32: 2019-04-29

54: DEVICE AND METHOD FOR WELDING CYLINDRICAL SECTIONS OF A CASING 00: -

The invention relates to a device for welding together cylindrical sections of a casing. The device comprises a clamping ring configured to surround and attach to a section of the casing and a robot provided with a welding gun and at least one joint, wherein the robot is movably attached to the clamping ring by cooperating means. The invention further relates to a method for welding cylindrical sections of a casing by using such a device, the method comprising the steps of a) positioning and clamping the clamping ring at the correct position, b) moving the robot along the clamping ring to the correct position for welding, c) welding the sections to each other by the welding gun of the robot, and d) releasing the clamping ring.



21: 2021/07370. 22: 2021/09/30. 43: 2022/06/23 51: B65B

71: KALIDECK (PTY) LTD.

72: JONKER, Ruan, GILLINGS, Nicholas John

33: ZA 31: 2020/07516 32: 2020-12-03 54: PACKAGING SIZING TEMPLATE

00: -

A packaging sizing template arrangement is provided, comprising a first rigid board carrying a first plurality of overlapping sizing profiles; and a second rigid board extending substantially perpendicularly to the first rigid board, the second rigid board carrying a second plurality of overlapping sizing profiles on a first side of the second rigid board, the first and second plurality of overlapping

sizing profiles in combination defining an imaginary cuboid corresponding to a packaging box. In use, a product (or a plurality of products to be packaged together) may be placed and arranged at the intersection between the first and second rigid boards, with the corresponding imaginary cuboid that encompasses the outline of the product/s indicating the packaging box to be used for the product/s.



21: 2021/07371. 22: 2021/09/30. 43: 2022/06/23 51: A47J

71: PLANET EYE (PTY) LTD
72: KHALO, Maketele Gerald, NKHUMISE, Reabetswe Michael, SEBOYENG, Lesiba Peter, LEFOKA, Mmatseleng Precious
33: ZA 31: 2020/04003 32: 2020-07-01
54: AUTOMATED COOKING APPARATUS AND METHOD

00: -The in

The invention provides an automated cooking apparatus for cooking a flowable foodstuff such as corn flour or maize meal ("pap"). The cooking apparatus may comprise a silo for holding the foodstuff prior to cooking; a cooking chamber; a foodstuff apportioning mechanism arranged to transfer a portion of the foodstuff from the silo into the cooking chamber; a mixing mechanism configured to mix the portion of the foodstuff with a further ingredient in the cooking chamber; drive means configured to drive either or both the apportioning mechanism and the mixing mechanism; and a control component for controlling operation of the drive means. A method of cooking using the disclosed cooking apparatus is also provided.



21: 2021/07378. 22: 2021/09/30. 43: 2022/06/23 51: A01N 71: UGLX Research AB 72: OLAUSSON, Michael 33: SE 31: 1930125-8 32: 2019-04-12 33: SE 31: 1930123-3 32: 2019-04-12 54: METHOD AND APPARATUS FOR RECONDITIONING ORGANS 00: -

A method for recovering an organ harvested from a donor, wherein the organ has been retrieved at least two hours after the donor had circulation arrest, comprising the steps of providing lys-plasminogen to the organ in a first hyperoncotic fluid, followed by tPA in a second hyperoncotic fluid. A third hyperoncotic fluid comprising albumin and electrolytes is circulated through the organ in a first restoration step, and in a second restoration step, a fourth hyperoncotic fluid comprising oxygenated red blood cells is circulated through the organ. Then, the organ is evaluated by conventional criteria. A device and a fluid for use in the method is also disclosed.



21: 2021/07381. 22: 2021/09/30. 43: 2022/06/23 51: A01N; C05F 71: Valent BioSciences LLC 72: DEVISETTY, Bala N. 33: US 31: 62/827,500 32: 2019-04-01 54: MYCORRHIZAE AND/OR BACILLUS AMYLOLIQUEFACIENS LIQUID FERTILIZER COMPATIBLE FORMULATIONS

00: -

The present invention is directed to agricultural formulations containing mycorrhizae and/or Bacillus amyloliguefaciens that are compatible with liquid fertilizers. The present invention further relates to methods of improving plant growth by applying mycorrhizae and/or Bacillus amyloliquefaciens containing formulations to an area where a plant will grow.



21: 2021/07476. 22: 2021/10/05. 43: 2022/07/12 51: C08F; C08G; C25B 71: HOE, Hui Huang, HOE, Hui Ming 72: HOE, Hui Huang, HOE, Hui Ming

33: US 31: 62/815,574 32: 2019-03-08 54: ELECTROCHEMICAL PRODUCTION OF POLYMERS

00: -

A novel process for production of polymers, often with fuels/chemicals as by-products. The invention consists of device design, addition polymerization process, and condensation polymerization process. The device is a mechanical design to continuously remove solid deposit, conductive or not, on electrode surface. Besides overcoming the limitation of electrochemical polymer production where the products blocks the electrode from further operation, the device provides cheaper operation for electrometallurgy to harvest the valuable metals formed on electrode. The novel process allows retrofitting conventional polymer production process by replacing conventional reactor with electrochemical reactor, for low-cost rapid implementation. The novel reactions consist of addition reaction to produce addition polymers; and intermolecular reaction to produce classes of condensation polymers. The clusters of invention enable valuable polymers and chemicals to be produced at low cost for milder conditions and cheaper equipment, while allowing utilization of alternative feedstock especially chemical wastes, for further environmental and economic benefits.



21: 2021/07510. 22: 2021/10/06. 43: 2022/07/22 51: E04H 71: WEATHERHAVEN GLOBAL RESOURCES LTD. 72: JOHNSON, Brian D., SAVENKOFF, Ryan Douglas, CHRISTENSEN, Matt, BENNETT, Jean-Marc

33: US 31: 16/287.539 32: 2019-02-27 33: WO 31: PCT/US2019/050237 32: 2019-02-28 54: RAPIDLY DEPLOYABLE MODULAR SHELTER SYSTEM 00: -

A modular tent frame system comprises a number of folding frame elements which permit the shelter to be rapidly deployed in extreme environmental conditions. Telescopically sliding legs each comprise an inner leg having a plurality of slots adapted to receive a spring-loaded latch supported on an outer leg; and the outer leg. The tent frame is characterized in that it comprises a plurality of arch brackets located around a periphery thereof for releasably receiving and securing the outer leg. The telescopically sliding legs permit the tent frame to be unfolded, and the tent fabric attached to the frame; the frame is on the ground and the tent can then be raised by sliding the outer leg elements up the inner leg elements to thereby raise the tent to the desired height, even in high winds.



21: 2021/07534. 22: 2021/10/06. 43: 2022/06/29 51: B01J; C10G 71: LUMMUS TECHNOLOGY LLC 72: TOMSULA, Bryan, CHEN, Liang, LOEZOS,

Peter, MARRI, Rama Rao 33: US 31: 62/828,836 32: 2019-04-03 54: STAGED FLUID CATALYTIC CRACKING PROCESSES INCORPORATING A SOLIDS SEPARATION DEVICE FOR UPGRADING NAPHTHA RANGE MATERIAL 00: -

Processes and systems for the conversion of hydrocarbons herein may include separating an

effluent from a moving bed reactor, the effluent including reaction product, first particulate catalyst, and second particulate catalyst. The separating may recover a first stream including the reaction product and first particulate catalyst and a second stream including second particulate catalyst. The second stream may be admixed with a regenerated catalyst stream including both first and second particulate catalyst at an elevated temperature. The admixing may produce a mixed catalyst at a relatively uniform temperature less than the elevated regenerated catalyst temperature, where the temperature is more advantageous for contacting light naphtha and heavy naphtha within the moving bed reactor to produce the effluent including the reaction product, the first particulate catalyst, and the second particulate catalyst.



21: 2021/07542. 22: 2021/10/07. 43: 2022/06/29 51: G06T; G07C 71: TAR, Azgar 72: TAR, Azgar 33: ZA 31: 2020/06274 32: 2020-10-09 54: PERSONAL ATTENDANCE MONITORING SYSTEM

00: -

The invention relates to a personal attendance monitoring system which comprises an image acquisition system, an image processing system and a communications system. The image acquisition system includes means to acquire visual images from within the field of view of the image acquisition system and convert the images to recordable visual image data. The image acquisition system communicates the visual image data to the image processing system by the communications system.

The image processing system comprises a first and second image processing subsystem. The first image processing subsystem is programmed to receive, store and forward the acquired visual image data to the second image processing subsystem. The second image processing subsystem is programmed to process the visual image data, to record unique individual data models, repeatedly recreate a digital population model and to store the data of the recreated population models for subsequent processing.



21: 2021/07544. 22: 2021/10/07. 43: 2022/06/29 51: A61K

71: IMARA INC.

72: SVENSTRUP, Niels, PETROSSIAN, Vanik, TISI, David, WORTHINGTON, Jeffrey

33: US 31: 62/829,784 32: 2019-04-05

54: PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE

00: -

The present disclosure relates to PDE9 inhibitors, pharmaceutical compositions comprising the PDE9 inhibitors, and methods of using the PDE9 pharmaceutical compositions for the treatment of sickle cell disease (SCD).



21: 2021/07595. 22: 2021/10/08. 43: 2022/06/29 51: B22F; B32B; C02F

71: CELLMOBILITY, INC.

72: PARK, Hyeji, PARK, Junhyeong, RHEE, Kendrick Hanjun, CHOE, Heeman 33: US 31: 62/851,002 32: 2019-05-21 54: METAL FOAM FOR WATER PURIFICATION 00: -

A metal foam, such as copper metal foam, is used for water filtration and purification. A method is used to manufacture a new water purification device with the capability of killing bacteria and viruses using three dimensionally connected copper foam filter consisting of random or elongated channel pores and large surface area, thereby increasing the copper surface area in contact with contaminated water drops and purifying them. The copper foam water filter has pores on the order of several to tens of micrometers and porosity ranging from 50 percent to 75 percent to properly control the water filtration time and the contact time between the copper foam pore surface and water drops during filtration.



21: 2021/07662. 22: 2021/10/11. 43: 2022/06/20 51: H04N

71: QUALCOMM Incorporated

72: COBAN, Muhammed Zeyd, KARCZEWICZ, Marta

33: US 31: 62/817,451 32: 2019-03-12 54: COEFFICIENT DOMAIN BLOCK DIFFERENTIAL PULSE-CODE MODULATION IN VIDEO CODING 00: -

A video decoder may determine, based on syntax elements in a bitstream that comprises an encoded representation of the video data, residual quantized samples of a block of the video data. Additionally, the video decoder may determine quantized residual

values based on the residual quantized samples. After determining the quantized residual values, the video decoder may inverse quantize the quantized residual values. The video decoder may generate predicted values by performing intra prediction for the block using unfiltered samples from above or left block boundary samples. Furthermore, the video decoder may reconstruct original sample values of the block based on the inverse-quantized quantized residual values and the prediction values.



21: 2021/07721. 22: 2021/10/12. 43: 2022/07/12 51: A01G; G05B

71: VALMONT INDUSTRIES, INC.

72: KASTL, John, LARUE, Jacob L.

33: US 31: 62/867,338 32: 2019-06-27 54: SYSTEM, METHOD AND APPARATUS FOR PROVIDING VARIABLE RATE APPLICATION OF APPLICANTS TO DISCRETE FIELD LOCATIONS

00: -

The present invention provides a system, method and apparatus for providing variable rate application of applicants to discrete field locations. According to a first preferred embodiment, the present invention includes a control device having software modules to allow for the execution of irrigation and chemical spray patterns according to specific prescriptions for each crop being sprayed. According to further preferred embodiments, the control device may use data from a variety of image sensors to create a selective, variable rate application of applicants. Using the imaging data, the system of the present invention may use a primary applicant system to broadly deliver a first selected application (e.g. water or the like) and use a separate system to deliver targeted applicants for specific plants or areas of a given field.



21: 2021/07727. 22: 2021/10/13. 43: 2022/07/12 51: E03F

71: VAN ZYL, Vincent Vernon

72: VAN ZYL, Vincent Vernon

54: DRAINAGE FITTING

00: -

A drainage fitting (10) which includes a basin (14), an outlet (18) from the basin (14) and an outer boundary wall (20) which supports the basin (14) and which terminates at a ground-engaging rim (22) such that when the rim (22) is engaged with the ground the basin (14) is elevated from the ground, and wherein the outlet (18) is configured to be sealingly engageable with a drain pipe (23) thereby to allow drainage from within the basin (14) into the drain pipe (23).



21: 2021/07757. 22: 2021/10/13. 43: 2022/07/12 51: H05K

71: VERTIV CORPORATION
72: RANCIC, Denis, JANKOVIC, Zvonimir,
GJURANIC, Zeljko, RAIC, Karlo Bozo
33: US 31: 16/392,199 32: 2019-04-23
54: MODULAR ROOF MOUNTED COOLING
SYSTEM AND METHOD FOR DATA CENTER
00: -

The present disclosure relates to a roof mounted modular cooling unit ("RMC unit") which is adapted for use above a unit IT structure being used to help form a data center. The RMC unit has a housing configured to be secured perpendicularly relative to a longitudinal axis of a frame of a modular unit IT structure. The housing has a cold air discharge compartment at one end thereof, overlaying a cold aisle formed within the unit IT structure, from which cold air from the modular cooling unit is discharged into the cold aisle, and a hot air intake compartment selectively located to overlay the hot aisle, into which hot air from the hot aisle is drawn. A width of the RMC unit is sufficient to substantially span a full width of the one of the equipment racks.



21: 2021/07784. 22: 2021/10/14. 43: 2022/07/11 51: H02G 71: WENTZEL, Simon Henry 72: WENTZEL, Simon Henry 33: ZA 31: 2020/06333 32: 2020-10-13 54: CABLE RETRACTING DEVICE AND SYSTEM 00: - The invention relates to a cable retracting device. The device is suitable for use with at least one cable having a fixed end portion and an opposing free end portion that is supported on a support wherein the free end portion is displaceable relative to the support. The device comprises a body defining an opening for receiving the cable therethrough wherein relative movement between the cable and the body is permitted. In use, when a tensile force is exerted on the free end portion, a distance between the free end portion and the support increases, thereby causing the body to move upwardly and slide over the cable, and when the tensile force is removed, the weight of the body causes the body to move downward and slide over the cable, thereby causing the distance between the free end portion and support to reduce.



21: 2021/07810. 22: 2021/10/14. 43: 2022/06/08 51: A61K; A61P; C07D

71: TransThera Sciences (Nanjing), Inc.

72: WAN, Zhonghui, LI, Lin

2. WAN, ZHUNGHUI, LI, LII

33: CN 31: 201910199611.6 32: 2019-03-15 54: CRYSTAL FORM OF PHOSPHODIESTERASE INHIBITOR, PREPARATION METHOD THEREFOR AND USE THEREOF

00: -

The present invention falls within the technical field of medicine, and in particular relates to a crystal form of a phosphodiesterase inhibitor as shown in formula (I), a preparation method therefor and the use thereof.



21: 2021/07811. 22: 2021/10/14. 43: 2022/06/08 51: H05H

71: CINOGY GmbH

72: WANDKE, Dirk, HAHNL, Mirko, STORCK, Karl-Otto, TRUTWIG, Leonhard, RICKE, Melanie, HELLMOLD, Jan-Hendrik

33: DE 31: 10 2019 109 940.4 32: 2019-04-15 54: TREATMENT ASSEMBLY FOR TREATING THE SURFACE OF A BODY WITH A DIELECTRICALLY LIMITED PLASMA 00: -

The invention relates to a treatment assembly for treating the surface of a body with a dielectrically limited plasma, comprising an electrode assembly (1), in which at least one electrode (1a, 1b) is arranged in a base section of the electrode assembly (1), which is completely shielded from the surface to be treated by a dielectricum (3), and a connection conductor (6a, 6b) of which extends into a contact projection (5) of the dielectricum (3). The treatment assembly also comprises a contact element (2, 2'), which has a receiving opening (18, 18') for the contact projection (5) and a lever assembly for opening and closing the receiving opening (18, 18') and for pressing a contact pin (31) through a prefabricated recess (14) of the dielectricum (3) onto the electrode (1a, 1b) in order to deliver a connection of a high-voltage AC source to the electrode (1a, 1b), allows a spatially close arrangement of two contact pins (31), which are connected to at least one high-voltage source, in close proximity to each other in that the electrode assembly (1) has at least two electrodes (1a, 1b),

which are arranged in the base section and are insulated from each other by the dielectricum (3) and a connection conductor (6a, 6b) of each of which extends into the contact projection (5); a recess (14) is provided in the dielectricum (3) and a contact pin (31) is provided for each connection conductor (6a, 6b); at least one of the contact pins (31) is supported in the contacting element (2) by means of a dielectric casing (30) and is designed with a non-insulated end face (46) for producing a contact with the corresponding electrode (1a, 1b); and the at least one dielectric casing (30) is oversized with respect to the corresponding recess (14) in the dielectricum (3), said oversize allowing a press fit of the casing (30) in the dielectricum (3) by means of the lever assembly when the non-insulated end face (46) of the contact pin (31) contacts the corresponding electrode (1a, 1b), wherein the press fit prevents an air gap.



21: 2021/07832. 22: 2021/10/14. 43: 2022/06/22 51: C07D, A61K, A61P 71: SHANGHAI RINGENE BIOPHARMA CO., LTD. 72: WAN, Huixin, PAN, Jianfeng, MA, Jingui 33: CN 31: 201910200772.2 32: 2019-03-17 33: CN 31: 201911073573.6 32: 2019-11-06 54: PYRROLE AMIDOPYRIDONE COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF 00: -

Disclosed are a pyrrole amidopyridone represented by general formula I, or a pharmaceutically acceptable salt thereof, or an enantiomer, a diastereomer, a tautomer, a solvate, a polymorph, or a prodrug thereof, a preparation method therefor and use thereof in pharmacy, the definition of each group being as described in the description.



21: 2021/07833. 22: 2021/10/14. 43: 2022/05/12 51: B25J; E05B; E06B; G21F 71: GETINGE LA CALHENE 72: FELIX, Julien 33: FR 31: FR1904029 32: 2019-04-16 54: SEALED CONNECTION DEVICE BETWEEN TWO ENCLOSED VOLUMES WITH IMPROVED

SECURITY 00: -

Assembly including a first volume and a device for connection between the first volume and a second volume, the first volume including a first flange and a first door (22), and the second enclosed volume including a second flange and a second door, the connection device comprising means intended to secure the first and second doors and to disengage the second door from its flange, said means including a plate mounted on the first door (22). The assembly also including means (134) for immobilising the plate relative to the first door (22) in a position in the absence of the second door and in another position in the presence of the second door in a state of securing the first (22) and second doors, and unlocking the second door relative to the second flange



21: 2021/07914. 22: 2021/10/18. 43: 2022/06/28 51: G01M; G01N

71: ARCELORMITTAL

72: Akshay BANSAL, Gérard GRIFFAY, Vladislav JANECEK

33: IB 31: PCT/IB2019/054265 32: 2019-05-23 54: A HUMIDITY DETECTION EQUIPMENT OF A STRIP 00: -

The present invention relates to a method for detecting the presence of humidity on a surface of a flat strip, in particular a bare metal strip or of a coated metal strip comprising the following steps: blowing on said surface an impinging air flow producing an air flow deflected by said surface, said impinging air flow not being saturated, - measuring a humidity content of at least a portion of said deflected air flow, - comparing the humidity content of said impinging air flow and said deflected air flow. - if said humidity content of said deflected air flow is superior to said humidity content of said surface of said bare metal strip or of said coated metal strip is detected.



21: 2021/07933. 22: 2021/10/18. 43: 2022/06/28 51: F42D; G01C; G01N; G01S; G01V; H04L; E21C; E21F; G06Q; H04W

71: LEICA GEOSYSTEMS PTY LTD

72: DASGUPTA, Kausik, JANSE VAN RENSBURG, Jacques

33: AU 31: 2019902277 32: 2019-06-28

54: BLAST MOVEMENT MONITOR, SYSTEM AND METHOD

00: -

The invention relates to a method of monitoring the movement of an ore body (202) resulting from blasting, the method comprising: positioning a plurality of blast movement monitors (206) in a blast zone in the ore body (202), each of the blast movement monitors (206) having a monitor identifier; attributing pre-blast coordinates to said blast movement monitors (206); blasting the ore body (202); attributing post-blast coordinates to said blast movement monitors (206); collating said post-blast coordinates and transmitting said post-blast coordinates to a data collector (210), wherein postblasting said blast movement monitors (206) form a sub-surface mesh network (208) and said step of collating said post-blast coordinates comprises communicating said post-blast coordinates between blast movement monitors (206) within said subsurface mesh network (208).



- 21: 2021/07943. 22: 2021/10/18. 43: 2022/06/08 51: A61K: A61Q
- 71: Givaudan SA

72: WESTENFELDER, Horst, SEMYTKIVSKA, Nina 33: GB 31: 1906362.7 32: 2019-05-06 54: COSMETIC INGREDIENT COMPRISING

RETINOL IN MULTILAYER CRYSTALLINE MICROCAPSULES

00: -

A cosmetic ingredient comprising retinol is provided, which displays improved stability and reduced skin irritation. Furthermore, cosmetic compositions comprising the same and methods of use thereof are described.



21: 2021/07987. 22: 2021/10/19. 43: 2022/06/08 51: A01N; A01P 71: KUREHA CORPORATION 72: TATEISHI, Hideaki, KIMURA, Erina, KOSHIYAMA, Tatsuyuki, ISHIKAWA, Mayumi 33: JP 31: 2019-080497 32: 2019-04-19 54: BACTERICIDAL AGENT FOR AGRICULTURAL OR HORTICULTURAL USE, PLANT DISEASE CONTROL METHOD, AND PRODUCT FOR PLANT DISEASE CONTROL USE 00: -

Provided is a bactericidal agent for agricultural or horticultural use, which has low toxicity to human

bodies and animals and excellent handling safety and can exhibit an excellent controlling effect against a wide range of plant diseases and a high bactericidal activity against pathogenic bacteria for plant diseases. The bactericidal agent for agricultural or horticultural use according to the present invention contains an azole derivative represented by general formula (I) as one active ingredient and further contains another active ingredient.



21: 2021/08012. 22: 2021/10/19. 43: 2022/07/07 51: A63B

71: FORTUIN, Newton Buchanon, VAN NIEKERK, Johannes Hermanus

72: FORTUIN, Newton Buchanon, VAN NIEKERK, Johannes Hermanus

33: ZA 31: 2019/01721 32: 2019-03-20 54: RESISTANCE EXERCISE APPARATUS 00: -

A resistance exercise apparatus (10) includes a support formation or platform (14) for supporting the bodyweight of a user. The apparatus (10) includes a pulley system (18) with pulleys (30) around which a cable (20) is threaded, as well as a resistance mechanism (16) with a pneumatic actuator (22) connected to the pulley system (18). The cable (20) has a handle (46) on which the user can exert a muscular load so that the muscular load is transferred by the cable (20) as a tensile load, to the resistance mechanism (16) and the resistance mechanism (16) being configured such that the pneumatic actuator (22) exerts a resistive force against said tensile load.



21: 2021/08062. 22: 2021/10/21. 43: 2022/07/14 51: F16L

71: VAN ZYL, Vincent Vernon

72: VAN ZYL, Vincent Vernon

33: ZA 31: 2020/06866 32: 2020-11-04 54: INSERT

54: IN 00: -

An insert (10) for forming an opening in a vessel (32), the insert (10) including an inner member (12) defining a passage (14) having an inlet (16) and an outlet (18), and an outer buffer member (20) surrounding the inner member (12) whereby an annular cavity (24) is formed between opposing surfaces (22) and (26) of the inner member (12) and the outer buffer member (20) respectively, and wherein the annular cavity (24) is configured to receive a pipe coupling (28).



21: 2021/08076. 22: 2021/10/21. 43: 2022/07/14 51: G06K

1: linan lovie

71: Jinan Jovision Technology Co., Ltd.72: Haifeng Wang, Zhengbing Wang, Renquan Wang

33: CN 31: 202111012377.5 32: 2021-08-31 54: AN IMPROVED PEDESTRIAN ATTRIBUTE MONITORING AND RECOGNITION METHOD 00: -

The invention discloses an improved pedestrian attribute recognition method and relates to the

technical field of visual image processing. The method comprises the following steps: acquire pictures or videos with human bodies or faces from a camera, wherein the Hisilicon chip is installed in the camera, and a trained model is transplanted within the Hisilicon chip, and the model comprises a detection model based on YOLOv5 and a classification model based on ResneSt; According to the data collected by the pedestrian attribute data set, the human face area and the whole body area are detected from pictures or video information based on the detection model of YOLOv5, and are framed respectively; The classification model based on ResneSt identifies and classifies the specific attributes of the framed face region and the whole body region. The invention, by setting a new pedestrian attribute recognition technical scheme, the accuracy of pedestrian recognition is improved, and the technical scheme is transplanted to a camera, so that intelligent monitoring of suspicious personnel in real time throughout the day is realized.



21: 2021/08087. 22: 2021/10/21. 43: 2022/07/14 51: A61K, A61P, C07C, C07D

71: GUANGZHOU RIBOBIO CO., LTD

72: ZHANG, Bill Biliang, ZHAO, Haoting, WEN, Jian 33: WO 31: PCT/IB2021/052705 32: 2021-03-31 33: CN 31: 202011355845.4 32: 2020-11-27 54: LIPID COMPOUND AND THE COMPOSITION THEREOF

00: -

The disclosure relates to a lipid compound of formula (I), including lipid nanoparticles thereof, and the manufacturing method and the use of pharmaceutical delivery. The lipid compounds have formula (I), or a salt or an isomer thereof, wherein R_1 , R_2 , R_3 n and m are defined herein:



21: 2021/08100. 22: 2021/10/21. 43: 2022/07/18 51: C21D; C22C; C23C 71: ARCELORMITTAL 72: Pascal LORENZINI 33: IB 31: PCT/IB2019/054576 32: 2019-06-03 54: COLD ROLLED AND COATED STEEL SHEET

54: COLD ROLLED AND COATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF

00: -

A cold rolled and coated steel sheet having a composition comprising of the following elements, 0.12% < Carbon < 0.2%, 1.7% < Manganese < 2.10%,

0.1% ≤Silicon≤0.5 %, 0.1%≤Aluminum≤ 0.8%,

 $0.1\% \leq \text{Chromium} \leq 0.5\%, 0\% \leq \text{Phosphorus} \leq$

0.09 %, 0 % \leq Sulfur \leq 0.09 %, 0 % \leq Nitrogen \leq

0.09%, Nickel \leq 3%, Niobium \leq 0.1%, Titanium \leq

0.1%, Calcium \leq 0.005%, Copper \leq 2%, Molybdenum

 \leq 0.5%, Vanadium \leq 0.1%, Boron \leq 0.003%, Cerium \leq 0.1%, Magnesium \leq 0.010%, Zirconium \leq 0.010% the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel sheet comprising in area fraction, 10 to 60% Bainite, 25 to 55% Ferrite, 5% to 15% Residual Austenite wherein carbon content in residual austenite is between 0.7% and 1% and 5% to 18% Martensite, wherein the cumulated amount of Bainite and Ferrite is at least 70%.

21: 2021/08149. 22: 2021/10/22. 43: 2022/07/22 51: A01B; B62D 71: CROP CENTER 360 (PTY) LTD 72: PUTZ, Jürgen 33: ZA 31: 2020/06564 32: 2020-10-22 54: PLANTER ADAPTATION FOR NARROW WIDTH TRANSPORT AND ACCESSIBILITY

00: -

This invention provides a revolving platform for a trailed working implement comprising a working implement subassembly, a mounting beam subassembly to which the working implement subassembly is mounted and a trailer subassembly to which the mounting beam subassembly is mounted. The revolving platform, the trailer and the mounting beam subassemblies include mechanical interfaces which are configured for the rotation of the platform mounting beam interface relative to the platform trailer interface such that, upon rotation, the mounting beam subassembly and the working implement subassembly mounted thereto are rotated relative to the trailer subassembly.



21: 2021/08202. 22: 2021/10/25. 43: 2022/07/14 51: H04L; H04W

71: QRC AAA SARL

72: KOVAC, Stiepan, Aurélien, UNDERHILL, John, Gregory

33: CH 31: 00620/19 32: 2019-05-10 33: CH 31: 00731/19 32: 2019-06-06 54: QUANTUM-RESISTANT SIM CARD 00: -

A quantum resistant smart card is configured to enable access to mobile or integrated telecommunications networks for a cellular communication device, and comprises: encryption means configured for an encryption of data by a standard of at least 256-bit encryption from the list comprising at least AES-256 as defined in the ISO/IEC 18033- 3:2011 standard and eAES; dynamic loading means configured to dynamically load in an intended legacy communication device an upgraded protocol stack enabling the intended legacy communication device to connect to a New Radio network by reusing existing frequencies mastered by the intended legacy communication device; and at least one hardware accelerator system which enables the smart card to provide support for the encryption of data according to the standard of at least 256-bit encryption from the list

comprising at least AES-256 as defined in the ISO/IEC 18033-3:2011 standard and eAES.

Key Schedule



Round key expansion (key schedule): subkeys = HKDF-expand(key, info, L) where L = RN (rount count) + 1 * 16 key = the input cipher key info = the ciphers formal name string

21: 2021/08224. 22: 2021/10/25. 43: 2022/07/14 51: A01G

71: AIRSEED TECHNOLOGIES HOLDINGS PTY LTD

72: WALKER, Andrew Francis, LOUW, Andries Willen

33: AU 31: 2019901422 32: 2019-04-26 54: A MANUFACTURED SEED POD, A COMPOSITION FOR A MANUFACTURED SEED POD AND A METHOD FOR MANUFACTURING A SEED POD

00: -

The present application relates to a degradable seed pod arranged to be delivered from an aerial vehicle to a ground surface. The pod comprises a seed encased in a hardened material, which is composed and manufactured in a manner that shields the seed from damage when the pod experiences an impact force.

- 51: C21D; C22C; C23C
- 71: ARCELORMITTAL
- 72: Hyun Jo JUN, Narayan POTTORE, Dongwei FAN, Xiang (Frank) CHEN, Oleg YAKUBOVSKY 33: IB 31: PCT/IB2019/054577 32: 2019-06-03

^{21: 2021/08255. 22: 2021/10/26. 43: 2022/06/29}

54: COLD ROLLED AND COATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF

00: -

A cold rolled and coated steel sheet having a composition comprising of the following elements, expressed in percentage by weight:0.140% weight:0.140%

≤0.2%,1.5%≤Manganese≤2.15%, 0.5%≤Silicon≤

0.8%, 0.4% \leq Aluminum \leq 0.8%, 0% \leq Phosphorus \leq

 $0.09\%, 0\% \le$ Sulfur $\le 0.09\%, 0\% \le$ Nitrogen $\le 0.09\%,$

 $0.01\% \leq Niobium \leq$

0.1%, 0.01% \leq Titanium \leq 0.1%, and can contain

one or more of the following optional elements $0\% \le$

Chromium≤0.1%, 0%≤Nickel≤3%, 0%≤Calcium≤

0.005%, 0% < Copper < 2%, 0% < Molybdenum < 0.5%,

 $0\% \le Vanadium \le 0.1\%, 0\% \le Boron \le 0.003\%, 0\% \le$

Cerium≤0.1%, 0%≤Magnesium≦0.010%, 0%≤

Zirconium≦0.010% the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel sheet comprising in area fraction, 40 to 60% Inter-critical Ferrite, 25 to 45% Transformed Ferrite, 8% to 20% and 5% to 20% Fresh Martensite, 0 to 10% Bainite, wherein the cumulated amount of Inter-critical and Transformed Ferrite is between 75% and 85%.

21: 2021/08294. 22: 2021/10/27. 43: 2022/06/20 51: D04B

71: KARL MAYER STOLL R&D GMBH

72: SCHORLEMMER, MARTIN , WEISMANTEL, JONAS

33: EP 31: 20206076.0 32: 2020-11-06 54: WARP KNITTING TOOL BAR FOR A WARP KNITTING MACHINE

00: -

A warp knitting tool bar of a warp knitting machine is specified, with a base body (1), which is designed as a hollow profile. The aim is to be able to minimise problems associated with temperature changes under high mechanical loads. For this purpose, provision is made for the base body to be formed from steel.



21: 2021/08295. 22: 2021/10/27. 43: 2022/06/29 51: C21D; C22C

71: ARCELORMITTAL

72: Matthieu SIEBENTRITT, Vincent LHOIST, Aurélie ESNAUT

33: IB 31: PCT/IB2019/054901 32: 2019-06-12 54: A COLD ROLLED MARTENSITIC STEEL AND A METHOD OF MARTENSITIC STEEL THEREOF 00: -

A cold rolled martensitic steel sheet comprising of the following elements, $0.3 \% \leq C \leq 0.4 \%$; $0.5 \% \leq$ $Mn \leq 1 \%$; $0.2\% \leq Si \leq 0.6 \%$; $0.1\% \leq Cr \leq 1 \%$; $0.01\% \leq Al \leq 1 \%$; $0.01\% \leq Mo \leq 0.5\%$; $0.001\% \leq$ $Ti \leq 0.1\%$; $0\% \leq S \leq 0.09\%$; $0\% \leq P \leq 0.09\%$; $0\% \leq N \leq$ 0.09%; $0\% \leq Nb \leq 0.1\%$; $0\% \leq V \leq 0.1\%$; $0\% \leq Ni \leq$ 1%; $0\% \leq Cu \leq 1\%$; $0\% \leq B \leq 0.05\%$; $0.001\% \leq$ $Ca \leq 0.01\%$; $0\% \leq Sn \leq 0.1\%$; $0\% \leq Pb \leq 0.1\%$; 0% $\leq Sb \leq 0.1\%$; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of steel, by area percentage, at least 95\% of martensite, a cumulated amount of ferrite and bainite between 1% and 5%, and an optional amount of residual austenite between 0% and 2%.

- 21: 2021/08352. 22: 2021/10/28. 43: 2022/06/29
- 51: B60P
- 71: Nimalux (Pty) Ltd.
- 72: BOS, Louis Westra

33: ZA 31: 2020/06785 32: 2020-10-30

54: TRANSPORT ARRANGEMENT 00: -

A transport arrangement for a transport truck is provided, the transport truck comprising at least one trailer supported by a pair of spaced apart axles with wheels that extend across an underlying support beam, with unused, dead space being defined between the axles. The transport arrangement

comprises a carrier box for carrying a product, the carrier box being secured to the underlying support beam and having side portions that extend on either side of the underlying support beam to occupy the dead space defined between the axles. In an embodiment, a conventional container for holding goods can be secured on top of a support deck defined by the underlying support beam and/or the trailer, so as to overlie and cover the underlying carrier box.



21: 2021/08361. 22: 2021/10/28. 43: 2022/06/20 51: C08J

71: Henkel AG & Co. KGaA

72: MONESI, Alessio, SALMOIRAGHI, Eleonora, SIGNORILE, Marco, ZAFFARONI, Giorgio 33: EP(DE) 31: 19166067.9 32: 2019-03-29 54: PROCESS FOR MODIFYING THE SURFACE POLARITY OF RUBBER SUBSTRATES 00: -

The present invention relates to a process for modifying the surface polarity of elastomeric rubber substrates to facilitate their cold bonding to other rubber substrates or non-elastomeric substrates of a different material, preferably metal, by chlorinating the rubber substrate surface by treatment with a chloride-containing composition and a peroxymonosulfate-containing composition. Further aspects relate to the thus obtained surface-modified rubber substrates, processes of bonding them to other substrates by use of an adhesives as well as the thus obtained bonded substrates.

21: 2021/08414. 22: 2021/10/29. 43: 2022/07/14 51: H02G

71: PRATLEY INVESTMENTS (PTY) LTD 72: BREEDT, Sven Johann, ROOS, Aldo Juan 33: ZA 31: 2020/07515 32: 2020-12-03 54: FLAMEPROOF JUNCTION BOX

00: -

A non-metallic flameproof junction box which includes an enclosure comprising a body and a lid engageable with the body to form a substantially enclosed volume, at least one port to the volume and at least one conductive insert engaged with the port for receiving a cable gland to provide direct entry of the cable gland to the volume.



21: 2021/08426. 22: 2021/10/29. 43: 2022/06/08 51: E04B

71: SHANDONG BINAO WIRE & CABLE CO., LTD. 72: DONG GUIGUANG, DONG FEI, CHEN MENGMENG, YANG ZHEN, DU QIANQIAN, CHANG SHUOJIN, GUO, Ruichao 33: CN 31: 202122078745.8 32: 2021-08-31 54: ADJUSTMENT DEVICE AND METHOD FOR FLEXIBLE WALL SURFACE UNDER DROPLET IMPACTION

00: -

The present invention provides an adjustment device and method for flexible wall surface under droplet impaction which includes a base serving, a staybolt, an experiment substrate and a wall surface to be tested, the periphery of the wall surface to be tested is fixed to the upper surface of the experiment substrate by adhesion agent and its inclination angle is adjusted by the adjusting the left two staybolts and right two staybolts respectively on the experiment substrate to different heights; and a plurality of through holes are uniformly configured evenly on the experiment substrate below the wall surface to be tested and are provided with an wall surface adjusting bolt used to perform push-out and apply force on the wall surface to be tested to allow the wall surface to be tested to present desired curved shape. The adjustment device and method for a flexible wall surface under droplet impaction of the present disclosure allow the wall surface to be tested

to present different inclination angles, which satisfies requirements of the experiment of droplet impaction on wall surface on inclined wall surface; and the wall surface to be tested can present different curved surface, which satisfies requirements of the experiment for droplet impaction on wall surface with different curved surfaces.



21: 2021/08680. 22: 2021/11/05. 43: 2022/06/29 51: B05C

71: ATN HÖLZEL GMBH

72: Uwe SCHMIDT, Bernd SCHEIBE, Uwe HAASE 33: DE 31: 10 2019 112 361.5 32: 2019-05-10 33: DE 31: 10 2019 112 659.2 32: 2019-05-14 54: METHOD AND APPLICATOR FOR CONTINUOUS SEQUENTIAL APPLICATION OF TWO OR MORE VISCOUS MATERIALS OR FLUIDS

00: -

The object of the invention is to make available a method and an applicator for continuous sequentially separate application of two or more viscous materials or fluids, wherein, in one operating cycle, two or more adhesives can be applied continuously in a track or line successively or alternately or sequentially, and different adhesives can thus be applied successively without interruption as a continuous track or line or as a ring thereof. In the corresponding method, the respective volumetric flows of the viscous materials or fluids are controlled such that they are applied in succession. The corresponding applicator comprises a feed device extending in a longitudinal direction and having two or more feed channels adjacent to one another in the longitudinal direction, for the separate conduction of the viscous materials or fluids, the feed channels each comprising a material inlet or

fluid inlet and a material outlet or fluid outlet lying at opposite axial ends of the feed channels.



21: 2021/08684. 22: 2021/11/05. 43: 2022/06/20 51: B01D; C10C; D06N; E01C; F23G; F23J 71: Valli Zabban S.p.A. 72: OLMI, Eugenio 33: IT 31: 102019000006601 32: 2019-05-07 54: A SYSTEM FOR ELIMINATING BAD-

SMELLING EMISSIONS FROM INDUSTRIAL PROCESSES 00: -

A process is described, as well as a plant, for treating a raw vent gas (4,4') containing bitumen vapours and released by a piece of equipment (1) of a polymer-bitumen membranes production line, in which operations are carried out involving a filler powder (3), such as an operation of mixing the filler powder (3) with the bitumen (2), during which the raw vent gas (4,4') is changed from a substantially powder-free raw vent gas (4), into a raw vent gas (4') containing the filler powder (3). The process includes steps of first conveying the raw vent gas (4,4') into a gas-washing device (20) along with a solution (9) of

a surfactant; contacting the raw vent gas (4,4') with the solution (9) and removing the powder from the powder-containing gas (4'), releasing a purified vent gas (5) that is substantially free from the filler powder; conveying the purified vent gas (5) into a boiler (40) and burning the bitumen vapours. In a preferred exemplary embodiment, it is conveyed in the gas-washing device only the powder- containing gas (4') produced during the operations of the piece of equipment (1) that involve the filler powder (3), while in the remainder steps the substantially powder-free raw vent gas (4) is directly conveyed into the boiler (40) by a direct vent line (50) that can be automatically selected. In a preferred exemplary embodiment, the gas-washing device comprises a tank (25) configured to form inside a predetermined head of the washing solution (9) and having an inlet port for the raw vent gas arranged below the liquid head. The process prevents the powder from quickly reaching the boiler (40) making the burner and the heat- exchange surfaces ineffective.



21: 2021/08698. 22: 2021/11/08. 43: 2022/06/29 51: H05K 71: KEYADO (Pty) Ltd 72: VAN NUGTEREN, Carlette **54: AIRFLOW MANAGEMENT** 00: -

The invention is for a blanking plate, which includes a planar body shaped and dimensioned to cover an opening in an equipment rack and magnetic attachment means on the planar body, for removably attaching the planar body onto a metal part of the equipment rack, over the opening. Furthermore, the planar body includes alternative fastening means in the form of apertures arranged onto the planar body to match corresponding apertures and/or dowels on the equipment rack.



21: 2021/08761. 22: 2021/11/08. 43: 2022/06/22 51: A61L; B65G 71: FRAMATOME GMBH, BBF STERILISATIONSSERVICE GMBH 72: SIEGELIN, Steffen, BIEBER, Oswald, JANDL, Johannes

54: SYSTEM FOR STERILISING STERILISATION UNITS AND METHOD FOR OPERATING SUCH A SYSTEM

00: -

A system (1) for sterilizing sterilization units (100) by radiation exposure, in particular, for sterilizing sterilization units (100) containing medical objects by radiation exposure, comprises a conveyance system (8) for transporting sterilization units (100) through a sterilizing environment along a conveying path. The sterilizing environment is exposed to radioactive radiation from a radiation source (2). At least one conveyance section (F3, F4, F5, F6, F7, F8, F9, F10) of the conveying path extends along the periphery of the radiation source (2). The radiation source (2), for example, a Co 60 source, thereby emits gramma radiation. According to the invention, the conveyance system (8) comprises at least one lifting beam conveyor (12) with at least one stationary supporting beam (32) and at least one movable lifting beam (34), which is movable with respect to the at least one stationary supporting beam (32) in a longitudinal and a vertical direction. The at least one stationary supporting beam (32) has a central region between two fixed bearings (46), which is supported via at least one tensileloaded tensile element (42), which is fastened to the central region and to at least one vertical strut (48), which is arranged in the region of at least one of the

fixed bearings (46), in such a manner that the tensile element (42) extends in a direction diagonal to the longitudinal and the vertical direction.



21: 2021/08891. 22: 2021/11/10. 43: 2022/06/28 51: A61B; A61F; B63B 71: TACTICAL MEDICAL SOLUTIONS, LLC

72: JOHNSON, Ross A., HESTER, Richard Alan, HULSEY CORY

33: US 31: 62/845,051 32: 2019-05-08 54: WINDLASS TOURNIQUET

00: -

Present invention is directed to a tourniquet having a base including at least first and second sections and having a cap attached to one of the sections. A compression strap is attached to the base and extends across the base. A windlass handle is provided and includes a strap aperture through which the compression strap is threaded through and stitched to itself. A locking strap extends across and is attached to the cap. A handle stop engages the locking strap such that the handle stop freely slides along the handle strap. A strap connector assembly is provided and includes a buckle frame and a self-cinching sliding arm transversely extending from a first side of the buckle frame to a second opposing side of the buckle frame, a sliding arm configured to slide along the buckle frame. A buckle connector is attached to the compression strap to engage the buckle frame.



21: 2021/08900. 22: 2021/11/10. 43: 2022/06/28 51: A61K; A61P

71: TOLEROGENIXX GMBH, UNIVERSITÄT HEIDELBERG

72: Christian MORATH, Anita SCHMITT, Matthias SCHAIER, Gerhard OPELZ, Peter TERNESS, Christian KLEIST, Volker DANIEL, Caner SÜSAL, Michael SCHMITT, Martin ZEIER 54: MIC THERAPY FOR SPECIFIC

IMMUNOSUPPRESSION IN TRANSPLANTATION

The present invention relates to pharmaceutical compositions with isolated and treated whole blood cells or Peripheral Blood Mononuclear Cells (PBMCs) as well as such pharmaceutical compositions for use in the prevention and / or treatment of organ or cell graft rejection in a human graft recipient.

21: 2021/08941. 22: 2021/11/11. 43: 2022/06/28 51: H01Q

71: POYNTING ANTENNAS (PTY) LIMITED

72: FOURIE, Andries Petrus Cronje, NITCH, Derek, Colin

33: ZA 31: 2019/04391 32: 2019-07-04 54: HELICAL ANTENNA 00: -

An antenna 10 comprises a single wire wound in a helix 12 comprising a plurality of turns 1, 2, 3, n, n+1, ...p around a main axis 11 with immediately adjacent turns having an inter-turn spacing between them. The helix has a back end 14 and a front end 16 and the main axis defines a main beam direction. A

transverse cross-sectional area of the helix monotonously decreases from the back end 14 to the front end 16. The inter-turn spacing S1...Sn ... monotonously decreases from the backend 14 to the front end 16. A feed-point 13 is provided at the back end 14.



- 21: 2021/08956. 22: 2021/11/11. 43: 2022/06/22 51: E21D; G01B; G01D
- 71: ThingWave AB
- 72: ELIASSON, Jens
- 33: SE 31: 1950575-9 32: 2019-05-15 54: DEVICE AND METHOD FOR MEASURING DEFORMATION IN METALLIC BARS 00: -

A device (20; 30; 40) for measuring strain in an elongated metallic bar (10), the device (20; 30; 40) comprising a housing (25; 35; 45) arranged to be secured to the metallic bar (10), at least one optical sensor (15), at least one light source (16) arranged to emit light across an interior space of the housing (25; 35; 45), and a thread (17) arranged freely movable within a sheath (11) and having a proximal end (18) extending to a distal end (29; 39) of the housing (25; 35; 45) and a distal free end arranged to be attached to the metallic bar (10) at a distance

from the housing (25; 35; 45) such that longitudinal deformation of the metallic bar (10) causes displacement of the proximal end (18) of the thread (17) in relation to the housing (25; 35; 45), and wherein the at least one optical sensor (15) is configured to measure the displacement of the proximal end (18) of the thread (17) by measuring light emitted from the at least one light source (16).



21: 2021/08996. 22: 2021/11/12. 43: 2022/06/20 51: A61K 71: VALO THERAPEUTICS OY 72: CERULLO, Vincenzo, CAPASSO, Cristian, FEOLA, Sara, TAHTINEN, Siri 33: GB 31: 1907413.7 32: 2019-05-24 54: VIRAL VECTOR 00: -

The invention concerns a viral vector with modified viral capsid or viral envelope; a pharmaceutical composition or immunogenic agent or vaccine comprising same; a target cell transformed or transfected with same; a combination therapeutic comprising same; use of same in treatment of cancer, and a method of treating cancer using same.



21: 2021/09005. 22: 2021/11/12. 43: 2022/06/22 51: A61K; A61P; C07D 71: Antios Therapeutics, Inc.

72: DE FRANCESCO, Raffaele, DONNICI, Lorena, GUIDOTTI, Luca, IANNACONE, Matteo, DI FABIO, Romano, SUMMA, Vincenzo, PRANDI, Adolfo, RANDAZZO, Pietro, IVANOVA BENCHEVA, Leda, DE MATTEO, Marilenia, FERRANTE, Luca, GORNATI, Davide, GRILLO, Alessandro 33: EP(IT) 31: 19176238.4 32: 2019-05-23 54: OXALAMIDO-SUBSTITUTED TRICYCLIC INHIBITORS OF HEPATITIS B VIRUS 00: -

The present invention relates to compounds that are inhibitors of hepatitis B virus (HBV). Compounds of this invention are useful alone or in combination with other agents for treating, ameliorating, preventing or curing HBV infection and related conditions. The present invention also relates to pharmaceutical compositions containing said compounds.

21: 2021/09007. 22: 2021/11/12. 43: 2022/06/21 51: G01N

71: F. Hoffmann-La Roche AG 72: BERG, Max, HAILER, Fredrik, LIMBURG, Bernd, SKURIDINA, Daria, TUERCK, Volker, WINKELNKEMPER, Momme 33: EP(CH) 31: 19182555.3 32: 2019-06-26 54: METHOD OF DETERMINING A CONCENTRATION OF AN ANALYTE IN A BODILY FLUID AND MOBILE DEVICE CONFIGURED FOR DETERMINING A CONCENTRATION OF AN ANALYTE IN A BODILY FLUID 00: -

A method of determining a concentration of an analyte in a bodily fluid by using a mobile device (110) having a camera (112) is proposed. The method comprises the following steps: a) taking a series of calibration images (114) of at least one region of interest (116) of an object (118) by using the camera (112), wherein the calibration images (114) differ in their brightness; b) deriving from each calibration image (114) of the series taken in step a) at least one key calibration figure (137) characteristic for a tone mapping function of the mobile device (110); c) determining at least one probable tone mapping function (120) of the mobile device (110) by taking into account the key calibration figures (137) from the calibration images (114) of the series taken in step a); d) taking at least one analysis image of at least part of a test field (122) of an optical test strip (124), the test field (122) having the bodily fluid applied thereto; and e) determining the concentration of the analyte in the bodily fluid from the analysis image of the test field (122) by taking into account the probable tone mapping function (120) of the mobile device (110).



21: 2021/09008. 22: 2021/11/12. 43: 2022/06/21
51: E06B; F24F
71: Mestek, Inc.
72: MOYER, Kenneth L.
33: US 31: 16/502,502 32: 2019-07-03
54: LOUVER ASSEMBLY
00: A louver assembly for placement in an opening for

A louver assembly for placement in an opening for regulating the inlet of air includes a first blade stack having a plurality of elongated blades mounted within a frame having an upper frame member and a lower frame member, the lower frame member defining a sill, and a windbreak positioned adjacent to a front face of the louver assembly and extending from a point above the sill to a point below the sill. The windbreak is configured to divert wind at the front face of the louver assembly above the sill to facilitate draining of water from the louver assembly.


- 21: 2021/09021. 22: 2021/11/12. 43: 2022/06/28 51: B01J 71: GULL CORPORATION LTD
- 72: GIBSON, Gary
- 72. GIDSON, Galy
- 33: GB 31: 1907655.3 32: 2019-05-30 54: APPARATUS AND METHODS FOR THE MANUFACTURE OF SYNTHETIC DIAMONDS
- 00: -

An apparatus for the manufacture of synthetic diamonds comprises a pressure vessel having a chamber therein, and a body located in the chamber. The pressure vessel and the body are formed of materials having different coefficients of expansion. The coefficient of expansion of the body is greater than the coefficient of expansion of the pressure vessel. The pressure vessel is formed from a material having a melting point in excess of 1327°C and capable of withstanding a pressure of at least 4.4Gpa at a temperature of at least 1327°C. The chamber is configured to receive the body, and a carbon source, the apparatus further comprising a heating means configured to heat at least the body to a temperature at least of 1327°C. The coefficient of expansion of the body is selected such that upon heating thereof to at least 1327°C the pressure exerted on the carbon source is at least 4.4Gpa.



21: 2021/09057. 22: 2021/11/15. 43: 2022/06/22 51: G07F G07D G06Q 71: JCM AMERICAN CORPORATION 72: KUBAJAK, David, C. 33: US 31: 16/855,089 32: 2020-04-22 33: US 31: 62/852,013 32: 2019-05-23 54: CURRENCY TRACKING AND ACCOUNTING SYSTEMS 00: -

Devices, systems and methods are provided to enable casino operators to track and account for printed casino currency items. In one example, a currency accounting system includes a currency scanner, a network communications interface, and a processor. The processor is configured to receive, from the currency scanner, an identifier of a printed casino currency item; transmit the identifier of the printed casino currency item via the network communications interface to a remote currency tracker; receive, via the network communications interface and in response to transmission of the identifier of the printed casino currency item, an identifier of a currency acceptance location through which the printed casino currency item passed; and generate a currency report using the identifier of the printed casino currency item and the identifier of the currency acceptance location.



21: 2021/09065. 22: 2021/11/15. 43: 2022/06/22 51: B21D; E04B; F24J 71: Solar Dynamics, LLC 72: MARCOTTE, Patrick David, STEGALL, Nathaniel Charles 33: US 31: 62/845,646 32: 2019-05-09 54: STRUCTURES AND TECHNIQUES FOR

SOLAR COLLECTORS

Structures and techniques for solar collectors are described. In accordance with the described techniques, a structural assembly of a solar collector may include various members that are configured to carry torsional and bending loads with relatively low deflections between a reflector and a receiver. In some examples, the described structural assemblies may include a set of edge-sharing tetrahedra or tetrahedral volumes aligned along an axis, which may be supported by chord members that are parallel to the axis. In some examples, the described structural assemblies may include sets of co-rotating and counter-rotating helical structural paths, which may be connected or supported by structural members that are perpendicular to an axis of the helical structural paths, or members that are parallel to an axis of the helical structural paths, or various combinations thereof.



21: 2021/09069. 22: 2021/11/15. 43: 2022/06/03 51: C07K

71: Memorial Sloan-Kettering Cancer Center 72: ADUSUMILLI, Prasad S., SADELAIN, Michel 33: US 31: 62/848,983 32: 2019-05-16 54: MESOTHELIN CARS AND USES THEREOF 00: -

The presently disclosed subject matter provides polypeptide compositions comprising a chimeric antigen receptor (CAR) that targets mesothelin; and a dominant negative form of programmed death 1 (PD-1 DN). Also provided are immunoresponsive cells comprising such polypeptide compositions and uses of the polypeptide compositions and immunoresponsive cells for treatment, e.g., for treating solid tumors.



21: 2021/09176. 22: 2021/11/17. 43: 2022/06/28

51: B60T; F16D

71: New York Air Brake, LLC

72: CALL, Derick

33: US 31: 16/434,227 32: 2019-06-07 54: BRAKE EQUIPMENT WEAR MONITORING FOR REMAINING USEFUL LIFE

00: -

A system for monitoring usage of rail car brake equipment and determining whether the actual lifespan of the brake equipment is shorter than an expected lifespan had the brake equipment been used under normal or constant parameters. The system includes a sensor for collecting and outputting data indicating how the brake equipment has been actually used. A controller is programmed

to receive the data regarding how the brake system component has been used and to calculate whether the brake system component has an estimated lifespan that is shorter than the expected lifespan. The sensor may comprise an ambient temperature sensor, a flow sensor that determines the air used by the braking system that includes the brake system component, and/or a pressure sensor that can determines how frequently and in what manner the brake system has been used.



21: 2021/09183. 22: 2021/11/17. 43: 2022/06/28 51: A61K; C07D; A61P

71: MANKIND PHARMA LTD.

72: RAI, Santosh Kumar, BANDGAR, Mahadev, ALI, Sazid, RAI, Himanshu, GUNJAL, Amol Pandurang, PATIL, Rakesh Iswar, BAPURAM, Srinivasa Reddy, KUMAR, Anil

33: IN 31: 201911021098 32: 2019-05-28 54: NOVEL COMPOUNDS FOR INHIBITION OF JANUS KINASE 1

00: -

An object of the invention is to provide compounds as selective JAK1 inhibitor, a process for preparation of the inhibitors, a composition containing the compounds and utility of the compounds.

21: 2021/09328. 22: 2021/11/22. 43: 2022/06/21 51: F01L; F16K

71: EDUAN-TEK VERVAARDIGINGS BK 72: JOHANNES JACOBUS NAUDE, JOHANNES ALBERTUS NAUDE

33: ZA 31: 2020/07271 32: 2020-11-23 33: ZA 31: 2020/07369 32: 2020-11-26 33: ZA 31: 2021/00007 32: 2021-01-04 33: ZA 31: 2021/00828 32: 2021-02-05

54: AN ADJUSTABLE FLOAT-CONTROLLED VALVE

00: -

The invention provides an adjustable float-controlled valve for adjusting maximum liquid levels in a reservoir. The float-controlled valve comprises a housing unit having a liquid passage through it; a sealing cap located within the liquid passage; a valve unit which is displaceable between a closed position and an open position; a movable weighted first float; a lever unit which pivotally connects the first float to the housing unit and which displaces the valve unit to an open position when a liquid level falls below a predetermined first level; and adjusting means for adjusting positioning of the first float relative to the lever unit to provide means for adjusting the predetermined first liquid level.



21: 2021/09329. 22: 2021/11/22. 43: 2022/06/22 51: F24S

71: Cobra Instalaciones y Servicios, S.A.

72: CANCHO VERA, José Carlos, SÁNCHEZ MATAMOROS, Francisco

33: ES 31: P202031171 32: 2020-11-23 54: METHOD FOR REPAIRING OR IMPROVING ABSORBER TUBES WITH A LOSS OF THERMAL INSULATION OF OR FOR SOLAR THERMAL INSTALLATIONS

00: -

The invention relates to a method which comprises making a hole (8) in a metallic support (6) of an absorber tube (1), putting a vacuum pump (7) in fluid communication with the chamber (5) of the absorber tube (1) by means of the hole (8), actuating the vacuum pump (7) to generate a vacuum in the chamber (5) until reaching a predetermined vacuum threshold, and introducing an inert gas (22) inside the chamber (5) and performing a plurality of sweeps

with said inert gas (22), removing hydrogen from the chamber (5), allowing to thus reduce or remove the accumulation of hydrogen in said chamber (5), such that, as a result, at least part of the hydrogen absorption capacity of the getter material is recovered.



21: 2021/09367. 22: 2021/11/22. 43: 2022/06/21 51: A41D; B05D; B29C; B32B 71: UVEX SAFETY Gloves GmbH & Co. KG 72: KLOTH, Karina, BARTUSCH, Matthias 33: DE 31: 10 2019 114 691.7 32: 2019-05-31 54: ELECTROSTATICALLY DISSIPATING PROTECTIVE GLOVE

00: -

The invention relates to an electrostatically dissipating protective glove and to a method for manufacturing a corresponding protective glove. The protective glove has a polymer foam layer the volume resistivity of which is reduced to a desired value by adding carbon fibers.



21: 2021/09373. 22: 2021/11/22. 43: 2022/06/22 51: H02M; H05B 71: ABB Schweiz AG 72: STEIMER, Peter Karl 33: EP(CH) 31: 19182897.9 32: 2019-06-27

54: ARC FURNACE POWER SUPPLY WITH CONVERTER CIRCUIT

00: -

A power supply system (12) for an electric arc furnace (10) comprises an AC input (20) connectable to an electrical grid (22) and an AC output (24) for supplying at least one power electrode (14) of the arc furnace (10). The power supply system (12) further comprises a converter circuit (46a, 46b, 46c) interconnected between the AC input (20) and the AC output (24). The converter circuit (46a, 46b, 46c) comprises at least one converter cell (64) with a capacitor (108) and semiconductor switches (104) for series connecting the capacitor between a circuit input (56) and a circuit output (58) of the converter circuit (46a, 46b, 46c).



21: 2021/09389. 22: 2021/11/23. 43: 2022/06/24 51: H04N

71: Huawei Technologies Co., Ltd., University of Science and Technology of China
72: LV, Zhuoyi, LI, Li, LI, Houqiang, YANG, Haitao
33: CN 31: 201510543542.8 32: 2015-08-29
54: IMAGE PREDICTION METHOD AND DEVICE
00: -

An image prediction method and device are disclosed. The method includes: obtaining a first reference unit of an image unit, where respective predicted images are obtained for the image unit and the first reference unit by using a same affine model; obtaining motion information of basic motion compensation units at two or more preset positions in the first reference unit; and obtaining motion information of a basic motion compensation unit of the image unit according to the motion information. In this way, motion information of the first reference unit using a same affine prediction model is reused, and a more accurate motion vector of a current image unit is obtained, improving prediction accuracy and maintaining encoding and decoding complexity, thereby improving encoding and decoding performance.



- affine model motion information about a neighbouring block, and if it is determined that the current block to be processed multiplexes the affine model motion information about the neighbouring block, proceeding to step \$1200 S1200 Determining an affine motion prediction unit as the reference of the current
- block to be processed S1300 Acquiring position information and motion information about a control point of the affine motion prediction unit
- the affine motion prediction unit \$1400 According to position information and motion information about the above three selected control points, acquiring prediction motion information about pixels of the image block

51500 According to an acquired prediction direction, a reference frame index and a prediction motion vector, performing motion compensation, to find prediction values of pixels of the image block to be processed, wherein prediction values of all pixels form a prediction image of the image to be processed

21: 2021/09419. 22: 2021/11/23. 43: 2022/06/20 51: A61K; C07D; A61P 71: VIVORYON THERAPEUTICS N.V. 72: RAMSBECK, Daniel, TAN, Kathrin, SCHLENZIG, Dagmar, BUCHHOLZ, Mirko, CYNIS, Holger, SCHILLING, Stephan 33: EP 31: 19180240.4 32: 2019-06-14 54: HETEROAROMATIC INHIBITORS OF ASTACIN PROTEINASES 00: -

The present invention relates to novel hydroxamic acid derivatives useful as inhibitors of astacin metalloproteinases, in particular procollagen Cproteinase (PCP) enzymes, meprins, ovastacin and/or nematode astacins; more particularly human or mammalian meprin a, meprin ß, BMP-1, ovastacin and/or DPY-31 from nematodes; pharmaceutical compositions comprising such compounds; methods for treatment or prophylaxis of diseases or conditions, especially such that are related to said metalloproteinases; and compounds and pharmaceutical compositions for use in such methods. 21: 2021/09439. 22: 2021/11/23. 43: 2022/06/20 51: G06T

71: STELLENBOSCH UNIVERSITY

72: LOOS, Benjamin, NIESLER, Thomas Richard, THEART, Rensu Petrus

33: ZA 31: 2019/02511 32: 2019-04-23 54: METHOD AND SYSTEM FOR VISUALISING COLOCALISED FLUORESCENCE SIGNALS 00: -

A computer-implemented method and a system are provided for visualising colocalised fluorescence signals. The method accesses signal intensity data obtained from a first fluorescence channel and a second fluorescence channel in which the signal intensity data is associated with voxels in an image. A regression factor on the signal intensity data is calculated to generate a regression parameter corresponding to a degree of correlation between the signal intensity data obtained from the first and second fluorescence channels. The signal intensity data is mapped to the regression parameter and colourmap values are assigned to each voxel based on the mapped signal intensity data in which colourmap values of voxels embodying poorly correlated signal intensity data are reduced. The method renders the voxels in the image in colours according to their colourmap values to visualise colocalisation in the image.



21: 2021/09440. 22: 2021/11/23. 43: 2022/07/22 51: A23L; A23P

71: MCCAIN FOODS LIMITED
72: KIRTLEY, Nigel, LAUDANO, Raymond J.,
SPORS, Derek E., SPIZZIRRI, Lora Nicolette
33: US 31: 62/859,542 32: 2019-06-10
33: US 31: 16/894,116 32: 2020-06-05
54: IMPROVED PROCESS FOR PRODUCING A
LIQUID POTATO PRODUCT

00: -

A liquid potato-derived product may be produced from whole raw potatoes and may be utilized to produce various healthy food products, such as dips and sauces. This liquid potato product may be produced from raw potato by pretreating the potatoes, gelatinizing the pretreated potatoes, shearing the gelatinized potatoes under specific milling temperatures and conditions to produce a sheared potato product with desirable particle sizes, and then cooking the sheared potato product to form the liquid potato product.



21: 2021/09441. 22: 2021/11/23. 43: 2022/07/22 51: A23D; A23L 71: MCCAIN FOODS LIMITED 72: KIRTLEY, Nigel, LAUDANO, Raymond J., SPORS, Derek E. 33: US 31: 62/859,542 32: 2019-06-10 33: US 31: 16/894,095 32: 2020-06-05 54: LIQUIFIED POTATO PRODUCT AND PROCESS

00: -

The invention relates to the field of radio-frequency identification, in particular, to materials containing radio-frequency tags in their layers and intended for printing and stamping by commonly available printing methods. The technical result of the invention is to obtain the flexible flat sheet material in which the chips and other electronic components do not affect the level of the sheet material surface flatness. The flat sheet material with radio frequency identification contains the sequentially arranged first layer of flexible material, the first intermediate layer, the substrate layer with an antenna and a chip, the second intermediate layer, the second layer of flexible material, and the first intermediate layer made of the polymer composite.



21: 2021/09442. 22: 2021/11/23. 43: 2022/06/20 51: C07C; C07D; C07G; C08J; C08L 71: STELLENBOSCH UNIVERSITY 72: SIBANDA, Ndumiso, PASCH, Harold, PFUKWA, Helen 33: ZA 31: 2019/02602 32: 2019-04-25 54: METHOD OF DEPOLYMERISING PHENOLIC POLYMERS 00: -

The invention provides a method for depolymerising a phenolic polymer, the method comprising reacting the phenolic polymer with dimethylsulphoxide

(DMSO) and a hydrogen halide. The phenolic polymer may be selected from the group consisting of lignin and derivatives thereof. The hydrogen halide may be HBr. The quantity of hydrogen halide per gram of phenolic polymer may be from 30 mmoles to 70 mmoles. The quantity of DMSO per gram of phenolic polymer may be from 0.1 mole to 1 mole. The reaction may be performed at a temperature of from 100 to 120 °C. The reaction may be carried out for between 10 h and 14 h. The product of the reaction may comprise vanillin.



21: 2021/09444. 22: 2021/11/23. 43: 2022/07/19 51: A61B: A61F

71: EQUINDON LTD.

72: KHOURY, Bashir, MENIS, Michael, KAHANA, Shay

33: US 31: 62/851,689 32: 2019-05-23

33: WO 31: PCT/IB2020/054941 32: 2020-05-25 54: TENDON CONNECTORS AND SYSTEM FOR USE

00: -

The present disclosed subject matter is directed to a connector and system of these connectors, for connecting tissues such as torn, severed, or ruptured tendons. The connector comprises: a body including oppositely disposed first and second ends and laterally dis-pose sides, and each of the laterally disposed sides including at least one lateral spike, the at least one lateral spike moveable between a first position, where each of the at least one lateral spikes is substantially flush with a respective lateral surface of the body, and a second position, where each of the at least one lateral spikes extends outward, so as to protrude from the respective lateral side of the body.



21: 2021/09508. 22: 2021/11/24. 43: 2022/07/14 51: C09C

71: NIUTECH ENVIRONMENT TECHNOLOGY CORPORATION

72: ZHONG Suili, ZHOU Chen, WANG Dalong, YU Aili, ZHANG Guangzhen, HAN Guoqian
33: CN 31: 202111174075.8 32: 2021-10-09
54: PROCESS AND DEVICE FOR SECONDARY TREATMENT OF PYROLYTIC CARBON BLACK
00: -

This invention provides a process and device for secondary treatment of pyrolytic carbon black, which comprises a carbon black storage tank, a carbon black secondary pyrolysis device and a carbon black multi-staged cooling device. The carbon black secondary pyrolysis device comprises a rotatable inner barrel body and an outer barrel body, and a hot air cavity is formed between the inner barrel body and the outer barrel body; the carbon black multistage cooling device is composed of a carbon black primary cooler and a carbon black secondary cooler in series, and cooling water is adopted as a cooling medium; the device is adopted to treat pyrolytic carbon black, the content of the total petroleum hydrocarbon substance in the carbon black is reduced, the carbon black quality is improved, the carbon black quality can be further improved by adding the modifier, and the use of the carbon black is enriched.



21: 2021/09509. 22: 2021/11/24. 43: 2022/07/14 51: C10B; C10G 71: NIUTECH ENVIRONMENT TECHNOLOGY CORPORATION 72: ZHAO Fengjiao, LIU Ping, ZHANG Guangzhen, WU Yuanxu, WANG Dalong, NIU Bin
33: CN 31: 202111174073.9 32: 2021-10-09
54: MULTI-STAGED COOLING AND PURIFYING DEVICE FOR CRACKING OIL AND GAS
00: -

The invention belongs to the technical field of waste cracking, and particularly relates to a multi-staged cooling and purifying device for cracking oil and gas. The device comprises a first cooler and a second cooler which are arranged in series, wherein the two cooler structures are the same, both comprise an oil storage tank horizontally arranged, an oil-gas inlet tower and an oil-gas condensation tower are connected to the oil storage tank, an oil-gas inlet is formed in the side face of the first oil-gas inlet tower, and a flue gas circulation device is connected to the first oil-gas condensation tower; an oil-gas inlet is formed in the top of the second oil-gas inlet tower, and a cooling water circulating device is connected to the second oil-gas condensing tower; an oil outlet at the bottom of the first oil storage tank is connected with an inlet of the cracking device through a circulating pump; and a multi-staged cooling and purifying device for cracking oil and gas adopting the structure can send the residual oil enriched at the bottom to the cracking device for secondary cracking through the first cooler, so that the cracking efficiency is improved, meanwhile, the purity of the pyrolysis gas is improved through multistaged cooling, and comprehensive utilization of residual heat is achieved.



21: 2021/09510. 22: 2021/11/24. 43: 2022/07/14 51: C01G

71: NIUTECH ENVIRONMENT TECHNOLOGY CORPORATION

72: NIU, Xiaochuan, ZHANG, Guangzhen, ZHAO, Jianqiang, SU, Bo, ZHAO, Fengjiao, NIU, Xiaolu 33: CN 31: 202111174074.3 32: 2021-10-09 54: DEVICE FOR TREATING ILMENITE ORE BY USING PYROLYSIS PRODUCTS OF SOLID WASTES 00: -

This invention provides a device for treating ilmenite ore by using pyrolysis products of solid wastes, which comprises an ore preheating device, a pyrolytic reduction device and a multi-staged cooling device. The pyrolytic reduction device is equipped on the outer side with a heater which is connected to a flue gas heat exchanger. An inlet of the pyrolytic reduction device is connected with an outlet of the ore preheating device while an outlet of the pyrolytic reduction device is connected with the multi-staged cooling device. With such structure, the waste plastics and waste coke are sent into the pyrolytic reduction device together with the preheated ilmenite ore, and then reducing gas is obtained from the pyrolysis of waste plastics and waste coke in rising temperature to make the device fully enclosed in the reduction atmosphere. And then the reducing gas reacts with ilmenite ore in high temperature environment to produce pure iron and increase the actual content of FeTiO3. And next the temperature is reduced to about 40C after multiple stages of heat exchanging. The high temperature gas generated during heat exchanging is used as the heat source for the iron ore preheater, which realizes the comprehensive use of energy.



21: 2021/09511. 22: 2021/11/24. 43: 2022/07/14 51: G01N

71: SHAOXING UNIVERSITY

72: LIANG, Chaofeng, LI, Ran, HOU, Shaodan, GAO, Yueqing, HE, Zhihai, YANG, Jincheng, TIAN, Yuan

54: METHOD AND DEVICE FOR TESTING THE CONTENT OF RESIDUAL CARBON DIOXIDE GAS IN CARBON DIOXIDE-CURED RECYCLED AGGREGATE

00: -

The test method provided by the present disclosure comprises the following steps: firstly placing a to-betested CO2-cured recycled aggregate sample and deionized water into a test box, and then purging the air in the closed test box with a protective gas to make the closed test box achieve standard test requirements, and testing an initial pH of the deionized water in a container with a pH meter; mixing the to-be-tested CO2-cured recycled aggregate sample and the deionized water to obtain a to-be-tested CO2-cured recycled aggregate solution, and continuously monitoring a pH value of the to-be-tested CO2-cured recycled aggregate solution with the pH meter; and determining the maximum value and a stable value of the pH through a variation curve of the pH value of the to-be-tested CO2-cured recycled aggregate solution, and computing the mass of residual CO2 gas in the tobe-tested CO2-cured recycled aggregate sample according to a formula.



21: 2021/09638. 22: 2021/11/26. 43: 2022/06/22 51: B01J; C10G

71: LUMMUS TECHNOLOGY LLC 72: LIU, Zan, MEDINA BOLIVAR, Jackeline, KORPELSHOEK, Maurice, LEMOINE, Romain, SOM, Manoj

33: US 31: 62/852,744 32: 2019-05-24 54: FLEXIBLE PRODUCTION OF GASOLINE AND JET FUEL IN ALKYLATION REACTOR 00: -

Systems and processes for the flexible production of gasoline and jet fuel via alkylation of C4 and C5 olefins.



21: 2021/09656. 22: 2021/11/26. 43: 2022/06/22 51: A61K; C12N; C12R; A61P 71: WU, Zetang 72: WU, Zetang 33: CN 31: 201910462073.5 32: 2019-05-30 54: RECOMBINANT ONCOLYTIC VIRUS, PREPARATION METHOD THEREFOR, USE THEREOF AND MEDICINE THEREOF 00: -

Provided are a recombinant oncolytic virus, a preparation method therefor, the use thereof and a medicine thereof, wherein the genome sequence of the recombinant oncolytic virus includes the following exogenous elements: (1) a first expression cassette containing a first promoter and a first interfering RNA expression sequence; (2) a target sequence; and (3) a second expression cassette. The reproduction or replication of the recombinant oncolytic virus is regulated and controlled by exogenous elements inserted into the genome sequence thereof; by means of the regulation and control by the exogenous elements, the recombinant oncolytic virus can be selectively reproduced or replicated in different types of cells, and thus, second cells, that is, target cells (such as tumor cells), can be selectively killed, and first cells, that is, non-target cells (such as normal cells), are not damaged.



21: 2021/09658. 22: 2021/11/26. 43: 2022/07/07 51: C12Q

71: OXFORD BIODYNAMICS PLC
72: HUNTER, Ewan, RAMADASS, Aroul,
AKOULITCHEV, Alexandre
33: GB 31: 1906487.2 32: 2019-05-08
33: GB 31: 1914729.7 32: 2019-10-11
33: GB 31: 2006286.5 32: 2020-04-29
54: CHROMOSOME CONFORMATION MARKERS

OF PROSTATE CANCER AND LYMPHOMA

A process for analysing chromosome regions and interactions relating to prognosis of prostate cancer or DLBCL.



21: 2021/09712. 22: 2021/11/29. 43: 2022/06/22 51: C12N C12P

71: CJ CHEILJEDANG CORPORATION 72: BAEK, Mina, KWON, Su Yon, LEE, Imsang, SON, Seung-ju, LEE, Kwang Woo 33: KR 31: 10-2019-0119159 32: 2019-09-26 54: VARIANT DIHYDRODIPICOLINATE REDUCTASE POLYPEPTIDE AND METHOD OF PRODUCING L-THREONINE USING THE SAME 00: - The present application relates to a modified polypeptide with attenuated dihydrodipicolinate reductase activity, and a method for producing L-threonine by using same.

21: 2021/09727. 22: 2021/11/29. 43: 2022/06/29 51: G06T: G08B: H04N

71: ALPINE ALA TECHNOLOGIES OF SHANGHAI CO., LTD.

72: Zhou Lianhui

33: WO 31: PCT/CN2020/095783 32: 2020-06-12 54: SYSTEM AND METHOD FOR RESCUING WHALES BASED ON BIG DATA 00: -

The invention discloses a system based on big data for rescuing stranded whales and method thereof, including a plurality of video imagery monitoring points set on the seashore, the video imagery monitoring points are multiple wireless cameras, which are connected through a wireless network which is connected to a GPRS router, which is wirelessly connected to a wireless Ethernet switch through the Internet, and the wireless Ethernet switch is connected to a video server and an application server. The invention uses a wireless video monitoring network based on wireless webcams to monitor whether there are whales on the seashore, giving early warning signals. It also gives the good solution to rescuing if whales are stranded.



- 21: 2021/09777. 22: 2021/11/30. 43: 2022/07/22
- 51: A47J
- 71: KROG, August Wilhelm 72: KROG, August Wilhelm
- 54: COOKING POUCH
- 00: -

The invention relates to a cooking pouch suitable for grilling food which comprises a body of fire-resistant material having a sealable opening on one end, with at least part of the pouch body being netting. The netting part of the pouch body is in the form of a

mesh panel on opposed sides of the pouch body and is designed to comprise holes of a particular size to enable a user to flavour the food within the pouch body during cooking. The cooking pouch includes a means of closure to seal the sealable opening, in this example the means of closure being in the form of press studs.



21: 2021/09798. 22: 2021/11/30. 43: 2022/06/17 51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: FUCHS, Guillaume, MULTRUS, Markus,
DÖHLA, Stefan, EICHENSEER, Andrea
33: EP 31: 19179750.5 32: 2019-06-12
54: PACKET LOSS CONCEALMENT FOR DIRAC
BASED SPATIAL AUDIO CODING
00: -

A method for loss concealment of spatial audio parameters, the spatial audio parameters comprise at least a direction of arrival information; the method comprising the following steps: receiving a first set of spatial audio parameters comprising at least a first direction of arrival information; receiving a second set of spatial audio parameters, comprising at least a second direction of arrival information; and replacing the second direction of arrival information of a second set by a replacement direction of arrival information derived from the first direction of arrival information, if at least the second direction of arrival information or a portion of the second direction of arrival information is lost or damaged. To improve the concealment of lost or damaged direction of arrival, the replacement direction of arrival may additionally be dithered and/or extrapolated depending on a level of diffuseness.



21: 2021/09848. 22: 2021/12/01. 43: 2022/07/06 51: A01D; B60R; B62D 71: PENTAGON MAPLE LEAF INFORMATION TECHNOLOGIES OF KUNSHAN CO., LTD 72: Zhou Lianhui 33: WO 31: PCT/CN2020/122036 32: 2020-10-20 54: FOREST OPERATING TROLLEY

00: -

The utility model discloses a forest operating trolley, which includes a rubber crawler. The outer surface of the side end of the rubber crawler is provided with a bottom plate, the upper outer surface of the bottom plate is provided with a collection box, and the front end outer surface of the collection box is provided with a seat plate A support column is provided on the outer surface of the lower end of the seat plate, a control column is provided on the outer surface of the upper end of the bottom plate, a steering wheel is provided on the outer surface of the upper end of the control column, and a connecting block is provided on the outer surface of the front end of the bottom plate. The outer surface of the side end of the connecting block is provided with a rotating shaft, and the outer surface of the side end of the rotating shaft is provided with a rotating roller. The forest operation vehicle described in the utility model has a simple structure and diverse functions. It enables the operation vehicle to move with crawlers to cope with the complex forest ground, avoids the

wheel-type inability to walk on the complex terrain in the forest, and facilitates the collection of leaves. Driven by lithium battery, it has the functions of mowing and storage, improving transportation efficiency and good practical effect.



21: 2021/09849. 22: 2021/12/01. 43: 2022/07/06 51: A01G; B05B; G05D

71: VALMONT INDUSTRIES, INC. 72: THATCHER, Tracy A., MOELLER, Mark 33: US 31: 62/873,392 32: 2019-07-12 54: SYSTEM AND METHOD FOR DETECTING AND REMOVING DEFLECTION STRESSES FROM IRRIGATION MACHINE SPANS 00: -

The present invention relates generally to a system and method for detecting and adjusting the position of an irrigation span. More particularly, the present invention provides a system and method for detecting and removing deflection stresses from irrigation spans caused by corner arm positioning.



21: 2021/09850. 22: 2021/12/01. 43: 2022/07/06 51: A62C; B65G 71: PENTAGON MAPLE LEAF INFORMATION TECHNOLOGIES OF KUNSHAN CO., LTD 72: Zhou Lianhui

33: WO 31: PCT/CN2020/122037 32: 2020-10-20

54: WOODS TRANSPORTING SYSTEM FOR FOREST WOODS AND ITS METHODS THEREOF 00: -

The invention discloses a woods transporting system for forest woods and its method thereof, including a first transportation driving device set at the starting point of forest transportation, a second transportation driving device set at the forest transportation terminal, a first transportation driving device, and a second transportation driving device. The transportation belt is connected between the equipment. The transportation belt includes an upper transportation belt for transporting forest trees and a lower rotation belt for rotation. The lower part of the transportation belt is provided with a plurality of belt brackets. The upper part of the belt bracket is installed with a pulley through a supporting column. The lower revolving belt touches. The invention can transport the dead branches and leaves around the forest uphill and the transportation belt to the forest downhill to concentrate, and then concentrate them in a biomass energy gasification plant or a biological power plant for processing to generate new energy for reuse. This not only makes full use of the dead branches and leaves of the forest as new energy processing materials, but also cleans up the dead branches and leaves on the forest surface to avoid large-scale fires.



- 21: 2021/09897. 22: 2021/12/02. 43: 2022/07/04 51: D02G; D06B
- 71: Anhui Xinhong Textile Co., Ltd.

72: LIU, Pingli, LIU, Quluan 54: A FLAME RETARDANT AND WEAR RESISTANT ANTIMICROBIAL YARN AND ITS PRODUCTION PROCESS.

00: -

The invention discloses a flame retardant and wear resistant antimicrobial yarn. By uniformly mixing modified carbon fiber and skin-friendly fiber according to a certain mass ratio into a basic yarn, and after surface treatment of the basic yarn through a coating liquid, the flame retardant and wear

resistant antimicrobial yarn described in the invention is obtained. The fabric made of this yarn is soft and skin-friendly. The coating liquid is made by mixing polyvinyl alcohol and chitosan, which has good flame retardant and antimicrobial effects. The coating effect of the coating liquid can improve the bundling of the fiber, thereby improving the wear resistance of the yarn. The modified carbon fiber takes carbon fiber as raw material. Use carbon fiber to absorb calcium hydroxide, and then the hydrolysis reaction of ethyl acetate and calcium hydroxide is used to generate calcium acetate, which improves the roughness of the carbon fiber surface and improves the hydrophilicity of the carbon fiber to a certain extent; finally use polyurethane as the adhesive to uniformly attach the surface modified nano inorganic antimicrobial particles on the surface of the carbon fiber, which provides carbon fiber with good antimicrobial and antimicrobial effect.

21: 2021/09967. 22: 2021/12/03. 43: 2022/07/04 51: F03D

71: ZHOU LIANHUI

72: Gong Mao

33: CN 31: 2020105904597 32: 2020-06-24 54: DUAL BEVEL GEAR DEVICE ON WINDMILL 00: -

A dual bevel gear device on windmill, comprises a tower, a nacelle body shell, a main windmill shaft, a front windmill blade, a rear windmill blade and both compound gears at main and an auxiliary longitudinal axis, wherein the tower is erectly arranged at the bottom of the nacelle shell; the key connection on the main windmill shaft is provided with the front and rear bevel gear; the front bevel gear meshes with the compound gears of the main longitudinal axis in the drive connection; the compound gears of the main longitudinal axis is arranged on the upper end of the main longitudinal axis; the compound gear of the main longitudinal axis is meshed with the compound gear of the auxiliary longitudinal axis in the drive connection; the lower end of the main longitudinal axis passes through the nacelle body shell, protruding inside the tower; the lower end of the auxiliary longitudinal axis passes through the nacelle body shell, locating outside the tower; the outside nacelle body shell is arranged with a tail wing. In the present invention, the equipment can counteract the deflecting torque

with full balance, the equipment runs stably, saves energy, and improves overall reliability.



21: 2021/10000. 22: 2021/12/06. 43: 2022/07/04 51: B60T

71: DU PLESSIS, Hermanus Steyn

72: DU PLESSIS, Hermanus Steyn 33: ZA 31: 2020/05998 32: 2020-09-29

54: BRAKE ASSEMBLY

00: -

This invention relates to a brake assembly 10 that comprises an axle shaft 12 that includes a first splined section 14 at a first end 12.1 thereof which is configured to engage a differential of a vehicle in a known manner, and a second splined section 16 at an opposed second end 12.2 thereof. The brake assembly 10 further includes a brake unit 20 which comprises an annular housing 22 which includes a central portion 22.1 with a front cover 22.2 and a rear cover 22.3 attached to opposed sides of the central portion 22.1.



21: 2021/10051. 22: 2021/12/06. 43: 2022/07/04 51: B41F 71: NORDMECCANICA S.P.A. 72: CERCIELLO, Vincenzo 33: IT 31: 102019000007024 32: 2019-05-20

54: PRINTING DEVICE FOR A COUPLING MACHINE 00: -

The present invention relates to a flexographic printing device for a laminating machine, comprising at least one pair of shoulders (10a, 10b) mounted on a trolley frame (11), a blade chamber (13) for containing printing ink; an anilox roller (14) that rotates in contact with the printing ink, a print roller (30) holding a printing cliche that rotates in contact with the anilox roller (14) and a counter- pressure roller (15) that rotates in contact with the cliche held by the print roller (30), wherein at least the anilox roller (14) and the print roller (30) are supported by respective supports (16a, 16b, 31a, 31b) that can slide with respect to the shoulders (10a, 10b) in a direction substantially orthogonal to their axes, the printing device also comprising at least one first motor (19) for rotating the anilox roller (14), at least one second motor (50) for rotating the print roller (30) and possibly a third motor for rotating the counter-pressure roller (15).



21: 2021/10118, 22: 2021/12/07, 43: 2022/06/22 51: B01D 71: FOG FELLOW DESIGNS LTD 72: HIGGINS, Malcolm Christopher 33: GB 31: 1907783.3 32: 2019-05-31 54: GREASE RECOVERY UNIT 00: -A grease recovery unit, particularly for use in a food

service establishment, for separating oily substances from water in waste food has an inlet 2 connected via a valve 26 to a strainer 24, where solids are collected. The valve 26 is interlinked with the strainer 24 so that the valve closes the inlet 2 when the strainer 24 is removed. Oily substances from the food waste is separated from water by at least one hydrocyclone 30. Water that is separated is passed out of outlet 4 and the oily substances are passed into a collector 3. Fatty substances in the oily substances are held in a fluid state by a silicon heater pad 60.



21: 2021/10159. 22: 2021/12/08. 43: 2022/06/22 51: C12Q 71: EGI TECH (SHEN ZHEN) CO., LIMITED 72: LIAO, Sha, CHEN, Xi, CHEN, Ao, ZHANG, Wenwei, XU, Chongjun, CHEN, Hongmin, ZHAO, Jie, FU, Defeng 54: SINGLE-CHANNEL SEQUENCING METHOD **BASED ON SELF-LUMINESCENCE**

00: -

The present invention provides a sequencing method based on a single fluorescent dye, comprising using self-luminous signals for distinguishing the sequential incorporation of different nucleotides, thereby realizing the determination of a polynucleotide sequence.

21: 2021/10210, 22: 2021/12/09, 43: 2022/02/02 51: A61B

71: CHRISTOPHER, Kiran, ARAVINDAKSHAN, Ritwik, KOCHERIL, Rajesh, SUBRAMANIAN, Aby, SETHUMADHAVAN, Sooraj, VARRMA, Nandakisor Sunil, KUMAR, Saurav Santhosh, JOSEPH, Navin Mathirappilly, XAVIER, Sarath

72: CHRISTOPHER, Kiran, ARAVINDAKSHAN, Ritwik, KOCHERIL, Raiesh, SUBRAMANIAN, Abv. SETHUMADHAVAN, Sooraj, VARRMA, Nandakisor Sunil, KUMAR, Saurav Santhosh, JOSEPH, Navin Mathirappilly, XAVIER, Sarath

54: A SYSTEM FOR REMOTE MONITORING AND ASSESSMENT OF HEALTH VITALS AND A WEARABLE DEVICE THEREOF

00: -

The present invention generally relates to an internet of things integrated system for remote monitoring and assessment of health vitals. The system comprises a wrist band worn on a wrist in contact with a patient configured for evaluating temperature, humidity, pulse rate, oxygen saturation level, and location. Lastly, the system comprises a user interface wirelessly connected to the wrist band through a communication module for displaying the evaluated data into a graphical form.



21: 2021/10236. 22: 2021/12/09. 43: 2022/06/22 51: A61K; C07K; C12N

71: JIANGSU HENGRUI MEDICINE CO., LTD., SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD.

72: SHI, Jinping, YING, Hua, LI, Tingting, WANG, Yifang, YANG, Guimei, GE, Hu, TAO, Weikang 33: CN 31: 201910480579.9 32: 2019-06-04

54: ANTIBODY CAPABLE OF BINDING TO THYMIC STROMAL LYMPHOPOIETIN AND USE THEREOF

00: -

Disclosed are an antibody capable of binding to thymic stromal lymphopoietin and the use thereof. Disclosed are an anti-TSLP antibody, comprising a murine antibody, chimeric antibody and humanized antibody of the light chain and heavy chain variable regions of the anti-TSLP antibody and antigenbinding fragments thereof, or a pharmaceutically acceptable salt or solvent compound thereof, and the use thereof as a medicament for treating asthma, especially the use thereof in the preparation of a drug for treating TSLP-positive diseases or conditions.

21: 2021/10275, 22: 2021/12/10, 43: 2022/06/20 51: C08J; C10B; C10G; F28G 71: RUIZ HERRERA, Luis Javier 72: RUIZ HERRERA, Luis Javier 54: THERMOLYSIS SYSTEM AND METHOD FOR **OBTAINING RECOVERED CARBON BLACK AND** FUEL FROM DISUSED TYRES 00: -

The invention relates to a thermolysis system and method for obtaining recovered carbon black and fuel from disused tyres, which includes a thermolysis reactor and a flash vessel acting jointly to refine fuel and without the need for post-treatment to clean same. During thermolysis, condensers are cleaned without needing to cut the flow or deviate the gas stream, since the deposits formed inside tubes of the heat exchange system are cleaned using a part of the fuel obtained. The carbon black obtained is comparable to existing semi-reinforcing carbon blacks. The obtained fuel has a high content of aromatic compounds, and its carbon content is reduced to 3% by weight, up to 0.8% by weight, with respect to fuels obtained in pyrolytic processes, without requiring post-treatment such as distillation processes or catalytic treatment.



21: 2021/10293. 22: 2021/12/10. 43: 2022/06/22 51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: BOUTHÉON, Alexandre, FUCHS, Guillaume, MULTRUS, Markus, KÜCH, Fabian, THIERGART, Oliver, BAYER, Stefan, DISCH, Sascha, HERRE, Jürgen

33: EP 31: 19180385.7 32: 2019-06-14 54: PARAMETER ENCODING AND DECODING 00: -

There are disclosed several examples of encoding and decoding technique. In particular, an audio synthesizer (300) for generating a synthesis signal (336, 340, yR) from a downmix signal (246, x), comprises: an input interface (312) for receiving the down mix signal (246, x), the downmix signal (246, x) having a number of downmix channels and side information (228), the side information (228) including channel level and correlation information

 $(314, \xi, \chi)$ of an original signal (212, y), the original

signal (212, y) having a number of original channels; and a synthesis processor (404) for generating, according to at least one mixing rule, the synthesis signal (336, 340, yR) using: channel level and

correlation information (220, 314, $\xi,\,\chi)$ of the original

signal (212, y); and covariance information (Cx) associated with the downmix signal (324, 246, x).



Fig. 1 simplified overview of the whole processing

21: 2021/10350. 22: 2021/12/13. 43: 2022/06/21 51: A01N; C07D 71: Syngenta Crop Protection AG 72: WAILES, Jeffrey Steven, TATE, Joseph Andrew, INGRAM, Katharine Mary 33: GB 31: 1911429.7 32: 2019-08-09 54: 2-PHENOXY-PYRIMIDINE DERIVATIVES AS HERBICIDAL COMPOUNDS 00: -

The present invention relates to compounds of Formula (I), wherein A, R¹, R² n and p are as defined herein. The invention further relates to herbicidal compositions which comprise a compound of Formula (I) and to the use of compounds of Formula (I) for controlling weeds, in particular in crops of useful plants.



- 21: 2021/10352. 22: 2021/12/13. 43: 2022/06/20
- 51: A61K; A61P; C07D
- 71: F. Hoffmann-La Roche AG
- 72: KROLL, Carsten, REGGIANI, Flore, KOSAR, Miroslav, BIEDERMANN, Maurice, KUHN, Bernd,

HORNSPERGER, Benoit, GRETHER, Uwe, O'HARA, Fionn, RICHTER, Hans 33: EP(CH) 31: 19185088.2 32: 2019-07-09 54: NEW HETEROCYCLIC COMPOUNDS 00: -

The invention provides new heterocyclic compounds having the general formula (I) wherein R^1 , R^2 , X, and Y are as defined herein, compositions including the compounds, processes of manufacturing the compounds and methods of using the compounds.



21: 2021/10465. 22: 2021/12/15. 43: 2022/07/07 51: G01L; G07C 71: FRITZ, Jan Hendrik 72: FRITZ, Jan Hendrik 54: PRESSURE TESTING 00: -

The invention is for a pressure tester device, which includes an inlet port connectable in fluid communication with a test part, to be pressure tested, and a mechanical pressure adjuster configured to restrict a pressure of an incoming fluid from the test part to a predetermined amount and a pressure gauge in fluid communication with the mechanical pressure adjuster, which in use receives an actual pressure measured at the inlet port to which the test part is connected. Furthermore, the invention provides a method of testing pressure tolerances of parts of a diesel engine, which includes the pressure tester device of which an inlet port is connected to an outlet of a test part, thereafter, mechanically setting a maximum testing pressure of an incoming fluid from the test part and cranking the diesel engine to initiate operation and examining a pressure gauge to identify a fault with the test part.



21: 2021/10579. 22: 2021/12/17. 43: 2022/06/10 51: A01H

71: ASOCIACIÓN CLUB DE VARIEDADES VEGETALES PROTEGIDAS, UNIVERSITAT POLITÈCNICA DE VALÈNCIA 72: MERLE FARINÓS, Hugo Basilio, GARMENDÍA SALVADOR, Alfonso, GARCÍA BREIJO, Francisco José, RAIGÓN JIMÉNEZ, Mª Dolores 54: COMPOSITION FOR PREVENTING THE FORMATION OF SEEDS IN FRUIT 00: -

The present invention relates to the agri-food industry and obtaining seedless fruit. The invention consists of an active product whose composition comprises sulphur (S) as an octatomic molecule (S8) as its active ingredient, as well as optionally a surfactant and a plant hormone, preferably gibberellic acid or auxins and its use in a method for obtaining seedless fruit that comprises the application of the active product on crops, flowers, horticultural plants and/or fruit trees.



BB Exudate CC Upper papillae DD Starch EE Lipid bodies

21: 2021/10605. 22: 2021/12/17. 43: 2022/06/21 51: F16L; G21C 71: JOINT STOCK COMPANY

"ROSENERGOATOM", SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE

72: GABAIDULOV, Timur Maratovich, ZHUK, Igor Evgen'evich, IL'YIN, Sergei Vladimirovich, KOLUSHOV, Aleksandr Vasil'evich, STANKEVICH, Svetlana Leonidovna

33: RU 31: 2019139213 32: 2019-12-03 54: DEVICE FOR INSTALLATION OF THE OUTER HEAT INSULATION OF A NUCLEAR REACTOR VESSEL

00: -

The invention relates to the field of nuclear engineering, and more particularly to auxiliary devices for nuclear power plants, and even more particularly to devices for installing external thermal insulation on a nuclear reactor vessel, and can be used in nuclear power stations for performing recovery annealing operations on weld seams of pressurized water reactor vessels. The claimed invention is directed toward solving the problem of allowing the installation and removal of thermal insulation on the outer surface of a pressurized water reactor vessel from the confined space below a reactor and at elevated levels of ionizing radiation. The technical result of the present invention is that of reducing the temperature gradient across the thickness of a nuclear reactor vessel by thermally insulating the outer surface of the reactor vessel, providing for uniformity of the physical properties of the metal and weld seams of the reactor vessel, and

reducing the impact of thermal effects on surrounding structures during the recovery annealing of weld seams and (or) of the main metal of a pressurized water reactor vessel. The technical result is achieved in that a device for installing external thermal insulation on a nuclear reactor vessel comprises a mobile transport trolley equipped with a mechanism for the movement thereof, a detachable carrier rim disposed on the transport trolley and to which thermal insulation for the reactor vessel is attached, and at least two hoists disposed on opposite sides of the reactor vessel at the level of the top of the reactor vessel, the detachable carrier rim being connected to the hoists to allow raising and lowering of the rim. Use of the claimed invention makes it possible to install and remove thermal insulation on the outer surface of a pressurized water reactor vessel from the confined space below a reactor and at elevated levels of ionizing radiation. The thermal insulation of the outer surface of a reactor vessel makes it possible to reduce the temperature gradient across the thickness of the nuclear reactor vessel, provide for uniformity of the physical properties of the metal and weld seams of the reactor vessel, and reduce the impact of thermal effects on surrounding structures during the recovery annealing of weld seams and (or) of the main metal of a pressurized water reactor vessel.



21: 2021/10606. 22: 2021/12/17. 43: 2022/07/06 51: F16L; G21C 71: JOINT STOCK COMPANY "ROSENERGOATOM", SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE 72: GUBAIDULOV, Timur Muratovich, ZHUK, Igor Evgen'evich, IL'YIN, Sergei Vladimirovich, MARKIN, Vladimir Vasil'evich 33: RU 31: 2019139212 32: 2019-12-03 54: EXTERNAL THERMAL INSULATION FOR A NUCLEAR REACTOR VESSEL AND SYSTEM FOR INSTALLING EXTERNAL THERMAL INSULATION FOR A NUCLEAR REACTOR VESSEL

00: -

An external thermal insulation for a nuclear reactor vessel comprises posts, supporting rings, and thermal insulation rings. The posts are equidistantly mounted on the floor of the space beneath a reactor and are provided with guide grooves. Each post is hingedly mounted on a post base, wherein a hinge connecting a post and a post base is offset from the centre of gravity of the post to allow the post to deviate from and return to a vertical position, and the post base is provided with an adjustable screw-type support and has a supporting platform. A system for installing external thermal insulation for a nuclear reactor vessel comprises hoists and a mobile transport trolley with removable installation equipment. The transport trolley is provided with a mechanism for controlling the removable installation equipment and is further provided with a drive for moving the transport trolley, an end-of-travel device for stopping movement of the transport trolley, a pump unit, and, connected to said pump unit and disposed at the centre of the transport trolley, a hydraulic jack with a rotatable disk fastened to the piston of the jack, and the removable installation equipment includes a device for installing posts, a device for installing hoists, and a device for installing supporting rings and thermal insulation rings.

21: 2021/10607. 22: 2021/12/17. 43: 2022/07/06 51: G21C 71: JOINT-STOCK COMPANY "ATOMENERGOPROEKT", SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE 72: SIDOROV, Aleksandr Stalevich, DZBANOVSKAYA, Tatyana Yaropolkovna, SIDOROVA, Nadezhda Vasilievna 33: RU 31: 2020111301 32: 2020-03-18 54: GUIDE ASSEMBLY OF THE CORIUM LOCALIZING AND COOLING SYSTEM OF A NUCLEAR REACTOR 00: -

The invention relates to systems for confining and cooling the melt from the core of a nuclear reactor, which are intended to contain severe beyond designbasis accidents, more particularly devices for guiding the melt from the nuclear reactor core into a melt catcher. The technical result of the claimed invention is an increase in the effectiveness of confining and cooling the melt from the core of a nuclear reactor. The problem to be solved by the invention is the prevention of guiding device destruction due to shock concentration in the conical portion of the guiding device, which would result in the core, fragments of the internal structures and the bottom of the pressure vessel of the nuclear reactor simultaneously entering the melt catcher. According to the invention, a guiding device of a system for confining and cooling melt, which is installed below a reactor pressure vessel and is supported by a cantilever truss, comprises thermal elements in addition to a load-bearing frame, which in combination makes it possible to ensure that the core, fragments of the internal structures and the bottom of the pressure vessel of the nuclear reactor enter the melt catcher by excluding melting-through of the walls of the conical and cylindrical portions, and by redistributing flow streams of the core melt.



21: 2021/10608. 22: 2021/12/17. 43: 2022/06/20

51: G21C

71: JOINT-STOCK COMPANY "ATOMENERGOPROEKT", SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE

72: SIDOROV, Aleksandr Stalevich,
DZBANOVSKAYA, Tatyana Yaropolkovna,
SIDOROVA, Inna Sergeevna
33: RU 31: 2020111692 32: 2020-03-20
54: CORIUM LOCALIZING AND COOLING
SYSTEM OF A NUCLEAR REACTOR
00: -

The invention relates to the field of nuclear power engineering, and more particularly to systems which provide for the safety of nuclear power plants, and can be used in the event of serious accidents leading to the destruction of the pressure vessel and sealed containment structure of a reactor. The technical result of the claimed invention is an increase in the reliability of a system for confining and cooling melt from the core of a nuclear reactor, and an increase in the efficiency of heat removal from the melt from the core of a nuclear reactor. The technical result is achieved in that a system for confining and cooling melt from the core of a nuclear reactor includes a membrane, a drum and a thermal shield which are installed in the zone between a multilayer housing and a cantilever truss.



- 21: 2021/10622. 22: 2021/12/20. 43: 2022/07/07
- 51: G06F; G07B
- 71: ELOREM (PTY) LIMITED
- 72: MOSUPI, Tebogo
- 33: ZA 31: 2020/07690 32: 2020-12-10 54: LICENSE MANAGEMENT SYSTEM
- **54: LICEN**

The invention relates to an electronic license management system which facilitates the efficient and convenient management of licenses and thus negates the laborious paper-system currently in use.



21: 2021/10702. 22: 2021/12/21. 43: 2022/07/06 51: B23K

71: ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD. 72: LONG, Weimin, ZHONG, Sujuan, HUANG, Junlan, PEI, Yinyin, CHENG, Yafang, LI, Yong, ZHOU, Xusheng, NIE, Mengjie 33: CN 31: 202110925462.4 32: 2021-08-12

54: FLUX-FREE BRAZING METHOD FOR CARBIDE-TIPPED TOOLS 00: -

The present disclosure belongs to the field of brazing methods, and in particular, relates to a fluxfree brazing method for carbide-tipped tools. The method includes the following steps: (1) assembling a steel substrate, a silver-based brazing material, and a hard alloy to form a member; and (2) preparing a sealable space with an opening communicating with an external environment, placing a hydrogen-absorbing palladium powder in the sealable space, and placing the member obtained in step (1) in the sealable space; heating to make the hydrogen-absorbing palladium powder release a hydrogen gas, such that air in the sealable space is driven out by the hydrogen gas through the opening; and conducting brazing. In the present disclosure, a hydrogen-absorbing palladium powder and a tool workpiece are placed together in a sealable space, then the hydrogen-absorbing palladium powder is allowed to release hydrogen to create a hydrogen atmosphere inside the sealable

space, and then a brazing operation is conducted. Compared with the overall gas protection method, this method has low requirements on operation and equipment, and is very suitable for actual production.



21: 2021/10703. 22: 2021/12/21. 43: 2022/07/06 51: B23K

71: ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD. 72: LI, Shengnan, SHEN, Yuanxun, HUANG, Junlan, PEI, Yinyin, LU, Quanbin, JIU, Yongtao, LI, Wenbin, NIE, Mengjie

33: CN 31: 202111123606.0 32: 2021-09-24 54: BRAZING SHEET AND BRAZING METHOD 00: -

The present invention relates to a brazing sheet and a brazing method, belonging to the technical field of brazing materials. The brazing sheet of the present invention includes a sheet brazing material matrix. The sheet brazing material matrix has a brazing mating surface for being correspondingly in contact with a brazing surface of a to-be-brazed part. A plurality of hard particles are discretely embedded on at least one brazing mating surface of the sheet brazing material matrix, and at least part of the hard particles in the plurality of hard particles are exposed out of the brazing mating surface. The brazing sheet of the present invention does not contain flux, and can realize the fast brazing of the AI-Li alloys on a heating platform in the atmospheric environment, which does not pollute the environment and is environmentally friendly.



21: 2021/10856. 22: 2021/12/23. 43: 2022/06/21 51: A61B

72: CHEN, ZHI-YOU 33: TW 31: 110100449 32: 2021-01-06 54: SURGICAL DEVICE 00: -

A surgical device includes a casing unit (2), a cutting tube (3), a sheath unit (5), and a switching unit (6). The cutting tube (3) having a cutting end (31) covered by a sheath unit (5) that includes a positioning block (541). A switching member (61) of the switching unit (6) sleeved on the sheath unit (5) has a camming face (612a) which cams and moves the sheath unit (5) relative to the cutting tube (3) and which has two safety recesses (614), a first recess (615) and a second recess (616) which are angularly spaced from each other and which can be selected to engage the positioning block 54 for switching the switching member (61) to a safe, peeling or cutting mode. Each safety recess (614) is formed between the first and second recesses (615, 616) so that the switching member (61) can always be switched to a safe mode before being switched to the peeling or cutting mode.



21: 2021/10948. 22: 2021/12/24. 43: 2022/06/21 51: A61K

71: DIHESYS DIGITAL HEALTH SYSTEMS GMBH 72: DACHTLER, Markus, HUBER, Gerald 33: EP 31: 19177751.5 32: 2019-05-31 54: PHARMACEUTICAL DOSAGE FORMS AND METHODS FOR THEIR PRODUCTION 00: - The invention relates to a method for producing solid or semi-solid dosage forms of pharmaceutical active ingredients. According to the method, an activeingredient-free carrier structure is arranged in a 2D or 3D printing device and at least one pharmaceutical active ingredient is applied to at least one portion of the carrier structure by way of a 2D or 3D printing method carried out by the printing device. The invention also relates to semi-solid or solid dosage forms that are producible by the method according to the invention.



21: 2022/00137. 22: 2022/01/03. 43: 2022/08/01 51: B62M

71: ZHANG, Junzhi

72: ZHANG, Junzhi 54: A NOVEL TELESCOPIC PEDAL 00: -

The invention discloses a novel telescopic pedal, comprising an outer sleeve rod, wherein the outer sleeve rod is fixed with a fixed shaft sleeve, the fixed shaft sleeve is fixed on bicycle spindle, an inner sliding rod is arranged inside the outer sleeve rod, both two sides of the outer sleeve rod are connected to a spring fixing rod and both two sides of the outer sleeve rod are provided with a sliding rail, a spring fixing rod II is arranged at where matched with the sliding rail on two sides of the inner sliding rod, a contraction spring is arranged between the spring fixing rod and the spring fixing rod II at the same side, a pedal shaft is provided at one end of the inner sliding rod away from the fixed shaft sleeve and a pedal is arranged on the pedal shaft. Compared to the prior art, the invention has the following advantageous: by using lever principle, the pedal automatically extends when the right foot is struggling, and the right spring automatically retracts when the left foot is struggling, which is fully comply

with the cycling process, the lever of force is automatically increased or decreased, which can save the rider's effort consumption, is very convenient, can be installed on various bicycles, and has a good market prospect.



21: 2022/00145. 22: 2022/01/03. 43: 2022/07/28 51: C02F

71: JILIN INSTITUTE OF CHEMICAL TECHNOLOGY

72: LOU, DAWEI, LI, YUYING, LIAN, LILI, ZHANG, HAO, WANG, XIYUE, MA, JIE

54: POLYSILICATE ALUMINUM-CATIONIC STARCH COMPOSITE FLOCCULANT AND PREPARATION METHOD THEREOF 00: -

The present invention discloses a polysilicate aluminum-cationic starch composite flocculant and a preparation method thereof. The preparation method includes: acidizing sodium silicate with sulfuric acid of a certain concentration; preparing polysilicic acid through processes of water bath stirring and curing; preparing an aluminum sulfate solution of a certain molar mass; stirring and blending the aluminum sulfate solution and the polysilicic acid according to a certain ratio to obtain a polysilicate aluminum solution; modifying edible starch with a cationic etherifying agent, i.e., 3-chloro-2hydroxypropyltrimethyl ammonium chloride to obtain cationic starch; adding a certain amount of the cationic starch into the polysilicate aluminum solution; and performing water bath stirring and curing to obtain polysilicate aluminum-cationic starch. The flocculant provided by the present invention is composed of modified natural organic cationic starch and the polysilicate aluminum solution.



21: 2022/00162. 22: 2022/01/03. 43: 2022/08/01 51: C12N; C12P

71: SHIHEZI UNIVERSITY

72: ZHANG, Genlin, LIU, Zhengyang, NI, Xiaoxia, ZHANG, Yan

54: CONSTRUCTION METHOD OF REGULATORY ELEMENT HAVING DUAL FUNCTIONS OF PROMOTION AND TERMINATION, AND BIFUNCTIONAL ELEMENT LIBRARY 00: -

The present disclosure provides a construction method of a regulatory element having dual functions of promotion and a termination, and a bifunctional element library, and relates to the technical field of synthetic biology. In the present disclosure, a promotion sequence and a termination sequence are assembled according to a principle of termination before promotion. The regulatory element having dual functions of promotion and termination is used to simplify pathway construction, with a pathway assembly efficiency increased by about 18% compared with the prior art.

21: 2022/00290. 22: 2022/01/05. 43: 2022/07/11 51: A23D; A23L; A23P; C08L

71: SOUTH CHINA UNIVERSITY OF

TECHNOLOGY, Guangzhou Institute of Modern Industrial Technology

72: Qunyu GAO, Xiaozhou XUE, Liang QI, Zhigang LUO

33: CN 31: 202010805013.1 32: 2020-08-12 54: STARCH-BASED AND STEADY-STATE VEGETABLE OIL COMPLEX AND PREPARATION METHOD THEREOF

00: -The present invention discloses a starch-based and steady-state vegetable oil complex and a preparation method thereof, including the following steps: (1) adding a waxy starch having a molecular weight of 6000-10000 kda into water, heating and stirring to make it completely be gelatinized, to obtain a solution A; (2) adding a gelatin into water, heating and dissolving, to obtain a solution B; (3) after adding the solution B into the solution A, lowering temperature, and stirring evenly, adding a stabilizer, and performing shear homogenization, to obtain a water-in-water Pickering emulsion; (4) cooling the Pickering emulsion to swell solutions A and B so as to form a hydrogel, dialyzing in water to remove the gelatin, and then precipitating through ethanol and drying to obtain a porous starch; and (5) mixing a vegetable oil with the porous starch, stirring rapidly, and then vacuum-drying to obtain a starchbased and steady-state vegetable oil complex. The present invention realizes slow release of the vegetable oil, enhances bioavailability, and effectively inhibits occurence of oxidation reaction



21: 2022/00292. 22: 2022/01/05. 43: 2022/07/11

51: A23L; A61K; A61Q 71: JINAN UNIVERSITY 72: Fu LIU, Manyu LAN, Shiyi OU, Yong WANG, Jie ZHENG, Caihuan HUANG 33: CN 31: CN 201911199370.1 32: 2019-11-29 54: METHOD FOR PREPARING PHYTOSTEROL-STABILIZED WATER-IN-OIL PICKERING EMULSION 00: -

Disclosed are a phytosterol-stabilized water-in-oil Pickering emulsion and a preparation method and an application thereof. The water-in-oil Pickering emulsion is prepared by the following method: dispersing phytosterol into anhydrous ethanol, heating and dissolving the same to obtain an ethanol solution of phytosterol, then mixing with water and removing the ethanol to obtain an aqueous dispersion of phytosterol particles, mixing and homogenizing the aqueous dispersion with an oil phase to obtain a water-in-oil Pickering emulsion, alternatively drying the aqueous dispersion to obtain a phytosterol powder, dispersing the phytosterol powder into an oil phase, then mixing with water, thus obtaining a water-in-oil Pickering emulsion by homogenization.



21: 2022/00294. 22: 2022/01/05. 43: 2022/07/11 51: A01N; A01P

71: PLANT PROTECTION RESEARCH INSTITUTE OF GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, GUANGDONG BRANCH OF CHINA TOBACCO GENERAL CO., LTD. 72: Qiyun YANG, Birun LIN, Dayuan SUN, Jingxin ZHANG, Huifang SHEN, Xiaoming PU, Zheng LU, Yonghua LV, Haibin DENG 33: CN 31: CN 202010160189.6 32: 2020-03-10 54: COMPOSITION FOR PREVENTING AND TREATING BACTERIAL LEAF STREAK, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

00: -

Disclosed in the present invention are a composition for preventing and treating bacterial leaf streak, and a preparation method therefor and an application thereof. The composition comprises the following components in percentage by weight: 10-15 parts of dodecyl dimethyl benzyl ammonium bromide, 15-20 parts of copper sulfate pentahydrate, 20-25 parts of 84 disinfectant, and 40-55 parts of water. The composition in the present invention is diluted and then may be used for rice seed soaking so as to prevent rice bacterial leaf streak, or is sprayed onto rice leaves so as to prevent and treat rice bacterial leaf streak. The application method of the composition is simple and convenient to operate, and solves the problem of the shortage of a prevention and treatment drug of rice bacterial leaf streak. The present invention provides technical support for many fields, such as agricultural production and scientific research

21: 2022/00295. 22: 2022/01/05. 43: 2022/07/11 51: C12Q; G01N

71: PLANT PROTECTION RESEARCH INSTITUTE OF GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, GUANGDONG BRANCH OF CHINA TOBACCO GENERAL CO., LTD.

72: Xiaoming PU, Qiyun YANG, Huifang SHEN, Jingxin ZHANG, Dayuan SUN, Birun LIN, Zheng LU, Yonghua LV, Haibin DENG

33: CN 31: CN 201910840642.5 32: 2019-09-06 54: NESTED-PCR PRIMER, KIT AND METHOD FOR DETECTING NUCLEOPOLYHEDROVIRUS CARRIED BY SPODOPTERA LITURA ADULTS 00: -

A nested-PCR primer, kit and method for detecting Nucleopolyhedrovirus carried by Spodoptera litura adults. Regarding egt gene, a pair of outer side primers egt-F and egt-R and a pair of inner side primers egt1-F and egt1-R are designed, and the primer sequences thereof are as shown in SEQ ID NO.1 to 4 and have specificity against SpltNPV. Provided is a nested-PCR kit for detecting Nucleopolyhedrovirus carried by Spodoptera litura adults, having the characteristics of strong specificity, high sensitivity, strong practicability, etc. Compared with sensitivity obtained by two rounds of common PCR detection method, the sensitivity obtained by performing two rounds of PCR amplification by using said primer or kit is improved by 2 orders of magnitude. Said method is applicable to detection of viruses carried by Spodoptera litura adults



21: 2022/00393. 22: 2022/01/07. 43: 2022/08/02 51: G06F

71: SHANGHAI HEALTH MEDICAL COLLEGE 72: KONG, Ping, WU, Tao, LI, An, ZHOU, Liang, ZHOU, Yanli, ZHANG, Jianqing, CHEN, Lifan, WANG, Hongjie

54: ENCRYPTED IMAGE RESTORATION-BASED MEDICAL IMAGE PRIVACY PROTECTION METHOD

00: -

The present invention discloses an encrypted image restoration-based medical image privacy protection method, which includes: generating a mask image through a medical image, and generating an image to be restored, a texture image, a Johnson-Lindenstrass (JL) transform encryption result image and an encrypted medical image; blocking the encrypted medical image based on the texture image to obtain multiple image blocks; determining a restricted source region of a block to be restored in each image block based on the mask image and the texture image; determining an optimal patch set in the restricted source region based on the JL transform encryption result image; connecting adjacent patches in the optimal patch set to obtain a connected optimal patch set; and generating an encrypted image with embedded information based on the connected optimal patch set and a binary bit stream. According to the present invention, the problems of low safety of an existing medical image privacy protection method and inapplicability of an existing encrypted image restoration technology with poor restoration effects to image privacy protection are solved.

Crop the lesion r image to generate image being a rep	egion in a copy image based on the mask an Issae to be restored, the copy reduced image of the medical image
and the transformer	1
Convolve and through a li clustering a	f cluster the image to be restored inear spatial filter and a K-means algorithm to obtain a texture image
e da Contra da s	e en la la companya de la companya de
Perform JL transform - image to be restored t image, the local image pixels adjacent to ear	storyption on each local image block in the to obtain a JL transform encryption result e block being formed by each pixel and s-1 ch pixel in the image to be restored
to the second star	and the second second states and the
Encrypt the med algorithm to ob	lical image through an image encryption tain an encrypted medical image
a se prove a la	a di serie di secondi de second
Block the e texture inn	ncrypted medical image based on the ge to obtain multiple image blocks
Determine a restricte each image block base the block to be resto at corresponding posi-	d source region of a block to be restored in d on the mark image and the texture image, red being formed for all pixels valued to 1 tions in the mark image in the image block L
Betermine an optin region based on t	mal patch set in the restricted source he JL transform encryption result image
지 옷 옷 많이 집어	
	cent patches in the optimal patch
Connect adja set to obtai	n a connected optimal patch set

21: 2022/00583. 22: 2022/01/12. 43: 2022/07/27 51: B29C; E04H 71: WIREMAN PTY LIMITED 72: OLD, Fraser, LOWREY, Ian 33: AU 31: 2019903925 32: 2019-10-18 33: AU 31: 2019902354 32: 2019-07-03 33: AU 31: 2019903175 32: 2019-08-30 33: AU 31: 2019903297 32: 2019-09-06 **54: AGRICULTURAL FENCING** 00: -

A hollow blank 910 for a hollow fence post 920 is disclosed. In addition, a fence post extender 40, 140, 240, 340, 540, 740, 840 is disclosed. A joiner bracket 1342 for a fence post extender is also disclosed. The fence post extenders are provided with an open mouth slot 45 which is able to slide over the ears 113, 114 and part of the stem 112 of a conventional star picket 11 without disrupting the upper wires 17, 22 of a conventional inclusion agricultural fence. The fence post extenders enable conventional waist high inclusion fencing to be converted into head high exclusion fencing including high wires 412, 413, 414.



21: 2022/00601. 22: 2022/01/12. 43: 2022/07/27 51: G01R

71: SHANGHAI HEALTH MEDICAL COLLEGE 72: KONG, Ping, WU, Tao, WANG, Shijie, ZHOU, Liang, ZHANG, Jianqing, ZHOU, Yanli, CHEN, Lifan, WANG, Hongjie

54: EXPERIMENTAL POSITIONING DEVICE AND METHOD FOR MAGNETOMETER SENSOR 00: -

The present invention discloses an experimental positioning device and method for a magnetometer sensor. The device comprises: an accelerometer, a magnet, a magnetometer sensor, a controller and a computer; the magnetometer sensor is used for collecting magnetic induction intensity at different positions around the magnet; the controller is connected to the magnetic sensor for transmitting the magnetic induction intensity to the computer via a USART serial port; the computer, connected to the controller and the accelerometer, is used for calculating the position coordinate of the magnetometer sensor according to the magnetic induction intensity and the horizontal acceleration measured by the accelerometer. according to the present invention, the magnetic field generated by the magnet is used to position the magnetometer sensor, the circuit is simplified, so that the position coordinate of the magnetometer sensor can be accurately positioned.



21: 2022/00603. 22: 2022/01/12. 43: 2022/07/27 51: A61F; A61M

71: TEVAR (PTY) LTD

72: VAN BREDA, Braden Sydney Clive, PERUMALL, Preyen Agasthian, CHACKO, Reno Kochaeppen, FAKIH, Fadi Nkoma, GOTTARDI, Roman, ZILLA, Peter, BEZUIDENHOUT, Deon 33: GB 31: 1913216.6 32: 2019-09-13 54: INFLATABLE DILATATION DEVICE 00: -

An inflatable dilatation device includes: (i) a tubular frame including a first frame member that zigzags circumferentially; and (ii) an elongate inflatable first balloon. The elongate inflatable first balloon: (i) is secured to the first frame member; and (ii) zigzags along the first frame member, such that inflation of the first balloon causes the first balloon and the first frame member circumferentially to expand in unison from a contracted condition to an expanded condition.



21: 2022/00659. 22: 2022/01/13. 43: 2022/07/27 51: B01F 71: CENTRAL SOUTH UNIVERSITY 72: LI, Zhou, ZHANG, Lu 33: CN 31: 202110684378.8 32: 2021-06-21

54: STIRRING DEVICE FOR TESTING PROPERTIES OF MINERAL MATERIAL 00: -

A stirring device for testing properties of a mineral material, comprising a material stirring bucket, wherein an upper cover is arranged on the material stirring bucket; a rotating mechanism is arranged on the upper cover, a rotation axis assembly arranged offset from the axis center of the rotating mechanism is arranged at the output end of the rotating mechanism, a rotation structure is arranged between the rotation axis assembly and the upper cover, a plurality of rotating stirring blade assemblies are arranged on the circumferential outer wall of the rotation axis of the rotation axis assembly. The present disclosure has the following advantages: firstly, the angle of the mixing blade can be adjusted freely according to the stirring requirements and mineral material property testing requirements, the influence parameters of the angle on the wear of the mineral material can be calculated according to the inclination angle of the mixing blade.



21: 2022/00723. 22: 2022/01/14. 43: 2022/07/28 51: A61K; C07D; A61P 71: INITIATOR PHARMA A/S 72: SIMONSEN, Ulf, COMERMA-STEFFENSEN, Simon, PETERS, Dan 33: EP 31: 19190224.6 32: 2019-08-06 54: COMPOUND FOR COMBINATION TREATMENT 00: -

The present invention relates to a compound for treatment of a disease or disorder involving depression, erectile dysfunction, anxiety, sexual dysfunction and/or ejaculatory disorders; or a combination thereof.





21: 2022/00726. 22: 2022/01/14. 43: 2022/07/28 51: D01D; D01F 71: LIST TECHNOLOGY AG 72: KUNKEL, Roland, WITTE DR., Daniel, KÖNIG,

Sven, STEINER, Manuel, WANG, WEILIE 33: DE 31: 10 2019 116 736.1 32: 2019-06-20 54: "METHOD FOR PREPARING A

REGENERATED CELLULOSE FIBER SPINNING DOPE BY A SOLVENT METHOD" 00: -

The invention discloses a preparation method and a production device for producing a recycled fiber spinning solution with using a solvent, which comprises two or more vertical wiped film evaporators (3, 4,...) connected with a single horizontal cylindrical kneading reactor. The aqueous mixture of cellulose and solvent and auxiliary agent is prepared into a spinnable cellulose spinning dope, which is characterized by injecting the material mixture into two or more vertical wiped film evaporators and a horizontal cylindrical kneading reactor, each unit is preferably equipped with a separate condensing system, and the vacuum system can be separately configured to share a vacuum system.





The present invention relates to a device for classifying (14) a light source (11), comprising: - a sensor (20) adapted to receive a luminous flux emitted by a light source (11), the sensor (20) comprising a plurality of pixels grouped in sets, each set comprising a first pixel and a second pixel adjacent to the first pixel, each first pixel being adapted to generate a first signal relating to a first portion of luminous flux in a first spectral band received by said first pixel, each second pixel being adapted to generate a second signal relating to a second portion of luminous flux in a second spectral band received by said second pixel, - a computer (24) configured to compare the first and second signals and to classify the emitting light source (11) according to the result of the comparison.



- 21: 2022/00729. 22: 2022/01/14. 43: 2022/07/27
- 51: B65D
- 71: BRAIN CORP SA
- 72: BRIVOIS, Olivier

33: LU 31: 101279 32: 2019-06-24 33: LU 31: 101633 32: 2020-02-03 54: CAPSULE FOR PREPARING A BEVERAGE 00: -

The invention relates to a capsule intended for containing a substance for preparing a beverage by placing said capsule in the cavity (7) of a piston (6). the capsule comprising a body (1) having a rim (4) and a sealing ring (10) which is attached to the lower wall (4b) of said rim, having an upper face (10a) bearing on the lower wall and a free lower face (10b), the capsule having an inner bearing surface (13) and an outer bearing surface (14) each projecting from the rim (4) in an axial direction, forming therebetween a groove (15) that is arranged to sealingly receive the peripheral edge (11) of the piston (6) during the preparation of the beverage, at least the outer bearing surface (14) being formed on an inner wall of a ring (16, 16b) formed in one part on the free lower face (10b) of the sealing ring (10).



21: 2022/00955. 22: 2022/01/20. 43: 2022/08/02 51: C02F

71: MINTEK

72: NETSHIKHUDINI, Tshamano 33: ZA 31: 2019/06331 32: 2019-09-26 54: WATER BALANCE IMPROVEMENT IN AN EFFLUENT TREATMENT PROCESS FOR SULPHATE REMOVAL 00: -

A method to improve the solid/solid separation of an amorphous aluminium trihydroxide containing suspension from a gypsum containing suspension in a saturated calcium sulphate solution without the need for a dewatering step following the solid-solid separation.

21: 2022/00964. 22: 2022/01/20. 43: 2022/08/02 51: A61K; C07D; A61P 71: GAN & LEE PHARMACEUTICALS CO., LTD.

72: YIN, Lei, YAO, Zhenglin

33: CN 31: 201910542355.6 32: 2019-06-21 54: SALTS OF A COMPOUND, CRYSTAL FORMS OF THE SALTS AND PREPARATION METHOD AND USE THEREOF 00: -

Disclosed are a fumaric acid salt, a maleic acid salt, an adipic acid salt, a succinic acid salt, a plurality of crystalline forms of a compound 5-fluorine-4-(7'fluorine-2'-methyl spiro [cyclopentane-1,3'-indol]-5'yl)-nitrogen-(5-(1-methylpiperidine-4-yl)pyridine-2yl)pyrimidine-2-amine, a preparation method therefor and an application thereof. It has been proved that the salts or the crystalline forms thereof can replace 5-fluorine-4-(7'-fluorine-2'-methyl spiro [cyclopentane-1,3'-indol]-5'-yl)-nitrogen-(5-(1methylpiperidine-4-yl)pyridine-2-yl)pyrimidine-2amine better, overcome the defects thereof such as the solubility, high risk of food effect and stability, and have low hygroscopicity and great application value.

21: 2022/01019. 22: 2022/01/21. 43: 2022/08/02 51: C05G

71: INSTITUTE OF APPLIED ECOLOGY, CHINESE ACADEMY OF SCIENCES 72: Lili ZHANG, Zhijie WU, Zhanbo WEI

33: CN 31: 202011201432.0 32: 2020-11-02 54: SYNERGISTIC STABLE NITROGEN FERTILIZER AND PREPARATION METHOD 00: -

The present disclosure discloses a synergistic stable nitrogen fertilizer and a preparation method. Fertilizer components include a nitrogen fertilizer, medium trace elements, a nitrogen regulation synergist (a urease inhibitor and/or a nitrification inhibitor) and a carbon-source synergist, wherein the nitrogen fertilizer is urea, and the medium trace elements include calcium, magnesium, sulfur, boron, silicon, iron and zinc. Based on parts by weight, the ratio of the weight parts of the nitrogen fertilizer, the medium trace elements, the nitrogen regulation synergist and the carbon synergist is 1: (0.05-0.1): (0.001-0.1): (0.1-0.3). In the present disclosure, the

release time and rate of the nitrogen fertilizer can be adjusted by adding certain amounts of the carbon synergist and the nitrogen regulation synergist into the fertilizer, so that the fertilizer takes effect slowly and stably, the needs of various nutrients in different growth periods of crop are met, a contradiction between the need of crop for the fertilizer and the fertilizer supply in soil is solved, and the emission of greenhouse gases and the leaching loss of nitrogen are reduced. The fertilizer is a novel synergistic stable nitrogen fertilizer.

21: 2022/01156. 22: 2022/01/25. 43: 2022/07/11 51: E04B 71: Viken OHANESIAN 72: Viken OHANESIAN 33: US 31: 62/878,934 32: 2019-07-26 54: STRUCTURAL WALL PANEL SYSTEM 00: -

A structural panel system formed from a substrate (such as cement board or paper) and structural metal studs (such as lightweight galvanized steel members), where the metal studs are embedded within an insulating core that is formed onto the substrate, where the metal studs are gapped from the inner surface of the substrate to prevent thermal energy from transferring from the substrate to the metal stud or vice versa. In addition, parallel assembly slots may be formed in the gap at the top and bottom ends of each panel assembly to provide connective access to the top and bottom ends of the metal studs for structural connection to the foundation at the bottom or other overhead structure at the top via connective components. The connective components include a bottom U-channel member and a top U-channel member that are configured to fit into the parallel assembly slots.



21: 2022/01183. 22: 2022/01/26. 43: 2022/08/03 51: G06Q 71: DANIEL STEPHANUS DE WET 72: DE WET, DANIEL STEPHANUS 33: ZA 31: 2021/00964 32: 2021-02-12 54: AN ANTI-THEFT INVENTORY DELIVERY AND COLLECTION MANAGEMENT SYSTEM 00: -

The invention relates to an anti-theft, inventory management system for managing inventory securely during the delivery and collection of such inventory between a supplier and a procurer. The system comprises an at least partially-secure conveyance arrangement, operatively locatable between a delivery zone and a collection zone, the arrangement having a secure intermediate zone, positioned between the delivery zone and the collection zone with an entrance towards the delivery zone and an exit towards the collection zone, for conveying at least one item of inventory from the delivery zone to the collection zone. The system further comprises an invoice data collecting means, a first attribute scanner and a second attribute scanner. The system also comprises a computing device, a remote database and a remote transmission unit, configured to transfer the data from the computing device to the remote database.



21: 2022/01243. 22: 2022/01/26. 43: 2022/08/03 51: G01D; G01R

71: WUXI POWER FILTER CO., LTD

72: SUN, Xiaowu, LI, Yinda, GUO, Xiangming, CAO, Chongfeng, FENG, Shenrong

33: CN 31: 202011574330.3 32: 2020-12-28 54: COMPOSITE VOLTAGE TESTING DEVICE FOR DC-LINK CAPACITOR

00: -

The invention discloses a composite voltage testing device for DC-link capacitor. The device comprises a DC testing loop, a power-frequency testing loop, a high-frequency testing loop, a testing loop and a control loop, wherein the output of the DC testing loop is connected in parallel with one end of the testing loop, the other end of the testing loop is connected in parallel with both one end of the power-frequency testing loop and one end of the high-frequency testing loop, the control loop comprises signal acquisition, a control output and a controller, the signal acquisition comes from the testing loop, and the control output is respectively connected with the DC testing loop, the powerfrequency testing loop, the high-frequency testing loop and the testing loop. The device is simple in structure, convenient to operate, and meets the voltage test requirement on DC-link capacitor.

21: 2022/01354. 22: 2022/01/28. 43: 2022/08/03 51: B65G; E21F

71: JOY GLOBAL UNDERGROUND MINING LLC 72: HOOVER, Joseph Daniel, JOHANNINGSMEIER, Grant William, VAN DYK, Dirk Johannes, STEWART, Christopher George, PATTERSON, Benjamin Scott

33: US 31: 63/142,989 32: 2021-01-28
33: US 31: 63/159,652 32: 2021-03-11
54: CHAIN CONVEYOR AND LINK FOR SAME

00: -

Mining machines such as continuous miners and chain haulage units may include chain conveyors that are capable of deflecting laterally in order to travel through lateral turns. The chain conveyors may include flight members for pushing or urging material along a pan. The chain may be driven by one or more sprockets. In one independent aspect, a link for a chain conveyor includes a body including a first end a second end opposite the first end, a first opening proximate the first end and extending in a direction transverse to a direction of travel of the link, a second opening proximate the second end and extending in a direction transverse to the direction of travel of the link, and a relief opening extending through the link body and positioned between the first end and the second end.



21: 2022/01798. 22: 2022/02/10. 43: 2022/08/02 51: B65H 71: HANGZHOU TAISHANG INTELLIGENT EQUIPMENT CO., LTD 72: XU, Zhengfang, WANG, Hui, WEI, Peng, FANG, Yong, WU, Chihao 33: CN 31: 202110931850.3 32: 2021-08-13 54: MECHANISM AND METHOD FOR SEPARATING WELDING LUGS 00: -The present invention relates to a mechanism and method for separating welding lugs. The

method for separating welding lugs. The mechanism includes a rack, a separating device and a lifting device. The separating device includes a mounting column, a downward pressing assembly, a cutting assembly and a translation assembly. The downward pressing assembly and the translation assembly are both arranged on the mounting column, and the downward pressing assembly can

be partially superposed on the rack. The cutting assembly includes a cutting frame and a cutting groove, where the cutting frame is slidably arranged on the translation assembly, and the cutting groove is slidably provided on the cutting frame and can be partially superposed on the downward pressing assembly. The lifting device includes a lifting plate slidably arranged on the mounting column. The welding lugs can be separated without manual participation, and separation efficiency is high. A topmost welding lug is peeled off every time the cutting groove translates, so as to avoid adhesion of a plurality of lugs, and to effectively improve separation precision



21: 2022/02183. 22: 2022/02/21. 43: 2022/06/03 51: B60K; B60P; B60R; B65D 71: THOMPSON, Stewart 72: THOMPSON, Stewart 33: AU 31: 2019903458 32: 2019-09-17 **54: FLUID CONTAINER** 00: -

Disclosed herein is a fluid container for a vehicle, the fluid container having at least one passageway which extends therethrough between opposing faces of the fluid container, the at least one passageway being configured to be attachably mounted on the vehicle and wherein the or each passageway internal to the fluid container is configured to inhibit movement of the fluid contained therein.



21: 2022/02635. 22: 2022/03/04. 43: 2022/06/26 51: G01N

71: NAVAL UNIVERSITY OF ENGINEERING, WUHAN INSTITUTE OF SHIPBUILDING TECHNOLOGY

72: HU, Zhiyuan, HUA, Lin, MIN, Shaosong, WU, Chunfang, WU, Fan

33: CN 31: CN202110343117.X 32: 2021-03-31 54: METHOD FOR MEASUREMENT AND FATIGUE TEST OF ULTIMATE STRENGTH OF STIFFENED PANEL 00: -

The present invention provides a method for measurement and fatigue test of the ultimate strength of a stiffened panel. The device for measuring the ultimate strength of a stiffened panel includes a loading member arranged at two ends of a stiffened panel to be measured, a clamping assembly arranged between the loading member and the stiffened panel to be measured, and a locating assembly arranged at two ends of a stiffened panel to be measured. The stiffened panel to be measured is clamped and fixed by using the clamping assembly, and the clamping assembly is joined by the locating assembly. A load output by the loading member is uniformly transmitted to the stiffened panel to be measured through the clamping assembly, and the direction of deformation of the stiffened panel is limited by the locating assembly, whereby the ultimate strength of the stiffened panel can be measured.



21: 2022/02911. 22: 2022/03/10. 43: 2022/05/11 51: A61B

71: WAL, Dr. Pranay, VED, Dr. Akash, KARTHICKEYAN, Dr. K., KARUNAKARAN, Dr. Rohini, KHANDAI, Dr. Madhusmruti, SINGH, Namrata, BHOWMICK, Dr. Mithun, SINGH, Ruchi, KUMAR, Dr. Satendra

72: WAL, Dr. Pranay, VED, Dr. Akash, KARTHICKEYAN, Dr. K., KARUNAKARAN, Dr. Rohini, KHANDAI, Dr. Madhusmruti, SINGH, Namrata, BHOWMICK, Dr. Mithun, SINGH, Ruchi, KUMAR, Dr. Satendra

54: DEVICE FOR MONITORING FLUCTUATIONS IN DPN SEVERITY THROUGH AUTOMATED MEASUREMENT OF NERVE CONDUCTION PARAMETERS

00: -

Disclosed herein a device and method for performing the sural nerve conduction test to accurately assess the extent of nerve damage for early detection of Diabetic Peripheral Neuropathy (DPN) by measuring the onset sural nerve conduction velocity, sensory response amplitude and also, the detection of muscle strength through EMG test as shown in FIG. 1. The device compares the measured nerve and muscle strength parameters with standard data to calculate the nerve damage and displays the result in a display unit. For conducting the test, a cuff is wrapped over the leg of the patient to determine the exact location of the sural nerve region and contains an array of simulation electrodes that can send the electrical pulses to the wide area of sural nerve / muscle region and a wide array of bio-sensing electrodes for sensing and signal acquisition.



21: 2022/03336. 22: 2022/03/22. 43: 2022/07/21 51: A61Q

71: Charu Mohan MARYA, Pratibha TANEJA, Tanvi Kaur AHUJA, Ruchi NAGPAL, Sakshi KATARIA 72: Charu Mohan MARYA, Pratibha TANEJA, Tanvi Kaur AHUJA, Ruchi NAGPAL, Sakshi KATARIA 54: AN INDEX FOR GRADING EXTRINSIC STAINS IN TEETH

00: -

An index for analyzing extrinsic stain in teeth, wherein the index comprises of:a plurality of horizontal parts on labial and lingual surface of the teeth; a first value in the index for indicating null stain and natural tooth coloration;a second value in the index for indicating atleast 1/3rd stain cover of the horizontal parts either partially or completely;a third value in the index for indicating atleast 2/3rd stain cover of the horizontal parts either partially or completely; a first indicator to indicate faint stain;a second indicator to indicate visible stain; and a third indicator to indicate dark stain



21: 2022/03337. 22: 2022/03/22. 43: 2022/07/21 51: E01C

71: Srikanth SEELAM, Balarama Krishna CHUNCHU, Syed Omar BALLARI, Eswar SALA, Nithya MUTHUKUMARAN, Prasanna Kumar RAVINUTHALA, Sudharshan Reddy BEERAM, REVA UNIVERSITY

72: Srikanth SEELAM, Balarama Krishna CHUNCHU, Syed Omar BALLARI, Eswar SALA, Nithya MUTHUKUMARAN, Prasanna Kumar RAVINUTHALA, Sudharshan Reddy BEERAM 54: A SYSTEM FOR POROUS FLOW APPROACH TO MODELLING MIXED TRAFFIC 00: -

A system for Porous Flow Approach to Modelling Mixed Traffic, wherein the system comprises of: a data collection module for deriving location data of a road link, wherein the road link is divided into a plurality of road sections; a capturing module associated with the data collection module for capturing traffic data; and a data retrieval module associated with the capturing module for transferring the captured traffic data to an electronic device to finding out a plurality of characteristics of traffic stream upon time stamping, wherein vehicle data is collected along with crossing a reference mark.



21: 2022/03338. 22: 2022/03/22. 43: 2022/07/21 51: G06F 71: Gowri RAJASEKARAN, Rathipriya RAMALINGAM 72: Gowri RAJASEKARAN, Rathipriya RAMALINGAM 54: A VENUS FLY TRAP OPTIMIZATION TECHNIQUE 00: -

A system and method for Venus fly trap optimization technique, comprises of: an initialization module for initializing a plurality of Venus Fly trap parameters; a trapping module for obtaining optimal solution from the plurality of parameters, wherein when a data enters a first phase a first trapping attempt occurs at time(t)=0 seconds and a second trapping attempt occurs at t>0, wherein the time between consecutive trapping attempt is less than a first defined time interval to initiate closing of the trapping module until maximum number of snaps is obtained; and a

second phase for closing the trap to evaluate status of the trapped data, wherein the closed trap is opened by the second phase when a suitable data is identified from each of snap iteration, wherein the second phase is restricted from next iteration until a new trap better than the closed trap is identified.



21: 2022/03599. 22: 2022/03/29. 43: 2022/06/06 51: A61K

71: Dr. Girendra Kumar Gautam, Dr. Shivendra Agarwal, Dr. Dimak Chand Sahu, Dr. Satendra Kumar, Dr. Virendra Kumar Patel, Dr. Deepak Sharma, Dr. Joohee Pradhan, Dr. Sunita Panchawat, Ms. Devshree Gayakwad, Dr. Sweta Shrivastava Koka, Ms. Anamika Singh, Ms. Bhagyashree Agarwal

72: Dr. Girendra Kumar Gautam, Dr. Shivendra Agarwal, Dr. Dimak Chand Sahu, Dr. Satendra Kumar, Dr. Virendra Kumar Patel, Dr. Deepak Sharma, Dr. Joohee Pradhan, Dr. Sunita Panchawat, Ms. Devshree Gayakwad, Dr. Sweta Shrivastava Koka, Ms. Anamika Singh, Ms. Bhagyashree Agarwal

54: ATORVASTATIN ETHOSOMES TOPICAL GEL BASED DRUG DELIVERY SYSTEM 00: -

The present invention relates to develop a ethosomal formulation of atorvastatin to reduce the first pass metabolism and to enhance its systemic bioavailability. Atorvastatin is HMG- CoA reductase inhibitor and utilized for minimizing cholesterol level in the treatment of congestive heart failure. The prepared formulation showed enhanced drug delivery with no first pass metabolism, entrapment efficiency was found to be 87.65±2.53%. The gel formulation showed 15.69gcm2 spreadibility and 98.47% in vitro drug release within 48hrs as compared to plain drug ethosomal formulation which shows 62.37% in 48hrs. It was noticed that ethosomes would improve transdermal flux, prolong release, and provide an appealing route for longterm distribution of atorvastatin, and that the

ethosomal gel delivery method is a successful design for topical drug delivery with improved bioavailability and patient enforcement.



21: 2022/03608. 22: 2022/03/29. 43: 2022/08/17 51: B01J

71: SUZHOU UNIVERSITY

72: ZHANG, Keying, ZHA, Jinlong, ZHU, Guang, WANG, Hongyan, ZHANG, Na 54: AGCL CUBIC/POROUS CARBON NANOTUBE COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF

00: -

The present invention belongs to the technical field of preparation of photocatalytic composite materials, particularly relates to an AgCl cubic/porous carbon nanotube composite material and a preparation method thereof. The present invention utilizes Ag+ and porous carbon nanotubes for co-incubation, and simultaneously introduces CI- into the porous carbon nanotubes before impregnation of Ag+. For the AgCI cubic/porous carbon nanotube composite material prepared by the preparation method of the present invention, AgCl is uniformly distributed on the porous carbon nanotubes in a cubic shape. The preparation method of the present invention is simple in process, free of introduction of impurities, complete in crystallization of loaded active substances and cubic in shape, and has potential application value in the fields of clean energy conversion, environmental pollution control and the like.



21: 2022/03609. 22: 2022/03/29. 43: 2022/06/06 51: A61K

71: Ms. Devika Tripathi, Ms. Sangeeta Mishra, Mr. Yadvendra Singh Thenuan, Mr. Ritesh Kumar Tiwari, Mr. Uday Prakash, Dr. Shashi Verma, Dr. Dinesh Kumar Sharma, Mr. Ramveer Maurya, Mr. Rajat Yadav, Ms. Rizwana Bee, Ms. Aafreen, Ms. Priyanka Verma

72: Ms. Devika Tripathi, Ms. Sangeeta Mishra, Mr. Yadvendra Singh Thenuan, Mr. Ritesh Kumar Tiwari, Mr. Uday Prakash, Dr. Shashi Verma, Dr. Dinesh Kumar Sharma, Mr. Ramveer Maurya, Mr. Rajat Yadav, Ms. Rizwana Bee, Ms. Aafreen, Ms. Priyanka Verma

54: FORMULATION OF CURCUMIN LOADED TOPICAL GEL USING SODIUM SALICYLATE HYDROTROPE

00: -

The present invention relates to the development of curcumin-loaded hydrotropic solid dispersion pharmaceutical gel to improve solubility and topical delivery of drugs. hydrotropic solid dispersion using sodium salicylate was prepared in 1:4 ratios and evaluated for in-vitro characterization. A physical mixture of Curcumin was also formulated in a 1:4 ratio using sodium salicylate hydrotrope. FTIR studies have reported no compatibility issues of Curcumin with hydrotrope. The dissolution study showed improved releases over 120 min compared to pure Curcumin and physical mixture. Thus, hydrotropic solid dispersion was successfully incorporated into the topical gel using carbopol 934 as a gelling agent. Prepared topical curcumin gel was then evaluated for various evaluation parameters. Acceptable values of pH and spreadability were obtained for the gel. Similarly,

high drug content was obtained for the gel, i.e., 94.2. The percent drug diffusion study has depicted a better release profile in the presence of sodium salicylate.



21: 2022/03698. 22: 2022/03/31. 43: 2022/07/20 51: F25B; F25D

- 71: Tianjin Gasin-Donghui Preservation
- Technologies Co., Ltd

72: DUAN, Lihua, LI, Xihong, CHEN, Lan, CAO, Shengqi, GUO, Bei, SHAO, Chongxiao, YUAN, Junwei, WANG, Haifen

33: CN 31: 202210308499.7 32: 2022-03-20 54: FILTRATION DEVICE WITH COMBINED FILTER TANKS FOR REFRIGERATION COMPRESSOR

00: -

A filtration device with combined filter tanks for a refrigeration compressor, including a cylindrical support and filter tanks axially connected and communicated inside the cylindrical support; the cylindrical support includes a top plate, a bottom plate, a noise reduction rubber layer and plain pull rods symmetrically arranged about the center axis of the cylindrical support; the bottom plate and the top plate are coaxially arranged at two ends of the cylindrical support; the filter tanks are axially stretched by the bottom and top plates; the bottom plate is fixedly provided with plain pull rods; a top of each plain pull rod axially penetrates and is connected to the top plate; a circumferential outer wall of the plain pull rod is clamped on a circumferential outer wall of the filter tank; the noise reduction rubber layer wraps around the plain pull rods and the filter tanks.



21: 2022/03728. 22: 2022/03/31. 43: 2022/07/11 51: A41B; A61F; D04H 71: WOOLCHEMY NZ LIMITED 72: ROGERS, Alistair, RATHOD, Manoj, NEILL, Steven, JUNAID, Fadi, POTROZ-SMITH, DERELEE 33: NZ 31: 757820 32: 2019-10-04 54: A HYGIENE ARTICLE



The present invention is directed to a hygiene article for use in personal care absorbent products such as nappies or diapers, training pants, sanitary napkins, incontinence garments, wound aids, personal protective equipment, facemasks, gowns, head and shoe covers and the like. More particularly, invention provides a hygiene article including a fibre composition comprising a combination of sheep wool fibres and polymeric fibres, wherein the polymeric fibres are not derived from one or more petrochemicals.

21: 2022/04362. 22: 2022/04/19. 43: 2022/06/01 51: G06F

71: PANDEY, Rajeev, SILAKARI, Sanjay 72: PANDEY, Rajeev, SILAKARI, Sanjay 54: METHODOLOGY FOR IMPROVED COYOTE OPTIMIZATION BASED CLASSIFICATION (ICOAC) FOR BIG DATASET TO ENLARGE THE
EMERGENCE OF HETEROGENEOUS DISTRIBUTED CIRCUMSTANCES 00: -

The present invention relates to a methodology for improved coyote optimization based classification (ICOAC) for big dataset to enlarge the emergence of heterogeneous distributed circumstances.Data classification is roughly subjugated in favour of a massive variety of real time applications like military, medical, engineering and education in heterogeneous distributed circumstances. The classification of big data information is introduced to improve the accuracy and flexibility of data searching and updating capability. Now an Improved Coyote Optimization Algorithm-based Classification (ICOAC) is developed to utilize the classification over big data receiving from numerous heterogeneous sources and improve the data processing capability of distributed environment. The improvement of classification is achieved by chaotic system for resolving the local optimal dilemma. The sinusoidal chaotic system is provided primary values by pseudo-random number generator for coyote optimization. The ICOAC is developed on MATLAB 2021a tool over eight big datasets taken from several resources. The outputs demonstrate the extreme performance of ICOAC depending on Fmeasure, accuracy, standard deviation, root mean square error, purity index and intra-cluster distance in opposition to K-Means, PSO, ALO and COA.

33: US 31: 62/934,513 32: 2019-11-12 33: US 31: 17/083.294 32: 2020-10-29 54: METHODS AND SYSTEMS FOR PROVIDING ELECTRIC ENERGY PRODUCTION AND STORAGE 00: -

The present disclosure provides a method and a system for the production and storage of electric energy. The method performed by a central control unit includes providing the power supply to a customer location from an electrical power supply system. The method further includes determining whether power supply is available from a remote power system. The availability of the power supply is determined based on determining whether electric power is being exchanged with an interface electrically connecting a gateway AC battery of the electrical power supply system to the remote power system. The method further includes charging and discharging of the AC batteries using power supply that is being exchanged between the gateway AC battery and the remote power system for providing power supply from the gateway AC battery to the customer location, and from photovoltaic panels equipped with AC/DC converters.





systems for automatically controlling power supply

Standard Deviation



21: 2022/04535. 22: 2022/04/22. 43: 2022/07/11 51: H02J 71: ZOLA ELECTRIC LABS INC., VERGARA,

Claudio, HELGESEN, Xavier, PIERCE, Joshua 72: VERGARA, CLAUDIO, PIERCE, Joshua, HELGESEN, Xavier

from an electrical power supply system to a user location based on payment status. The method performed by a central control unit includes determining a payment status of the electrical power supply system at the user location. The payment status is determined based at least on a time credit associated with the electrical power supply system. The method further includes facilitating control of the power supply from the electrical power supply system to the user location based on determining the time credit. The power supply to the user location from the electrical power supply system is uninterrupted, if the time credit is greater than a predefined threshold value. The power supply to the user location from the electrical power supply system is disconnected, if the time credit is less than the predefined threshold value.



21: 2022/04764. 22: 2016/03/07. 43: 2022/06/20 51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: EDLER, Bernd, HELMRICH, Christian, NEUENDORF, Max, SCHUBERT, Benjamin 33: EP 31: 15158253.3 32: 2015-03-09 33: EP 31: PCT/EP2015/063658 32: 2015-06-17 54: AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL

00: -

An encoder for encoding an audio signal. The encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients which are separated by at least one spectral coefficient.



21: 2022/04765. 22: 2016/03/07. 43: 2022/06/20 51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: EDLER, Bernd, HELMRICH, Christian, NEUENDORF, Max, SCHUBERT, Benjamin 33: EP 31: 15158253.3 32: 2015-03-09 33: EP 31: PCT/EP2015/063658 32: 2015-06-17 54: AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL

00: -

An encoder for encoding an audio signal. The encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients which are separated by at least one spectral coefficient.



21: 2022/04766. 22: 2016/03/07. 43: 2022/06/20 51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: EDLER, Bernd, HELMRICH, Christian, NEUENDORF, Max, SCHUBERT, Benjamin 33: EP 31: PCT/EP2015/063658 32: 2015-06-17 33: EP 31: 15158253.3 32: 2015-03-09 54: AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL 00: -

An encoder for encoding an audio signal. The encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients which are separated by at least one spectral coefficient.



21: 2022/04767. 22: 2016/03/07. 43: 2022/06/20 51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. 72: EDLER, Bernd, HELMRICH, Christian, NEUENDORF, Max, SCHUBERT, Benjamin 33: EP 31: PCT/EP2015/063658 32: 2015-06-17 33: EP 31: 15158253.3 32: 2015-03-09 54: AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL 00: -

An encoder for encoding an audio signal. The encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients which are separated by at least one spectral coefficient.



21: 2022/04768. 22: 2016/03/07. 43: 2022/06/20 51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: EDLER, Bernd, HELMRICH, Christian, NEUENDORF, Max, SCHUBERT, Benjamin 33: EP 31: PCT/EP2015/063658 32: 2015-06-17 33: EP 31: 15158253.3 32: 2015-03-09 54: AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL

00: -

An encoder for encoding an audio signal. The encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients which are separated by at least one spectral coefficient.



21: 2022/04837. 22: 2022/05/03. 43: 2022/07/18 51: G06Q

71: Dr. Divya J Thakur, Ms. Gopali Dayal, Mr. Manoj Kumar, Mr. Ravinder Kumar, Mr. Saeed Fakri, Dr. Samriti Mahajan, Dr. Swati Punjani, Ms. Neha Lather, Dr. Shikta Singh, Dr. D. Sudarsana Murthy, Ms. Ruchi Priya Khilar, Dr. M.S.R. Sesha Giri, Dr. Manabhanjan Sahu, Prof. Ramesh Chandra Panda 72: Dr. Divya J Thakur, Ms. Gopali Dayal, Mr. Manoj Kumar, Mr. Ravinder Kumar, Mr. Saeed Fakri, Dr. Samriti Mahajan, Dr. Swati Punjani, Ms. Neha Lather, Dr. Shikta Singh, Dr. D. Sudarsana Murthy, Ms. Ruchi Priya Khilar, Dr. M.S.R. Sesha Giri, Dr. Manabhanjan Sahu, Prof. Ramesh Chandra Panda 54: A METHOD FOR EMPLOYEES' SATISFACTION THAT REDUCES TURNOVER INTENTION OF EMPLOYEES AND LEADERSHIP 00: -

The present invention relates to a method (100) for employees' satisfaction that reduces turnover intention of employees and leadership that makes employee growth. The method (100) comprises a processor operably connected with the memory unit. The processor is configured to generate (102) online questioning to collect the information about the turnover intention of employees and leadership to the employees unit; receive (104) the online behavior data of the employees by the employees unit; analyze (106) the received online behavior data; if analyzed (108) data related to the turnover intention of employees and leadership; graphically alert red mark is generated (110) before the name of the employee to reduces turnover intention of employees and leadership that makes employee growth. The method (100) provides an effective measure for the growth of employees and uses the

leadership styles such as internal and external factors.



21: 2022/04838. 22: 2022/05/03. 43: 2022/07/18 51: F24F

71: Dr. Parmod Kumar, Dr. Haili Liu, Dr. Xie Changqing, Prof. Dr. Tirthankar Datta, V. Suneel Reddy, K. Sreelakshmi, Dr. N. Krishna Chaitanya, Dr. Swati Punjani, Dr. Angesh K Chandra, Dr. Sangeeta Sahu, Dr. Chandra Prabha Sahu, Dr. Ajeet Kumar Shrivastava, Dr. Ratnesh Tiwari, Prof. Ramesh Chandra Panda

72: Dr. Parmod Kumar, Dr. Haili Liu, Dr. Xie Changqing, Prof. Dr. Tirthankar Datta, V. Suneel Reddy, K. Sreelakshmi, Dr. N. Krishna Chaitanya, Dr. Swati Punjani, Dr. Angesh K Chandra, Dr. Sangeeta Sahu, Dr. Chandra Prabha Sahu, Dr. Ajeet Kumar Shrivastava, Dr. Ratnesh Tiwari, Prof. Ramesh Chandra Panda

54: A NOVEL IOT BASED INDIGENOUS NANO FILTER EARTHEN AIR CONDITIONING SYSTEM 00: -

The present invention relates to a novel IoT-based indigenous nano-filter earthen air conditioning system (100). The system (100) comprises an air filter unit, a brushless DC cooling fan (112), a plurality of sensors, a central processing unit (116), a power unit, and an alerting unit (120). The air filter unit (104) is configured to filter the air. The air filter unit (104) comprises an Ultraviolet (UV) light unit (106), a first filter layer (108), and a second filter layer (110). The Ultraviolet (UV) light unit (106) is configured to kill bacteria and viruses. The first filter layer (108) is of activated carbon mesh. The first filter layer (108) is configured to stop volatile organic compounds, smells, and poisonous gases. The second filter layer (110) is of silver nanoparticles decorated on P25, configured to filter particles and

dust. The silver nanoparticles decorated on P25 were uniformly coated on a large-sized conductive copper foam (up to a 10 cm diameter). The air filter unit (104) includes a high-efficiency particulate air filter unit. The air filter unit (104) is operationally connected with the brushless DC cooling fan (112).



21: 2022/04841. 22: 2022/05/03. 43: 2022/07/18 51: B64C; F04D; G01M; H01F 71: GRAPHIC ERA (DEEMED TO BE UNIVERSITY) 72: SIDDHARTH JENA, Dr. AJAY GAIROLA 33: IN 31: 202111051704 32: 2021-11-19 **54: A MULTI-FAN TURBULENCE WIND TUNNEL** 00: -

The invention discloses a multi-fan turbulence wind tunnel device for analyzing the effect of wind by generating natural wind, said device comprising: a plurality of propellers; a plurality of motors; a frame of tunnel; an airfoil; a flat circular disc; a power system; and a remote drive. The frame of tunnel further comprises a housing for a plurality of fans and a plurality of motors, a self-designed contraction casing, safety mesh, divergent mask, and positioning plate; and the propeller further comprises a fan to produce a flow of air parallel to the axis of rotation. The electric current required by said plurality of motors, is obtained by electromagnetic induction from the magnetic field of the stator winding. Moreover, the airfoil is used to control and modulate the flow of air from the wind at required attack angle.



21: 2022/04847. 22: 2022/05/03. 43: 2022/07/18 51: F23D

71: Golden Fried Chicken (Pty) Ltd

72: COLLYER, Brett Lee

33: ZA 31: 2021/03535 32: 2021-05-25

54: LIQUID FUEL LAMP

00: -

THIS invention relates to a liquid fuel lamp. More specifically, the invention relates to a simple and safe liquid fuel lamp for cooking and/or providing light and heat. The liquid fuel lamp includes a container for containing a liquid fuel, a wick, a burner for holding an uppermost part of the wick within a burner recess defined in a top end of the container; and a wick tube within which a bottom-most part of the wick projects towards a flat base end of the container, the wick tube ending short of the base end thereby to define a wick tube gap between the wick tube and the base end. The container further comprises sides extending between the opposing base and top ends, wherein the sides protrude laterally outwardly from the base end and the top end towards a vertex or inflection point such that in use, the container is incapable of settling on its sides and only on either the base end or the top end. In the event of the liquid fuel lamp falling over onto a surface on its top end, the wick tube and wick tube gap cut off fluid communication between the wick and the liquid fuel, while the burner recess cooperatively with such surface act to extinguish the wick.



21: 2022/04848. 22: 2022/05/03. 43: 2022/07/21 51: H04L

71: KRISHNAN, R. Santhana, NARAYANAN, K. Lakshmi, JEYAKUMAR, K., KARPAGARAJESH, G., SANGEETHA, A., RAJKUMAR, G.VINOTH, BAULKANI, S., MURALI, S. Mathumitha, ASIRVATHAM, M., ESSAKIMUTHU, A. 72: KRISHNAN, R. Santhana, NARAYANAN, K.Lakshmi, JEYAKUMAR, K., KARPAGARAJESH, G., SANGEETHA, A., RAJKUMAR, G.Vinoth, BAULKANI, S., MURALI, S.Mathumitha, ASIRVATHAM, M., ESSAKIMUTHU, A. 54: AN IOT BASED DOOR ACCESS CONTROL SYSTEM

00: -

The present invention relates to IOT based door access control and security system for senior citizen, home alone kids, the banking system and used for an anti-thief activity to provide security and safety to the house comprises of a web cam, a display, a firebase database, a relay module, a speaker and a buzzer/alarm, characterized in that; a microprocessor is configured to perform image processing on captured images if the images are

matched and admin provide access then a person is allowed to provide access.

21: 2022/04849. 22: 2022/05/03. 43: 2022/07/21 51: C12M

71: Ankit Dilipkuma Oza, Rohit Sharma, Utsav D. Gadhia, Mohit Diwan, Ashish Kumar Shukla, Gaurav Kumar Pandey, Ramendra Singh Niranjan, Sabana Azim

72: Ankit Dilipkuma Oza, Rohit Sharma, Utsav D. Gadhia, Mohit Diwan, Ashish Kumar Shukla, Gaurav Kumar Pandey, Ramendra Singh Niranjan, Sabana Azim

54: IOT BASED SELF SUSTAINABLE OPTIMISED FLUSHING MECHANISM FOR MICROMACHINING SYSTEM

00: -

A micromachining system (100) for developing a self sustainable optimised flushing mechanism, wherein the system comprises of: an Electrical discharge machining (EDM) Wire cut electrolyte Nozzle (102) for cutting critical and intricate profiles in a workpiece; a controlling module (104) associated with the EDM wire cut electrolyte nozzle (102) for monitoring and controlling the EDM wire cut electrolyte nozzle to form the critical and intricate profiles in the workpiece; and an user interface module (106) connected to the controlling module (104) via a communication module (108) for providing either the intricate profiles, or its dimension or other related details for forming the intricate profiles or a combination thereof.



21: 2022/04856. 22: 2022/05/03. 43: 2022/07/18 51: A45F 71: VILJOEN, Charlotte Christina 72: VILJOEN, Wayne 33: ZA 31: 2019/06637 32: 2019-10-09 54: CARRYING DEVICE AND STRAP FOR THE CARRYING DEVICE 00: - A carrying device (10) including a buckle (12) comprising a stop formation (14) and a strap mount formation (20A, 20B) to which an end of a strap (62) is securable, a lock member (30) comprising at least an abutting formation (32), the lock member (30) being pivotally mounted on the buckle (12) and moveably between a locked condition, wherein the abutting formation (32) of the lock member is moved toward and/or into abutment with the stop formation (14) of the buckle (12) thereby to operatively clamp the strap (60) passing therebetween against movement in at least one direction, and an unlocked position, wherein the abutting formation (32) of the lock member (30) is moved away from the stop formation thereby to operatively enable free movement of the strap (60) therebetween, and a handle (40) having a connecting end (43) and a gripping end (44), wherein the connecting end (43) is pivotally mounted to the buckle (12) and wherein the gripping end (44) is rotatably relative to the connecting end (43) about a rotary axis (A-A).



21: 2022/04879. 22: 2022/05/04. 43: 2022/07/21 51: G06Q

71: LENKA, Reena, LENKA, Rishab

72: LENKA, Reena, LENKA, Rishab

54: AN ARTIFICIAL INTELLIGENCE BASED SYSTEM FOR DEVELOPMENT OF MARKETING MANAGEMENT TOOL

00: -

The present invention relates to an artificial intelligence based system for development of marketing management tool. Wherein an internet connected advertised posters to be displayed only categorized users for a predefined business entity. Further, the user is refined by the use of Al interfaces provided in the secured HTTP environment, which takes input from the various broker firms and previously saved sales / buying record of a user.

21: 2022/04918. 22: 2022/05/05. 43: 2022/07/13 51: E01H

71: City University of Macau, Guangdong Polytechnic Normal University
72: WANG, Boxun, ZHOU, Junling
33: CN 31: 202110756137.X 32: 2021-07-05
54: DEVICE FOR CLEANING FALLEN LEAVES
OF ARCHITECTURAL LANDSCAPE
00: -

The present invention provides a device for cleaning fallen leaves of architectural landscape, including a base, wherein one end of the base is provided with two first pillars, one side of the first pillar is provided with two second pillars, and the first pillars and the second pillars are integrally formed with the base; lower parts of the first pillars at both ends and upper parts of the second pillars are connected with a conveyor belt; a middle portion of the first pillar is provided with a first connecting lug, and one end, away from the first pillar, of the first connecting lug is rotatably connected with a support rod; a middle portion of the support rod is provided with a second connecting lug, a third connecting lug is arranged above the first pillar, and an electric cylinder is connected between the second connecting lug and the third connecting lug.



21: 2022/04919. 22: 2022/05/05. 43: 2022/07/13 51: E02D; E04B

71: Shandong University, Shandong Yimeng Design Consulting Co., Ltd., Linyi City Construction Engineering Working Drawing Examination Co., Ltd. 72: HOU, Hetao, ZHANG, Xiuxuan, ZHANG, Xinghai, YANG, Yonghuan, HUANG, Yongsheng, GAO, Mengqi, XU, Haobo, CHEN, Yang, YU, Cheng, XU, Shujian

54: CONNECTING SYSTEM AND CONNECTING METHOD FOR PRECAST COMPOSITE FOUNDATION AND PRECAST CONCRETE COLUMN

00: -

The present disclosure discloses a connecting system and a connecting method for a precast composite foundation and a precast concrete column. The system includes a precast composite foundation and a precast concrete column. The foundation includes a peripheral wall protecting plate and an inner diaphragm. The peripheral wall protecting plate is divided into a plurality of cavities by the inner diaphragm. A positioning groove is formed in the top of the inner diaphragm. Reserved longitudinal bars are arranged at the bottom of the precast concrete composite foundation. The precast concrete composite foundation and the precast concrete column are respectively provided with positioning embedded parts and reserved holes. The bottom edge of the precast concrete column is clamped in the positioning groove. The positioning embedded parts are aligned with the reserved holes up and down and inserted therein. The reserved longitudinal bars are inserted into the cavities.



21: 2022/04920. 22: 2022/05/05. 43: 2022/07/12 51: A61B

71: Yichang Central People's Hospital (First Clinical Medical College of Three Gorges University, Central People's Hospital Affiliated to Three Gorges University)

72: Xiaogang Peng, Chao Zhang 54: A LUNG CANCER BIOPSY PUNCTURE POSITIONING DEVICE 00⁻ -

The invention discloses a lung cancer biopsy puncture positioning device, comprising a base, and the base is provided with several grids, there are sliding chute and height adjustment device on one side of the grids, and the height adjustment device slides on the sliding chute; the height adjustment device includes slider that slides on the sliding chute and height adjustment cylindrical sleeve set on the slider, the height adjustment cylindrical sleeve is provided with stop block, and one side of the stop block is provided with connecting rod and guidance appliance; there is height adjustment knob at the bottom of the height adjustment cylindrical sleeve, and the height of the stop block is adjusted through the gear stud structure, the grids of the present invention are vertically arranged, which will not affect the CT image, and the lung puncture operation can be performed under the guidance of CT, the present invention has a high degree of freedom, and can be flexibly adjusted to the puncture position and select the appropriate puncture point, the invention can also preset the puncture depth according to the influence of CT, so as to improve the precision of puncture and avoid excessive puncture.



21: 2022/04921. 22: 2022/05/05. 43: 2022/07/12 51: G01N

71: Hebei Institute of Geological Survey, China University Of Geosciences, wuhan 72: JIN Song, GUO Hua, LI Xiaofeng, LIN Qian, WANG Xingyan, HAN Yabin, WANG Ziyang, WU Liang, TAO Guanghuo, CHEN Jingyao 54: INVERSION EVALUATION METHOD OF ATMOSPHERIC PCO2 AND SEAWATER CHEMICAL COMPOSITION 00: -

The invention provides an inversion evaluation method of atmospheric pCO2 and seawater chemical composition, which comprises five steps: basic geological research, identification of carbonate protozoa, genetic mechanism research of authigenic minerals, isotopic composition and evolution, data integration and system integration. The inversion evaluation method of atmospheric pCO2 and seawater chemical composition reconstructs the concentration change of ancient ocean and DIC by using delta44Ca isotopic composition of carbonate rocks, Furthermore, the chemical composition of atmospheric pCO2 and seawater can be qualitatively/semi-quantitatively evaluated. At the same time, the systematic study of sedimentology and high-resolution Ca isotopic composition of Gaoyuzhuang Formation in Mesoproterozoic provides an important constraint for further limiting the scale of atmospheric pCO2, seawater DIC and ocean Ca cycle process in this period. Based on the study of Ca isotopic composition, it is expected to provide a more comprehensive understanding of the chemical composition of atmosphere and seawater in this period from different angles.



21: 2022/04922. 22: 2022/05/05. 43: 2022/07/12 51: E21B

71: Anhui University of Science and Technology, Institute of Energy, Hefei Comprehensive National Science Center

72: ZHANG, Qinghe, LIANG, Zhiwei, XU, Diqi, CHEN, Chen, ZHENG, Tianle

54: INTELLIGENT DETECTION METHOD FOR DYNAMIC FRACTURES IN FAILURE PROCESS OF COMPLEX FRACTURED ROCK MASS 00: -

An intelligent detection method for dynamic fractures in failure process of complex fractured rock mass, belonging to the field of rock mass fractures detection. In the present invention, complex fractured rock mass test blocks are made by 3D printing technology, and speckles are formed on surface, and the whole failure process of the test blocks under an uniaxial loading test is captured by a camera so as to obtain speckle pictures, and the obtained pictures are subjected to strain field calculation and evolution by digital image technology, so as to obtain evolution nephograms of the strain field, and an in-depth learning training set and a test set are directly established and expanded with Mosaic data enhancement technology. Then the fractures are classified, and the obtained expanded

nephogram is iteratively trained and detected by depth convolution neural network YOLO algorithm.



21: 2022/04923. 22: 2022/05/05. 43: 2022/07/12 51: C10L

71: Dongying Clean Chemical Co., Ltd., CHEN, Zhengong

72: CHEN, Zhengong

33: CN 31: 202210263483.9 32: 2022-03-17 54: HIGH-EFFICIENCY AND ENVIRONMENT-FRIENDLY MODIFIED ALCOHOL-BASED COMPOSITE FUEL AND PREPARATION METHOD THEREOF

00: -

The present invention provides a high-efficiency and environment-friendly modified alcohol-based composite fuel and a preparation method thereof, and relates to the technical field of environmentfriendly fuel. The high-efficiency and environmentfriendly modified alcohol-based composite fuel provided by the present invention includes, based on weight percentage, the following raw materials: 10-30% of n-pentane, 10-20% of methyl tert-butyl ether, 20-30% of octane, 10-20% of o-xylene, 10-20% of m-xylene, 5-10% of 1,2,3-trimethylbenzene, 5-33% of methanol, 0.2% of dimethylacetamide, 0.2% of isopropyl nitrate, 0.2% of ethylene glycol monomethyl ether, 0.2% of isopropyl ether, 0.2% of fatty alcohol, 0.2% of lauryl alcohol, and 0.8% of polyhydric crude alcohol. The high-efficiency and environment-friendly modified alcohol-based composite fuel provided by the present invention has

excellent stability at a low temperature (-40 degrees Celsius for a month) and is not easy to stratify.

21: 2022/04924. 22: 2022/05/05. 43: 2022/07/13 51: G05B

71: ANQING NORMAL UNIVERSITY

72: LIU Chong, YANG Cui, HUANG Shihua, XU Juan

54: DYNAMIC SCHEDULING METHOD FOR TWO-STEP PROCESSING OF FAULT-FREE RGV INTELLIGENT SYSTEM

00: -

The application discloses a dynamic scheduling method for two-step processing of a fault-free RGV intelligent system, comprising: The RGV intelligent machining system, which takes the data of processing time of productsin a single two-step process through the RGV system as system parameters, and carries out the symmetrical machining of cutter heads for four groups on both sides of a single track. The processing time of onestep processing of the product and the idle total time of the CNC cutter head of two-step processing are taken as the maximum target; considering the number of processed items, processing duration and CNC labels of processing cutter head as system constraint variables, the state transition takes place with the time, queuing theory--the dynamic programming model is established to predict and analyze the production and processing of batch products. The random incremental learning mechanism is used to find the best one-step and two-step processing allocation scheme of CNC processing cutter head, which provides the basis for work plan for production.



21: 2022/04925. 22: 2022/05/05. 43: 2022/07/11 51: G01R

71: Anhui Guosheng Quantum Technology Co., Ltd. 72: ZHAO, Bowen, ZHANG, Shaochun

33: CN 31: 202110994982.0 32: 2021-11-22 54: FIBER-OPTIC CURRENT TRANSFORMER BASED ON NITROGEN-VACANCY (NV) CENTERS IN DIAMOND, AND MEASUREMENT METHOD

00: -

The present disclosure relates to the technical field of current sensors, and provides a fiber-optic current transformer based on nitrogen-vacancy (NV) centers in diamond, and a measurement method. The fiberoptic current transformer based on NV centers in diamond includes a device for laser light excitation and reflected light reception and analysis, a diamond NV center probe, a magnetic concentrator, and a microwave excitation device. The fiber-optic current transformer based on NV centers in diamond

includes three measurement methods: an all-optical measurement method, a non-all-optical measurement method, and a measurement method combining the all-optical measurement method and the non-all-optical measurement method. A sensor in the present disclosure has advantages of a simple structure, strong practicability, resistance to external interference, and strong robustness.



21: 2022/04926. 22: 2022/05/05. 43: 2022/07/11 51: A01K

71: Shanghai Ocean University

72: CHEN Leilei, LI Jun, LI Huaijin, ZU Xilong, HU Qingsong

54: INTEGRATED FLOATING DOMESTICATION DEVICE FOR FISHES

00: -

The application relates to an integrated floating domestication device for fishes, which comprises a floating body, a feedbox, a spiral driving part, audio and video components and a counter-balanced carriage; a longitudinal feed channel is arranged in the floating body, the feedbox is fixed at the top of the floating body, and the opening at the bottom of the feedbox is connected with the feed channel; the spiral driving part is arranged in the feedbox, and the driving end of the spiral driving part is inserted into the feed channel; the counter-balanced carriage is fixed at the lower end of the floating body, and the audio and video components are fixed on the counter-balanced carriage for releasing voices and monitoring. The integrated floating domestication device for fishes, adopts the floating body, the buoyancy supply part is completely solid, so it is still very stable even under extreme sea conditions. The device solves the problems of the conventional fish domestication devices that it is difficult to prevent flooding and sinking, and it is easy to roll over, and can achieve the effect of long-term stable work. It is safer and more stable with the counter-balanced carriage.



21: 2022/04927. 22: 2022/05/05. 43: 2022/07/13 51: A61L

71: The Fifth People's Hospital of Wuxi

72: YAN Yan 54: SPRAY DISINFECTION DEVICE FOR PERSONAL PROTECTIVE ARTICLES OF RESPIRATORY TRACT PATHOGEN 00: -

The invention discloses a spraying disinfection device for personal protective articles against respiratory pathogens, which comprises a disinfection room, a first dressing room and a second dressing room which are communicated in sequence, wherein the disinfection room comprises a disinfection bin body communicated with the first

dressing room, a spraying disinfection part and a plurality of ultraviolet lamps are arranged on the inner side wall of the disinfection bin body, an auxiliary disinfection mechanism is arranged at the bottom of the inner side wall of the disinfection bin body, a static disinfection part is arranged at the bottom of the inlet of the disinfection bin body, negative pressure equipment is communicated in the disinfection bin body, and a ventilation and filtration part is arranged at the top of the disinfection bin body; the spraying disinfection part, a plurality of ultraviolet lamps, the auxiliary disinfection mechanism, the ventilation and filtration part and the negative pressure equipment are electrically connected with the control unit respectively. The invention can completely disinfect medical staff and protective articles, and prevent pathogens on the surface of protective articles from being taken away to form infection.



21: 2022/04963. 22: 2022/05/06. 43: 2022/07/14 51: B01J

71: Qingdao Huicheng Environmental Technology Co., Ltd., China University of Petroleum(East China) 72: WANG Ting, ZHANG Jinqing, GAO Mingjun, TAN Yinglin, FENG Xiang, ZHANG Xingong, YANG Chaohe

54: CATALYST FOR PRODUCING LOW-CARBON ALKENE BY CATALYTIC CRACKING OF WASTE PLASTICS AND PREPARATION METHOD THEREOF

00: -

The invention discloses a catalyst for producing lowcarbon alkene by catalytic cracking of waste plastics and a preparation method thereof, belonging to the technical field of catalyst preparation. The catalyst of the invention comprises the following components in parts by weight: 20-50 parts of modified Y-type molecular sieve, 10-15 parts of composite molecular sieve, 10-30 parts of carrier and 5-20 parts of binder. The catalyst prepared by the invention has good catalytic cracking effect, the yield of low-carbon alkene is above 60%, and the cracking temperature is reduced from 450 Celsius degree to 350 Celsius degree, still maintaining good catalytic cracking performance.

21: 2022/04964. 22: 2022/05/06. 43: 2022/07/14 51: A61K; C12N

71: Guangxi Medical University

72: LI Hui, HE Min, YANG Lichao, WEN Sha, CHEN Qiuli, LI Yongfeng

54: EXPRESSION, PURIFICATION METHOD AND APPLICATION OF 19-201AA AT THE N-END OF RECOMBINANT HUMAN RETINOL-BINDING PROTEIN 4

00: -

The application relates to the field of biotechnology, and in particular to 19-201aa at the N-end of recombinant human retinol-binding protein 4, its purification method and the application of the protein. The application provides a construction method of a recombinant human retinol-binding protein 4 N-end 19-201aa expression vector by utilizing Escherichia coli to express and purify the recombinant human retinol-binding protein 4, and the induced and expressed recombinant human retinol-binding protein 4 N-end 19-201aa is purified through two steps of Ni agarose gel chromatography column and KCL method gel cutting recovery. The recombinant human retinol-binding protein 4 N-end 19-201aa prepared by the method has the characteristics of high yield, high purity and low cost, and provides the technical scheme that the RBP4 protein is used as the quantitative standard of ELISA kit.



21: 2022/04965. 22: 2022/05/06. 43: 2022/07/14 51: A01H

71: Zhejiang Institute of Garden Plants and Flowers 72: ZhangJiaQiang, ZhuKaiYuan, XuWenTing, LiuHuiChun

54: CULTURE MEDIUM FOR TISSUE CULTURE OF LONICERA FRAGRANTISSIMA 00: -

The present invention relates to the technical field of Lonicera fragrantissima cultivation, and in particular to a culture medium for tissue culture of Lonicera fragrantissima. The present invention specifically includes an induction medium, a proliferation medium and a rooting medium. In this present invention, tender stem segments of Lonicera fragrantissima are used as explants and cultured by three culture media to rapidly obtain rooted seedlings of Lonicera fragrantissima. The present invention establishes a technical system for tissue culture and rapid propagation of Lonicera fragrantissima, thereby providing technical supports for the storage and rapid propagation and breeding of Lonicera fragrantissima high-quality germplasm and applications thereof in researches and production. The method of the present invention is simple and convenient, and has low contamination rate and high regeneration success rate, thus shortening the culture cycle obviously.

21: 2022/04966. 22: 2022/05/06. 43: 2022/07/14 51: E02D

71: Institute Of Water Resources for Pastoral Area,MWR

72: ZHANG Xin, GUO Jianying, LIU Tiejun, ZHANG Tiegang, YANG Zhenqi, ZHANG Huitong, BAI Luyi, HU Jinghua

54: SLOPE PROTECTION MATERIAL AND PREPARATION METHOD THEREOF 00: -

The invention discloses a slope protection material and a preparation method thereof, belonging to the technical field of soil and water conservation. The slope protection material comprises an upper layer and a lower layer; The upper layer is a degradable material net, the lower layer is a reverse filter layer, the upper layer and the lower layer are connected by an adhesive layer, and the reverse filter layer is composed of composite inorganic spheres. The preparation method comprises weighing straw fiber, ceramics, fly ash, organic fertilizer, super absorbent resin, seeds and quartz sand, mixing and granulating to prepare composite inorganic spheres; Cutting a degradable material net, coating an adhesive layer on the surface of the degradable material net, then paving a composite inorganic sphere on the surface of the adhesive layer, and naturally drying to obtain the slope protection material. The slope protection material provided by the invention is square, can be laid and spliced when in use, is convenient and quick, and is suitable for large-area operation and construction; moreover, the slope protection material has a wide source of raw materials and a simple preparation process, and has a remarkable effect on soil erosion control.

21: 2022/04967. 22: 2022/05/06. 43: 2022/07/14 51: A01G

71: Central South University of Forestry and Technology

72: Yan Wende, DuanYuan HuiZhen, OuYang GuanYi, Wu Xiaohong, Wang Jun

54: INTERCROPPING METHOD FOR IMPROVING SOIL NUTRIENT AND ENZYME ACTIVITY OF CAMELLIA OLEIFERA

00: -

This invention provides intercropping method for improving soil nutrient and enzyme activity of camellia oleifera, and relates to the technical field of soil improvement. In the present invention, weeding and soil preparation are first carried out in the young camellia oleifera forest, and then cassia seeds are sown in the holes among the young camellia oleifera forests. The planting method of the invention can significantly improve the soil fertility and enzyme activity of the camellia oleifera seedlings, and significantly promote the growth of the camellia oleifera seedlings.



21: 2022/04969. 22: 2022/05/06. 43: 2022/07/14 51: A01G

71: Institute of Highland Forest Science, Chinese Academy of Forestry

72: Yang Wenyun, Su Jianrong, Yang Shiyu, Luo Xiang, Li Zhiguo, Zhao Jiejun

54: METHOD FOR ACCELARATING THE OVERWINTERING BUD SPROUTING OF PARIS POLYPHYLLA VAR. YUNNANENSIS 00: -

This invention provides method for accelerating the overwintering bud sprouting of Paris polyphylla var. yunnanensis, relating to the technical field of Paris polyphylla var. yunnanensis planting, which includes nutrient regulation: from late August to late September, spraying the leaves of Paris polyphylla var. yunnanensis with potassium nitrate solution till droplets are formed on the surface of leaves at cloudy or overcast afternoon; light regulation: after the aerial parts of the plants have withered and before the overwintering buds have emerged, keeping natural light transmission in the wildsimulated plantation and uncovering sunshade nets in the protected plantation to meet the needs of soil solarization; water regulation: before and after the aerial parts of the plants have withered, and before the overwintering buds have emerged on the soil surface, regulating the water content of soils in plantations. Adopting the coordinated regulation techniques of light, water and nutrient improves the cold and drought resistance of Paris polyphylla var. yunnanensis. Not only most of the overwintering buds can sprout and emerge at normal phenological phase, but also the emergence duration is shortened, which are very convenient for growers to take measures of the standardized cultivation and management according to the crop calendar of Paris polyphylla var. yunnanensis. As a result, this method can improve the rhizome yield effectively at the population level and achieve the goal of plantation with high sustainable yield.

Nutrition regulation: From late August to late September, spraying the leaves of *Paris polyphylla* var. *yunnanensis* with potassium nitrate solution at cloudy or overcast afternoon till droplets are formed on the surface of leaves.

Light regulation: After the aerial parts of the plants have withered and before the overwintering buds have emerged on the soil surface, keeping the natural light transmission in the wild-simulated plantation and uncovering sunshade nets in the protected plantation to meet the needs of soil solarization.

Water regulation: Before and after the aerial parts of the plants have withered, and before the overwintering buds have emerged on the soil surface, regulating the water content of soils in plantations.

21: 2022/04970. 22: 2022/05/06. 43: 2022/07/14 51: A01G

71: Zhengzhou University of Aeronautics
72: Zhao Zihao, Li Wei
54: A FLOWER AND GRASS SPRAYING
IRRIGATION DEVICE ON BOTH SIDES OF
GARDEN ROAD

00: -

The invention discloses a flower grass spraying irrigation device on both sides of Garden Road,

including a horizontal plate and two vertical plates. The upper end face of the roof is provided with a bracket, a crankshaft is installed on the support, and a vertical double-sided rack is arranged on the inside of the two vertical plates, both of which are provided with horizontal rotating rods, and the rotating rod is provided with a fan gear near the bottom end of the double rack, The two fan gears are meshed with two sides of the double-sided rack respectively. The rotating rod is provided with an adjusting rod away from the two-sided rack end, and the rotating rod is hollow set. The adjusting rod extends into the inner cavity of the rotating rod, the outer end of the regulating rod is provided with a water spray shell, and the outer side of the spray shell is provided with multiple evenly arranged nozzles. The invention has simple structure, can be sprayed at both sides simultaneously, and the spraying irrigation efficiency is high, water resources can be saved, continuous spraying can be carried out, uniformity of spraying of flower and grass nursery can be improved, and operation is simple and convenient to use.



21: 2022/04971. 22: 2022/05/06. 43: 2022/07/14 51: B29C

71: Zhengzhou University of Aeronautics

72: Jiao Bin, Ge Lu, Guo Yuge, Huang Hua, Yang Xinxin, Sun Jianhua, Wu Hao

54: A HYDRAULIC LOCK FOR AVIATION SEAT 00: -

The invention discloses an aviation seat hydraulic lock, which relates to the technical field of hydraulic lock. It solves that the piston rod of hydraulic lock in

the market uses a single sealing ring to ensure its sealing performance. The greater the pre deformation of the sealing ring, the better the sealing performance, but when the pre deformation is increased, the pressure on the sealing ring becomes larger and the friction force generated during sliding increases, When the wear amount reaches a certain value, the sealing property of the sealing ring can not be guaranteed, but the existing hydraulic lock is an integral structure, which is not easy to dismantle and replace the sealing ring, which leads to the technical problems that the hydraulic lock can not be used normally; The bottom end of the lock body is provided with linkage rod through the movable rod rotation; The invention has the seal plate connected with the left inner thread of the connecting sleeve through the thread section, and the sealing plate can be turned to take out the sealing ring from the inside of the connecting sleeve, which can realize the disassembly and replacement of the sealing ring, so as to avoid the inconvenient disassembly and replacement of the sealing ring, which causes the hydraulic lock to be not used normally.



21: 2022/04972. 22: 2022/05/06. 43: 2022/07/14 51: C08B; C12P

- 71: Qingdao Agricultural University
- 72: SUN, Qingjie, ZHOU, Liyang, JI, Na, QIN, Yang, DAI, Lei, DONG, Xuyan, XU, Xingfeng, XIONG, Liu 54: METHOD FOR PREPARING RESISTANT STARCH FROM VERMICELLI BYPRODUCTS 00: -

The present invention relates to the technical field of resistant starch, and in particular to a method for preparing resistant starch from vermicelli byproducts.

According to the present invention, using the vermicelli byproducts as a raw material, resistant starch is prepared through pullulanase debranching, recrystallization and thermal annealing treatments. The method has advantages such as low cost, simple preparation, and no need for chemical reagents.



21: 2022/04973. 22: 2022/05/06. 43: 2022/07/14 51: B01J

71: Shaoxing University, Zhejiang Changhai Pharmaceutical Co., Ltd

72: WEI Xuemei, CAO Ruiwei, LIU Luo, CHEN Long, SHENG Li, SHEN Runpu, SHI Yujian, SHEN Hualiang, YU Guoqi, XU Huiting
33: CN 31: 202111569025.X 32: 2021-12-21
54: RHODIUM-IRON BIMETALLIC
HYDROGENATION CATALYST, PREPARATION
METHOD AND APPLICATION

00: -

The application provides a rhodium-iron bimetallic hydrogenation catalyst, a preparation method and application thereof, and belongs to the technical field of iron-containing metal catalysts. Rhodium-iron bimetal is loaded on the surface of activated carbon in the form of alloy, wherein the mass percentage of rhodium in the carrier is 3-6%, and the molar ratio of rhodium to iron is 1-4:1. Compared with the traditional Rh/C catalyst, the rhodium-iron bimetallic catalyst is easy to synthesize, the low-temperature atomic release improves the intrinsic activity of the catalyst. Using iron as an structural assistant and electronic assistant at the same time, the catalyst shows ultra-high stability and selectivity in the dehydroxylation step of minocycline synthesis

process, and the activity and selectivity are not obviously reduced after repeated use for 15 times, thus solving the difficult problem that the precious metals of the traditional heterogeneous catalyst are easily lost in strong acidic media, and being suitable for industrial production.



21: 2022/04974. 22: 2022/05/06. 43: 2022/07/14 51: A01G

71: Northwest University of agriculture and forestry science and technology, Shaanxi Fuk Agricultural Materials Co., Ltd., Baishui Shenglong Fruits Co., Ltd., Yunnan Linjihe Agricultural Technology Co., Ltd.

72: LIANG Jun, DUAN Baozhen, ZHAO Kun, LV Ya, GUO Xiongxiong, WANG Li, JING Shujuan 54: FERTILIZATION METHOD WITH PRIORITY TO APPLE QUALITY

00: -

The invention discloses a fertilization method with priority to apple quality, which belongs to the technical field of agricultural fruit tree cultivation. The fertilization method of the invention is as follows: apply water-soluble fertilizer in the form of drip irrigation or topdressing gun from germination to flowering stage, after flowering to before spring shoot stops growing, and for a long time, and apply fertilizer 2-4 times, 2-10kg per mu each time; During autumn shoot growth, water-soluble fertilizer shall be

applied by drip irrigation or topdressing gun for 1-4 times, with 2-10kg per mu each time; When the autumn shoots stop growing until the leaves fall, apply organic fertilizer and water-soluble fertilizer in the way of soil ditching and fertilization. The amount of fertilization is 27.75-78.4kg per mu. By reasonably adjusting the amount of fertilization in different periods and the content ratio of various nutrient elements in water-soluble fertilizer, the invention can optimize the balance between nutritional growth and reproductive growth of apple, has the highest yield on the premise of the best apple quality, saves fertilizer and labor, and is of great significance in the development of apple industry.

21: 2022/04975. 22: 2022/05/06. 43: 2022/07/14 51: A61K

71: INSTITUTE OF CHINESE MATERIA MEDICA CHINA ACADEMY OF CHINESE MEDICAL SCIENCES

72: ZHU Guangwei, SUN Bo, QU Yuanzhang, LIU Jiameng, ZHOU Guanru, LI Baoguo, JIAO Xiaolan, LUO Zhanglong

33: CN 31: 202210366872.4 32: 2022-04-08 54: A CHINESE MEDICINAL COMPOSITION FOR TREATING INFECTIOUS FEVER, AND ITS PREPARATION METHOD 00: -

The invention discloses a traditional Chinese medicine composition for treating infectious fever and a preparation method thereof, belonging to the technical field of antipyretic traditional Chinese medicine compositions. The traditional Chinese medicine composition for treating infectious fever consists of 1 part of Panax Ginseng and 1 part of Calculus bovis in parts by mass. The traditional Chinese medicine composition for treating infectious fever disclosed by the invention is simple in taste and only consists of two traditional Chinese medicines; The preparation method is simple; The prepared Chinese patent medicine has obvious antipyretic effect on the rat fever model caused by lipopolysaccharide (LPS) after being administered by stomach, and the effect is quick and lasting.



21: 2022/04976. 22: 2022/05/06. 43: 2022/07/14 51: A01N

71: Weifang University of Science and Technology 72: Jinfu Lv, Yuanyuan Yang, Xiaowei Liu, Jiankai Zhao, Gang Huang, Yiping Pan

33: CN 31: 202210406355.5 32: 2022-04-18 54: A PREPARATION METHOD OF ROOTING REAGENT FOR BALCONY VEGETABLE PLANTING AND ITS APPLICATION 00: -

The invention provides a preparation method of rooting reagent for balcony vegetable planting and its application. First, fully dried lincamphor leaves, selaginella and enterprolifera are crushed and mixed respectively to obtain mixed powder. Then adding the mixed powder to the water, stirring and mixing them to get pulp i. The enzymolysis and centrifugation are carried out to obtain the enzymatic hydrolysate. Then soybean pulp is used as raw material, added into water and mixed to get pulp ii. Sterilizing and injecting them with a mixture of candida, bacillus subtilis and bacillus licheniformis. Fermenting and centrifuging the fluid to obtain fermentation liquor. Then, stirring and mixing enzymatic hydrolysate and fermentation liquor to get the mixture. And then, adding alkyl glycosides to the mixture and stirred until it is completely dissolved. Finally, adding organic bentonite, coconut bran, grass ash, fully stirring and mixing them into a pulp. The rooting reagent for balcony vegetable planting is suitable for tomato and cucumber planting, the rooting rate and survival rate are high, and the application prospect is broad.

^{21: 2022/04977. 22: 2022/05/06. 43: 2022/07/14} 51: E21B

^{71:} North China Institute of Science and Technology, Jiangsu Hengyichuang Intelligent Technology Co.,

Ltd., China University of Mining & Technology, Beijing, Yulin Vocational and Technical College Shenmu Campus

72: CHENG Zhiheng, GAO Haobin, ZHANG Jingui, CHEN Liang, LI Rui, Al Guo, LI Jianfa, ZHAO Zhiqiang, LIU Qiang, GUO Kai, CHEN Haoyi, XUE Ao, ZHAO Zhechen

54: BOREHOLE GAS BLOWOUT PREVENTION AND COLLECTION DEVICE

00: -

The invention discloses a borehole gas blowout prevention collecting device, which comprises a collecting four-outlet fixed on a coal seam, wherein the collecting four-outlet is detachably provided with a mounting sleeve at one side far away from the coal seam, an annular bearing seat is detachably arranged in the mounting sleeve, a cover plate is detachably arranged at the end of the mounting sleeve, a first sealing filler is arranged between the annular bearing seat and the end of the collecting four-outlet, a second sealing filler is arranged between the annular bearing seat and the cover plate, and the middle of the first sealing filler and the second sealing filler is provided with a perforation matched with a drill rod. When the invention is in use, the two sealing fillers are tightly attached to the surface of the drill rod under the action of the cover plate, which greatly improves the reliability and durability of the sealing, reduces the replacement frequency of the sealing structure, and improves the working efficiency compared with the structure of a single seal ring made of beef tendon (light yellow and translucent material, named for its color and shape similar to beef tendon) in the prior art.



21: 2022/05045. 22: 2022/05/09. 43: 2022/07/14 51: A23K

71: Sheng Long Bio-Tech International Co., Ltd, Shanghai Ocean University

72: HU, Haibin, LI, Songlin, MEI, Yiqiang, YUN, Biao, QIAN, Xueqiao, LI, Yanxian, LIU, Jintao, LI, Wanru, CUI, Xianjun, ZHUANG, Jiecheng, WANG, An, YU, Hongchang, TENG, Jianfu, WANG, Zixiong 54: COMPOSITE FEED ATTRACTANT FOR IMPROVING FOOD INTAKE OF TRACHINOTUS OVATUS AND PREPARATION METHOD THEREOF 00: -

The present invention relates to a composite feed attractant for compound feed for improving food intake of middle-adult fish of Trachinotus ovatus and preparation method thereof, including the following components in parts by weight: Antarctic krill meal of 10-20 parts, squid paste of 5-10 parts, DMPT of 5-10 parts, betaine of 20-30 parts, yeast extract of 5-10 parts, squid oil of 5-10 parts, taurine of 3-5 parts, arginine of 3-5 parts, nucleotide of 5-8 parts, antioxidant of 0.02-0.03 part, mildew preventive of 0.02-0.03 part, and soybean meal of 5-20 parts. The feed attractant of the present invention can achieve a long-term effective and broad-spectrum attractant effect, and can also improve disease resistance, immunity and survival rate of Trachinotus ovatus.

21: 2022/05046. 22: 2022/05/09. 43: 2022/07/14 51: A23K

71: Sheng Long Bio-Tech International Co., Ltd 72: HU, Haibin, LI, Yanxian, LIU, Jintao, WANG, An, YU, Hongchang, LI, Wanru, YUN, Biao, QIAN, Xueqiao, ZHUANG, Jiecheng, MEI, Yiqiang, WU, Jianghua

54: PUFFED COMPOUND FEED FOR IMPROVING GROWTH, FOOD INTAKE AND SURVIVAL OF MIDDLE-ADULT FISH OF TRACHINOTUS OVATUS

00: -

The present invention relates to a puffed compound feed for improving growth and food intake of middleadult fish of Trachinotus ovatus and preparation method thereof, including the following components in parts by weight: Peruvian Taiwan-grade fish meal, Antarctic krill meal, Vietnamese 65% sea fish meal, Indian 65% sea fish meal, pet food grade chicken meal, porcine haemoglobin meal, cottonseed protein, corn gluten meal, soybean meal, cassava starch, high gluten flour, zymolytic squid paste, zymolytic fish dissolved pulp, squid oil, refined fish oil, granulesten oil, monocalcium phosphate, vitamin premix, mineral salt premix, choline chloride, astaxanthin, DMPT feed attractant, antioxidant, and

mildew preventive. The present invention has benefits as follows: it is easy to manufacture the structure of the feed formula with a stable manufacturing process of low current, low energy consumption, and high input-output ratio.

21: 2022/05047. 22: 2022/05/09. 43: 2022/07/14 51: A23K

71: Sheng Long Bio-Tech International Co., Ltd, Shanghai Ocean University

72: HU, Haibin, LI, Wanru, CUI, Xianjun, ZHUANG, Jiecheng, LI, Ji, MEI, Yiqiang, LI, Yanxian, LIU, Jintao, WANG, An, YU, Hongchang, LI, Songlin, YUN, Biao, QIAN, Xueqiao

54: DEDICATED COMPOUND FEED FOR TRACHINOTUS OVATUS DURING LOW **TEMPERATURE PERIOD**

00: -

The present invention relates to a dedicated compound feed for survival, food intake and growth of Trachinotus ovatus during low temperature period and preparation method thereof, including: Peruvian Taiwan-grade fish meal, Antarctic krill meal, Vietnamese 65% sea fish meal, Indian 65% sea fish meal, chicken meal, porcine haemoglobin meal, cottonseed protein meal, corn gluten meal, soybean meal, high gluten flour, zymolytic squid paste, zymolytic fish dissolved pulp, squid oil, refined fish oil, granulesten oil, monocalcium phosphate, vitamin premix, mineral salt premix, choline chloride, lutein, DMPT, betaine, yeast extract, antioxidant, and mildew preventive. The present invention has the following benefits: low energy consumption, high input-output ratio and good feed appearance; capability of reducing occurrence of diseases of animals during low temperature period and improving survival rate of animals breeded during low temperature period.

21: 2022/05048. 22: 2022/05/09. 43: 2022/07/14 51: E04G

71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: Jin Zhongtao, Qin Zigang, Sheng Guangxin, Wei Linlin, Hu Hong, Zhang Yuncheng, Hui Fu, Li Cheng, Zhao Kaichuang, Zhang Xuewei

54: A CONCRETE COLUMN MOISTURIZING **DEVICE FOR BUILDING CONSTRUCTION** 00: -

The application provides a concrete column moisture retaining device for construction, which relates to the mechanical technical field, including trolley assembly and moisture spray component. The bottom end of the stand is fixed on the upper surface of the bottom plate away from the handrail side, the second connecting rod is tilted upward and set at the top of one side of the vertical frame, the first end of the connecting rod is connected with the bottom end of the second connecting rod, and the first link is set up tilt. The top of the second connecting rod is fixed with a transverse pipe, the nozzle is connected with the horizontal pipe, the water tank and the electric pump are respectively installed on the bottom plate, and the electric pump is located on one side of the water tank. The water inlet end of the electric pump is connected with a connecting pipe, the other end of the connecting pipe runs through the water tank, the outlet end of the electric pump is connected with the outlet hose, and the other end of the water outlet hose is connected with the transverse pipe. The device can effectively reduce the length of the outlet pipe, make it more convenient and simple to moisten the concrete column, and adjust the height of water spray, and solve the problem that the operators can not reach because of the high height of the concrete column.



- 21: 2022/05049. 22: 2022/05/09. 43: 2022/07/14 51: C22B
- 71: Chinese Academy of Geological Sciences

72: ZHANG, Yaoyao, DENG, Yuefei, LIU, Kai, WANG, Jing, JIANG, Peng, YU, Chenghua, ZHANG, Xuejun, ZHAO, Zenan, LIU, Jun 33: CN 31: 202210032155.8 32: 2022-01-12 **54: GOLD ORE PRETREATMENT METHOD** 00: -

The disclosure provides a gold ore pretreatment method, which comprises the following steps: mixing gold ore pulp and an oxidant for oxidation treatment to obtain oxidized ore pulp; mixing the obtained oxidized ore pulp and an alkali solution for alkalileaching treatment to obtain alkali-leached ore pulp; mixing the obtained alkali-leached ore pulp and a leaching agent for leaching to obtain a leachate solution and leaching residues. In the disclosure, the oxidant is added to the gold ore pulp for oxidizing the gold ore, denuding gold inclusions and exposing part of wrapped gold, and the influence of carbonaceous substances on leached gold can be reduced; afterwards, the gold ore is treated by the alkali solution to remove quartz on gold ore surfaces, so as to further denude the gold inclusions and thus improve the leaching rate. Embodiment results show that the gold leaching rate can reach 94.5%.

Gold ore pulp Oxidant
Oxidation treatment
Oxidized Alkali
Solution
Alkali-leaching
treatment
Alkali-leaching
treatment
Leaching
L

21: 2022/05050. 22: 2022/05/09. 43: 2022/07/14 51: B21F

71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU 72: Zhang Chao, Zhang Chao, Yang Yawei, Pan Baoyun, Liu Xiaohong, Sheng Guangxin, Zhang

Xuewei, Song Qingchao, Liu Fei, Zheng Weijian 54: A CUTTING DEVICE FOR PRESTRESSED STEEL STRAND 00: -

The invention discloses a pre-stressed steel strand cutting device, belonging to the technical field of cutting equipment. The pre-stressed strand cutting device includes cutting assembly and feed assembly. The cutting component includes a support part, a cutting part and a blanking part, which are both arranged on the support part, the feed assembly includes a fourth cylinder, a second Lshaped plate, a fifth cylinder and a clamping part, the fourth cylinder is arranged on the cutting part, and the end of the piston rod of the fourth cylinder is fixed on the side surface of the second L-shaped plate, When using, the steel strand is tightened, the first cylinder drives the cutting knife to move down, the first motor drives the cutter to rotate, and the cutting cutter is cut off under the joint action of the first cylinder and the first motor. The cutting device does not need the operator to pull the steel strand to make it move, effectively preventing the operator's hand from being hurt by the barb on the steel strand, Improved operator safety.



21: 2022/05051. 22: 2022/05/09. 43: 2022/07/14 51: B03B

71: Chinese Academy of Geological Sciences 72: ZHANG, Yaoyao, DENG, Yuefei, LIU, Kai, ZHAO, Zhenhua, JIANG, Peng, YU, Chenghua, ZHANG, Xuejun, LIU, Jun, ZHAO, Zenan 33: CN 31: 202210032151.X 32: 2022-01-12 **54: BENEFICIATION METHOD OF GOLD ORE** 00: -

The present invention belongs to the technical field of beneficiation, and provides a method for beneficiation of gold ores. According to the present

invention, a particle size of the gold ore is firstly reduced by grinding, and then the coarse gold is recovered by shaking gravity separation and chute gravity separation, so as to avoid the loss of fine grinding and slime, which is beneficial to reducing the dosage of the medicament; and then the process of rough floatation combined with scavenging and flotation is used to further recover the fine gold and super-fine gold in the tailing of shaking gravity separation and chute gravity separation, thereby improving the recovery rate of the gold concentrate and reducing the grade of the tailings.



21: 2022/05052. 22: 2022/05/09. 43: 2022/07/14 51: A23K

71: Huaiyin Normal University

72: Liu Ying, Xie Peng, Huan Haixia, Qian Shiquan, Yan Guilong

54: FEED FORMULA FOR IMPROVING PRODUCTION PERFORMANCE AND ECONOMIC BENEFITS OF LIVESTOCK OR POULTRY AND PREPARATION METHOD THEREOF 00: -

The present invention provides a feed formula for improving production performance and economic benefits of livestock or poultry and a preparation method thereof, and relates to the technical field of feed. The feed formula for improving production performance of livestock or poultry and economic benefits includes the following components by weight percentage: 50 percentage basal feed, 30 percentage protein feed, 25 percentage heatclearing additive and 5 percentage nutrient. The present invention can exert the heat-clearing and detoxicating effects by adding Cortex phellodendri chinensis, Coptis chinensis, Gardenia jasminoides, Fructus Arctii and Radix isatidis to the feed such that livestock or poultry grows healthily, thereby reducing the probability of constipation occurrence and medical costs. The extra-added soyabean protein flour, fish meal, meat meal, meat and bone meal can effectively increase the protein content in the feed such that livestock or poultry can obtain sufficient protein nutrition. Moreover, in this present application, pumpkin peel and flesh and wheat bran are used in the basal feed, and are all the byproducts with low cost, which further reduces the cost of the feed in the premise of not affecting nutrition.



21: 2022/05053. 22: 2022/05/09. 43: 2022/07/14

51: G06F

71: South China Institute of Environmental Science, Ministry of Ecology and Environment
72: WEN, Youyue, LIANG, Minxuan, WEI, Zushuai, PAN, Cuihong, FENG, Lijing, LUO, Zhaohui, QIU, Zhiyuan

54: STEPWISE MULTIPLE REGRESSION ANALYSIS METHOD FOR VEGETATION GROWTH CHANGE COUPLED WITH CLIMATE ACCUMULATIVE EFFECTS

00: -

The present invention discloses a stepwise multiple regression analysis method for vegetation growth change coupled with a climate accumulative effect. By the stepwise multiple regression analysis method for vegetation growth change coupled with a climate accumulative effect, three scenarios are designed by using a stepwise multiple regression model, a partial correlation coefficient and a time lag function to perform data substitution so as to determine the accumulative effect of a climate factor on vegetation growth and find a way to better characterize the effect of the climate factor on global vegetation change.



21: 2022/05054. 22: 2022/05/09. 43: 2022/07/14 51: A01G; A01H; C12Q 71: NINGBO ACADEMY OF AGRICULTURAL SCIENCES

72: JIANG, Jiefeng, SHI, Xianbo, JIN, Lincan, YING, Quansheng, HUANG, Xuan

33: CN 31: 202110673457.9 32: 2021-06-17 54: BREEDING METHOD OF LODGING-RESISTANT CONVENTIONAL JAPONICA RICE 00: -

The present disclosure provides a breeding method of lodging-resistant conventional japonica rice, and belongs to the technical field of rice breeding methods. In the breeding method of lodging-resistant conventional japonica rice provided by the present disclosure, rice lodging resistance is modified by using culm wall thickening mutant rice; a lodgingresistant conventional late japonica rice variety is bred by crossing the culm wall thickening mutant rice with existing conventional late japonica rice with poor lodging resistance. Phenotypic data for the breeding method provided by the present disclosure give quantization reference values for screening of phenotypic characters. Different breeders can select phenotypic characters according to a uniform reference standard, avoiding missed or wrong selection and leading to a substantial enhancement of certainty of selection results and a substantial increase in breeding efficiency.

71: Shanghai University of Medicine And Health Sciences

72: DUAN, Baoyu, QIN, Ziyao, LI, Yanfei, WANG, Xiaoying, YANG, Zhifang, HE, Kai, LIU, Congbiao, LONG, Fengxia, YAN, Xinyu, QIAN, Xinke

54: APPLICATION OF PUERARIN IN PREPARATION OF DRUG FOR PREVENTING AND TREATING MYOCARDIAL HYPERTROPHY 00: -

The present invention provides an application of puerarin in preparation of a drug for preventing and treating myocardial hypertrophy, and belongs to the technical field of pharmaceutics. The present invention provides an application of puerarin in preparation of a drug for preventing and treating myocardial hypertrophy. According to cell experiments, puerarin intervening in ISO-induced cardiomyocytes can significantly inhibit the increase in the area of cardiomyocytes, and reduce mRNA and protein expressions of myocardial hypertrophy marker genes ANP, BNP and B-MHC. Therefore, the puerarin of the present invention has potential medicinal value in preventing and treating myocardial hypertrophy.

^{21: 2022/05055. 22: 2022/05/09. 43: 2022/07/14}

^{51:} A23L; A61K; A61P



21: 2022/05056. 22: 2022/05/09. 43: 2022/07/14 51: B29B

71: Anhui Polytechnic University

72: Ruan Fangtao, Xia Chenglong, Xu Zhenzhen, Yang Li

54: WINDING REINFORCED FIBRE, FIBRE REINFORCED COMPOSITE MATERIAL AND PREPARATION METHOD THEREFOR 00: -

The present invention relates to a winding reinforced fibre, fibre reinforced composite material and preparation method therefor. Two ends of a reinforced fibre bundle are fixedly tightened; multiple winding fibre bundles are wound to a surface of the reinforced fibre bundle at the same time, or one winding fibre bundle is wound to the surface of the reinforced fibre bundle firstly, and then other winding fibre bundles are wound to the surface of the reinforced fibre bundle; and the prepared winding reinforced fibre and a resin are mixed and cured to prepare a fibre reinforced composite material. The winding reinforced fibre provided by the present invention, by winding multiple layer winding fibre bundles on an outer surface of the reinforced fibre bundle, achieves that the compression strength and compression performance of the reinforced composite material can be improved by about 50% compared with the original reinforced fibre bundle, and a bending strength is improved by about 25% compared with a single-layer winding fibre reinforced composite material. The method is simple and easy to operate, has few changes and adjustments in production equipment, and can be conveniently popularized; high-performance fibre is obtained by using a simple method, providing a new path to a

field of high-performance textile materials, which conforms to the development trend of intensive industry.



21: 2022/05057. 22: 2022/05/09. 43: 2022/07/14 51: A01D

71: HULUNBUIR UNIVERSITY

72: TIAN, Wei, DU, Ren, DU, Lin

33: CN 31: 202110558690.2 32: 2021-05-21 54: VERTICAL ROTARY RAKE 00: -

The disclosure discloses a vertical rotary rake, which comprises a traction rack, the traction rack comprises a longitudinal beam, a front cross beam and a rear cross beam, the front cross beam is arranged in the middle of the longitudinal beam, the rear cross beam is arranged at the rear end of the longitudinal beam, a traction ring is arranged at the front end of the longitudinal beam, a power transmission mechanism is arranged between the longitudinal beam and the front cross beam, and the left right sides of the traction rack are symmetrically connected with spring tooth slewing mechanisms. The disclosure can control the speed of spring teeth relative to forage, and ensures that missing raking

caused by too low relative speed and damage of too high relative speed to nutritional ingredients in the forage are avoided; and the working efficiency is improved.



21: 2022/05058. 22: 2022/05/09. 43: 2022/07/20 51: H01L

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, GHOSH, Prasanta 72: GHOSH, Prasanta, RUSHI, Arti D., DATTA, Kunal, MULCHANDANI, Ashok, SHIRSAT, Mahendra D.

54: A METHOD FOR ANNEALING INDUCED CONTROL FOR NON COVALENT FUNCTIONALIZATION OF SINGLE WALLED CARBON NANOTUBES MATRIX AND APPLICATION THEREOF

00: -

A method for annealing induced control for noncovalent functionalization of single walled carbon nanotubes matrix comprises of the steps of measuring a specified amount of SWNT and adding the SWNTs to 15ml -35 ml N,N-DMF. The mixture is then sonicated for 90-100 min and centrifuged for 80-100 min to make a homogenous suspension. Then 0.2µl drop of suspension is applied on 3µm gap and AC signal is applied to it for dielectrophoretic alignment. Next, it is washed with nanopure water and dried under N2 blow. The devices are then annealed for 90 min in a reducing atmosphere. The porphyrins (iron-tetraphenyl porphyrin) weight is then measured. The porphyrin suspension is prepared in N, N-DMF (0.1mM-0.5mM), non-covalent functionalization of SWNTs by porphyrin is achieved and post functionalization annealing is conducted at 45°C, 90°C and 150°C. The best results were obtained for 90°C annealing.



21: 2022/05060. 22: 2022/05/09. 43: 2022/08/02 51: B26D 71: SUQIAN UNIVERSITY 72: LIU, Fangfang, YANG, Kaicheng, LI, Shoujun, ZHAO, Yuming, HANG, Yuyu

54: ELECTRIC AUTOMATIC PLATE CUTTING EQUIPMENT 00: -

The present invention discloses an electric automatic plate cutting equipment, which comprises a supporting plate, a cutting box and installation boxes. The cutting box is installed at the top of the supporting plate. Box doors are connected on a front surface of the cutting box by hinges. Installation blocks are installed on an inner wall of the bottom of the cutting box. A first motor is installed at the top of each installation block. Sliding rails are installed on the inner wall of the bottom of the cutting box, and each sliding rail is located in front of each installation block. The installation boxes are installed at the top of the cutting box in a penetrating manner; and a fixing plate is installed on the inner wall of each of both sides of each installation box.



21: 2022/05061. 22: 2022/05/09. 43: 2022/07/20 51: H01L

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, GHOSH, Prasanta 72: GHOSH, Prasanta, RUSHI, Arti D., DATTA,

Kunal, SHIRSAT, Mahendra D.

54: AUTOMATED EQUIPMENT FOR DEPOSITION OF THIN FILM BY DIP COATING AND SUCCESSIVE IONIC LAYER ADSORPTION AND REACTION AND METHODS FOR THE SAME 00: -

An automated equipment for deposition of thin film by dip coating and successive ionic layer adsorption and reaction comprises of a heavy mild steel circular base plate (10) which rests on four vibration damper stands (11, 12, 13, 14). The plate serves as the base platform for the entire equipment. A stepper motor (15) is fixed to a specially designed actuator platen (16).A rectangular mild steel block (17) attached to the actuator platen (16) serves as a height adapter. It accommodates a DC geared motor (18) in such a manner that a mild steel extension arm (19) to the shaft of the motor can rotate to ensure that a standard laboratory glass slide attached to the distal end of the extension arm avoids collision with the surface of base plate (10) during operation at a position when arm (19) is horizontally parallel to base (10). The geared motor (18) is attached to an 'L' shaped aluminum support (20) which is fixed to the height adapter (17).



21: 2022/05062. 22: 2022/05/09. 43: 2022/08/02 51: B23Q

71: SUQIAN UNIVERSITY

72: SHI, Yunyang, LIU, Fangfang, YU, Yang, MA, Jun, WANG, Weiyi

54: MULTIFUNCTIONAL ELECTRIC AUTOMATIC CONSOLE

00: -

The present invention comprises a console body; the middle of the top of the console body is provided with a working slot; the middle of the surface of the console body is provided with a limiting chute; a limiting slider is slidably connected inside the limiting chute; the top of the limiting slider is provided with a supporting rod; the bottom of the supporting rod is provided with a cleaning brush; and the top of the supporting rod is provided with a lifting handle. According to the present invention, through arrangement of a supporting frame, shielding cloth and a clamping slot, when the console does not work, the shielding cloth can be driven by a fixing splint to shield the surface of the console. Meanwhile, a worker can push a poking sheet backwards.



21: 2022/05063. 22: 2022/05/09. 43: 2022/08/02 51: H05K

71: SUQIAN UNIVERSITY

72: SHI, Yunyang, FANG, Kaituo, YU, Yang, MA, Jun, YANG, Xiaotian, HANG, Yuyu 54: ENVIRONMENTALLY-FRIENDLY AND ENERGY-SAVING ELECTROMECHANICAL DEVICE

00: -

The present invention discloses an environmentallyfriendly and energy-saving electromechanical device, which comprises a machine body; a bracket is fixedly connected at each side of the lower end of the machine body; a solar panel is fixedly connected at the upper end of the machine body; a box body is fixedly connected at the lower end of the machine body; a storage battery and a photovoltaic inverter are fixedly connected at the inner side of the box body respectively; the storage battery is arranged at the left side of the photovoltaic inverter; a DSP controller is fixedly connected on the front surface of the bracket; a ventilating pipe is fixedly connected at the right side of the machine body; a fan is fixedly connected in the pipe wall of the ventilating pipe; and a temperature sensor is fixedly connected at the inner side of the ventilating pipe.



21: 2022/05065. 22: 2022/05/09. 43: 2022/08/02 51: B22C

71: SUQIAN UNIVERSITY

72: PAN, Haicheng, CHEN, Yegao, WANG, Xingxing, LI, Yulong, FAN, Jun, ZHANG, Anmin 54: PREPARATION METHOD FOR ENVIRONMENTAL-FRIENDLY CASTING MATERIAL

00: -

The present invention relates to the technical field of preparation of casting material, in particular to a preparation method for an environmental-friendly casting material, comprising the following steps: S1, material drying: preheating raw materials, and conducting heat preservation; S2, heating and melting: conducting multi-gradient heating on the raw materials for melting the raw materials to obtain alloy casting blank liquid; S3, smelting: putting the alloy casting blank liquid in S2 into a smelting furnace for smelting to obtain a melt; S4, refining: raising a temperature of the melt to 735-745°C, adding a refining agent for refining for 10-20 minutes, removing dross, and leaving the melt for standing; S5, squeeze casting: adding modified furan resin to the melt, and conducting squeeze casting on a mixture at 680-700°C to obtain a casting; and S6, cooling: burying the casting into limes for cooling for 24-40h to obtain the casting material.

21: 2022/05067. 22: 2022/05/09. 43: 2022/08/02 51: A61D 71: ANIMAL HUSBANDRY AND VETERINARY BRANCH, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES 72: WANG, Jiahou, HAI, Long, GUO, Lihong, DONG, Zhengde, HUANG, Xinyu, JIN, Zhenhua, NAN, Jingdong, CHEN, Guowang, ZHANG, Jiansheng, HAO, Caihong, TONG, Guizhi, LIU, Jiayu, WU, Wenlai, ZHANG, Bei, WU, Rihan, ZHANG, Guohua, WANG, Likun, LU, Lingyan, LV, Xuefeng

54: NOVEL VAGINA OPENER FOR SHEEP 00: -

In the novel vagina opener for the sheep, a light source is fixed on the side wall of a vagina opening front end of the vagina opener in an embedded manner. A positive pole of a power supply is connected with a movable end of a switch, a static end of the switch is connected with one end of the light source, and the other end of the light source is connected with a negative pole of the power supply; a connecting wire among the switch, the power supply and the light source is fixed on the vagina opener in an embedded manner; the switch and the power supply are both arranged on a handle of the vagina opener; the light source is a light tube; and the power supply is a battery. The present invention is suitable for artificial insemination for the sheep.



21: 2022/05068. 22: 2022/05/09. 43: 2022/08/02 51: B09C

71: ANQING NORMAL UNIVERSITY

72: ZHAO, Kuan, ZHOU, Baohua, XIA, Hongyu, JIN, Baoshi, LI, Ming, AN, Lesheng

54: CONTROL AND DETECTION APPARATUS FOR ECOLOGICALLY RESTORING SOIL HEAVY METAL POLLUTION IN COMPREHENSIVE PLANTING AND BREEDING TECHNOLOGY OF PADDY FIELDS

00: -

The present invention relates to the technical field of soil sampling, and particularly to a control and detection apparatus for ecologically restoring soil heavy metal pollution. The apparatus includes a base, the upper end of the base is fixedly connected with a fixed frame. The fixed frame is fixedly connected with a sampling assembly, a sample separating assembly and a detecting assembly. A lead-screw driving mechanism is arranged. By arranging the sample separating assembly, a plurality of groups of sample separating grooves are matched with sample separating holes to simultaneously collect soil samples in the sampling barrel, and reagents in different reagent kits are guided into each group of sample separating grooves through a liquid guide pipe, so as to simultaneously detect various heavy metals in the soil sample.



21: 2022/05069. 22: 2022/05/09. 43: 2022/07/20 51: A61K; A61P

71: Jiangmen City Awesome Health Service Co., Ltd.

72: ZHANG, Jun, ZHANG, Liang, ZHANG, Yibin 54: FORMULA OF BIOLOGICAL SOAKING LIQUID FOR EXTERNAL USE AND PREPARATION METHOD AND EFFECT THEREOF

00: -

The present disclosure discloses a biological soaking liquid for external use, and relates to an application of the biological soaking liquid for external use in preparation and physical therapy for relieving gout. The biological soaking liquid for external use is prepared from the following raw materials: coarse rice, black rice, distiller's yeast, sweet wine yeast, sorghum, oat, sweet wine, water, vinasse water, white glutinous rice, wheat flour, white glutinous corn, Cyathula officinalis Kuan, Atractylodes Lancea (Thunb.) DC., Anemarrhena

asphodeloides Bunge, Lindera glauca (Sieb.et Zucc.) Bl., Fructus Zanthoxyli, Citri Reticulatae Pericarpium, Eucommia ulmoides Oliver, Zingiber officinale Roscoe, Moschus, Angelica dahurica, Ligusticum chuanxiong Hort.,Artemisia argyi Levl.et Vant., Carthamus tinctorius L., Acorus tatarinowii, Taraxacum mongolicum Hand.-Mazz., Tetrapanax papyrierus (Hook.) K.Koch., raw garlic, banana peel, Helianthus annuus L., six-grain alcohol liquor, well salt and other compound protein amino acid aqueous solutions.

21: 2022/05080. 22: 2022/05/09. 43: 2022/07/14 51: A47G

71: Guangdong University of Technology

72: Yulin Zhao, Dingbang Luh, Yue Sun, Fei Sun 54: AN AUXILIARY DEVICE FOR ONE-HANDED BRASSIERE WEARING

00: -The invention discloses an auxiliary device for onebanded brassiere wearing, it comprises a clamp

handed brassiere wearing, it comprises a clamp device, an elastic adjusting belt and a male buckle. The clamp device is held on the waist of the trousers. One end of the elastic adjusting belt can be detachable and connected to the elastic adjusting belt after passing through the hole. The male buckle is connected to the female buckle of the back wing of one end of the brassiere, and the male buckle is connected to the female buckle of the back wing of the other end of the brassiere by holding the back wing of the other end of the brassiere and wrapping it around the front thoracic part by hand. Just align the clip with the waistband and insert, then the flexure plate and the flexure strip are pushed out in turn, so that the waistband can be inserted into the clip smoothly; When the fixture is inserted in the end, the waistband does not contact with the flexure plate and the flexure strip, so that the flexure plate and the flexure strip return to the original position and close the clamp under the action of their own elasticity, so as to limit the waistband out of the clamp. When it is necessary to remove the fixture from the waistband, just press the flexure strip with your finger, so that the flexure strip opens the clamp, that is, the waistband can be released from the clamp. It has the beneficial effect of simple, convenient and quick clamping and taking out.



21: 2022/05082. 22: 2022/05/09. 43: 2022/07/14 51: G01M 71: OPENEXTECH (HANGZHOU) CO., LTD 72: YANG, Qingde, PANG, Qiao 33: CN 31: 201911373318.3 32: 2019-12-27

54: DETECTOR CAPABLE OF DETECTING BEARING FAULTS IN ADVANCE 00: -

A detector capable of detecting bearing faults in advance comprises a microprocessor which is connected to a power supply and a detection information output device, and further comprises a resonance enhanced piezoelectric sensor. A sensor trigger detection circuit and a sensor signal selection circuit are electrically connected between the resonance enhanced piezoelectric sensor and the microprocessor; the sensor signal selection circuit is connected to a sensor signal processing circuit in series; an output terminal of the sensor signal processing circuit is connected to a programmable gain circuit which is connected to the microprocessor. The resonance enhanced piezoelectric sensor can detect impact signals having the characteristics of transient performance, a small amplitude, and the like. Under the cooperation of related circuits, a fault signal is easily detected, and technicians can analyze and obtain the initial fault signal, and the fault can be conveniently processed and eliminated in time.



21: 2022/05122. 22: 2022/05/10. 43: 2022/07/18 51: E04F

71: Suqian College

72: ZHANG, Dan, LV, Guang

54: EXTERNAL WALL HANGING STRUCTURE FOR BUILDING DECORATION 00: -

Disclosed is an external wall hanging structure for building decoration. The external wall hanging structure includes a hanging body for hanging a decoration body on an external wall; the hanging body includes a pair of threaded suspension shafts, a pair of hanging plates and at least one bottom hanging member; and at least two fixing members are arranged on the hanging body, and at least one material saving groove is provided in the hanging body. The hanging body can be mounted on the external wall, and then the decoration body can be hung by the hanging body, so as to be directly and stably mounted on the hanging body. All components required for decoration can be mounted on the decoration body in advance, so that time of mounting decorative objects on the decoration body by a worker can be shortened, thereby decreasing risk for the worker.



21: 2022/05123. 22: 2022/05/10. 43: 2022/07/18 51: G01B 71: Suqian College 72: ZHANG, Dan, LV, Guang

54: SIZE MEASURING DEVICE FOR LANDSCAPE DESIGN

00: -

Disclosed is a size measuring device for landscape design. The size measuring device includes an accommodating box provided with an opening structure, an elastic component, and a cover plate, where the cover plate is connected to the accommodating box by means of a plurality of set screws and provided with a limit component; and a cleaning component is arranged on each of a left side and a right side of the cover plate and includes a loop side, a hook side is stuck to the loop side, a sponge block is arranged on the hook side, and a pull tab is arranged on one side of the hook side. According to the present invention, by arranging the cleaning components, ink on a surface of a measuring ruler can be wiped at any time during drawing, thus avoiding pollution of a drawing.



21: 2022/05124. 22: 2022/05/10. 43: 2022/07/18 51: C12N 71: CENTRAL SOUTH UNIVERSITY OF FORESTRY AND TECHNOLOGY, HUNAN UNIVERSITY OF TECHNOLOGY 72: JIANG, Nan, TAN, Xiaofeng, XU, Yan, ZHOU,

33: CN 31: 202210116051.5 32: 2022-01-29 54: CAMELLIA OLEIFERA SELF-INCOMPATIBILITY GENE S-RNASE AND SINGLE-NUCLEOTIDE POLYMORPHISM (SNP) SITES, AND APPLICATION 00: -

The present invention discloses a Camellia oleifera self-incompatibility gene S-RNase, its singlenucleotide polymorphism(SNP) sites and application. The present invention provides 32 SNP missense mutation sites present in a Camellia oleifera S-RNase genome sequence coding region. EXON1, EXON2, EXON3 and EXON4 fragments of the coding region of S-RNase are specifically amplified by primers, and the EXON fragments are incubated with probes corresponding to the SNP sites of the

coding region, respectively, to obtain fluorescentlylabeled nanomagnetic bead-SNP probe-EXON fragment complexes, and genotype information of the 32 SNP sites of the S-RNases in Camellia oleifera varieties is obtained carrying out signal detection on the complexes. Pollination compatibility trait of allocated varieties in a Camellia oleifera plantation can be predicted at a seedling stage using the genotype information of the 32 SNP sites of S-RNase, which effectively improves the efficiency of allocating and selecting varieties for a new Camellia oleifera plantation.



21: 2022/05125. 22: 2022/05/10. 43: 2022/07/18 51: A01K

71: North China University of Science and Technology

72: GAO Fujia, WANG Ruimin, BAI Jing, SONG Yingjie, ZHANG Xin, SUN Wuxiang, LIU Huiyu, SUN Chenxu, HUANG Yuanyuan, CUI Chuanjin 54: EXPERIMENTAL DEVICE FOR ENRICH ENVIRONMENT OF SMALL ANIMALS WITH RECORDING AND TRACKING FUNCTION 00: -

An experimental device for enrich environment of small animals with recording and tracking function comprises a base, wherein the edge of the top surface of the base is vertically provided with a plurality of wall plates along the circumferential direction, the top surface of the base is positioned in the wall plates and fixedly connected with a plurality of supporting pieces, a bottom plate is horizontally placed in the wall plates, and the bottom plate is overlapped on the supporting pieces; the top surface of the bottom plate is provided with content components, and the bottom surface of the bottom plate is provided with recording and tracking components at the positions corresponding to the content components; on the basis of the traditional enrich environment device, the invention adds an activity detection tracking device and an emotion intervention device, adds an Internet of things module, and is supported by third-party software, so as to track and record each representative activity, live and behavior change of experimental animals in the enrich environment device, provide rich and accurate visual data for neuroscience research, and significantly reduce the bias and difficulty caused by artificial observation of special behaviors of experimental animals.



21: 2022/05126. 22: 2022/05/10. 43: 2022/07/18 51: A61B

71: The Second Affiliated Hospital of Kunming Medical University

72: KE Yang, KANG Qiang, LI Yuehua, WANG Jiaping, LI Yukai, ZHENG Kai, JIANG Gaiming 54: LAPAROSCOPIC ELECTRIC HOOK DEVICE CAPABLE OF EXPANDING OPERATION SPACE 00: -

The invention discloses a laparoscopic electric hook capable of expanding operation space, belonging to the field of medical instruments. Specifically, the laparoscopic electric hook of the invention comprises an electric hook inner core and an outer sheath surrounding the electric hook inner core, wherein one side of the electric hook inner core is provided with an electrotome, and the other side is connected with an electric wire; the outer sheath near the electrotome side is provided with a first opening, and the first opening is provided with an expansion board

which is connected with a first pivot arranged on the electric core through a first connecting rod; a second opening is arranged on the outer sheath near one side of the electric wire, and the second opening is provided with a operation board, which is connected with a second pivot arranged on the electric core through a second connecting rod, and the first pivot and the second pivot are connected through a pivot connecting rod. When in use, the operation board is pressed to open the expansion board through linkage, so as to achieve the purpose of expanding the surgical operation space. The electric hook of the invention has a simple structure, which greatly facilitates the operation.



21: 2022/05127. 22: 2022/05/10. 43: 2022/07/18 51: G01N

71: Central South University of Forestry & Technology

72: ZHANG Lin, ZHANG Yadan, SUN Jiajun, LI Wen, LU Jun

54: FLUORESCENT PROBE FOR DETECTING S2-IN FOOD-BORNE WATER, PREPARATION METHOD AND APPLICATION THEREOF 00: -

A fluorescent probe for detecting S2- in food-borne water, a preparation method and application thereof, wherein the fluorescent probe is formed by complexing Cu2+ with polypeptide containing at least 3 histidines and at least 1 tryptophan, and the position of tryptophan is between histidines. The preparation method comprises mixing polypeptide aqueous solution, H2SO4 solution of CuSO4 and 4hydroxyethyl piperazine ethanesulfonic acid buffer solution. The fluorescent probe is mainly used for detecting S2- in food-borne water. The fluorescent probe has high detection sensitivity, detection limit of 0.01 micromole per litre, detection range of 0.05-20 micromole per litre, high detection speed, no interference from common anions, low cost and good selectivity. In the detection process, complicated and expensive instruments and equipment are not needed, the analysis process is

simple and easy, the sample consumption is low, organic solvents are not needed, and the environment is friendly; The preparation method of that invention has simple step and low cost.



21: 2022/05128. 22: 2022/05/10. 43: 2022/07/18 51: A61K; C12N; A61P

71: Shandong Hankang Biological Technology Co., Ltd.

72: ZHAO, Zhenfeng, YANG, Lin, SHI, Xiaowei, WANG, Xingbing

33: CN 31: 202110572083.1 32: 2021-05-25 54: DUAL-TARGETED CD19/CD20 CHIMERIC ANTIGEN RECEPTOR T CELL, PREPARATION METHOD AND USE THEREOF 00: -

The present disclosure provides a dual-targeted CD19/CD20 chimeric antigen receptor (CAR) T cell, a preparation method and use thereof, and belongs to the technical field of tumor immune drugs. In the present disclosure, an antibody sequence in a CD19/CD20-CAR vector is an antibody sequence of a humanized anti-CD19 single-chain variable fragment (scFv) and a humanized anti-CD20 scFv, which can reduce the immunogenicity of a mouse antibody sequence in a human body and improve efficacy. In the present disclosure, a fourthgeneration bispecific CD19/CD20-CAR-T cell which contains a CD28 costimulatory domain, simultaneously expresses an anti-PD1 single-chain antibody and simultaneously targets CD19 and CD20 is constructed. The dual-targeted CD19/CD20 CAR-T cell provided by the present disclosure can overcome the problems of drug resistance and offtarget in immunotherapy, and maintain patient's remission and delay patient's relapse for a longer time

SP CD19scFv (G4S)4 CD20scFv Fc CD28 CD3 CT2A PD1scFv

21: 2022/05129. 22: 2022/05/10. 43: 2022/07/18 51: A63B

71: Xinxiang Medical University

72: Ke Yu, Ren Hao, Li Fei, Xing Xiaoyuan, Hu Zhibin

54: A HIGH EFFICIENCY TENNIS COLLECTION DEVICE BASED ON TENNIS TRAINING 00: -

The patent of the invention discloses a highefficiency tennis collecting device for tennis training, which comprises a rod body, one end of the rod body is connected with a connecting block, the upper end of the connecting block is connected with a knob, both ends of the connecting block are connected with a connecting rod, the upper end of the connecting block is connected with a screw sleeve, one end of the connecting rod is connected with a support, the interior of the support is connected with a bearing, and the interior of the bearing is connected with a rotating shaft. One end of the rotating shaft is connected with a baffle, the interior of the baffle is connected with a cone, the interior of the cone is connected with a screw, both ends of the screw are connected with an outer nut, and both ends of the screw are connected with an inner nut; In the patent of the invention, the outer nut can be rotated to replace the screw. When in use, if the tension of the screw is not timely, the outer nut and the inner nut can be rotated. Under the action of the cone, the baffle can be adjusted upward or outward to adjust the screw to the appropriate tension position, which is convenient for maintenance and adjustment. Secondly, the tennis ball can be squeezed into the drum formed by several groups of screws, Improve the efficiency of collection.



21: 2022/05130. 22: 2022/05/10. 43: 2022/07/18 51: A01G

71: Shihezi University, Rural Energy & Environment Agency, Ministry of Agriculture and Rural Affairs, Xinjiang agricultural resources and environmental protection station

72: DONG Hegan, CHEN Baoxiong, LIU Tong, ZHOU Mingdong, HUANG Hongkun, HAO Xiaoyun, ZHANG Hongbin, LIU Zhongquan, ZHANG Chi, SONG Zhanli, DUAN Qinghong, YU Wanli, SU Haiying, BAZHABAIKE Mahepali 54: MECHANICAL CUTTING TECHNOLOGY FOR PREVENTING AND CONTROLLING HARM OF AMBROSIA TRIFIDA 00: -

The invention discloses a mechanical cutting technology for preventing and controlling harm of Ambrosia trifida; the time nodes of mechanical cutting of Ambrosia trifida are: one is when the seedlings grow to 10-20 cm tall, and the other is at the flowering stage and early seed setting stage; cutting position of mechanical cutting Ambrosia trifida: the cutting height of seedlings is 0-10 cm above the ground, and the cutting height of flowering and early seed setting is 0-10 cm above the ground. The method of the invention improves the working efficiency, and the method only needs to mow twice by a local common lawn mower, which is consistent with the control effect of cutting Ambrosia trifida for 5-6 times before, but the efficiency is increased by 2.5-3 times and the cost is reduced by 60 percent-

66.7 percent; the method improves the control efficiency, makes the eradication rate of Ambrosia trifida reach more than 95 percent, and reduces the seed yield by more than 98 percent; the method greatly reduces the side effects of chemical control, and effectively protects the health of people and animals and the safe production of crops.

21: 2022/05131. 22: 2022/05/10. 43: 2022/07/18 51: G06Q

71: Development Division of State Grid Gansu
Electric Power Company (Economic and
Technological Research Institute)
72: ZHANG Zhongdan, YANG Zhenbin, BAI
Wangwang, LI Wanwei, FENG Zhihui
54: MONITORING SYSTEM AND METHOD FOR
MOMENT OF INERTIA OF POWER SYSTEM
00: -

The invention discloses a monitoring system and method for the moment of inertia of a power system, which comprises a data acquisition module, a monitoring module, a processing module, a disturbance power calculation module and a rotation amount calculation module; the data acquisition module is used for acquiring synchronous generator set information and new energy generator set information of the power system and network information of the power system, wherein the synchronous generator set information includes the moment of inertia of the synchronous engine set; the monitoring module is used for monitoring generator information and network information; the processing module is used for processing the generator information and the network information; the disturbance power calculation module is used for obtaining disturbance power based on the generator information and the network information; the rotation amount calculation module is used for obtaining the rotation amount based on the generator information, the network information and the disturbance power.



21: 2022/05132. 22: 2022/05/10. 43: 2022/07/18 51: A62D; C12N; C12R

71: YANCHENG TEACHERS UNIVERSITY

72: ZHU, Dewei, KANG, Yijun, YIN, Zhifeng, SHEN, Min, XIA, Dan

33: CN 31: 202111115813.1 32: 2021-09-23 54: OXYTETRACYCLINE-DEGRADING ENZYME, AND ENCODING GENE AND USE THEREOF 00: -

The present disclosure provides an oxytetracyclinedegrading enzyme, and an encoding gene and use thereof, and belongs to the technical field of bioengineering. The enzyme is derived from Klebsiella sp. with a deposit number of CGMCC No. 14393, and has an amino acid sequence shown in SEQ ID No: 2. In the present disclosure, a gene engineering method is utilized to conduct induced expression on the encoding gene in Escherichia coli BL21(DE3), a fermentation broth is centrifuged, a strain is cleaned, sonicated, and purified in Histrap 1 mL affinity columns to obtain an enzyme extract; when an oxytetracycline sample (with an initial concentration of 20 mmol/L) is treated with the enzyme extract (200 U), a degradation efficiency thereof can reach 75.3%. The enzyme preparation is characterized by low cost, short period, and simple operation, and is expected to be applied to biodegradation of tetracycline antibiotics in the environment.



21: 2022/05144. 22: 2022/05/10. 43: 2022/07/18 51: A01K

71: Qingdao Agricultural University, Shandong Tang Wang Carp Agricultural Development Co., Ltd 72: WANG Feng, MEI Xiao, JIANG Shibo, ZHAO Yuming

54: ARTIFICIAL BREEDING METHOD OF LEICASSIS CRASSILABRUS GÜNTHER 00: -

A method for artificial breeding of Leicassis crassilabrus Günther, parent cultivation and selection: the parent fish comes from wild fishing, and reaches the parent fish standard after one year's temporary cultivation and domestication; Artificial induction of labor: take two injections and ripen in advance; Artificial insemination: the fertilized egg is uniformly adhered to the hatching net, and is put into the hatching pool for hatching with micro-flowing water; The thick lip fish hatched out of the membrane; The newly hatched small fish, which looks like tadpoles, is nourished by its own yolk. After two days, the individual grows to 3cm, and then its water flea, egg yolk and shrimp eggs are fed as its bait. Go down to the pond after a week; Breed shrimp fry, after the shrimp fry hatch, sprinkle soybean milk immediately, not only cultivate shrimp fry, but also maintain the growth of large cladocera; When the fry grow to 35mm, after 15 days in the pond, the artificial concentrated feed is started, so as to make up for the shortage of natural feed in the later stage of fry cultivation, and achieve the purpose of domestication of Leicassis crassilabrus Günther as the main artificial compound feed, laying the foundation for large-scale intensive rearing of Leicassis crassilabrus Günther in the future.

21: 2022/05145. 22: 2022/05/10. 43: 2022/07/18 51: F16M

71: Zhengzhou Railway Vocational And Technical College

72: LV Na, CHEN Dongli, ZHONG Dacheng, YAN Ran, LEI Hua, GAO Qian, CHEN Bin 54: TEACHING INTERACTION AUDIO-VISUAL ACQUISTION DEVICE BRACKET FOR LIVE BROADCAST OF ONLINE CLASS 00: -

The disclosure provides a teaching interaction audiovisual acquisition device bracket for live broadcast of online class comprising a supporting mechanism, wherein it further comprises a lifting mechanism and a rotating mechanism, the supporting mechanism is arranged outside the lifting mechanism, and the rotating mechanism is arranged above the lifting mechanism; the lifting mechanism includes a supporting frame inside the supporting mechanism. in which a first motor is provided inside the supporting frame, a screw rod is arranged at an output end of the first motor, a connecting plate is provided outside the screw rod, and a moving frame is provided outside the screw rod and above the connecting plate. The lifting mechanism and the rotating mechanism are supported and driven to move through the supporting mechanism, and the height and angle of the teaching device is adjusted through the lifting mechanism and the rotating mechanism, which can reduce manual adjustment and improve the use effect.



21: 2022/05160. 22: 2022/05/10. 43: 2022/07/18 51: G01N; G06F

71: CHANGSHA UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHANG, Junhui, LI, Jue

33: CN 31: 202110718017.0 32: 2021-06-28 54: METHOD FOR RAPID PREDICTION OF DYNAMIC MODULUS OF RESILIENCE OF GRADED CRUSHED STONE CONSIDERING PARTICLE CRUSHIN

00: -

A method for rapidly prediction of the dynamic resilient modulus of resilience of graded crushed stone considering particle crushing, the method specifically being: determining physical property parameters of a plurality of groups of graded crushed stones under different grade, different degree of compaction, and different water content conditions; respectively measuring the dynamic moduli of resilience of the plurality of groups of graded crushed stone, using a three-parameter model to perform prediction, on the basis of the dynamic moduli of resilience of each group of graded crushed stone obtained in the dynamic triaxial testing, fitting the three-parameter model to obtain model fitting coefficients k1, k2 and k3; determining contribution ratios of all physical property parameters of each group of graded crushed stone to the fitting parameters k1, k2, and k3 of the three-parameter model, and determining the correlation between the fitting parameters k1~k3 of the model and each physical property parameters.



21: 2022/05161. 22: 2022/05/10. 43: 2022/07/18 51: E02D

71: CHANGSHA UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHANG, Junhui, ZHOU, Qinwei, LI, Feng, ZHANG, Shiping

33: CN 31: 202110631834.2 32: 2021-06-07 54: RAPID REPAIR STRUCTURE FOR SECOND-LEVEL OR HIGHER SOIL SLOPE SHALLOW LANDSLIDE, AND CONSTRUCTION METHOD THEREFOR

00: -

A rapid repair structure for a second-level or higher soil slope shallow landslide, and a construction method therefor. The repair structure is: steps are dug out of a collapsed portion of a landslide, a plurality of layers of backfill bagged soil are filled on the steps, a geogrid being laid out at the bottom of each layer of backfill bagged soil, and a reserved part of the geogrid being wrapped back along the backfill bagged soil above the geogrid and stretched to a required tensile strength. The geogrid is fixed to the top surface of the backfill bagged soil by means of a U-shaped nail to form an inverted wrap, the invertedly wrapped geogrid and an adjacent upper geogrid are fixedly connected by means of a Ushaped nail and are both fixed to the top surfaces of the corresponding backfill bagged soil.


21: 2022/05182. 22: 2022/05/11. 43: 2022/07/18 51: G06K

71: Institute of tropical crop variety resources, Chinese Academy of Tropical Agricultural Sciences 72: Jian Feng Huang, Chen Yeyuan, Al Ping Gao, Ganfu Chen, Zhichang Zhao, Ruixiong Luo, Zhiguo Dang

54: A PRECISE EVALUATION MODEL AND METHOD OF PHENOTYPE GROUP OF MANGO FRUIT QUALITY TRAITS 00: -

The invention relates to an accurate evaluation model for the phenotypic group of mango fruit quality traits, which is characterized in that: Aiming at the problem that there are many mango fruit quality traits and it is difficult to accurately evaluate, based on the principal component analysis and correlation analysis of 20 quality traits such as solid matter. sugar, acid, carotenoid, total flavonoids, cellulose, total protein and dry matter content of 262 mango germplasms, Identify soluble solids, citric acid, sucrose B-The five indexes of carotene and total flavonoids can best represent the post harvest quality traits of mango. For these five characteristic quality indexes, SPSS is used for statistical analysis. Different germplasm are divided into five levels, and reference varieties are proposed. The two are superimposed to build an accurate evaluation model of fruit quality phenotypic group of mango germplasm resources. The invention provides corresponding rating standards or reference indexes when rating mango fruit, and gives specific scores to realize accurate evaluation of fruit quality, which lays a certain foundation for the establishment and further improvement of quantitative and standardized description system of mango germplasm resources in China.



21: 2022/05183. 22: 2022/05/11. 43: 2022/07/18 51: G05B

71: Henan Capital Construction Science Experiment Institute Co., Ltd, Guangzhou University, Guangzhou Panyu Polytechnic

72: Zhang JiChao, Guo Ying, Tan Ping, Zhang XueSong, Xu Yong, Li BaoQi, Ren FengMing, Ye Wen, Wang DaYang, Fu SiWei, Bao Wei, Li Lei, Zhang Yan

54: ASSEMBLY STRUCTURE HOISTING CONTROL MANAGEMENT SYSTEM 00: -

This invention provides assembly structure hoisting control management system that comprises a user, a cloud server, a control gateway and terminal equipment; The terminal equipment comprises intelligent glasses, an alignment and micro-motion detection device and a hoisting controller; The user terminal is used for inquiring construction information and sending control request instructions; The cloud server is used for generating a control instruction according to the control request instruction, sending the control instruction to the control gateway, and acquiring detection data for storage; and the control gateway is used for interacting with the smart glasses, the alignment and micro-motion detection device and the hoisting controller according to relevant control instructions, so as to monitor the construction site in real time through the smart

glasses, and obtain the detection data of the alignment and micro-motion detection device on a preset observation point and enable the hoisting controller to realize automatic control. The invention can realize the intelligent guidance of assembly work and the automatic and accurate butt joint between fittings, improve the installation accuracy and track the construction progress.



21: 2022/05184. 22: 2022/05/11. 43: 2022/07/18 51: C07C

71: CHENGWU AORUITE CHEMICAL CO.,LTD. 72: ZHANG, Chun

33: CN 31: 202110923703.1 32: 2021-08-07 54: METHOD FOR SYNTHESIZING 2-TERT-BUTYL-4-ETHYLPHENOL

00: -

The present disclosure discloses a method for synthesizing 2-tert-butyl-4-ethylphenol, comprising the following steps: pumping the measured pethylphenol as a raw material into an alkylation kettle, feeding p-toluenesulfonic acid into the alkylation kettle according to a certain proportion, keeping the pressure in the alkylation kettle at 0.5 MPA, then introducing isobutene, stirring, controlling the reaction temperature and the reaction time at the same time, collecting an alkylation solution at the end of reaction, and washing the alkylation solution for later use. According to the present disclosure, ditert-butyl-p-ethylphenol is reused to improve the overall yield.

21: 2022/05185. 22: 2022/05/11. 43: 2022/07/18 51: C01B

71: Shandong University of Science and Technology 72: ZHU, Shoupu, MENG, Xiaoru, HUANG, Jingrui, LIN Meng-Chang

33: CN 31: 202110828267.X 32: 2021-07-22

54: PREPARATION METHOD OF POROUS OXYGEN CONTAINING GROUPS-ADHERED GRAPHENE DISPERSION SOLUTION 00: -

The present invention belongs to the technical field of carbon material modification, and discloses a preparation method of a porous oxygen containing groups-adhered graphene dispersion solution. Graphene is thermally treated in an oxygencontaining atmosphere at a certain temperature to be oxidized slowly such that oxygen is bonded with carbon therein to adhere oxygen containing groups, thus obtaining a dispersion solution of a porous oxygen containing groups-adhered graphene after being dispersed into a polar solvent. In the graphene adhered oxygen-containing functional groups, the oxygen content is at least 8 wt.%, and can be up to 19 wt.%; the oxygen-containing component mainly includes a carbon-oxygen double bond linked to aromatic carbon, a carbon-oxygen single bond linked to aliphatic carbon, and a carbon-oxygen single bond linked to aromatic carbon.



21: 2022/05186. 22: 2022/05/11. 43: 2022/07/18 51: C21C

71: North China University of Science and Technology

72: PEI, Jingjing, ZHANG, Wei, REN, Qianqian, WANG, Hui, LIU, Chao, ZHANG, Yuzhu, XING, Hongwei

33: CN 31: 202210153744.1 32: 2022-02-19 54: LIQUID STEEL SLAG GAS QUENCHING AND GRANULATING DEVICE 00: -

The present invention provides a liquid steel slag gas quenching and granulating device, including an operation box, a hood, a mixing structure, a feeding structure and a warning structure, wherein the top of the operation box is fixedly connected to the hood, a

driving motor is fixedly connected to an inner wall of the top of the hood, a driving shaft is connected to an output shaft of the driving motor, a second sealing hole is provided on the driving shaft, a square plate is slidably and sealingly mounted in the second sealing hole, a driven shaft is connected to the bottom of the square plate, the mixing structure and the feeding structure are both provided on the operation box, the mixing structure and the feeding structure are used cooperatively, and the mixing structure includes stirring blades, a first steel ball and a second steel ball.



21: 2022/05187. 22: 2022/05/11. 43: 2022/07/18 51: A41D

71: Beijing Normal University, Zhuhai 72: LUO Lihe

54: DISPOSABLE MEDICAL MASK WITH ADJUSTABLE SIZE

00: -

The invention discloses a disposable medical mask with adjustable size, which consists of a mask body and elastic ear bands, wherein the mask body is divided into three layers: inner, middle and outer; the inner layer is made of skin-friendly material, the middle layer is an isolation filter layer, and the outer layer is a special material bacteriostatic layer; the upper edge of the mask body is provided with a nose clip, and the lower edge is attached to the lower jaw;

the mask body has four transverse folds of equal width, the upper two folds are downward and the lower two folds are upward, and the upper two folds and the lower two folds are symmetrically distributed up and down; the elastic ear band is an ring-shaped ear band, and the length of the ear band can be adjusted according to the characteristics of the facial structure; the left and right sealing edges of the mask body are folded in half up and down, and the folded overlapping part adopts the secondary edge sealing or concealed buckle type, so that the opening size can be adjusted according to the characteristics of the facial structure. Based on the improved design of medical masks, the size can be adjusted, so that adult masks can also be applied to children and play a protective role for children.



21: 2022/05188. 22: 2022/05/11. 43: 2022/07/18 51: E04B

71: Henan Capital Construction Science Experiment Institute Co., Ltd, Guangzhou University, Henan University of Engineering

72: Zhang JiChao, Zhang QiaoYun, Tan Ping, Zhang JianWen, Xu Yong, Zhu DengBiao, Ren FengMing, Shi LingHao, Bao Wei, Zhang Yan, Han JunTao, Jian WeiTong

54: A KIND OF MODULAR BUILDING 00: -

This invention provides a kind of Modular building that comprises a prefabricated building body that is installed above the ground and an anchor rod assembly installed below the ground, wherein the anchor rod assembly is connected to the bottom of the prefabricated building body; the anchor rod assembly comprises a vertically arranged rod body, the upper end of which is fixedly connected with the bottom of the prefabricated building body, and the lower end of which is provided with a spiral blade and a drill bit. According to the invention, the anchor

rod assembly is designed to be connected to the bottom of the prefabricated building body for fixing, and the foundation does not need to be poured on site, thus improving the construction efficiency of the modular building, and the construction period is shortened, the construction process is convenient, simple, safer and more reliable, and meets the requirements of national green buildings.



- 21: 2022/05189. 22: 2022/05/11. 43: 2022/07/18 51: G06T
- 71: Anqing Normal University

72: LIU Deyang, YAO Wei, TONG Zaidong

33: CN 31: 202210392739.6 32: 2022-04-14 54: LIGHT FIELD IMAGE ANGULAR SUPER-

RESOLUTION METHOD BY FUSING SUB-APERTURE IMAGE AND MACRO-PIXEL IMAGE 00: -

The invention discloses a light field image angular super-resolution method by fusing sub-aperture image and macro-pixel image, which comprises the following steps: acquiring an initial image, extracting Y-channel information of a sub-aperture image array, and acquiring Y-channel information of a first high-angular resolution sub-aperture image array based on the initial image; transforming the subaperture image array Y-channel information into macro-pixel image array Y-channel information; acquiring Y-channel information of a second highangular resolution sub-aperture image array based on Y-channel information of a macro pixel image array; acquiring that Y-channel information of the final high-angular resolution sub-aperture image array based on the Y-channel information of the first high-angular resolution sub-aperture image array and the Y-channel information of the second highangular resolution sub-aperture image array, and based on the U-channel information, V-channel information and the Y-channel information of the final high-angular resolution sub-aperture image array, obtaining the high-angular super-resolution sub-aperture image array. The invention can effectively improve the image quality of the light field image after angular super resolution.



21: 2022/05190. 22: 2022/05/11. 43: 2022/07/18 51: A61K

71: QINGDAO AGRICULTURAL UNIVERSITY 72: ZHANG Yuna, WANG Wenqi, WANG Xin, ZHAO Chunyan, CHEN Shiyong, XU Hairuo, ZHANG Yan, XU Shenbo

54: METHOD FOR DETECTING ANTIVIRAL FUNCTION OF CHINESE HERBAL MEDICINE 00: -

The invention discloses a method for detecting the antiviral function of Chinese herbal medicines, which comprises the following steps: 1. sample treatment: 1) Chinese herbal medicine pretreatment: standard boiling the selected Chinese herbal medicine products, if they are solid or preparations, into liquid decoction; if it is a liquid product, directly centrifuge at 1,500 rpm for 5 minutes to remove the precipitate; 2) filter the supernatant obtained by the above process with a 0.45 micrometre filter as a sample, and store it in a refrigerator at -20 degree Celsius; 2. selection of the best concentration of the sample (1) set different concentration gradients of 50% (that is, 250 ul complete medium +250 ul Chinese herbal medicine sample), 10%, 1% and 0.1%, and incubate EPC cells at 28 degree Celsius for 24 h; (2) observe the survival of EPC cells and select the appropriate concentration; 3. detection of antiviral function; the Chinese herbal medicine provided by the invention has obvious antiviral effect, not only can improve the immunity of cultured organisms and the stress resistance to the external environment, but also has the advantages of no toxicity, no drug residue, and safe and convenient use.

21: 2022/05191. 22: 2022/05/11. 43: 2022/07/18 51: A61F; A61H

71: Luoyang Orthopedic-Traumatological Hospital Of Henan Province (Henan Provincial Orthopedic Hospital)

72: ZHAO, Dongliang, FENG, Kun, CHEN, Haoyu, LI, Na, WANG, Jianzhi

54: ELECTRIC CERVICAL VERTEBRA TRACTION DEVICE BASED ON ISOTONIC TRACTION 00: -

The present invention discloses an electric cervical vertebra traction device based on isotonic traction, which relates to the field of medical instruments, including a base plate, a main chassis, a tension transmission system, an angle adjustment system, a control system and a forehead strap fixing system. This device can achieve isotonic traction therapy for patients, with higher safety and lower equipment cost.



21: 2022/05192. 22: 2022/05/11. 43: 2022/07/18 51: A01C

71: Weihai Academy of Agricultural Sciences 72: HOU Lijuan, HU Jing, MAO Jilei, QIU Jie, HU Yilin, JIANG Zhenying, YU Hengyi 54: SEEDER FOR SMALL SEEDS

00: -

The invention discloses a seeder for small seeds. belonging to the technical field of agricultural machinery, which comprises a frame, a traveling device arranged below the frame, a fan arranged above the traveling device, and a power device arranged above the fan, wherein the power device comprises an engine, a clutch and a traveling gearbox; the middle part of the frame is provided with a seeding device, which comprises a seed box, a seed metering device, a plant spacing adjusting transmission, a ditcher and a drip irrigation belt laying pipe; a drip irrigation device is arranged above the frame; the rear of the frame is provided with a compacting depth limiting device; the engine is connected with a fan and a traveling gearbox through a V-belt; the traveling gearbox is connected with a traveling device through a chain; the travelling device is connected with the plant spacing adjusting transmission of the seeding device through a transmission shaft; the fan is connected with the seed metering device of the seeding device through an air pipe. The invention has the advantages of high sowing precision and high sowing efficiency, can realize ridge sowing and flat sowing by replacing walking wheels with different diameters, can complete sowing and drip irrigation at one time, and is convenient and practical.



21: 2022/05193. 22: 2022/05/11. 43: 2022/07/18 51: C25C

71: Xinjiang University, Xinjiang Joinworld Company Limited, Wuhan University

72: HE Yongdong, YU Rongxin, SUN Xiaohan, SUN Zhicheng, CHEN Changke, LIU Pengfei, FENG Wei 54: DOUBLE-LAYER ALUMINUM CATHODE ENERGY-SAVING ALUMINUM ELECTROLYTIC CELL

00: -

A double-layer aluminum cathode energy-saving aluminum electrolytic cell relates to an improvement of aluminum electrolytic cell which uses aluminum as cathode, cryolite-alumina melt as electrolyte and molten salt method to produce aluminum. The structure comprises a prebaked anode, a blanking device and a dust purification device; the structure of the cathode system comprises: electrolytic cell body; two cathode partition walls which are arranged in the two end grooves of the electrolytic aluminum electrolysis bath body and fixedly connected with the inner walls of the side grooves of the electrolytic bath body; entering the cathode bus of the electrolytic bath body through the cathode partition wall and the inner wall side channel of the groove wall at the end of the electrolytic bath body; a cathode horizontal separator located in the electrolytic cell and provided with a through hole of molten aluminum. According to the double-layer aluminum cathode energy-saving aluminum electrolytic cell, the aluminum liquid without cathode carbon block, steel bar and titanium boride coating is

used as the cathode instead of the steel bar-carbon block group cathode, so that the defects of alumina precipitation and honeycomb microcell on the cathode carbon block existing in the traditional aluminum electrolytic cell are eliminated; and in the electrolytic production process, the problem that aluminum oxide and aluminum carbide generated by furnace bottom precipitation pollute the aluminum liquid does not exist.



21: 2022/05194. 22: 2022/05/11. 43: 2022/07/18 51: E04B

71: Henan Capital Construction Science Experiment Institute Co., Ltd, Guangzhou University, Huanghuai University

72: Zhang JiChao, Zhang QiaoYun, Tan Ping, Yang DeLei, Ren FengMing, Wang DaYang, Ma ShuJie, Xu Yong, Hu ZhongMing, Yu ZhiWei, Li RenHu, Zhang Yan, Yang ZhengZheng 54: PREFABRICATED BUILDING SYSTEM AND CONSTRUCTION TECHNOLOGY THEREOF 00: -

This invention provides prefabricated building system and construction technology thereof that comprises at least one building unit, which comprises a prefabricated wall and a prefabricated floor, wherein the prefabricated wall is connected with the prefabricated floor and two adjacent prefabricated walls by bolts, and the prefabricated wall is formed by concrete pouring. The invention also provides prefabricated building system and construction technology thereof. The invention can effectively improve the vertical rigidity of the building system, improve the earthquake resistance, and further realize the installation of high-rise buildings.



21: 2022/05196. 22: 2022/05/11. 43: 2022/07/18 51: B01D

71: China University of Mining and Technology 72: Shihang Li, Hui Cheng, Yihan Lin, Fubao Zhou, Shuda Hu, Jun Hou, Changgeng Gui, Liyuan Liu, Guoxiang Wen, Guangyu Dou, Qiaosong Guo, Muze Han

54: MINE TOTAL RETURN AIR GROUND SHAFT TOWER DUST REMOVAL SYSTEM 00: -

The present disclosure relates to an intelligent mine total return air ground shaft tower dust removal system, comprising a polluted air introducing system (1), a tower body filtering and dust removing system (2), a tower footing filtering and dust removing system (3), a tower top assembly (4), an intelligent cooling explosion suppressing system (5) and an automatic dust discharging system (6). The present disclosure provides the mine total return air ground shaft tower dust removal system in order to solve the problem of environmental pollution caused by the fact that a large amount of fine dust is emitted into the atmosphere by a mine total return air shaft, and the system integrates efficient filtering, intelligent dust removing, automatic dust discharging and intelligent cooling explosion suppressing, and can effectively control the dust emission concentration of mine ventilation, so as to protect the atmosphere environment.



21: 2022/05197. 22: 2022/05/11. 43: 2022/07/18 51: B01D

71: China University of Mining and Technology 72: Shihang Li, Liyuan Liu, Hui Cheng, Fubao Zhou, Yihan Lin, Changgeng Gui, Shuda Hu, Jun Hou, Maiwei Chen, Guoxiang Wen, Guangyu Dou, Jing Huang, Qiaosong Guo, Muze Han 54: METHOD AND DEVICE FOR IMPROVING DUST REMOVAL EFFECT AND EXPLOSION-PROOF PERFORMANCE OF DUST REMOVER 00: -

The invention discloses a method and a device for improving a dust removal effect and an explosionproof performance of a dust remover. The device comprises a quantitative powder feeder (3), a timing control module (4), a delay control module (5), a dust removal controller (7) and a dust removing device (8). An inlet of the quantitative powder feeder penetrates the side wall of an air inlet pipe (2) of the dust remover, and the quantitative powder feeder is connected with the timing control module; the timing control module is respectively connected with a dust remover switch (6) and the dust removal controller; the dust remover switch is connected with a fan (10); the delay control module is respectively connected with the dust removal controller and the dust removing device (8). The method includes that inert powder is fed into an air inlet (2) of the dust remover in starting and dust removal action of the dust remover respectively. Insert powder feeding time is optimized according to starting and dust removal action of the dust remover, and accordingly difficulty

in shedding of dust from filter materials in dust removal is greatly lowered by the small quantity of insert powder, and explosiveness of dust in the dust removal is reduced.



21: 2022/05198. 22: 2022/05/11. 43: 2022/07/18 51: B01D

71: China University of Mining and Technology 72: Shihang Li, Hui Cheng, Fubao Zhou, Liyuan Liu, Yihan Lin, Changgeng Gui, Jun Hou, Shuda Hu, Guoxiang Wen, Muze Han, Qiaosong Guo, Guangyu Dou

54: POSITIVE AND NEGATIVE PRESSURE COLLABORATIVE PULSE DUST REMOVING DEVICE WITH EXPLOSION SUPPRESSION FUNCTION

00: -

The invention discloses a positive and negative pressure collaborative pulse dust removing device with an explosion suppression function. The positive and negative pressure collaborative pulse dust removing device comprises upper pulse valves, a compression air source, filtering cylinders and a dust collector box. The upper pulse valves and the filtering cylinders are arranged in the dust collector box, the upper pulse valves are arranged above top openings of the filtering cylinders and are connected with the compression air source arranged outside the dust collector box through an air pipe, and a dust discharging device is arranged at the bottom of the dust collector box. The positive and negative pressure collaborative pulse dust removing device further comprises lower pulse valves, a vacuum cavity, a vacuum generator and a pulse controller. The lower pulse valves are arranged below the bottom faces of the filtering cylinders and communicated with the vacuum cavity. Weak face plates serve as part of the bottom faces of the filtering cylinders and are located in the vacuum cavity. The vacuum cavity is sequentially connected

with the vacuum generator and the compression air source outside the dust collector body through air pipes. The pulse controller is connected with the upper pulse valves and the lower pulse valves in sequence. The positive and negative pressure collaborative pulse dust removing device with the explosion suppression function can effectively suppress flying of dust to achieve active explosion suppression, relieve the explosive capacity and enhance the passive explosion suppression performance.



21: 2022/05199. 22: 2022/05/11. 43: 2022/07/18 51: B01D

71: China University of Mining and Technology 72: Shihang Li, Yihan Lin, Hui Cheng, Liyuan Liu, Guangyu Dou, Guoxiang Wen, Aihemaiti Aerzeguli, Keran Huo, Yunxi Liu, Guopeng Zhu, Zihao Mao, Tuerdaken Ahejuli, Siyan Li, Bohong Wang, Yajie Bai, Qiaosong Guo, Muze Han

54: PREPARATION METHOD OF HIGH TEMPERATURE RESISTANT METAL FIBER MEMBRANE FILTER MATERIAL 00: -

A preparation method of a high temperature resistant metal fiber membrane filter material comprises the following steps: removing impurities, rinsing with water, standing and draining, and drying foruse; respectively placing a polytetrafluoroethylene mixed liquor, an acrylic emulsion and a polyether sulfone solution in a mixing kettle and uniformly stirring to obtain a membrane solution; immersing the metal filter material in an aqueous solution of a titanate coupling agent, washing with water and drying; immersing the metal filter material in the membrane solution, instantly taking out and then sending into an ironer, prebaking for 30 min under the conditions of rolling rate 120-140% and 90 DEG

C, and baking for 15 min at 160 DEG C; hotpressing the metal filter material on a press vulcanizer for 15s, and forming a membrane coating layer on the surface of the metal filter material so as to obtain a metal fiber membrane filter material; removing oil by washing the metal fiber membrane filter material, drying and cooling. The metal fiber membrane filter material prepared by the method has advantages of high temperature resistance, high filtration precision, high regeneration efficiency, easy dust cleaning and long service life.

21: 2022/05200. 22: 2022/05/11. 43: 2022/07/18 51: C02F

71: Northwest A&F University, Yangling Gengxin Agriculture Co., Ltd.

72: Yulin Fang, Meirong Zhu, Peng Zhang, Yanlun Ju, Kekun Zhang

54: PRODUCT DEVELOPMENT AND PRODUCTION METHODS OF A KIND OF WILD VITIS DAVIDII FOEX HEALTH TEA 00: -

The invention relates to the development and manufacture method of a tea product, in particular to a wild vitis davidii foex leaf tea and its manufacture method. Three types of vitis davidii foex leaf teas are manufactured using shoots and tender leaves of vitis davidii foex picked and sorted by virtue of the manufacturing process for green tea, with slight modification in combination of the actual situation of the vitis davidii foex leaf. After the tea are steeped, the tea soups are tasted and the composition of the leaves determined, then the vitis davidii foex leaf tea is selected with good taste and high nutritional value and capable of being promoted in production practice based on the two kind of results. Three types of newly developed vitis davidii foex leaf teas are made of shoots, yellow-green leaflet and redbrown leaflet of the vitis davidii foex respectively. The vitis davidii foex leaf teas are made by adopting the manufacturing process for green tea, with slight modification of the process according to the characteristic of the vitis davidii foex leaf teas in actual operation to obtain the best quality of tea products, so that the tea soup produced not only has the basic color, aroma, taste and nutritional characteristics of general teas, but also has more nutritional elements and health benefits, and most importantly, the maximum utilization of resources is

achieved to increase the economic benefits for the vineyard.



21: 2022/05201. 22: 2022/05/11. 43: 2022/07/18 51: C04B

71: Chuzhou University

72: Gangling Chen, Jianying Zhang, Tianlin Ma, Jianhua Feng, Ayang Zhou

33: CN 31: 202111229905.2 32: 2021-10-22 54: SILICON CARBIDE SUPPORT FOR ZEOLITE MEMBRANES AND APPLICATION THEREOF IN ZEOLITE MEMBRANE

00: -

The invention provides a silicon carbide zeolite membrane support and an application thereof in a zeolite membrane, and belongs to the field of membrane material preparation, and specifically, silicon carbide is used as an initial raw material, additives are alumina sol, AIF3 and La2O3, and organic additives are polyvinyl alcohol and dextrin. Weighed powder is added into a three-dimensional mixer according to a certain ratio for mechanical mixing, wherein the mixing time is 3 hours; kneading, pugging, molding, drying and other process treatments are conducted on the mixed powder in a kneading machine, a pugging machine, a vacuum extruder and a drying oven respectively; and finally the dried green body is calcined in a program temperature control furnace at 1450 DEG C at a heating rate of 3 DEG C/min to obtain a product. According to the invention, the preparation process of the porous silicon carbide ceramic support is simplified, the sintering temperature is reduced, the

cost is reduced, and the prepared porous silicon carbide support is suitable for synthesis and industrial application of NaA zeolite membranes, and has a wide application prospect.



21: 2022/05236. 22: 2022/05/11. 43: 2022/07/18 51: H01G

71: WUXI POWER FILTER CO., LTD

72: SUN, Xiaowu, LI, Yinda, SUN, Ming, FENG, Yuan, YU, Cheng

33: CN 31: 202110878438.X 32: 2021-08-02 54: AN ELECTRODE STRUCTURE OF DC LINK CAPACITOR

00: -The invention discloses an electrode structure of DC link capacitor, mainly comprising a core rod; a first layer of T-shaped high square resistance safety film, comprising a first base film and a first evaporation layer which comprises an edge thickened area, a first insulation gap strip, a first fuse, a second insulation gap strip, and an intermediate screen strip; a second layer of meshed safety film, comprising a second base film and a second evaporation layer which comprises an edge screen strip, a third insulation gap strip, a fifth insulation gap strip, and an intermediate thickened area; a first goldsprayed layer; a second gold-sprayed layer and an

outer wrapping film. The structure of the invention is simple and easy to manufacture, which can satisfy the high long-term safe and reliable operation of a DC link capacitor.



21: 2022/05241. 22: 2022/05/12. 43: 2022/07/20 51: G06F

71: Chinese Academy of Surveying and Mapping 72: LU, Wenjuan, ZHAO, Zhanjie, WANG, Jizhou, MAO, Xi, GAO, Wujun, MA, Weijun, YIN, Hongmei, GAO, Xuanyu, ZHAO, Zhanao, JIANG, Bin 54: THEMATIC APPLICATION PLATFORM FOR ZERO-CODE ASSEMBLY TECHNOLOGY 00: -

Disclosed in the present disclosure is a thematic application platform of zero-code assembly technology. The platform includes a data service interface and a map thematic application system; wherein the data service interface is configured for obtaining various data services of the map thematic application system, and applying the various data services in the map thematic application system; the map thematic application system includes an interface control, a menu control, a tool control, a thematic data control, a function control and a download control, and the controls are configured for personalized settings, menu bar settings, tool list settings, database construction, function option settings and download function settings for the map thematic application system. In the present disclosure, by means of the zero-code assembly technology, a featured personalized map thematic application system can be quickly constructed without writing any code, and the development system cycle can be greatly shortened.



21: 2022/05242. 22: 2022/05/12. 43: 2022/07/20 51: H01M

71: Eco-environment Monitoring Station of Wuhua Branch, Kunming Eco-environment Bureau, Yunnan Province, Yunnan Minzu University 72: GUO Yujiao, GUO Junming

54: PREPARATION METHOD OF LONG-LIFE AND HIGH-RATE AL-NI CO-DOPED LITHIUM MANGANATE CATHODE MATERIAL 00: -

The invention discloses a preparation method of a long-life and high-rate Al-Ni co-doped spinel lithium manganate cathode material. The method comprises the following steps: preparing dopant dispersion, fuel dispersion, mixing, preparing products and the like, mechanically stirring uniformly to obtain mixture slurry, and then placing the mixture slurry in a porcelain crucible. Put the crucible in a muffle furnace at 500 degree Celsius for 1 h, cool and grind, then rebake at 650 degree Celsius for 6 h, and grind again to get the final product LiAl0.1NixMn1.9xO4 (x=0.01-0.10). The rate performance of the nickel-aluminum co-doped lithium manganate cathode material synthesized by the invention is obviously superior to that of the existing LiMn2O4. According to the invention, a solid-liquid-water mixing system is adopted, the mechanical stirring and mixing time is short, the reaction mixture slurry does not need to be dried, and the combustion reaction is carried out by direct heating; and the preparation process is simple and rapid, and the electrochemical performance is excellent, thus laying a good foundation for industrialization.



21: 2022/05243. 22: 2022/05/12. 43: 2022/07/20 51: A01G

71: Taishan University

72: YU, Yongchang, WEI, Yungang, ZHANG, Liqin, SHI, Weidong, ZHANG, Dongmei, LIU, Boyu,

ZHENG, Duyu 54: METHOD FOR RAPIDLY MAKING ORNAMENTAL POTTED LANDSCAPE FOR SCENIC SPOTS

00: -

In the present invention, based on traditional grafting methods, a pruned thick branch trunk is creatively used as a scion, a stock seedling with a complete root system is grafted onto a truncated thick branch section through traditional grafting methods such as flat grafting, the stock seedling and the thick branch section grow together, nutrients absorbed by a thick branch are supplied, the thick branch grows into a thick branch stub landscape through cultivation and conservation, and then a stub potted landscape blank is made through pruning and art processing. The purpose of rapidly forming the stub potted landscape is achieved, and a making period is approximately 3-5 years. Main materials include a waste branch pruned from a garden big tree or a thick branch trunk reasonably cut from a tree in a nursery garden, and a 1-2-year-old stock seedling with a complete root system.

- 71: Zhengzhou University of Aeronautics
- 72: GU Zhanfei, ZHANG Daying, GAO Junxia, LI Lianxiu, JIA Yan, ZHENG Binguo, YUE Weiqi

^{21: 2022/05244. 22: 2022/05/12. 43: 2022/07/20} 51: G01N

54: DEVICE FOR TESTING THE UNDERCUTTING OF SILT-FINE SAND STRUCTURAL LAYER UNDER THE ACTION OF TEMPERATURE AND LOAD

00: -

The invention belongs to that field of undercurrent, in particular to an undercurrent test device of silt-fine sand structural lay under the action of temperature and load, and provides an undercurrent test device under the combined action of temperature and load. Through a water tank arranged on a steel support, the temperature of the water in the water tank is controlled by a temperature controller to be kept at a set temperature, a tester opens a second valve, and the water in the water tank flows into a soil sample placed in an accommodating cavity through the first pipeline, the second pipeline and the third pipeline, and the structural layers of the soil sample are siltfine sand-silt from top to bottom, and the small particles in the soil sample are brought to the fourth valve position when the water flows in the soil sample. According to the invention, the jack arranged on the steel structure exerts a load on the soil sample, and a submerged corrosion test device under the combined action of temperature and load is provided.



21: 2022/05245. 22: 2022/05/12. 43: 2022/07/20 51: B09C

71: China University of Petroleum (East China) 72: FENG Xiaoning, LIU Dong, LI Zhiheng, GUO Shuhai, SHI Nan, YANG Xiujie, WEN Fushan, ZHU Wei, WU Bo, LI Gang, WANG Sa, GU Meixia, FENG Jinggao, GUO Yong, ZHOU Guangxue, LIU Xiao, YIN Xiaoshuang, YANG Lingqing

33: CN 31: 202110549954.8 32: 2021-05-20 54: STEP CLEANING METHOD FOR CLAY SOIL POLLUTED BY HIGHLY DISPERSED PETROLEUM HYDROCARBON 00: -

The invention discloses a step cleaning method for clay soil polluted by highly dispersed petroleum hydrocarbon, which comprises the following steps: firstly, uniformly mixing C13 isopropanolamide solution, water-soluble cellulose sulfamic acid, inorganic salt and clay soil polluted by highly dispersed petroleum hydrocarbon to form an emulsion water-based cleaning system; Then adding auxiliary alcohol and compounding agent to form a single-phase microemulsion cleaning system in situ; Then, with the aid of ultrasonic coupling treatment, the elution of petroleum hydrocarbons in the pore channels of soil particles is completed; finally, centrifugal separation is carry out, and that recovered single-phase microemulsion can be recycle without treatment such as ion exchange or demulsification, the centrifugal soil is subjected to hot water secondary flushing, and the flush liquid is directly recycled. Aiming at the clay soil polluted by highly dispersed petroleum hydrocarbons, the invention adopts the step cleaning method, which has the advantages of simple operation process, strong controllability, high step cleaning efficiency, good soil remediation effect, green cleaning system, easy recycling of cleaning solution and the like, and shows potential environmental benefits and economic benefits.



21: 2022/05246. 22: 2022/05/12. 43: 2022/07/20 51: A23G

71: Futaste Pharmaceutical Co., Ltd. 72: HUANG, Weihong, GAO, Yanli, SUN, Lu, FANG,

Chunlei, CAO, Yuhua, DU, Ruifeng, LIU, Haipeng, YUAN, Qipeng

33: CN 31: 202111181529.4 32: 2021-10-11

54: APPLICATION OF COMPOUND SWEETENER, SUGAR-REDUCED FREEZE-DRIED CANDIED JUJUBE AND PREPARATION PROCESS OF SUGAR-REDUCED FREEZE-DRIED CANDIED JUJUBE

00: -

The disclosure discloses application of a compound sweetener, a sugar-reduced freeze-dried candied jujube and a preparation process of the sugarreduced freeze-dried candied jujube. The compound sweetener is suitable for a freeze-drying process after vacuum sugar impregnating of fruits and vegetables, and it is mainly prepared from maltitol, xylitol, sorbitol, maltotriitol, sugar alcohols of tetrasaccharide or above, and water. The preparation process of the sugar-reduced freezedried candied jujube comprises the steps of pretreatment of a jujube fruit raw material, quickfreezing, vacuum unfreezing, vacuum sugar impregnating, rinsing, freeze-drying, sealed packaging, etc., and the compound sweetener is used as a sugar solution. The sugar-free compound sweetener is adopted for replacing sucrose, compared with original jujube, the sugar content is reduced by 70% or above, and the sugar-reduced freeze-dried candied jujube is sweet and refreshing in taste, high in Vc retention rate and good in color, aroma and taste.



21: 2022/05247. 22: 2022/05/12. 43: 2022/07/20 51: G06T

71: China University of Mining and Technology 72: LIU Jiangfeng, MA Shijia, ZHOU Junping, SONG Junbei, XING Yuekun, LIU Zhiyuan, ZHANG Chengpeng, FANG Dongliang

54: METHOD FOR DETERMINING THE SEGMENTATION THRESHOLD OF DIGITAL IMAGES BY USING GRADIENT INFORMATION 00: -

The invention discloses a method for determining the segmentation threshold of digital images by using gradient information, which comprises the following steps: S1, acquiring the gray histogram curve of SEM images by using gradient information; S2, determining the value range of the segmentation threshold T according to the gray histogram curve; S3, obtaining the second derivative of the gray histogram curve; S4, determining the size of the segmentation threshold T according to the second derivative of the gray histogram curve and the value range of the segmentation threshold T. The method

can quickly and accurately determine the segmentation threshold of the digital image of the rock and soil mass material, accurately distinguish the pore or crack structure of the rock and soil mass material from the surface soil skeleton structure from the digital image, and provide an accurate segmentation threshold for subsequent in-depth research of the rock and soil mass material based on the digital image; It also provides effective technical support for accurately extracting pore or fracture structures.



54: A COLLOIDAL GOLD BASED LATERAL FLOW TEST STRIP FOR DETECTION OF BREAST CANCER AND A COLLOIDAL GOLD BASED LATERAL FLOW TEST STRIP FOR SIMULTANEOUS DETECTION OF BREAST CANCER AND CERVICAL CANCER 00: -

The present disclosure provides aa colloidal gold based lateral flow test strip for detection of breast cancer and a colloidal gold based lateral flow test strip for simultaneous detection of breast cancer and cervical cancer. The two test strips are capable of specifically detecting two different types of tumor marker groups for miRNA groups and proteins in the cervical cancer and the breast cancer simultaneously.



21: 2022/05250. 22: 2022/05/12. 43: 2022/07/20 51: F23B

71: Institute of Cotton Research, Shanxi Agricultural University

72: ZHANG Guiyun, ZHANG Liping, ZHANG Dong, ZHANG Xi, CHANG Fangjuan, LIU Zhen, FAN Qiaolan, YAO Zhong, LV Beibei

54: BRAZIER TYPE GASIFICATION AND CARBONIZATION FURNACE

The invention relates to a brazier type gasification and carbonization furnace, aiming at solving the technical problems of high cost, low benefit and difficult popularization caused by the large design scale of the existing biomass gasification and carbonization equipment. The technical scheme is as follows: it comprises a furnace body, a fender, a plurality of adjusting bolts, a furnace cover and a chimney, wherein the furnace body is a conical cylinder with thick upper and thin lower parts without a top surface and a bottom surface; the furnace cover is a conical cylinder with thin upper and thick lower parts, the bottom edge of the furnace cover is provided with a fender; a plurality of adjusting bolts are uniformly arranged at the top edge of the furnace body; the furnace cover is placed on the adjusting bolts arranged at the top of the furnace body so that

the fender covers the top of the furnace body; and the chimney is arranged at a port of the cylinder on the top of the furnace cover (5)The middle and lower part of the chimney is uniformly provided with a plurality of air inlet holes. In the process of gasification and carbonization of biomass materials, the invention can quickly and efficiently produce bichar, so as to achieve full combustion of pyrolysis gas, and the device has simple structure, convenient operation, low price and convenient popularization and application.



21: 2022/05251. 22: 2022/05/12. 43: 2022/07/20 51: G01C

71: JILIN UNIVERSITY

72: ZHANG Xiaoying, QI Linlin, DAI Zhenxue, MA Ziqi, MA Funing, CAI Fangfei, WANG Zheng 54: EXPERIMENTAL DEVICE AND METHOD OF SIMULATING POLLUTANT TRANSPORT IN ROCK MASS FRACTURE NETWORK SYSTEM 00: -

An experimental device and a test method for simulating pollutant transport in rock mass fracture network system comprises a rock mass fracture network system which consists of cross rock mass sample; a cross fracture rock mass simulation test

chamber device which isolates a rock mass fracture network system from the external environment so that an internal structure of the rock mass fracture network system is stable and a seepage problem does not occur, a variable rate regulation supply system and a monitoring system for automatically collecting and processing various test data during the whole test process. According to the application, the large-scale rock mass sample containing cross fractures is taken as the research object, which makes up the shortage of small-scale samples in the laboratory, realizes the accurate simulation, migration, distribution and prediction of pollutants on the field fractured rock mass network system once they are leaked in the storage process of high-level radioactive waste in the geological repository to the greatest extent, and can automatically monitor the migration track and path of related pollutants in the fractures, and study the seepage, flow and mass transfer law of pollutants at the fracture intersections; the device of the application is simple, easy to operate and low in implementation cost.



21: 2022/05252. 22: 2022/05/12. 43: 2022/07/18 51: C12Q

71: QINGDAO AGRICULTURAL UNIVERSITY 72: WANG Wenqi, ZHANG Yuna, WANG Xin, ZHAO Chunyan, CHEN Shiyong, XU Hairuo, ZHANG Yan, XU Shenbo

54: LAMP DETECTION METHOD OF AEROMONAS HYDROPHILA IN SHRIMP CULTURE

00: -

The invention discloses a Lamp detection method of Aeromonas hydrophila in shrimp culture. The Lamp detection method comprises the following steps: 1) culturing Aeromonas hydrophila strains; 2) extraction of chromosome DNA of Aeromonas hydrophila (3),

design of primers (4), template extraction and (5) establishment of LAMP reaction system. The invention has fast detection speed and accurate detection, and can quickly diagnose pathogenic bacteria in shrimps, so as to effectively prevent infection of Aeromonas hydrophila and prevent diseases.

21: 2022/05253. 22: 2022/05/12. 43: 2022/07/18 51: G01N

71: QINGDAO AGRICULTURAL UNIVERSITY 72: WANG Wenqi, ZHANG Yuna, WANG Xin, ZHAO Chunyan, CHEN Shiyong, XU Hairuo, ZHANG Yan, XU Shenbo

54: ENZYME-LINKED IMMUNOSORBENT ASSAY KIT FOR BLOOD CELLS OF PORTUNUS TRITUBERCULATUS AND PREPARATION METHOD THEREOF 00: -

The invention discloses an enzyme-linked immunosorbent assay kit for blood cells of Portunus trituberculatus and a preparation method thereof. The enzyme-linked immunosorbent assay kit for blood cells of Portunus trituberculatus comprises an enzyme-labeled plate, a sealing solution, a washing solution, an enzyme-labeled antibody, a pNPP substrate chromogenic solution, a phosphate buffer, a blood cell anticoagulant and a monoclonal antibody against Portunus trituberculatus blood cells. The invention combines the specific reaction of antigen and antibody with the efficient catalysis of enzyme substrate, which has high sensitivity, strong specificity and high accuracy, and can be used for parallel detection of a small number of samples and a plurality of samples, with greatly improved repeatability and stability. It can visually show the changes of blood cells of Portunus trituberculatus and play a role in monitoring the health status of Portunus trituberculatus.



21: 2022/05254. 22: 2022/05/12. 43: 2022/07/18 51: H01M

71: Kunming University of Science and Technology, Yunnan Minzu University

72: GUO Yujiao, NING Ping, GUO Junming 54: PREPARATION METHOD OF HIGH-TEMPERATURE LONG-CYCLE NICKEL-COBALT CO-DOPED LITHIUM MANGANATE CATHODE MATERIAL

00: -

The invention relates to a preparation method of high-temperature long-cycle nickel-cobalt co-doped lithium manganate cathode material with stability. The method specifically comprises the steps of preparing dopant dispersion, fuel dispersion, mixing and preparing the product, etc., mechanically stirring uniformly to obtain reaction mixture slurry, and then placing it in a porcelain crucible, putting the porcelain crucible in a muffle furnace with a preset temperature of 500 degree Celsius, burning and reacting in air atmosphere for 1 h, taking the combustion product out, cooling in the air, grinding it, roasting it in a muffle furnace with a temperature of 650 degree Celsius for 6 h, taking the baked product out, cooling it in the air and grinding it to obtain LiNixCo0.10Mn1.90-xO4 (x=0.01-0.10) cathode material. The rate performance of the nickel-cobalt co-doped lithium manganate cathode material synthesized by the invention is obviously better than that of LiCo0.10Mn1.90O4 prepared by other methods. The invention adopts a solid-liquid-water mixing system, and the mechanical stirring and mixing time is short; the reaction mixture slurry does not need to be dried, and is directly heated for combustion reaction. The preparation method is simple and rapid, and the electrochemical performance is excellent.



21: 2022/05255. 22: 2022/05/12. 43: 2022/07/18 51: G01N

71: NORTHWEST A&F UNIVERSITY 72: Meng Qinqian, Wang Jian, Li Zelin, Han Peidong, Zhang Ruidun, Liang Ke 54: A MEASUREMENT METHOD AND APPARATUS FOR THE RAPID DETERMINATION OF THE SIZE DISTRIBUTION OF RAIN DROPS 00: -

The present invention provides a measuring method and measuring device for the rapid determination of the size distribution of rain drops, the main body of the measuring device is a rectangular tin box, 70cm high, 125cm long and 12cm thick, with openings on the left and right sides of the box, one side of which is fitted with eight small fans set side by side to provide a uniform and constant horizontal air flow in the box, a rectangular opening on the upper side of the box near the fans, 10cm long and 10cm wide, to receive rain drops into the box, the bottom of the box is laid with a flat plate, on which 12 closely arranged metal boxes of 10cm long and 10cm wide are set in sequence to collect rain drops at different locations, and the measuring device is provided with a measuring method and a measuring device. 10cm long and 10cm wide to receive raindrops. A flat plate is laid on the bottom of the box, on which 12 metal boxes of 10cm long and 10cm wide are set in close sequence to collect raindrops at different locations and to measure the amount of rain at different locations.



21: 2022/05256. 22: 2022/05/12. 43: 2022/07/20 51: E04G

71: Henan Capital Construction Science Experiment Institute Co., Ltd, Guangzhou University, Henan University of Engineering

72: Zhang JiChao, Lu LiMin, Xu Yong, Tan Ping, Duan JingMin, Yu ZhiWei, Wang JingHua, Wang DaYang, Zhang Zhuo, Bao Wei, Li XiaoBin, Zhang Yan, Kong LingHu

54: MODULAR BUILDING HOISTING SYSTEM AND HOISTING METHOD THEREOF 00: -

This invention provides a modular building hoisting system and hoisting method thereof, which comprises an upright post, a support frame built on a poured modular building, a boom whose two ends are fixedly connected with the upright post and the support frame respectively, a lift sling horizontal guide rail connected to the lower side of the boom, a hoisting assembly and a first pulley installed on the lift sling horizontal guide rail, the first pulley is installed at one side of the horizontal guide rail of the lift sling and pulls the lift sling assembly to horizontally slide along the horizontal guide rail of the lift sling through a transmission belt or a transmission chain; the hoisting assembly comprises a lift sling and a second pulley, wherein the lift sling is installed on the horizontal guide rail of the lift sling, and the second pulley is arranged on the top of the lift sling and pulls the lift sling to vertically lift through a transmission belt or a transmission chain. The invention effectively solves the problem that the general tower crane device is difficult to meet the lifting weight requirement, and simultaneously improves the lifting efficiency, shortens the construction period and reduces the construction cost.



21: 2022/05257. 22: 2022/05/12. 43: 2022/07/20 51: B23K

71: Zhejiang Cangnan Instrument Group Dongxing Energy Technology Co., Ltd.

72: LIN, Tianqi, YE, Decai, CHEN, Kai, LIN, Yuanwen, XIAO, Yunxuan, HONG, Cheng, JIANG, Xiebin, ZHENG, Xuan, CHEN, Daoding 54: WELDING PROCESS FOR FILTER 00: -

The present invention provides a welding process for a filter. The welding process for a filter uses automatic apparatuses of a conveying robot and a welding robot to implement a second welding procedure in background art, therefore greatly reducing inputs of labor cost, improving production efficiency, and achieving high welding precision and desirable use effects of products.



21: 2022/05258. 22: 2022/05/12. 43: 2022/07/20 51: G01N

71: Shanghai University of Medicine & Health Sciences

72: DUAN Baoyu, LI Yanfei, QIN Ziyao, YANG Zhifang, CHEN Hong, NA Lixin, ZHANG Xia, YANG Wenxiao, HE Kai, LIU Beihai 33: CN 31: 202210398825.8 32: 2022-04-15

54: FLUORESCENCE IMMUNOASSAY EQUIPMENT

00: -

The invention discloses a fluorescence immunoassay equipment, which comprises a housing, the bottom of which is detachably connected with a base; the base is fixedly mounted a linear moving unit, a thermal printer and an optical path unit; the moving end of the linear moving unit is fixedly mounted with an adaptive card holder, the optical path unit is located above the linear moving unit, and a controller is fixedly mounted on the top of the housing; the side wall of the housing is provided with a reagent card socket and a printing paper port; the reagent card socket is arranged corresponding to the adaptive card holder, and the printing paper port is arranged corresponding to the thermal printer; the linear moving unit, the thermal printer and the optical path unit are electrically connected with the controller, and the controller is electrically connected with a power supply, which is fixedly installed on the base. The invention has simple structure and small volume, and has an independent built-in power

supply, so that it does not need external power supply, is convenient to carry, and can be used outdoors. At the same time, it can carry out fluorescence immunoassay analysis on different types of reagent cards, thus increasing the application range of this equipment.



21: 2022/05259. 22: 2022/05/12. 43: 2022/07/20 51: A01N

71: Qinghai Academy of Agriculture and Forestry Sciences

72: LI Wei

54: CHEMICAL HERBICIDE COMPOSITION AND APPLICATION THEREOF

00: -

The invention discloses a chemical herbicide composition and application thereof, belonging to the technical field of herbicides. The chemical herbicide composition of the invention consists of triazolinone herbicides, propionate herbicides and triazine selective systemic conduction herbicides in a mass ratio of 2.1-3:1.4-2:1, wherein the triazolinone herbicides are carfentrazone-ethyl; the propionate herbicide is cyhalofop-butyl; the triazine selective systemic conduction herbicide is ametryn. The composition can be used for preventing and killing chicory, a weed of Compositae. According to the invention, the known herbicides are combined and reasonably proportioned to be applied to the control of endive, and the control effect of the mixed herbicides is greatly improved compared with that of a single dosage; moreover, each single dosage can complement each other, so that the dosage and harm of triazine selective systemic conduction herbicides are reduced; and meanwhile, the mixed single dosage is synergistic and complementary,

thus delaying the generation of weed drug resistance.

21: 2022/05262. 22: 2022/05/12. 43: 2022/06/30 51: G01N; G01R; C01B 71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES 72: DAI, LIDONG, HU, HAIYING 33: CN 31: 202111086648.1 32: 2021-09-16 54: METHOD FOR PREPARING AND CALIBRATING METALLIZED GERMANIUM TELLURIDE UNDER NON-HYDROSTATIC PRESSURE 00: -

The invention discloses a method for preparing and calibrating metalized germanium telluride under a non-hydrostatic pressure. The method comprises: respectively forming symmetrical circular holes in alloy steel and beryllium copper of upper and lower supporting blocks of a four-column press; placing diamond on a tungsten carbide base fitted on the tool; fixing a lower part of the diamond to the tungsten carbide base; carrying out baking and then respectively placing two sets of diamonds and bases on a four-column high-temperature and highpressure diamond anvil cell device; pre-pressing a T301 stainless steel metal gasket; putting boron nitride-epoxy resin insulating powder in a sample cavity, closing the press for secondary pre-pressing, and drilling with a laser-beam drilling machine a circular hole as a sample cavity in the center of the gasket sample cavity after the secondary prepressing; and putting high-purity solid semiconductor germanium telluride powder as an initial material into the sample cavity and closing the press to obtain metalized germanium telluride, wherein the pressure is increased to 36.5 GPa and held constant for 3.0 h. Technical problems in the prior art, such as uncertain pressure points for preparing metal-phase germanium telluride, inaccurate calibration and the like, are solved.



21: 2022/05267. 22: 2022/05/12. 43: 2022/07/20 51: H04W

71: Dr.Vishwanath Karad MIT World Peace University, KUMAWAT, Manisha, GUNALE, Kishanprasad, SRIVASTAVA, Jay, BHOGE, Satyan, KAPIL, Tanmay, VYAS, Chetan, LILHA, Aayushi 72: KUMAWAT, Manisha, GUNALE, Kishanprasad, SRIVASTAVA, Jay, BHOGE, Satyan, KAPIL, Tanmay, VYAS, Chetan, LILHA, Aayushi, KOWDIKI, Manisha

54: MULTIPURPOSE DRONE INTEGRATED WITH A SELF-DRIVEN ACTION TAKING ROBOT 00: -

The present invention particularly relates to a multipurpose drone integrated with a self- driven action taking robot. The proposed invention consisting of a drone and the rover system wherein said drone system is designed for the transportation facility of the rover to different locations; a flight controller enabled as a processing unit is interfaced with six ESCs (Electronic Speed Controllers) each are then connected to six motors and a speed controllers (ESCs) enabled to allow drone flight controllers to control and adjust the speed of the aircraft's electric motors. Wherein a signal from the flight controller causes the ESC to raise or lower the voltage to the motor as required, thus changing the speed of the propeller.



21: 2022/05268. 22: 2022/05/12. 43: 2022/07/20 51: A01K

71: Dr. Vishwanath Karad MIT World Peace University, PHADKE, Anuradha C., LELE, Jyoti A.
72: PHADKE, Anuradha C., LELE, Jyoti A.
54: IOT BASED AUTOMATIC BIRD FEEDER
00: -

The present discloser relates, in general to an IOT based automatic bird feeder. The proposed invention consists of camera module and Audio recorder to identify bird species from their images as well as songs pattern or voice. Also solar panels will be implemented on top to charge the battery. This proposed system can be used for Birds species identification, for giving assistance to Ornithologists and for contribution in balancing of ecosystem and biodiversity.



21: 2022/05269. 22: 2022/05/12. 43: 2022/07/20 51: A01N

71: Dr. Rishi Kumar Vishnoi, Dr. Manju Pandey, Dr. Krishna Srivastava, Ram Prakash Tiwari, Dr. Nitin Srivastava, Avneesh Kumar, Harshit Srivastava 72: Dr. Rishi Kumar Vishnoi, Dr. Manju Pandey, Dr. Krishna Srivastava, Ram Prakash Tiwari, Dr. Nitin Srivastava, Avneesh Kumar, Harshit Srivastava

54: A COMPOSITION TO PREPARE HYBRID COMPOUND CONTAINED 1,3 OXAZIN AND COUMARIN RING

00: -

The present invention generally relates to a composition to prepare hybrid compound contained 1.3 oxazine and coumarin ring comprises a powder extract of a-naphthol, from 20-40 milliliter; a liquid extract of ethyl acetoacetate, from 20-40 milliliter; a liquid extract of conc. sulphuric acid, from 20-40 milliliter; an extract of 4-methyl-2Hbenzo[h]chromen-2-one, from 20-40 milliliter; a powder extract of thiosemicarbazide, from 20-40 milliliter; a liquid extract of pyridine, from 15-30 milliliter; an extract of o-nitro benzaldehyde, from 15-30 milliliter; a powder extract of ß-naphthol, from 20-40 milliliter; an extract of formaldehyde, from 20-40 milliliter; and a liquid extract of acetonitrile, from 15-30 milliliter. The presences of these element in single oxazine nucleus considered as important class of heterocyclic compounds for the treatment of various disease such as analgesic, antiinflammatory, anti-leukemic, antimalarial, anticonvulsant, antimicrobial activities, anti-HIV, antiviral antituberculosis and thymidylate synthase poly-(ADP-ribose) polymerase (PARP) and thyrosine kinase, anti-osteoclastic bone from very primitive time.



21: 2022/05270. 22: 2022/05/12. 43: 2022/07/20 51: G11C

71: Prof. (Dr.) Vandana Dubey, Prof. (Dr.) Om Prakash Singh, Prof. (Dr.) Ganga Ram Mishra, Dr. Priti Kumari

72: Prof. (Dr.) Vandana Dubey, Prof. (Dr.) Om Prakash Singh, Prof. (Dr.) Ganga Ram Mishra 54: A DEVICE AND A METHOD FOR DESIGNING REVERSIBLE REALIZATION OF 2:4 DECODER CIRCUIT

00: -A device

A device and a method for Designing Reversible Realization of 2:4 Decoder module, comprises of: designing a reversible logic gate (202) having a plurality of input and output pins such that atleast an input combination is generated at any instance based on known output combinations, wherein an output bit of the designed gate is high for half the number of total input combinations; and designing the 2:4 decoder module (204) from the designed reversible logic gate (202) with a requirement of atleast two constant input signals and a zero garbage output signal generation, wherein for the

input signals, the output value is a combination of three zeros and a non-zero value.



21: 2022/05310. 22: 2022/05/13. 43: 2022/07/20 51: A01B

71: Hunan Agricultural University

72: DENG Xiaohua, DENG Yongsheng, JIANG Zhimin, LI Yuanhuan, HUANG Jie, WANG Xinyue, YANG Lili

54: METHOD FOR IMPROVING ACIDITY AND FERTILIZING OF TOBACCO PLANTING SOIL BY RECONSTRUCTING PLOUGH LAYER AND DOUBLE SYNCHRONIZATION

00: -

The invention belongs to the technical field of fluecured tobacco planting soil treatment, and specifically discloses a method for improving acidity and fertility of flue-cured tobacco planting soil by reconstructing plough layer double synchronization, which comprises the steps of applying lime for the first time, planting green manure, turning green manure over after applying lime for the second time, vertical deep rotary tillage and applying microbial organic fertilizer to the farmland to be treated. The technical scheme of that invention has two major function, namely synchronous improvement of acidity of mountain surface layer and subsurface soil, synchronous improvement of acidity of tobaccogrowing soil and synchronous fertilization of soil, and can effectively improve the ecological environment of tobacco-growing soil, improve the agronomic character of flue-cured tobacco, improve the coordination of chemical components of tobacco leaves, and improve the planting benefit of fluecured tobacco.



21: 2022/05311. 22: 2022/05/13. 43: 2022/07/20 51: A01M

71: Nanjing Forestry University 72: JU Chenghui

54: MANAGEMENT SYSTEM BASED ON ACOUSTIC CHARACTERISTICS FOR PREVENTING BIRD DAMAGES IN THE ORCHARD



The application discloses a management system based on acoustic characteristics for preventing bird damage in the orchard, comprising: a data acquisition module, a processing module, a voice recognition module, a bird damage prevention module and a power supply module, where the data acquisition module, the processing module, the voice recognition module, the bird damage prevention module are in communication connection with the power supply module; the data acquisition module is used for collecting the acoustic characteristics of birds; the processing module is used for communicating and processing data information; the voice recognition module is used for recognizing of bird acoustic characteristics; the bird damage prevention module is used for expelling birds; the power supply module is used for providing electric energy. The application not only adopts the sound recognition but also the image recognition to identify and expel birds, and accurately and efficiently solves the problem of bird damage.



21: 2022/05312. 22: 2022/05/13. 43: 2022/07/20 51: C05F 71: Institute of Cotton Research, Shanxi Agricultural University

72: ZHANG Guiyun, ZHANG Liping, LV Beibei, ZHANG Dong, LIU Zhen, FAN Qiaolan, CHANG Fangjuan, YAO Zhong

54: FILM-COVERED OXYGEN-INCREASING FERMENTATION TOWER FOR CONTINUOUSLY AND RAPIDLY PRODUCING ORGANIC FERTILIZERS FROM DOMESTIC GARBAGE 00: -

The application relates to a film-covered oxygenincreasing fermentation tower for continuously and rapidly producing organic fertilizers from domestic garbage, aims to solve the technical problems of poor economy, unmanageable odors and restricted sites and the like in the existing fermentation technology and fermentation device, and provides a film-covered oxygen-increasing fermentation tower for continuously and rapidly producing organic fertilizers from small-capacity domestic garbage, which is suitable for the treatment of domestic garbage in villages or communities. The technical scheme is: the application comprises a fermentation tower, a air blower, a discharge port door, a filmcovered bracket, a covered film, a water collecting tank, a drain pipe, a plurality of fork blocks, a fork block bracket, a fork block wrench, a ventilation pipe, an air distribution pipe, a fork block fixing buckle and a control system, the covered film bracket is arranged on the top of the fermentation tower, the air blower and the ventilation pipe are connected with the tower body, the water collecting tank is arranged at the middle part of the outer side wall of the fermentation tower, a plurality of fork blocks, fork block brackets and air distribution pipes are arranged in the tower body. The application is suitable for the on-site treatment and the utilization of domestic garbage in villages or communities and the like; the application has high economic benefits, environmental benefits and ecological benefits.



21: 2022/05313. 22: 2022/05/13. 43: 2022/07/15 51: E04B

71: Henan Capital Construction Science Experiment Institute Co., Ltd, Guangzhou University, Guangzhou City Construction College

72: Zhang JiChao, Li MengGuang, Tan Ping, Wang KeYi, Wu ChengXia, Xu Yong, Wu YunHui, Gao Hua, Ren FengMing, Xu DongLiang, Yu ZhiWei, Ding LiLi, Jian WeiTong, Ye ShuGuang 54: SOLAR PREFABRICATED WALL AND ITS MODULAR BUILDING UNIT 00: -

This invention provides solar prefabricated wall and its modular building unit that comprises a prefabricated wall panel, a solar photovoltaic panel and a solar control device, wherein the solar photovoltaic panel is arranged at the outer side of the prefabricated wall panel, and the solar control device is arranged at the inner side of the prefabricated wall; the solar energy control device comprises a storage battery, an inverter and a transformer, wherein the solar photovoltaic panel is connected with the storage battery through wires, the storage battery is connected with the inverter and the transformer through wires, the storage battery provides DC output, and the inverter

provides AC output. The invention also provides a modular building unit. The invention combines the solar photovoltaic panel with the prefabricated wallboard, and it does not need to install external supports on site, thus improving the on-site construction efficiency and reducing the cost.



21: 2022/05315. 22: 2022/05/13. 43: 2022/07/20 51: G01D; G01S

71: Anhui University

72: WANG, Jie, LIÚ, Wenqing, ZHANG, Tianshu, LIU, Cheng, LV, Lihui, XIANG, Yan, LIU, Haoran 33: CN 31: 202110788259.7 32: 2021-07-13 54: LIDAR SAFETY CONTROL DEVICE 00: -

Disclosed is a lidar safety control device, including: a biosensor configured to provide a signal input to the device and sense and identify characteristic information about an organism approaching a lidar system within 1 meter; a data acquisition and control system configured to identify the characteristic information about the organism and control a laser adjustment module and a detector adjustment module; the laser adjustment module; and the detector adjustment module. In the present invention, signs of the organisms are sensed rapidly based on the technology of identifying the organisms and connected with a laser control system in an automatic and intelligent manner, and working states of the lidar are changed in a buffered manner by adjusting a control current or voltage signal of a laser in a continuous and gradual manner, which effectively protects not only organisms invading the lidar system but also the lidar system itself.



21: 2022/05316. 22: 2022/05/13. 43: 2022/07/20 51: E04B

71: Henan Capital Construction Science Experiment Institute Co., Ltd, Guangzhou University, Guangzhou Panyu Polytechnic

72: Zhang JiChao, Ding HuiFu, Tan Ping, Zhu YanFeng, Wang KeYi, Xu YanXi, Xu Yong, Wang DaYang, Li MengGuang, Yu ZhiWei, Zhang XueSong, Bao Wei, Jian WeiTong, Zhu MingChao 54: MODULAR UNIT TRANSVERSE CONNECTION STRUCTURE AND CONSTRUCTION TECHNOLOGY THEREOF 00: -

This invention provides modular unit transverse connection structure and construction technology thereof that comprises a left modular unit and a right modular unit, a cast-in-place belt is arranged between the left modular unit and the right modular unit, and the left modular unit and the right modular unit are connected into a whole through the cast-inplace belt; the modular unit comprises a prefabricated floor slab, one side of the prefabricated floor slab is provided with a plurality of steel bar grooves along the transverse direction, and the left prefabricated floor slab corresponds to the steel bar grooves on the right prefabricated floor slab one by one. Prestressed steel bars are arranged in the steel

bar grooves, and the prestressed steel bars run through two corresponding steel bar grooves of the left and right prefabricatedfloor slabs, and both ends of the prestressed steel bars extend out of the steel bar grooves and are anchored by special anchors for prestressed steel bars. The invention also provides a construction technology of the modular unit transverse connection structure. According to the invention, the left modular unit and the right modular unit are connected in a prestressed manner, so that cracks at the connecting nodes can be effectively prevented, and the connection is safer and more reliable



21: 2022/05317. 22: 2022/05/13. 43: 2022/07/20 51: G06K

71: Qinghai Normal University

72: JIN, Xin, JIN, Yanxiang, MAO, Xufeng, FU, Di 54: METHOD FOR EXTRACTING DRY SALT FLAT BASED ON SENTINEL-1 DATA 00: -

The present invention discloses a method for extracting a dry salt flat based on Sentinel-1 data, comprising field survey and collecting data, processing the Sentinel-1 data, determining backscattering values, spectrum characteristics and colors of different polarization modes, and determining classification criteria and threshold classification. Using the method of the present invention does not need to spend a lot of time and manpower on field surveys, especially in large research areas, where the dry salt flats and ordinary soils in some areas show roughly the same color, and it is difficult to distinguish the two with the naked eye. The purpose of distinction can be better achieved by using the present invention.



21: 2022/05318. 22: 2022/05/13. 43: 2022/07/20 51: E01D

71: GuangXi Beitou Transportation Maintenance Technology Group Co.,Ltd.

72: HAO Tianzhi, CHEN Qifeng, LUO Junhui, NING Jiejun

54: METHOD FOR QUICKLY BREAKING AND DISMANTLING MASONRY ARCH BRIDGE BY RELEASING BRIDGE DECK CONSTRAINTS 00: -

The application discloses a method for quickly breaking and dismantling the masonry arch bridge by releasing the bridge deck constraints, which comprises the following steps: Step 1: Collecting or measuring in the field the structure and material parameters of the masonry arch bridge to be demolished and dismantled; step 2: Calculating the critical values of the number, the thickness and the width of the rebar paved on the bridge deck of the masonry arch bridges to be demolished and dismantled through a critical formula; step 3, cutting the bridge so that the number, the thickness and the width of rebar paved on the bridge deck of the masonry arch bridges to be demolished and dismantled are all less than the above critical value; step 4, one side of the arch foot is mechanically demolished, and the whole span of the masonry arch bridge will collapse; step 5: Removing the collapsed masonry materials and complete the demolition of masonry arch bridges. The application can realize the collapse at once of the whole bridge through mechanical dismantling operations, and

crushing the masonry materials of the masonry arch bridge into small pieces by utilizing the energy of collapsing and falling, thereby it can realize quick dismantling and removal, reduce the safety risk of dismantling, shorten the construction period to the greatest extent, lower the construction cost, and reduce the influence on the surrounding environment.



21: 2022/05319. 22: 2022/05/13. 43: 2022/07/20 51: G01N

71: Guizhou University, Guizhou Institute of Biology, Guizhou Botanical Garden

72: ZHANG Zhenming, ZHANG Jiachun, ZENG Xianping, YUAN Shicong, LUO Wenmin, MU Guiting, WU Xianliang, LIU Yingying 54: GIS SPATIAL INTERPOLATION SIMULATION METHOD FOR ESTIMATING SOIL ORGANIC CARBON STORAGE IN KARST AREA 00: -

The invention discloses a GIS spatial interpolation simulation method for estimating soil organic carbon storage in karst area, which relates to the technical field of soil organic carbon storage estimation in karst areas, and aims to solve the problem that the existing estimation method cannot calculate soil organic carbon storage in areas with missing soil types or provide a basis for measuring and expanding soil organic carbon on a larger scale under the condition of limited data. S1, determination of a research area; S2, layout of sample points: arranging a spatial distribution grid on the 1:10000 topographic map of the study area, and using the handheld GPS, compass and the topographic map of sample point distribution to locate sampling points; S3, sample collection: excavating the soil profile at each sampling point, and collecting the soil samples by stratified sampling, recording the background information at each sampling point, and determining the indexes of soil bulk density, soil thickness and rock exposure rate; S4, sample treatment and measurement and analysis; and S5, calculation of soil organic carbon storage.



21: 2022/05320. 22: 2022/05/13. 43: 2022/07/20 51: H02B

71: Shandong Dachi High Voltage Switchgear Co., Ltd.

72: Jianbo Sun, Rui Chen, Jiulin Zhang, Shengjun Wang, Yuxin Liu, Ke Zhang, Xiwang Zhang
33: CN 31: 202122268541.0 32: 2021-09-18
54: NEW COLD PROOF SYSTEM FOR METAL
ENCLOSED SWITCH

00: -

The utility model discloses a novel cold proof system for a metal closed switch, which comprises an intelligent heating module and a metal closed switch. The intelligent heating module comprises a built-in heating device, the built-in heating device comprises a fixed seat, the fixed seat is fixedly installed with a heating rod through a heating rod insert, and the heating rod is connected with the intelligent controller system through a cable. The utility model avoids constant temperature heating, wastes electric energy, and ensures the heating effect.



21: 2022/05321. 22: 2022/05/13. 43: 2022/07/20 51: G01R

71: Shandong Dachi High Voltage Switchgear Co., Ltd.

72: Jianbo Sun, Zongying Wang, Yongchen You, Wei Zhang, Wenlong Liu, Ziqiang Zhu, Xiwang Zhang

33: CN 31: 202111197157.4 32: 2021-10-14 54: METHOD AND EQUIPMENT FOR DETECTING INSULATION PERFORMANCE OF COMBINED ELECTRIC APPLIANCE BASED ON PHOTOELECTRIC JOINT TECHNOLOGY 00: -

The invention discloses a method for detecting the insulation performance of a combined electric appliance based on a photoelectric joint technology. The method comprises the steps of employing an optical detection head and a CCD collection unit to respectively detect discharge optical signals, respectively converting the discharge optical signals into electric signals, carrying out the feature extraction and information fusion, and carrying out the artificial intelligence diagnosis. The optical

detection and diagnosis technology is utilized, the partial discharge signal in the equipment can be accurately and efficiently monitored, the frequency of irregular overhaul of equipment such as a combined electrical appliance is reduced, the input of manpower, material resources and financial resources is reduced, and the operation and maintenance cost are reduced.



21: 2022/05327. 22: 2022/05/13. 43: 2022/06/30 51: B01J; C30B 71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES 72: DAI, LIDONG, HU, HAIYING 33: CN 31: 202111317925.5 32: 2021-11-09 54: METHOD FOR PREPARING SINGLE-CRYSTAL LOW-TITANIUM DRY FORSTERITE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION

00: -

Disclosed is a method for preparing single-crystal low-titanium dry forsterite under a high-temperature and high-pressure condition. The method includes: adding 10 g of solid magnesium nitrate hexahydrate powder, 4.5688 ml of liquid ethyl orthosilicate and 0.2656 µl of liquid tetrabutyl titanate to 50 ml of an absolute ethanol solution; sealing a wide-mouth bottle with a thick plastic film and stirring the mixture for 24 hours, adding 30 ml of a 69–70% acid solution and then stirring the mixed solution at 80 °C, and 1000 rpm for 24 hours; evaporating all the solution to dryness in the wide-mouth bottle at 150 °C, and putting the mixed powder in a platinum crucible; placing the platinum crucible in a high-temperature muffle furnace for high-temperature calcination; grinding and mixing the calcined sample in an agate mortar thoroughly, pressing the powder into discs, stacking three discs up, placing the three discs in the platinum crucible, calcining and grinding the discs into powder in a high-temperature oxygen atmosphere furnace, and then pressing the powder into a cylinder, and then sealing the cylinder in a gold-palladium alloy tube, and then carrying out calcination at high temperature and high pressure to obtain single-crystal forsterite. The present invention fills up the technical blank of the preparation of single-crystal low-titanium olivine.

21: 2022/05328. 22: 2022/05/13. 43: 2022/06/30 51: C03B; C30B 71: INSTITUTE OF GEOCHEMISTRY CHINESE

ACADEMY OF SCIENCES 72: DAI, LIDONG, HU, HAIYING 33: CN 31: 202111317920.2 32: 2021-11-09 54: METHOD FOR PREPARING SINGLE-CRYSTAL HIGH-TITANIUM HIGH-WATER MAFIC OLIVINE

00: -

Disclosed is a method for preparing a single-crystal high-titanium high-water mafic olivine, including: according to the stoichiometry of mafic olivine, preparing a cylindrical mixture sample by using solid magnesium nitrate hexahydrate powder, solid iron (III) nitrate nonahydrate powder, liquid ethyl orthosilicate and liquid tetrabutyl titanate as starting materials; preparing water-sourced discs of a talcbrucite mixture in a weight ratio of 10:1 by using solid natural talc powder and solid natural brucite powder as starting materials; placing the watersourced discs at two ends of the cylindrical mixture sample; and putting the cylindrical mixture sample and the water-sourced disc into a gold-palladium alloy sample tube for high-temperature and highpressure reaction to prepare the single-crystal hightitanium high-water mafic olivine. The current technical blank of the preparation of high-titanium high-water Martian mantle mafic olivine is filled up, so as to obtain the large-particle single-crystal hightitanium high-water mafic olivine experimental sample.

21: 2022/05329. 22: 2022/05/13. 43: 2022/06/30

51: C30B; C03B

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES 72: DAI, LIDONG, HU, HAIYING 33: CN 31: 202111317739.1 32: 2021-11-09 54: METHOD FOR PREPARING SINGLE-CRYSTAL HIGH-CHROMIUM HIGH-WATER COBALT OLIVINE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION 00: -

Disclosed is a method for preparing a single-crystal high-chromium high-water cobalt olivine under a high-temperature and high-pressure condition, including: preparing a cobalt olive cylinder sample by using solid cobalt (II) nitrate hexahydrate, liquid tertbutyl chromate, liquid ethyl orthosilicate, solid natural talc powder, solid cobalt hydroxide powder and absolute ethanol as starting materials; preparing two water-sourced discs by using talc and cobalt hydroxide as water sources; placing the two watersourced discs at two ends of the cylinder sample respectively; and putting the sample and the watersourced discs in a gold-palladium alloy sample tube for high-temperature high-pressure reaction to prepare the single-crystal high-chromium high-water cobalt olivine. The invention can solve the problem of the prior art that prepared pure cobalt olivine does not contain water, and the particle size of the product pure cobalt olivine is relatively small, which cannot meet the requirements for the scientific research of various high-temperature and highpressure laboratory simulations, especially the research on the optional orientation and crystal axis anisotropy of single-crystal mineral lattices under a high pressure.

21: 2022/05330. 22: 2022/05/13. 43: 2022/06/30 51: C30B

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES 72: DAI, LIDONG, HU, HAIYING 33: CN 31: 202111317919.X 32: 2021-11-09 54: METHOD FOR PREPARING SINGLE-CRYSTAL HIGH-VANADIUM HIGH-TITANIUM HIGH-WATER MANGANESS OLIVINE 00: -

Disclosed is a method for preparing single-crystal high-vanadium high-titanium high-water manganese olivine, comprising: preparing a high-vanadium hightitanium manganese olive cylinder sample by using solid manganese (II) nitrate tetrahydrate powder,

solid ammonium metavanadate, liquid ethyl orthosilicate, liquid tetrabutyl titanate, solid natural serpentine powder, solid natural pyrochroite powder, and absolute ethanol as starting materials; pressing serpentine and pyrochroite into two discs on a press; placing the two discs at two ends of the manganese olive cylinder sample in sequence; and sealing the manganese olive cylinder sample and the two watersourced discs together in a gold-palladium alloy sample tube for high-temperature high-pressure reaction to prepare the single-crystal high-vanadium high-titanium high-water manganese olivine. The problems in the prior art that the prepared pure manganese olivine without trace elements has a relatively small particle size and obtained samples are all free of water and cannot meet the scientific research needs of various high-temperature and high-pressure laboratory simulations are solved.

21: 2022/05333. 22: 2022/05/13. 43: 2022/07/20 51: F04D

71: TAICANG YUGEMINGYE ENVIRONMENTAL PROTECTION EQUIPMENT CO., LTD 72: ZHANG, Yu

33: CN 31: 201921823118.9 32: 2019-10-28 54: IMPROVED VOLUTE CASING HAVING OPTIMAL SEALED STRUCTURE 00: -

A worm gear cover with a sealing structure, comprising a motor base (1), an air inlet pipe (2), a worm gear casing (3), a bottom plate (4), a rack (5), a motor cover (6), a worm gear casing support plate (7), a shaft seal (8), an impeller (10) and a motor (20). The motor (20) is fixedly provided on the motor base (1). The impeller (10) is connected to a rotating shaft of the motor (20). The air inlet pipe (2) is provided on the worm gear casing (3) by means of a bolt, and the center of the air inlet pipe (2) and the center of the impeller (10) are located on the same axis. The shaft seal (8) is provided between the rack (5) and the worm gear casing (3). An air outlet (31) is formed in the worm gear casing (3). An air inlet (21) is formed in the air inlet pipe (2). By means of the worm gear cover composed of several parts, air can be well supplied, and moreover, the motor and the impeller can be separately provided, the overall structural design is reasonable, the air inlet pipe can be formed at a time by changing the materials of the raw materials, meanwhile, the weight of the overall

worm gear cover is reduced, and the service life is prolonged.



- 21: 2022/05334. 22: 2022/05/13. 43: 2022/07/20 51: E01D; E01F; E02B
- 71: JIAXING JINXILAI TECHNOLOGY CO. LTD 72: LV, Yan

54: SLIDING-BLOCK ENERGY-RELEASING STRUCTURE FOR BRIDGE PIER AND COMPUTING METHOD

00: -Disclosed is a sliding-block energy-releasing structure for a bridge pier and a computing method. The sliding-block energy-releasing structure comprises a base and a sliding block, wherein the base comprises a first anti-sliding pile, a second anti-sliding pile and a third anti-sliding pile which are arranged at intervals; the base further comprises three connecting beams; one end of a pull rope is connected to the sliding block, and the other end thereof goes around the second anti-sliding pile or the third anti-sliding pile and is then connected to a connecting member arranged on the bridge pier; and the sliding block is arranged in a channel, and when a flood or a solid material collides with the sliding block, the sliding block may pull the pull rope, and the pull rope applies a force, the direction of which is opposite to that of a water flow, to the bridge pier.



21: 2022/05335. 22: 2022/05/13. 43: 2022/07/20 51: E01D; E01F

71: JIAXING JINXILAI TECHNOLOGY CO. LTD 72: LV, Yan

54: BRIDGE PIER PROTECTION STRUCTURE AND POSITION AND ANGLE CALCULATION METHOD THEREFOR

00: -

A bridge pier protection structure and a position and angle calculation method therefor. The bridge pier protection structure comprises a protection support (4) and a stopping net (46). The protection support (4) comprises a first slide-resistant pile (41), a second slide-resistant pile (42), and a third slideresistant pile (43). A rotary cylinder (45) is sleeved on each slide-resistant pile. The protection support (4) further comprises three beams (44). Two ends of the stopping net (46) are connected to a bridge pier (2). The stopping net (46) is sleeved on the protection support (4), and is in contact with the rotary cylinders (45). The position and angle calculation method is used to calculate an angle of the protection structure at which the protection support (4) is most stable. The solution stops objects hitting a bridge, and alleviates impact on bridge piers from floods.



21: 2022/05385. 22: 2022/05/16. 43: 2022/06/06 51: B64D

71: AEROSPACE LIFE-SUPPORT INDUSTRIES LTD

72: LI, LIANGLIANG, XIONG, BIN, CHENG, XI, MENG, FANHUI, WU, ZHAOJIANG, HUANG, CHUNLI

33: CN 31: 201921834323.5 32: 2019-10-29 33: CN 31: 201911038507.5 32: 2019-10-29 54: AIRPLANE SEAT BACKREST WITH LIFESAVING FUNCTION

00: -

Disclosed is an airplane seat backrest with a lifesaving function, the airplane seat backrest comprising a backrest main body and a back plate assembly (103), wherein a containing cavity is provided in a front side of the backrest main body: the back plate assembly (103) comprises a back plate (402) covering the containing cavity, and a lifesaving parachute pack (408), which is arranged on a reverse side of the back plate (402) and contained in the containing cavity; the back plate (402) is fixedly connected to the backrest main body by means of a quick detaching mechanism in a quickly separable manner; lifesaving back straps of the lifesaving parachute pack (408) penetrate out of back strap penetrating holes in the back plate (402); and, during an airplane journey, a passenger leans against the back plate (402) and is connected to the back plate (402) and the lifesaving parachute pack (408) by means of the lifesaving back straps. A sitting-type lifesaving parachute is changed into a back-type lifesaving parachute, such that a passenger can quickly move in a cabin during an air emergency, shoulders of the passenger are not constrained, and the passenger cannot be hooked with other apparatuses.



21: 2022/05402. 22: 2022/05/16. 43: 2022/08/02 51: G06K; G06T

71: ZHENGZHOU UNIVERSITY OF AERONAUTICS 72: ZHANG, Yunjing

54: COMPLEX BACKGROUND SMALL-TARGET TRACKING DEVICE BASED ON MACHINE AND DEEP LEARNING

00: -

Disclosed is a background small-target tracking device including: a camera, which acquires images based on time series, including two consecutive frames of pictures; a positioning module used for positioning a target position of a current frame of picture; a first calculation module, which determines the size of a target by using a filter after the position is determined, and combines said position to obtain a rectangular box of the target; an extraction module, which inputs the position in a previous frame and the rectangular box into a convolutional neural network and performs feature extraction to obtain a position of the current frame; a second calculation module, which calculates an interframe displacement of the current frame relative to the target of the previous frame; and a tracking module, which determines whether the current frame is a last frame, finishes the tracking if so, otherwise, performs iterative target tracking.



- 21: 2022/05404. 22: 2022/05/17. 43: 2022/07/19
- 51: B03D
- 71: Central South University

72: LIU, Runqing, WANG, Changtao, SUN, Wei, HU, Yuehua

54: METHOD FOR REGULATING SULFIDE ORE FLOTATION BY DISSOLVED OXYGEN CONTENT IN PULP 00: -

The present invention discloses a method for regulating sulfide ore flotation by dissolved oxygen content in pulp. In the present invention, by adding a dissolved oxygen regulator and adjusting aeration stirring time/intensity, changing the dissolved oxygen content in the pulp, affecting the chemical environment and electrochemical conditions of the solution in a mineral system of pulp collector, and promoting or inhibiting the action between the collector and the minerals, and then regulating a flotation process of the sulfide ore.



21: 2022/05405. 22: 2022/05/17. 43: 2022/07/19 51: C02F

71: Institute of Fisheries Science, Tibet Academy of Agricultural and Animal Husbandry Sciences 72: LIU Fei. LIU Haiping

54: AN ECOLOGICAL RESTORATION EQUIPMENT FOR HABITAT WATER BODY 00: -

The invention discloses a habitat water ecological restoration equipment, which comprises a floating bed, wherein the center positions of two adjacent side surfaces of the floating bed are respectively provided with a connecting clip, the center positions of the other two adjacent side surfaces of the floating bed are respectively provided with a connecting clip slot, the center position of the upper end surface of the floating bed is provided with a penetrating cultivation hole, the lower end of the cultivation hole is provided with a cultivation basket, and the upper end surface of the floating bed is respectively provided with an installation slot on both sides of the cultivation hole. The invention relates to a habitat water ecological restoration equipment, which installs the filler by arranging the hanging frame and the installation seat, which not only improves the firmness of the filler installation, but also makes the subsequent filler replacement more convenient; By arranging the connecting clip and the connecting clip slot, the floating beds are staggered and crossconnected, which can effectively improve the stability of the ecological floating bed structure and avoid the defect that the screw connection is rusted and not durable.



21: 2022/05406. 22: 2022/05/17. 43: 2022/07/19 51: A01B

71: Guizhou University, Guizhou Institute of Biology, Guizhou Botanical Garden

72: ZHANG Zhenming, ZHANG Jiachun, ZENG Xianping, XU Daigang, MU Guiting, YANG Jiagan, WU Xianliang

54: METHOD FOR IMPROVING TEA GARDEN SOIL IN PLATEAU MOUNTAINOUS AREA 00: -

The invention discloses a soil improvement method for tea gardens in plateau mountain area, belonging to that technical field of soil improvement. The method comprises the following steps: grinding vermicompost, egg shells and dolomite lime into powder, adding humus soil, and uniformly mixing to obtain a mixture; the water-soluble graphene is dissolved in water to form graphene aqueous dispersion, and then sprayed into the mixture, and the pH is adjusted to 4.5-6.0, so as to obtain the soil conditioner for tea gardens in plateau mountainous areas; the soil conditioner was applied to tea garden soil in plateau mountainous area for improvement. The method of the invention can obviously reduce the content of metal ions in the plateau tea garden soil by more than 93 percent, adjust the pH of acidified soil to 4.9-5.6, and increase the tea yield in plateau mountain area by up to 24 kg/mu, which is 167 percent higher than that of the control group, thus achieving remarkable economic benefits. Meanwhile, the method of the invention is simple and convenient to operate, the raw materials are easily available and harmless, and it is easy to popularize and apply, laying an important foundation for the scale and industrial production of plateau tea gardens.

21: 2022/05407. 22: 2022/05/17. 43: 2022/07/19 51: B32B

71: Henan University of Science and Technology 72: MAO Zhiping, XIE Jingpei, WANG Aiqin, WANG Wenyan, CHANG Qinghua, MA Douqin, LIU Pei

54: A METHOD AND A DEVICE FOR PREPARING A COPPER-ALUMINUM LAYERED COMPOSITE MATERIAL

00: -

The invention provides a method and a device for preparing a copper-aluminum layered composite material. The invention solves the problems of many processes, low efficiency, high energy consumption, poor performance and the like in the common preparation process of copper-aluminum layered composite materials. The copper-aluminum layered composite material prepared by the preparation method and the device in the invention has the outstanding advantages of compact compounding process, high efficiency, good performance and large optional range of the size and shape of the base aluminum material.



21: 2022/05408. 22: 2022/05/17. 43: 2022/07/19 51: A01C

71: Henan University of Technology

72: LYU Haoxin, HUO Shanshan, LIU Yijun, LIU Shichang, WANG Ruolan

54: MICROBIAL DEGRADATION METHOD OF DEOXYNIVALENOL

00: -

The invention discloses a microbial degradation method of deoxynivalenol, which belongs to the technical field of microbial degradation. Specifically, it is disclosed that the root soil of plants is dissolved, and the supernatant obtained is cultured in the inorganic salt culture solution containing lanthanum element and taking deoxynivalenol (also known as deoxynivalenol, DON) as the only carbon source, so as to realize the microbial degradation of DON. According to the invention, lanthanum-dependent degradation mixed bacteria capable of degrading DON can be screened from plant root soil, so as to realize high-specificity and high-efficiency degradation of DON; taking wheat root soil as the object, the lanthanum-dependent mixed bacterium SH7 screened can completely degrade DON. The invention provides technical support for ensuring the quality and safety of grains, and at the same time, it also escorts the health of people and animals, and has great economic and social benefits.



21: 2022/05409. 22: 2022/05/17. 43: 2022/07/19 51: A01G; A01N; A01P 71: INSTITUTE OF FRUIT TREE RESEARCH GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES

72: ZHANG, Ruimin, ZENG, Jiwu, WU, Wen, HUANG, Yongjing, ZHU, Congyi
33: CN 31: 202111353603.6 32: 2021-11-16
54: APPLICATION OF CINNAMIC ACID IN DIAPORTHE CITRI PREVENTION AND TREATMENT

00: -

The present disclosure belongs to the technical field of prevention and treatment of citrus disease and pest, and particularly relates to application of cinnamic acid in Diaporthe citri prevention and treatment. The cinnamic acid is applied to Diaporthe citri prevention and treatment for the first time by the present disclosure, it has been found in studies that the cinnamic acid can have a good prevention and treatment effect, as much as 89.60%, on Diaporthe citri, and as the cinnamic acid can be separated and purified from plants, when applied to Diaporthe citri

prevention and treatment, the cinnamic acid has the advantages of being safe, efficient, free of side effects, etc., is more beneficial to environmental protection. The present disclosure not only explores the new application of the cinnamic acid, but provides a new way for safe and efficient prevention and treatment of Diaporthe citri, thereby having high economic value.

21: 2022/05410. 22: 2022/05/17. 43: 2022/07/19 51: B01J

71: Nanjing Vocational College of Information Technology

72: CHEN Hexiang, ZHANG Jun, CHEN Hong, ZHU Xianzhong, ZHOU Zhijuan, RUAN Lanlan, LIU Sukang

54: DIATOMITE-LOADED NITROGEN-DOPED NANO TITANIUM DIOXIDE ENVIRONMENTAL FUNCTIONAL MATERIAL

00: -

The invention discloses a diatomite-loaded nitrogendoped nano TiO2 environmental functional material, which comprises the following raw materials in parts by mass: 25-35 parts of water, 40-50 parts of diatomite-loaded nitrogen-doped nano TiO2, 5-10 parts of plant debris, 3-5 parts of binder, 2-5 parts of thickener and 3-5 parts of dispersant. The material can expand the corresponding range of TiO2 spectrum to visible light region, and improve the treatment effect of the material on organic pollutants.



21: 2022/05412. 22: 2022/05/17. 43: 2022/07/19 51: C12Q

71: Beijing Academy of Agriculture and Forestry Sciences

72: Zhao Jiuran, Wang Shuai, Song Wei, Zhang Ruyang, Wang Yuandong, Xing Jinfeng, Sun Xuan, Wang Jidong, Liu Qian

54: KASP MARKER RELATED TO SOUTHERN CORN RUST RESISTANCE AND ITS APPLICATION 00: - This invention provides KASP marker related to southern corn rust resistance and Its application. This invention also provides a method for identifying or assisting in identifying the maize varieties resistant to southern corn rust, which comprises the following steps: detecting whether the genotype of deoxynucleotide at the 1608911th position on chromosome 10 of the maize to be tested is GG, GA or AA, and determining the southern corn rust resistance according to the genotype of the maize to be tested: the tested maize with GG genotype and GA genotype showed resistance to southern corn rust; The tested maize with AA genotype showed susceptible to southern corn rust. Experiments prove that the KASP marker provided by the invention can effectively identify the maize varieties resistant to southern corn rust, and the identification method is simple to operate, and the detection result is accurate and reliable. It can be used for identification and auxiliary selection breeding of the maize varieties resistant to southern corn rust, and lays a theoretical foundation for the cultivation of southern corn rust resistant maize cultivars.

	Chr10: 1608911			
Jing2416K	TTGTAATATTG	GGT1 G	IGGCCCCAAT	TG <mark>A</mark> TAGC
Jing2416	TTGTAATATTG	AGGTTA	IGGCCCCAAT	TGATAGC
Jing724	TTGTAATATTG	GGTTA	IGGCCCCAAT	TG <mark>A</mark> TAGC
JingMC01	TTGTAATATTG	GGTTA	IGGCCCCAAT	TG <mark>GTAGC</mark>

21: 2022/05413. 22: 2022/05/17. 43: 2022/07/19 51: C12N

71: Crop Research Institute, Shandong Academy of Agricultural Sciences

72: Wang Xiaolu, Han Ran, Xu Wenjing, Wang Kai, Qi Guang, Zeng Xiaoxue, Zi Yan, Liu Cheng, Li Faji, Zhai Shengnan, Cheng Dungong, Guo Jun, Liu Aifeng, Li Haosheng, Cao Xinyou, Song Jianmin, Liu Jianjun

54: DCAPS MOLECULAR MARKER BASED ON GENOME RE-SEQUENCING SNP AND ITS APPLICATION IN AEGILOPS-SEARSII

The invention discloses the dCAPS molecular marker and application of Aegilops searsii based on genome re-sequencing SNP. By analyzing the SNP of genome re-sequencing of Ae. searsii, two dCAPS molecular markers were developed. Both primers can amplify different polymorphic bands in the Chinese Spring-Ae. searsii addition lines, but can

not amplify specific bands in common wheat such as CS and other wheat without chromosome of Ae. searsii. These two molecular markers can be used as specific markers of Ae. searsii to detect the hybrid progeny of wheat and Ae. searsii, and can be used to effectively serve the breeding of wheat and Ae. searsii hybrid, and provide new research ideas for the development of wheat related species.

M 1 2 3 4 5 6 7 8 M 1 2 3 4 5 6 7 8



21: 2022/05414. 22: 2022/05/17. 43: 2022/07/19 51: E01D

71: Central South University of Forestry and Technology

72: WANG, Da, CHEN, Haojie, ZHANG, Yongjian, QIN, Hongxi, DENG, Yang, DING, Youliang, LU, Naiwei

33: CN 31: 202220848928.5 32: 2022-04-13 54: BRIDGE STRUCTURE WITH DEICING AND ANTIFREEZING FUNCTIONS

00: -

Provided is a bridge structure with deicing and antifreezing functions. The bridge structure includes a bridge body, where several ordinary steel bars and several heat transfer tubes are mounted under a bridge floor; two adjacent heat transfer tubes are in communication with each other by means of a water return tube, and heat transfer tubes at two sides of the bridge body are in communication with a water supply main and a circulation main respectively; and the water supply main is in communication with a production well, the circulation main is in communication with a recharge well. . the production well stores geothermal water, and the water supply main is provided with a water pump. Heat of the geothermal water is radiated to the bridge floor by the heat transfer tubes which can effectively avoid traffic accidents caused by freezing and corrosion and damage caused by a halogen snow-melting agent.



21: 2022/05415. 22: 2022/05/17. 43: 2022/07/19 51: A61B

71: Anhui Polytechnic University

72: ZHENG Yanchang, WANG Kang, ZHANG Zhen, LU Yuelin, CHEN Yu

54: GLASSES FOR DETECTING MYOPIA DEGREE AND METHOD FOR DETECTING MYOPIA DEGREE 00: -

A pair of glasses for detecting myopia degree and a method for detecting myopia degree, belonging to the technical field of vision detection. The first lens body and the second lens body in the glasses are slidably connected back and forth to form an accommodating cavity, and an elastic transparent air bag is arranged in the accommodating cavity; Two sides of the elastic transparent airbag are bonded with the first lens body and the second lens body respectively, and a liquid injection transmission mechanism for injecting focusing liquid into the elastic transparent airbag and adjusting the volume of the accommodating cavity is arranged in the frame. The invention has the advantages that the first lens body, the second lens body and the elastic transparent air bag filled with focusing liquid are taken as an equivalent concave lens, and the distance between the first lens body and the second lens body is adjusted by changing the volume of the focusing liquid in the elastic transparent air bag; According to the position of the liquid injection transmission mechanism, the degree detection is accurate and continuous, the operation process is convenient and fast, the detection cost is low, and one tester can complete the degree detection, thus meeting the configuration requirements of the current myopia glasses and reducing the configuration cost.



21: 2022/05416. 22: 2022/05/17. 43: 2022/07/19 51: A23B

71: JIMEI UNIVERSITY

72: WEI Haocheng, WANG Mingfeng, NI Hui, LI Qingbiao

54: PREPARATION METHOD OF CANNED SOUR FISH

00: -

The invention discloses a preparation method of canned sour fish, which comprises the following steps: scaling and eviscerating fish, slicing the back, washing and draining, salting at low temperature for a short time, inoculating Lactobacillus plantarum for fermentation, cutting into pieces and canning, injecting seasoning liquid, vacuum sealing, sterilizing and cooling, and inspecting to obtain the canned sour fish. The preparation technology can effectively inhibit the fishy smell of the product, and the product has fermented sour flavor.



21: 2022/05417. 22: 2022/05/17. 43: 2022/07/19 51: A23B

71: JIMEI UNIVERSITY

72: WEI Haocheng, CHEN Yijun, NI Hui, LI Qingbiao 54: PREPARATION METHOD OF CANNED FISH WITH WINE FLAVOR

00: -

The invention discloses a preparation method of canned wine-flavored fish, which comprises the following steps: removing scales and internal organs of the fish, splitting the fish in half, pretreating, washing and draining, salting at low temperature for a short time, inoculating Saccharomyces cerevisiae for fermentation, cutting into pieces and canning, injecting seasoning liquid, vacuum sealing and sterilizing the canned food, and detecting the finished product to obtain the canned wine-flavored fish. Sequential fermentation canned technology can effectively suppress fishy smell, and the product has fermented wine aroma.



21: 2022/05418. 22: 2022/05/17. 43: 2022/07/19 51: G06F

71: Institute of Fisheries Science, Tibet Academy of Agricultural and Animal Husbandry Sciences 72: LIU Fei, LIU Haiping

54: A DATA RECORDER FOR LAKE BIOLOGICAL INVESTIGATION 00: -

The invention discloses a data recorder for lake biological investigation, which comprises a host box, wherein the side of the host box is provided with a strap through an upper buckle, the upper end of the host box is provided with a solar panel, and the host box is provided with a display screen and a keyboard. And the lower end of the host box body is connected with the outer shell body through a fixing piece and a positioning groove; the upper buckle is clamped with the lower buckle through a first clamping piece and a second clamping piece; the lower buckle is connected with the fixing buckle through a connecting belt; a second partition board is arranged inside the outer shell body; the upper and lower ends of the second partition board are respectively provided with a storage battery and a push-pull box; and the inner side of the push-pull box is provided with the first partition board. The invention relates to a data recorder for lake biological investigation, which can increase the field endurance through solar panels and storage
batteries, and is convenient to disassemble and collect samples at the same time.



21: 2022/05421. 22: 2022/05/17. 43: 2022/06/30 51: B01J; C30B

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES

72: DAI, LIDONG, HU, HAIYING

33: CN 31: 202111317730.0 32: 2021-11-09 54: METHOD FOR PREPARING HIGH-TITANIUM, HIGH-VANADIUM, HIGH-CHROMIUM AND HIGH-WATER SINGLE-CRYSTAL MONTICELLITE 00: -

Disclosed is a method for preparing high-titanium, high-vanadium, high-chromium and high-water single-crystal monticellite, including: preparing a high-titanium, high-vanadium and high-chromium monticellite cylinder sample using solid magnesium nitrate hexahydrate powder, solid calcium DLglycerate hydrate, solid chromic nitrate nonahydrate (III), solid vanadium (III)-2,4-pentanedionate, liquid tetraethoxysilane, liquid tetrabutyl titanate, solid natural serpentine powder, solid natural brucite powder, solid natural slaked lime powder and absolute ethyl alcohol as starting materials, pressing serpentine, brucite and slaked lime into two discs on a press according to a weight ratio of 3:3:1, placing the discs to two ends of the monticellite cylinder sample, and sealing the monticellite cylinder sample and the two discs in a gold-palladium alloy sample tube for a high-temperature and high-pressure reaction to obtain high-titanium, vanadium and chromium and high-water single-crystal monticellite. The present invention fills in the technical blank in preparing high-titanium, high-vanadium, highchromium and high-water single-crystal monticellite in the prior art.

21: 2022/05427. 22: 2022/05/17. 43: 2022/07/21 51: G01D

71: WUXI POWER FILTER CO., LTD 72: SUN, Xiaowu, LI, Yinda, ZHANG, Jian, FENG, Shenrong

33: CN 31: 202110770461.7 32: 2021-07-08 54: INSPECTION METHOD FOR METALLIZED POLYPROPYLENE FILM FOR DC LINK CAPACITOR

00: -

A method for inspecting a metallized polypropylene film for a DC link capacitor, comprising the following steps: appearance examination (1), parameter measurement (2), test component manufacturing (3), limit withstand voltage testing (4), large current impact testing (5), voltage aging testing (6), and determination (7). By using the present method for inspecting a metallized polypropylene film for a DC link capacitor, actual electrical performance levels and quality stability of batches of metallized polypropylene film can be determined, improving the efficiency of incoming material inspection, and effectively eliminating serious quality defects in capacitor batch products.



21: 2022/05449. 22: 2022/05/17. 43: 2022/06/06 51: B66B 71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY 72: CAO, GUOHUA, ZHANG , YUANZHE, ZHU, ZHENCAI, LIU, SHANZENG, PENG, YUXING, LI, PEIYAO, LIU , ZHIKAI, LUO , GANG 33: CN 31: 202011345265.7 32: 2020-11-26 54: MULTI-ROPE HOISTING SYSTEM FOR ULTRA-DEEP VERTICAL SHAFTS

00: -

Disclosed are a multi-rope hoisting system for ultradeep vertical shafts and a guiding method thereof. relating to the field of mine hoisting technology. The system includes: an upper guide wheel system; a lower guide wheel system; a front hoisting container; a rear hoisting container: a drive unit: several front hoisting ropes attached to the upper guide wheel system, where one ends of the front hoisting ropes are connected to the top of the front hoisting container and the other ends thereof are connected to the drive unit; several rear hoisting ropes attached to the lower guide wheel system, where one ends of the rear hoisting ropes are connected to the top of the rear hoisting container and the other ends thereof are connected to the drive unit: and a tail rope, one end of which is connected to the bottom of the front hoisting container and the other end is connected to the bottom of the rear hoisting container. The system further includes: several balancing first ropes attached to the upper guide wheel system, where one ends of the balancing first ropes are connected to the top of the front hoisting container and the other ends thereof are connected to the top of the rear hoisting container. In the present disclosure, the balancing first ropes are disposed, such that the traction load on the drive unit is greatly reduced, thus greatly prolonging the acceptable life of the drive unit. Moreover, the multirope hoisting system for ultra-deep vertical shafts can implement heavy-load hoisting/lowering work.



21: 2022/05461. 22: 2022/05/18. 43: 2022/07/20 51: A23B

71: Shandong Province Institute for the Control of Agrochemicals(Shandong Pesticide Quality Inspection Station)

72: GAO Chuanjie, ZHANG Yaozhong, FAN Kun, FU Li, JIN Yan, ZHANG Guofu

54: APPLICATION OF FLUDIOXONIL COMBINED WITH CHITOSAN OLIGOSACCHARIDE IN CONTROLLING STORAGE DISEASES OF FRUITS AND VEGETABLES

00: -

The application discloses application of fludioxonil and Chitosan oligosaccharide in preventing and treating storage diseases of fruits and vegetables, where the diseases are botrytis cinerea and botrytis cinerea caused by botrytis cinerea. In specific application, the fludioxonil and the Chitosan oligosaccharide are compound into a bactericidal composition, the bactericidal composition is diluted by water, sprayed or dipped on the surfaces of fruit and vegetables, dried in the air, and stored in a refrigerator normally; in the sterilizing composition, the weight ratio of the fludioxonil to the Chitosan oligosaccharide is 1-3: 1-3 or 1:15, optionally 1:2-3, more optionally 1: 2 and 1:3. The application also discloses an anticorrosive antistaling agent: 0.5 to 50 percent of fludioxonil, 0.5 to 15 percent of Chitosan oligosaccharide and the balance of auxiliary materials which are allowed to be used and accepted in pesticide science. The application has the following advantages: (1) the obvious synergistic effect; (2) the use amount and the use times of the chemical bactericide are reduced; (3) the combination of agents with different action mechanisms delays the generation of fungicide resistance; (4) the preservative effect of the fruit and vegetable products is more significant.

33: CN 31: 202210253391.2 32: 2022-03-15 54: IMPROVED FACILITY FOR HYDROGEN PRODUCTION FROM NATURAL GAS 00: -

^{21: 2022/05462. 22: 2022/05/18. 43: 2022/07/20} 51: C01B

^{71:} Wuhu Langzhuo New Material Technology Co., Ltd.

^{72:} LI, Xinzhong, YANG, Yuxin, ZHANG, Yun, SHI, Haonan

The invention provides an improved facility for hydrogen production from natural gas including: a base plate on which an operation box is mounted, wherein a pre-treatment assembly is provided inside the operation box; a gas inlet pipe mounted on one side of the operation box, wherein a transmission pipe is connected to the other side of the operation box. When the improved facility for hydrogen production from natural gas is used, firstly, the natural gas and water vapour are firstly introduced into the operation box through a gas inlet pipe. The natural gas is pretreated by the pre-treatment assembly, so that the natural gas is separated into hydrogen gas, a small amount of carbon monoxide, methane and water vapour. A transmission pipe is connected to a gas-liquid mixing assembly, so that the gas enters the gas-liquid mixing assembly, and drives the gas-liquid mixing assembly to operate.



21: 2022/05465. 22: 2022/05/18. 43: 2022/07/20 51: G01N

71: Anhui University of Science and Technology
72: ZHENG Yonghong, ZHANG Zhiguo
54: DEPTH-ADJUSTABLE SOIL CARBON
DIOXIDE COLLECTING DEVICE AND USING

METHOD THEREOF

00: -

The invention relates to a depth-adjustable soil carbon dioxide collecting device and a using method thereof; the collecting device sequentially comprises a gas storage device, a connecting device, a telescopic device and a gas chamber device from top to bottom, and the gas storage device comprises a gas chamber cover, a fixed gas collecting pipe with a fixed length is arranged at the top end of the gas chamber cover, and a telescopic pipe with a telescopic length is arranged on the upper end of the fixed gas collecting pipe, and a locking sleeve fixedly locks the telescopic pipe on the fixed gas collecting pipe; the telescopic pipe is provided with a two-way connecting pipe, and the two-way connecting pipe is provided with a spherical sealing valve controlling its opening and closing; the lower end of the two-way connecting pipe is connected with the telescopic pipe, and the upper end is connected with the gas cylinder. The using method comprises the following steps: S1: vacuumizing on site; S2: checking the leakage; S3: installing and adjusting the height; if the P1 reading variation difference is less than 5 percent, going to S4; S4: collecting CO2 gas; S5: converting that sampling volume Vn in the standard state.



- 21: 2022/05466. 22: 2022/05/18. 43: 2022/07/20
- 51: G06K
- 71: Wuhan University

72: Ming LI, Weilong ZHANG, Xuan LIAO, Jiageng ZHONG, Jiangying QIN, Hanqi ZHANG, Dan MENG, Lifan CHEN

54: ROBUST IMAGE SPARSE MATCHING METHOD FOR HIGH-PRECISION AERIAL SURVEY, STORAGE MEDIUM AND UNMANNED AERIAL VEHICLE

00: -

The present disclosure belongs to a technical field of unmanned aerial vehicles, and discloses a robust image sparse matching method for high-precision aerial survey, a storage medium and an unmanned aerial vehicle; the method includes: adopting the method of separating high-frequency image information and low-frequency image information to weaken mutual interference between the number of pixels and a gradient amplitude in an original SIFT matching algorithm, respectively augmenting contribution to a principal direction, and limiting influence in perspective transformation; augmenting a descriptor by using image structure information, and processing a partially occluded image by using an anisotropic geodesic distance weighting method; using a method combining a Best Bin First (BBF) algorithm and a parametric model to match feature points and remove a false match; and obtaining a final sparse matched point cloud through sparse beam method adjustment. According to the present disclosure, not only the number of correctly matched points is significantly higher than that of the original SIFT, but also distribution density is uniform, so a low-altitude unmanned aerial vehicle great-viewingangle image sparse matching effect can be effectively improved by increasing resistance of the feature matching operator to partial affine and perspective deformation.



The invention belongs to the technical field of teaching equipment, and particularly relates to combined equipment for culture transmission teaching. Comprises a central screen and a plurality of peripheral screens arranged around the central screen, wherein the combined screen system is used for displaying teaching contents in blocks; A color changing system for changing the color of the peripheral screen, Which comprises a plurality of light irradiation units distributed around a central screen; The light irradiation unit comprises a luminous lamp supporting unit and a plurality of luminous lamp units arranged on the luminous lamp supporting unit; And that control is respectively connected with the central screen, all the peripheral screen and all the luminous lamp units. The combined screen system of the invention is used for displaying the teaching content by screens, Different screens can display different teaching contents, and the color transformation system is used for irradiating different colors of light to the peripheral screen, so that students can intuitively see the difference between the original color and the changed color of the cultural pattern, deeply understand the cultural charm of the original color, vividly and can improve learning interest.



- 21: 2022/05468. 22: 2022/05/18. 43: 2022/07/20 51: C04B
- 71: Linyi University

72: Qiu Lu, Liu Keming, Wang Ke, Wang Wenjiao 54: A DOPING METHOD OF HIGH-DENSITY POZZOLANIC CONCRETE AND POZZOLAN 00: -

The present invention provides a doping method of high-density pozzolanic concrete and pozzolan. The ingredients of high-density trass concrete are: Portland cement, modified pulverized fuel ash, modified pozzolan, manufactured sand, silica sand, quartz sand, apophyllite, mullite, bluestone, porous



21: 2022/05467. 22: 2022/05/18. 43: 2022/07/20 51: G09B

- 71: Zhengzhou University of Aeronautics
- 72: Feng Shaodan, Jiang Yunliang, Yue Jingya

54: COMBINE EQUIPMENT FOR CULTURE DISSEMINATION AND TEACHING

limestone, marble, melamine water reducing agent, alkaline regulator, dispersing agent, antifreeze functional materials and water; By using the natural material of pozzolan ash to make pozzolanic concrete, it can effectively reduce the use of cement and other building materials, and it can effectively reduce the concrete raw material costs, and through the processing of the modification of the ash, it can improve the condition of rough ash particles surface, poor grain shape, and improper particle size distribution, thus effectively improve the compactness of the concrete, and through the acid pickling to remove impurities of quartz sand, thus effectively enhance the early-stage strength of the concrete, thus, the practical application effect of pozzolanic concrete is effectively guaranteed.

21: 2022/05469. 22: 2022/05/18. 43: 2022/07/20 51: G06Q

- 71: China Institute of standardization
- 72: ZhangYinFen, ChenHuang

54: BLOCKCHAIN-BASED CROSS-BORDER TRADE LOGISTICS BUSINESS PROCESSING METHOD AND APPARATUS USING THE 00: -

The invention provides a blockchain-based crossborder trade logistics business processing method and an apparatus using the same, which relate to blockchain logistics business processing field. The blockchain-based cross-border trade logistics business processing method includes steps of: obtaining cross-border trade logistics business information; applying for joining a blockchain channel according to the cross-border trade logistics business information, and uploading goods information, logistics information and related information to a blockchain ledger in the blockchain channel to which they belong; in response to crossborder trade logistics business requests, reading the cross-border trade logistics business information related to a cross-border trade from the blockchain; processing the cross-border trade logistics business according to the cross-border trade logistics business requests and the cross-border trade logistics business information; wherein the crossborder trade logistics business information includes the goods information, the logistics information and the related information. The blockchain-based crossborder trade logistics business processing method

and the apparatus using the same provided by the invention can improve the processing efficiency of the cross-border trade logistics business, thereby facilitating the improvement of user experience.



21: 2022/05470. 22: 2022/05/18. 43: 2022/07/20 51: G01N

71: Anhui University of Science and Technology 72: Zheng Yonghong, Zhang Zhiguo, Hu Youbiao 54: AN AIR-DRYING TRAY WITH A MICRO-VENTILATION SYSTEM THAT CAN BE FOLDED TO ACCOMMODATE SOIL SAMPLES 00: -

This invention provides an air-drying tray with a micro-ventilation system that can be folded to accommodate soil samples that comprises a bottom plate, wherein the upper end of the bottom plate is fixed with a ventilation pipe, the upper end of the ventilation pipe is rotationally connected with an adjusting block, the inner part of the adjusting block is fixed with a first ventilation component, the first ventilation component is provided with a first ventilation hole, the outer side of the ventilation pipe is provided with four air drying boxes at equal angles, the air drying boxes are fixedly connected with the bottom plate, and the upper end of the air drying boxes is provided with a box cover; according to the invention, the humidity sensor inside the airdrying box senses the humidity of the soil sample, and transmits the signal to the controller, which controls the second motor to rotate, and the second motor drives the second fan blade to rotate, so that the soil sample inside the air-drying box is air-dried by convection between the second ventilation hole and the third ventilation hole; and the humidity sensor inside each air-drying box is controlled by

different controllers, so that different air-drying boxes can be independently air-dried, which brings convenience to the air-drying of the soil sample to a certain extent.



21: 2022/05471. 22: 2022/05/18. 43: 2022/07/20 51: G06F

71: Xi'an University of Technology

72: HE Mingming, YUAN Zhuoya, ZHANG Yonghao, YANG Beibei, FENG Guangliang, DENG Bianyuan, MA Xudong, LIU Xiaoping, LUO Bo, LIU Jiebaixue, REN Taoping

33: CN 31: 202210164501.8 32: 2022-02-22 54: ROCK BURST TENDENCY PREDICTION METHOD CONSIDERING THE PLASTIC ZONE AND RADIAL STRESS OF TUNNEL

00: -Discle

Disclosed is a rock burst tendency prediction method considering the plastic zone and radial stress of tunnel. The radius of plastic zone at the maximum tangential stress of surrounding rock is obtained by indoor triaxial test, and the radial stress at the elastoplastic interface and the rock burst tendency index of tunnel are obtained by formulas. The rock burst criterion is determined by rock burst tendency index; compared with stress intensity ratio criterion and gradient stress criterion, the correctness and rationality of this criterion are verified by combining with practical engineering. The application puts forward a new multi-factor index to predict rock burst tendency, which solves the problem that the reliability, rationality and accuracy of rock burst tendency prediction in the prior art cannot be guaranteed. This method only needs manual calculation with simple process while the calculation accuracy is high without using empirical correction coefficient, so the method is directly applied to rock burst prediction. In addition, the method is simple,

cost-saving, high in accuracy and wide in application.



21: 2022/05472. 22: 2022/05/18. 43: 2022/07/20 51: C09K

71: Anqing Normal University

72: Mao Xiaoxia, Liu Feng, Xia Hongyu, Li Chao 54: A HYDROGEL OF EUMOF COATED WITH AGAROSE AND ITS PREPARATION AND APPLICATION 00: -

The invention belongs to the technical field of hydrogel preparation, and discloses a agarose encapsulated Eu-MOF luminescent material hydrogel and a preparation method and application thereof. The invention selects rare earth elements as the central metal ions of MOFs materials, and embeds EU MOF and T30 nucleic acid sequences with agarose. After adding mercury ion, the fluorescence intensity can be changed. The invention not only has good selectivity and anti-interference, but also can resist enzyme digestion and store for a certain time. The technical scheme of the invention can meet the detection of mercury ions when the experimental conditions are insufficient. It is a new promising tool with on-site detection ability and is worth popularizing.



21: 2022/05473. 22: 2022/05/18. 43: 2022/07/20 51: F16L; F17D; G01N

71: Shenyang University of Technology 72: SU, Yuming, GENG, Hao, YANG, Lijian, WANG, Guoqing, SHI, Meng, ZHENG, Fuyin, GAO, Pengfei, LI, Jiavin, LI, Chong

33: CN 31: 202210447715.6 32: 2022-04-26 54: SPHERICAL IN-LINE INSPECTION SYSTEM FOR GAS PIPELINE

00: -

Provided is a spherical in-line inspection system for a gas pipeline. The inspection system includes an inspection ball, where the inspection ball includes: a ball housing; a plurality of inspection probes circumferentially distributed on the ball housing and used for inspecting a stress concentration area of the gas pipeline to obtain stress inspection signals; and a computer system arranged in a cavity in the ball housing, connected to the inspection probes, and used for controlling working states of the inspection probes and performing analysis according to the stress inspection signal and clock position information of the ball housing so as to implement positioning analysis of the stress inspection signal. By means of the spherical design, the problem that an elbow in a town gas pipeline is likely to be blocked is solved, and online stress inspection on a pipe wall of the town gas pipeline is achieved.



21: 2022/05474. 22: 2022/05/18. 43: 2022/06/30 51: C30B

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES 72: DAI, LIDONG, HU, HAIYING

33: CN 31: 202111391809.8 32: 2021-11-19 54: METHOD FOR PREPARING HIGH-CALCIUM, HIGH-MANGANESE AND HIGH-WATER SINGLE-CRYSTAL ENSTATITE 00: -

Disclosed is a method for preparing high-calcium, high-manganese and high-water single-crystal enstatite, including: preparing, according to enstatite chemometrics, a mixture cylinder sample using solid magnesium nitrate hexahydrate powder, solid calcium nitrate tetrahydrate powder, solid manganese(II) nitrate tetrahydrate powder, liquid tetraethoxysilane and absolute ethyl alcohol as starting materials; preparing water-sourced discs using solid natural serpentine powder, solid natural flake manganite powder and solid natural slaked lime powder as raw materials; placing the watersourced discs at two ends of the mixture cylinder sample; and placing the mixture cylinder sample and the water-sourced discs in a gold-palladium alloy sample tube for a high-temperature and highpressure reaction to prepare high-calcium, highmanganese and high-water single-crystal enstatite. The present invention fills in the technical blank in preparing high-calcium, high-manganese and highwater single-crystal enstatite in the prior art, so that large-grained high-calcium, high-manganese and high-water single-crystal enstatite experimental sample are obtained.

21: 2022/05475. 22: 2022/05/18. 43: 2022/06/30 51: C30B

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES 72: DAI, LIDONG, HU, HAIYING 33: CN 31: 202111401199 .5 32: 2021-11-19 54: METHOD FOR PREPARING HIGH-TITANIUM, HIGH-VANADIUM AND HIGH-WATER SINGLE-CRYSTAL HYPERSTHENE 00: -

A method for preparing high-titanium, high-vanadium and high-water single-crystal hypersthene includes: preparing, according to hypersthene chemometrics, a hypersthene mixture cylinder sample using solid magnesium nitrate hexahydrate powder, solid iron(III) nitrate nonahydrate powder, solid vanadium(III) 2,4-pentanedionate powder, liquid tetraethoxysilane, liquid tetrabutyl titanate and absolute ethyl alcohol as starting materials; preparing water-sourced discs using solid natural serpentine powder, solid natural brucite powder and solid a-phase goethite powder as raw materials; and placing two water-sourced discs at two ends of the hypersthene mixture cylinder sample and then placing the hypersthene mixture cylinder sample together with the water-sourced discs in a goldpalladium alloy tube for a high-temperature and high-pressure reaction to obtain single-crystal hypersthene. The present invention fills in the technical blank in preparing high-titanium, highvanadium and high-water single-crystal hypersthene in the prior art, so that large-grained high-titanium, high-vanadium and high-water single-crystal hypersthene experimental samples are obtained.

21: 2022/05476. 22: 2022/05/18. 43: 2022/06/06 51: H04W

71: SHAANXI LIBOYUAN TECHNOLOGY CO., LTD. 72: WANG, HUIZHI

54: 5G COMMUNICATION TOWER WITH HIGH SAFETY MAINTENANCE

00: -

The invention relates to a 5G communication tower with high security maintenance includes a support rod, a support plate, an antenna and a climbing ladder. The support rod is installed vertically, the support plate is installed coaxially with the support rod, a diameter of the support plate is larger than that of the support rod. The support plate is fixed on the top of the support rod, and the antenna is installed on a top of the support plate and directly opposite to the support rod. The support plate is provided with an access hole, an axis of the access hole is parallel to the support rod, the support plate is provided with a protective mechanism and a snow removal mechanism. The protective mechanism includes a protective tube, a sealing component, and at least two moving components, the snow removal mechanism includes at least two snow removal components, and the snow removal components are installed in the protective tube and corresponds to the moving components respectively. The 5G communication tower with high security maintenance can improve maintenance safety by the protection mechanism. In addition, it also can removal snow by the snow removal mechanism.



- 21: 2022/05477. 22: 2022/05/18. 43: 2022/06/06 51: A61F
- 71: SHAANXI LIBOYUAN TECHNOLOGY CO., LTD. 72: DU, XINGLIN

54: INTELLIGENT METHOD AND SYSTEM FOR CONSTRUCTING ARTIFICIAL LEG PARTITIONEDLY

00: -

An intelligent system for constructing artificial leg partitionedly is provided. The system includes a zone construction mechanism, connected to the limb analysis device, a miniature camera mechanism, arranged opposite the disabled person, a distortion processing equipment, connected with the miniature camera mechanism, an adaptive enhancement device, connected to the distortion processing device, a point image restoration device, connected to the adaptive enhancement device, a leg extraction

mechanism; and a limb analysis device, connected to the leg extraction mechanism. Further more, an intelligent method for constructing artificial leg partitionedly is also provided.

21: 2022/05481. 22: 2022/05/18. 43: 2022/07/21 51: B01D

71: Qingdao Tiangen Biotechnology Engineering Co., Ltd

72: Jinping Zhao, Hongbo Ni, Xiaoxuan Zhang, Hongli Geng, Yuzhe Sun

54: ANTI-STRESS PET HEALTH FOOD AND PREPARATION METHOD THEREOF

00: -The present disclosure discloses an anti-stress pet health food. The health food is soft lecithin particles for pet dogs and cats, and is prepared from the following components in percent by mass: 10%-25% of lecithin, 20%-65% of plant powder, 5%-20% of excipient, 1%-15% of purified water, 10%-30% of humectant, 1%-15% of oil, 1%-10% of taste enhancer. 0.5%-10% of nutrition additive. 0.1%-5% of extract of natural plants, 0.01%-0.5% of antioxidant and 0.01%-0.5% of antiseptic. The present disclosure adopts the above anti-stress pet health food and a preparation method thereof, and the nutritionally-balanced pet food can be obtained through the cooperative interaction among the components, thereby smoothening skin and hair of the pets, relieving stress responses caused by various reasons of the pet dogs and cats, improving organism immunity, and maintaining health of the pets.

21: 2022/05483. 22: 2022/05/18. 43: 2022/07/20 51: F24F

71: SHANDONG JIANZHU UNIVERSITY 72: LI, Chengdong, ZHANG, Guiqing, PENG, Wei, DENG, Xiaoping

33: CN 31: 202010590624.9 32: 2020-06-24 54: INDOOR ENVIRONMENT HEALTH DEGREE REGULATING METHOD AND SYSTEM BASED ON MACHINE VISION

00: -

An indoor environment health degree regulating method and system based on machine vision. The method comprises the following steps: (1) collecting facial data of a person, and applying independent vector analysis to analyze a periodic signal from the facial data to detect the heart rate; (2) preprocessing heart rate data collected in a health environment to construct a linguistic word model for the environment health degree; and (3) comparing heart rate data collected in an actual environment with data in the constructed linguistic word model for the environment health degree to determine whether the environment is healthy or not.



- 21: 2022/05490. 22: 2022/05/18. 43: 2022/07/20 51: B01D; C02F
- 71: MEMBION GMBH

72: VOSSENKAUL, Klaus, VOLMERING, Dirk 33: DE 31: 10 2019 129 074.0 32: 2019-10-28 54: METHOD FOR INTRODUCING A GAS, AND GASSING DEVICE 00: -

The invention relates to a method for introducing a gas (1) into a liquid (2). In successive pulses, a gas volume (6) which is arranged below the surface (4) of the liquid (2) and is delimited at the bottom by a level (5) of the liquid (2) is first filled with the gas (1), said gas (1) simultaneously displacing the liquid (2) from the top towards the bottom and out of a gas lifter channel (14) until the level (5) falls below an inlet cross-section (12) of a gas outflow channel (13), and the gas (1) then flows out of the gas volume (6), in order, downwards through the gas lifter channel (14) and through a deflecting region (11) adjoining the gas lifter channel from below, upwards through the inlet cross-section (12) and through the gas outflow channel (13) adjoining said inlet cross-section from above, and then to the

surface (4), wherein a blocking flow (18) of the liquid flows through a compensation inlet (17) below a gas lifter inlet (16) to the inlet cross-section (12) and is entrained by the gas (1) until the liquid (2) fills the deflecting region (11), thereby closing the inlet cross-section (12) to the gas (1). The invention also relates to a gassing device (3) comprising a gas collecting chamber (7) which is open towards the bottom for carrying out such a method. The aim of the invention is to ensure that the gassing device is stably pulsed over a wide range of variation in the gas volume flow supply. This is achieved by a method in which after the level (5) has fallen below the inlet cross-section (12), first solely the gas (1) flows through the gas outflow channel (13) until the level (5) rises above the compensation inlet (17), and only then does the blocking flow (18) flow through the compensation inlet (17) to the inlet cross-section (12). In the gassing device, the compensation inlet (17) lies at the height of the inlet cross-section (12) or higher in order to carry out said method.



21: 2022/05642. 22: 2022/05/23. 43: 2022/06/30 51: C30B; B01J 71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES 72: DAI, LIDONG, HU, HAIYING 33: CN 31: 202111408039 .3 32: 2021-11-19

54: METHOD FOR PREPARING HIGH-NICKEL, HIGH-ZINC AND HIGH-WATER SINGLE-CRYSTAL DIOPSIDE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION 00: -

Disclosed is a method for preparing high-nickel, high-zinc and high-water single-crystal diopside under a high-temperature and high-pressure condition, including: preparing a diopside cylinder sample using solid calcium nitrate tetrahydrate powder, solid magnesium nitrate hexahydrate powder, solid nickel(II) nitrate hexahydrate powder, solid zinc nitrate hexahydrate powder, liquid tetraethoxysilane and absolute ethyl alcohol as starting materials; preparing water-sourced discs using solid natural talcum powder, solid nickel hydroxide powder and solid zinc hydroxide powder as starting materials; placing the water-sourced discs at two ends of the diopside cylinder sample and then placing the diopside cylinder sample together with the water-sourced discs in a goldpalladium alloy sample tube; and preparing highnickel, high-zinc and high-water single-crystal diopside under a high-temperature and highpressure condition. The present invention fills in the technical blank in preparing high-nickel, high-zinc and high-water single-crystal diopside in the prior art, so that large-grained high-nickel, high-zinc and high-water single-crystal diopside experimental samples are obtained.

21: 2022/05643. 22: 2022/05/23. 43: 2022/06/30 51: C30B 71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES 72: DAI, LIDONG, HU, HAIYING 33: CN 31: 202111391789 .4 32: 2021-11-19 54: METHOD FOR PREPARING HIGH-SCANDIUM, HIGH-ZIRCONIUM AND HIGH-WATER SINGLE-CRYSTAL HEDENBERGITE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION 00: -

Disclosed is a method for preparing high-scandium, high-zirconium and high-water single-crystal hedenbergite under a high-temperature and highpressure condition, comprising: preparing a hedenbergite mixture cylinder sample using calcium nitrate tetrahydrate powder, solid iron(III) nitrate nonahydrate powder, solid scandium(III) nitrate monohydrate powder, solid zirconium(IV) nitrate powder, liquid tetraethoxysilane and absolute ethyl alcohol as starting materials; preparing watersourced discs using solid natural talcum powder, solid slaked lime powder and solid a-phase goethite powder; placing the water-sourced discs at two ends of the hedenbergite mixture cylinder sample; and placing the water-sourced discs and the hedenbergite mixture cylinder sample in a goldpalladium alloy sample tube to prepare highscandium, high-zirconium and high-water singlecrystal hedenbergite through a high-temperature and high-pressure reaction. The present invention fills in the technical blank in preparing high-scandium, highzirconium and high-water single-crystal hedenbergite in the prior art.

21: 2022/05684. 22: 2022/05/24. 43: 2022/07/19 51: A01K

71: Qingdao Agricultural University, Shandong Tang Wang Carp Agricultural Development Co., Ltd, Qingdao Marine Creature Museum 72: WANG Feng, JIANG Shibo, ZHAO Yuming, WANG Jinye, WANG Wei 54: METHOD FOR CROSSBREEDING PELTEOBAGRUS FULVIDRACO AND LEIOCASSIS CRASSILABRIS

00: -

The application discloses a method for crossbreeding Pelteobagrus fulvidraco and Leiocassis crassilabris, by temporarily culturing and domesticating Pelteobagrus fulvidraco and Leiocassis crassilabris from the wild fishing or the market to reach the parent fish standard; after artificially spawning and inseminating, adhering uniformly the fertilized ovum on the incubation mesh and incubating in the honeycomb-type incubation pool with flowing water, then obtaining hybrid fingerlings. The obtained hybrid fingerlings have the characteristics of fast growth and high tolerant breed, and has important application value in production; and meanwhile, the method has the characteristics of strong operability, high emergence rate of fingerlings, easy to scale application and has important significance for the artificial culture industrialization of Siluriforms fishes.

21: 2022/05685. 22: 2022/05/24. 43: 2022/07/19 51: A01G 71: Science and Technology Security Center, Sichuan Academy of Agricultural Sciences 72: YANG, Shengying, ZHU, Runhua, LIANG, Qiuping, BAI, Sheng, LI, Yiji, ZHANG, Hui, XIA, Wuqi, ZHU, Liang 33: CN 31: 202220763776.9 32: 2022-04-02

54: GREENHOUSE 00: -

The present invention discloses a greenhouse, and relates to the technical field of facility agriculture. The greenhouse includes a greenhouse ceiling and a greenhouse frame. The greenhouse frame is fixedly arranged on the ground and capable of bearing climbing vine crops. The greenhouse frame includes at least two support beams with framework portions. The greenhouse ceiling is fixedly covered on each framework portion and forms a cultivation space. Micro-pores enabling external precipitation to enter the cultivation space are provided in a center line of the greenhouse ceiling. The greenhouse disclosed in the present invention can save the manufacturing cost of a climbing frame of climbing vine crops and the irrigation cost of crops in the greenhouse.



21: 2022/05686. 22: 2022/05/24. 43: 2022/07/19 51: G01N

71: Nanjing Forestry University

72: LI Qian, GENG Qinghong, MA Xiaocui, XU Xia 54: SAMPLING DEVICE FOR SOIL MONITORING 00: -

The application discloses a sampling device for soil monitoring, which comprises a supporting cylinder, a sliding cylinder is in sliding connection with the supporting cylinder, a sampling cylinder is installed in the sliding cylinder, a spiral lifting part is arranged between the outer wall of the sampling cylinder and the inner wall of the sliding cylinder, a control part is installed in the top wall of the sampling cylinder, a sampling column is installed in the sampling cylinder, a spiral blade is fixedly connected to the sampling column circumferentially, a sliding plate is installed between the sampling column and the top wall of the sampling cylinder, the sliding plate is fixedly connected with the sampling column, is adapted to the sampling cylinder and in sliding connection with the inner wall of the sampling cylinder, slides along the axial direction of the sampling cylinder, and one end of the sliding plate far away from the sampling column is fixedly connected with a pushing part, which is respectively in sliding connection with the sliding cylinder and the supporting cylinder. The application has the advantages of simple structure, convenient operation, portable sampling, convenient taking out of soil in the sampling device and high working efficiency.



21: 2022/05687. 22: 2022/05/24. 43: 2022/07/19 51: E02D

71: SHANDONG AGRICULTURAL UNIVERSITY 72: ZHANG Jian, LIU Chuanxiao, ZHANG Qianqing, GAO Qiang, WANG Xingkuo, DUAN Tongjun, ZHENG Shuai, CHENG Guangtan, REN Zhe, WU Shiqian, ZHANG Yingguang, DING Hejie, ZHANG Kuo, REN Chengbin, HU Qingliang, ZHANG Rui, GAO Jinxin, GUO Changle

54: REINFORCEMENT METHOD OF EXISTING PILE FOUNDATION BASED ON GROUT CONTROL

00: -

The invention discloses an existing pile foundation reinforcement method based on grout control, which relates to the field of pile foundation construction. A certain number of boreholes are arranged around the existing pile foundation, and double pipes are laid down, and water pipes and grout pipes are arranged in the double pipes; a water injection nozzle and a grouting head are arranged at the bottom of the double pipes, and are respectively communicated with the corresponding supply ends through pipelines; the water injection nozzle first outputs high-pressure water flow to the existing pile foundation to disturb the soil, forming a softened reinforcement area. Furthermore, the grouting head injects grout at low pressure into the softened area, which is easy to control the flow range of grout, fill and compact the reinforced area, and reinforce it to the ground segment by segment. Then, the above methods are repeated to drill holes one by one, forming a circumferential closed reinforcement circle for the pile body, which overcomes the problem of uncontrollable grout in the traditional grouting method and improves the efficiency of grout, thus improving the bearing capacity of the existing pile foundation, reducing the settlement of the pile top, and simply and effectively reinforcing the existing pile foundation.



21: 2022/05688. 22: 2022/05/24. 43: 2022/07/19 51: C12G

71: Bozhou University

72: PU Shunchang, LIU Lu, XING Shuang, DONG Shujia

54: HEALTH-PRESERVING BLENDED WINE PREPARED FROM HERBA DENDROBII AND POLYGONATI RHIZOMA AND PREPARATION METHOD THEREOF

00: -

The invention discloses a health-preserving blended wine prepared from Herba Dendrobii and Polygonati Rhizoma and a preparation method thereof, belonging to the technical field of wine-making technology. The health-preserving blended wine prepared from Herba Dendrobii and Polygonati Rhizoma comprises the following components in parts by volume: 20-30 parts of Polygonati Rhizoma mother wine, 20-30 parts of Herba Dendrobii mother wine, 50-70 parts of 60%vol white spirit and 20-30 parts of water. According to the invention, the brewing method replaces the traditional brewing method to prepare the health-preserving blended wine prepared from Herba Dendrobii and Polygonati Rhizoma, which can effectively extract the effective ingredients of various medicinal materials, with the total polysaccharide content reaching 6.25-6.33 mg/mL, alkaloid content reaching 1.33-1.24 mg/mL and total polyphenol content reaching 2.51-3.47 mg/mL, thus obviously improving the medicinal value and curative effect of the health-preserving blended wine prepared from Herba Dendrobii and Polygonati Rhizoma.

21: 2022/05689. 22: 2022/05/24. 43: 2022/07/19 51: A01C: C05F

71: Chandana Aa

71: Shandong Agricultural University 72: DU Yuanpeng, WANG Ming, GAO Zhen

2. DO Tuanpeng, WANG Ming, GAO Zhen

33: CN 31: 202111521557.6 32: 2021-12-13 54: LIQUID COMPOUND MICROBIAL BACTERIAL FERTILIZER AND PREPARATION METHOD THEREOF

00: -

The invention discloses a liquid compound microbial bacterial fertilizer and a preparation method thereof, belonging to the technical field of fertilizer preparation. The raw materials of the liquid compound microbial bacterial fertilizer of the invention include compound amino acid, urea, superphosphate, calcium magnesium phosphate fertilizer, lime powder, potassium sulfate, borax, potassium fulvate, compound bacteria, fly ash, bran, soybean meal, brown sugar, ammonium phosphate and zinc sulfate heptahydrate. According to the invention, bran, soybean meal and brown sugar are boiled with water, compound amino acids, urea and ammonium phosphate are added, then compound bacteria are added for fermentation, and calcium superphosphate, calcium magnesium phosphate fertilizer, lime powder, potassium sulfate, borax, potassium fulvic acid, fly ash, zinc sulfate heptahydrate and water are sequentially added for secondary fermentation to obtain liquid compound microbial bacterial fertilizer. The liquid compound microbial bacterial fertilizer has the advantages of easily available production materials and simple production method, and can be used with integrated facilities of water and fertilizer, thus reducing the labor cost, saving time and labor, and meeting the application requirements of modern technology, large farms and cooperatives.



21: 2022/05690. 22: 2022/05/24. 43: 2022/07/18 51: A61K

71: Affiliated Hospital of Jiangnan University 72: MI Yuanyuan, ZHU Lijie, ZHANG Lifeng, WU Sheng, WANG Jun

54: APPLICATION OF TROPHININ-ASSOCIATED **PROTEIN (TROAP) IN PREPARATION OF** PROGNOSIS PRODUCTS AND THERAPEUTIC DRUGS FOR RENAL CELL CARCINOMA 00: -

The invention belongs to the field of biomedicine, and relates to the application of Trophininassociated protein (TROAP) in preparing prognosis products and therapeutic drugs for renal cell carcinoma. According to the invention, through experiments, TROAP gene can promote the proliferation, migration and invasion of renal cancer cells, and inhibit apoptosis at the same time, which is a very important marker for the progress of renal cancer. Therefore, the present invention proposes to use TROAP gene as a screened molecular marker, to judge the prognosis of renal cell carcinoma patients by detecting the expression level of TROAP, and to guide the clinical treatment through the prognosis model, which has important practical application value for evaluating the prognosis of patients and guiding the individualized treatment of patients. At the same time, the present invention proposes to use TROAP gene as a targeted target for drug development, providing new inhibitors and drug development targets for renal clear cell carcinoma, especially metastatic clear cell carcinoma, and improving the early warning ability and subsequent treatment effect for such patients.



21: 2022/05691. 22: 2022/05/24. 43: 2022/07/18 51: B28B: B29C

71: Jiangsu Ocean University 72: CHEN Jinsong, HUO Zhenhao, YAN Qihao, HUANG Da. WANG Yan. LIU Yi. LYU Jun 54: CERAMIC MOLDING EQUIPMENT BASED ON **3D PRINTING TECHNOLOGY** 00: -

The invention relates to the technical field of 3D printing, in particular to a novel ceramic molding equipment based on 3D printing technology. The equipment comprises a frame, a main controller, a three-dimensional motion module, a feeding device and an extrusion device. The feeding device comprises a storage tank, a piston, a cylinder, an air compressor, a feeding pipe, an electromagnetic valve, a pressure regulating valve and a reversing valve; The extrusion device comprises a stepping motor II, a screw, a coupling, a screw jacket and a nozzle. The invention can be applied to the printing and molding of ceramic composite materials, cement and other building materials, reduces the labor cost and realizes the high-precision printing of 3D ceramic printing. The invention integrates 3D printing technology, ceramic molding, mechatronics and 3D model design technology, successfully realizes the automatic molding of traditional ceramics, can realize the abnormity which is difficult to be realized by the traditional ceramic blank drawing process, can be customized according to customer requirements, can also be widely used in the field of cultural creativity, and achieves some new breakthroughs in molding.



21: 2022/05693. 22: 2022/05/24. 43: 2022/07/18 51: A23L; A23N

71: LIAOCHENG UNIVERSITY

72: WANG Lei, HUANG Anqi, WANG Bing, ZHANG Hua

33: CN 31: 202210473999.6 32: 2022-04-29 54: SOLAR DEWATERING DRYER FOR COOKED VEGETABLES AND FRUITS 00: -

The invention belongs to the technical field of vegetable and fruit drying, in particular to a solar dewatering dryer for cooked vegetables and fruits, a barrel assembly; a cooling water spraying unit which is communicated with the top of the inner side of the barrel assembly; the draining mechanism is arranged at the inner side of the barrel assembly and below the cooling water spraying unit; the first feeding mechanism comprises a feeding unit located at the one side of the bottom of the barrel assembly and a discharging unit located at the one side of the top of the barrel assembly, and the feeding unit and the discharging unit are respectively arranged near the low end and the upper end of the screw conveying unit; drying box, which is located at the discharging end of the barrel assembly. According to the invention, the cooling, dewatering and drying processes of cooked fruits and vegetables can be integrated into one dryer, so that on the one hand, the occupied area is reduced, on the other hand, the continuity among the processes is improved, finally, the efficiency of the drying process is improved, and the degree of automation is obviously improved.



21: 2022/05697. 22: 2022/05/24. 43: 2022/07/18 51: C08B

71: Zhejiang Subtropical Crops Research Institute 72: Chai Yi Qiu, Jin Yi Wei, Li Xiao La, Chen Guan Ju, Liu You Gao, Wang Gen E

33: CN 31: 202111561238.8 32: 2021-12-16 54: SEPARATION AND PURIFICATION METHOD FOR CORDYCEPS CICADAE POLYSACCHARIDE WITH ANTI-RADIATION EFFECT 00: -

The invention discloses a separation and purification method for cordyceps cicadae polysaccharide with an anti-radiation effect, which relates to the technical field of anti-radiation. In the invention, studies have been made for the optimal conditions in separating and extracting Da polysaccharide and the antiultraviolet radiation effect of polysaccharide compositions with different molecular weights, and an approximate molecular weight range of active substances with the anti-radiation effect in Da polysaccharide is determined according to CFU, so as to provide the separation and purification of further separating and extracting anti-radiation substances with an experimental basis. Da polysaccharide with a certain molecular weight range has the anti-ultraviolet radiation effect, wherein Da polysaccharide with a molecular weight ranging from 300000 to 1000000 Da has the best anti-radiation effect. Cultivating the cordyceps cicadae artificially may produce a large amount of culture residues, and the culture residues are used to separate and extract active polysaccharides, which has the effect of resource recycling, extending the cultivation industry chain of cordyceps cicadae and increasing incomes.

21: 2022/05698. 22: 2022/05/24. 43: 2022/07/18 51: A23K

71: Henan Agricultural University

72: SHI, Yinghua, CUI, Yalei, LIU, Boshuai, XU, Feng, ZHU, Xiaoyan, LI, Defeng, MA, Sen, WANG, Zhichang, SUN, Hao

54: ALFALFA-TYPE COMPLETE PELLET FEED CAPABLE OF REDUCING CHOLESTEROL CONTENT IN EGGS OF LAYING HEN 00: -

The present application belongs to the technical field of poultry feed, and specifically relates to an alfalfatype complete pellet feed product capable of reducing cholesterol content in eggs of laying hen. Based on multiple bioactive components in alfalfa, a portion of alfalfa meal is added in a laying hen feed to prepare into the alfalfa-type complete pellet feed for feeding laying hens. After taking the feed product, the egg laying capacity and egg quality of the laying hen are improved. Moreover, the produced egg contains a lower cholesterol content and thus is more suitable for human body, and has better practical values in improving and ensuring human health. Therefore, the present invention has better popularization and application meanings.

21: 2022/05699. 22: 2022/05/24. 43: 2022/07/18 51: A23F

71: Bozhou University

72: ZHANG Yu, LU Ning, PU Shunchang

54: HEALTH-PRESERVING TEA COMPOSITION FOR REDUCING BLOOD SUGAR AND BLOOD FAT

00: -

The invention discloses a health-preserving tea composition for reducing blood sugar and blood fat, belonging to the technical field of health-preserving tea processing. The health-preserving tea composition takes corn stigma, pine needles, dahurian rose fruit, lotus leaves, hawthorn, salvia miltiorrhiza, medlar, chamomile, rehmannia glutinosa, diaphragma juglandis fructus and guava leaves as raw materials, with reasonable proportion; it forms a good compatibility relationship, has the effect of lowering blood sugar and blood lipid, has no toxic or side effects, can be drunk for a long time, is packaged in tea bags, is convenient to carry, has a simple preparation method, can be produced on a large scale, and has a broad market prospect. 21: 2022/05700. 22: 2022/05/24. 43: 2022/07/18 51: C12N; C12Q

71: SHANGHAI UNIVERSITY OF MEDICINE & HEALTH SCIENCES

72: PENG Nanqiu, CHEN Linjun, QIAN Zhiwang 54: PRIMER COMBINATION FOR C-KIT GENE MUTATION DETECTION AND APPLICATION THEREOF

00: -

The present invention relates to a combination of primers for the detection of mutations in the C-kit gene and its application. The invention designs wild-type primers and mutant primers for C-kit exon 9 (C-kit-E9), exon 11 (C-kit-E11), exon 13 (C-kit-E13), exon 17 (C-kit-E17) and exon 18 (C-kit-E18), respectively, and amplifies the corresponding wild-type target and mutant target fragments, and mix the two fragments in different proportions so that the content of the mutant target fragment is 1/10, 1/100, 1/1,000 and 0. Finally, the HRM method was used to differentiate them; compared with the prior art, the invention has the advantages of high specificity, high sensitivity and convenience; moreover, the throughput is higher and the cost per run is lower.



21: 2022/05701. 22: 2022/05/24. 43: 2022/07/18 51: A01C

71: Tangshan Normal University

72: WANG, Xiangdong 54: FLAT-BED MECHANICAL PRECISE COMBINED SEED AND FERTILIZER DRILL FOR TRADITIONAL CHINESE MEDICINAL MATERIALS 00: -

The present invention discloses a flat-bed mechanical precise combined seed and fertilizer drill for traditional Chinese medicinal materials, and

relates to the technical field of seeding machines. The flat-bed mechanical precise combined seed and fertilizer drill includes a working frame; the working frame is provided with a seeding mechanism and a fertilizer application mechanism; the seeding mechanism includes a seed tank and a seeder; and a fertilizer application mechanism includes a fertilizer tank and a fertilizer applicator. The present invention can achieve precise seeding and fertilizer application.



21: 2022/05702. 22: 2022/05/24. 43: 2022/07/18 51: C04B

71: University of Science and Technology Beijing 72: BA Haojing, JU Yongjian, LI Qian, MU Xinli, ZHANG Sigi, NI Wen

54: PREPARATION METHOD OF PREMIXED PUMPING CONCRETE BY USING COAL **GASIFICATION SLAG BASED LOW-CARBON** CEMENTING MATERIAL 00: -

The invention discloses a preparation method of premixed pumping concrete by using coal gasification slag based low-carbon cementing material, belonging to the technical fields of solid waste resource comprehensive utilization and building materials. The premixed pumping concrete comprises the following raw materials in parts by weight: 200-260 parts of coal-to-liquids slag, 110-140 parts of cement, 70-100 parts of gypsum, 700-750 parts of fine aggregate, 1100-1200 parts of coarse aggregate, 4-6 parts of water reducer and 125-150 parts of water. The cement, coal-to-liquids slag and gypsum are mixed and ground in parts by weight to prepare a cementing material, and the cementing material is uniformly stirred and mixed with fine aggregate, coarse aggregate, water reducer and water to obtain the premixed pumping concrete prepared from coal-to-liquids slag.

According to the invention, two industrial solid wastes, namely coal-to-liquids slag and desulfurized gypsum, are cooperatively disposed, so that waste is turned into wealth; and the prepared premixed pumping concrete has high early hydration rate, high early strength and excellent performance.

21: 2022/05703. 22: 2022/05/24. 43: 2022/07/18 51: A01G

71: QINGDAO AGRICULTURAL UNIVERSITY 72: LI Jun, SONG Chaoyu, LIU Ligong, LIU Jintao, LIU Shutang, SONG Xiyun

54: HIGH-TEMPERATURE RESISTANT PREPARATION FOR DRY AND HOT WIND OF WHEAT 00: -

The invention provides a high-temperature resistant preparation for dry and hot wind of wheat, which comprises CaCl2 and silicone. The high-temperature resistant preparation provided by the invention is not only simple in preparation method, but also low in cost, and more importantly, it has a good effect on alleviating heat damage and ensuring stable wheat yield.

21: 2022/05704, 22: 2022/05/24, 43: 2022/07/18 51: A01G

71: QINGDAO AGRICULTURAL UNIVERSITY 72: LI Jun, LIU Jintao, LIU Ligong, SONG Chaoyu, LIU Shutang, SONG Xiyun 54: COLD-PROOF AGENT FOR WHEAT COLD IN LATE SPRING

00: -

The invention provides a cold-proof agent for wheat cold in late spring, which comprises sucrose and silicone. The cold-proof agent provided by the invention is not only simple in preparation method, but also low in cost, and more importantly, its coldproof effect is equivalent to that of expensive coldproof agents currently on the market.

21: 2022/05705. 22: 2022/05/24. 43: 2022/07/18 51: G01D; G01M 71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY 72: JIANG Xue, BAO Jihua, GU Mingxia, ZHOU Shenapena 54: REAL-TIME FAULT DETECTION SYSTEM AND METHOD OF VIBRATING SCREEN 00: -

The invention provides a real-time fault detection system and method for a vibrating screen. The side wall of a screen box is provided with at least two vibration exciters, and each vibration exciter is respectively provided with a triaxial acceleration sensor; the data processing module is respectively connected with each triaxial acceleration sensor; the data processing module acquires the vibration acceleration of the vibration exciter through the triaxial acceleration sensor, and sends out an alarm when the acquired vibration acceleration exceeds the threshold. Through the high-speed data acquisition card, the vibration situation of two positions can be detected in real time, and when the vibrating screen fails, an alarm will be given at the first time to guide the shutdown and overhaul. The installation position is located on the upper surface of the vibration exciter, and the real-time motion of the two positions can be output independently. When the screen machine breaks down, it can clearly know the type of the failure, and find out the fault position more quickly when it is stopped for inspection, saving time and improving production efficiency.



21: 2022/05706. 22: 2022/05/24. 43: 2022/07/18 51: B22F; C23C

71: Henan University of Science and Technology 72: CHEN Yanfang, CHANG Qinghua, MA Douqin, XIE Jingpei, WANG Aiqin, WANG Wenyan, LIU Pei, HA Sihu

54: PREPARATION METHOD OF MOLYBDENUM PLANAR SPUTTERING TARGET MATERIAL 00: -

The invention relates to a preparation method of molybdenum planar sputtering target material, which relates to the technical field of sputtering target preparation. Molybdenum powder with a purity of more than or equal to 99.95 percent is selected as a raw material, the molybdenum powder is pressed into a molybdenum green body by cold isostatic pressing, and then the molybdenum green body is sintered into a molybdenum slab in a microwave sintering furnace under vacuum conditions; the sintered molybdenum slab is purified by electron beam melting, and then processed into molybdenum target by forging, cogging and cross rolling. After vacuum annealing, the finished molybdenum sputtering target is machined according to the specified specifications. The invention has that advantage that the molybdenum sputtering target prepared by the invention has high purity, low impurity content, high density, fine and uniform crystal grains, certain crystal orientation and excellent performance.

21: 2022/05712. 22: 2022/05/24. 43: 2022/07/18 51: H02N

71: HARBIN INSTITUTE OF TECHNOLOGY
72: Xiaobiao Shan, Henan Song, Kaiwei Sun,
Chengshuo Han, Tao Xie
33: CN 31: 202210320867.X 32: 2022-03-22
54: A COMPOUND PIEZOELECTRIC ACTUATOR
FOR VIBRATION SUPPRESSION OF BEAM
STRUCTURE
00: -

Disclosed is a compound piezoelectric actuator for the vibration suppression of a beam structure, belonging to the technical field of vibration suppression. The disclosure aims to suppress a forced vibration deriving from the beam structure subjected to external excitation to weaken or eliminate a negative impact of the vibration on a system. A bending moment opposite to a mode of vibration of the beam structure is generated by driving a piezoelectric stack with a d33 polarization mode in combination of bottom springs to suppress the bending vibration of the beam structure, thereby improving a positioning accuracy and a control accuracy of the structure. The compound piezoelectric actuator for the vibration suppression of a beam structure has a novel structure and a flexible design; with a cam-like structure being provided, the installation and replacement of the piezoelectric stack are achieved; and the combination of the camlike structure and the springs not only increases the output bending moment of the piezoelectric stack

with the d33 mode, but also implements the pretightening of the piezoelectric stack, which effectively suppresses the bending vibration of the beam structure. Therefore, the compound piezoelectric actuator has a bright application prospect in highend equipment with the beam structure, such as glass substrate carrying robots, radar antennae, and solar panels.



- 21: 2022/05713. 22: 2022/05/24. 43: 2022/07/18 51: C09D
- 71: Dalian Minzu University

72: Liguo Wang, Heting Sun, Danfeng Liu, Ying Xiao, Chunjuan Bo, Haitao Liu 54: NEW FINAL DECISION-MAKING METHOD OF CLASSIFICATION RESULTS FROM MULTI-

CLASS SUPPORT VECTOR MACHINE

Disclosed is a new final decision-making method of classification results from a multiclass support vector machine. The method includes the following steps: S1. setting original training samples as $x_i, i = 1, 2, \cdots k$ and class number as N, when training a discriminator, setting a positive-class category label as L_1 , a negative-class category label as L_2 , and sub-discriminator number as M, and performing training by the training samples and category label information thereof to obtain M discriminant functions of which results are not subjected to binary quantization, which denotes as $f_1(\bullet, f_2(\bullet, \cdots, f_M(\bullet), \text{ respectively}; \text{ and S2. denoting as } \tilde{x}_i = (f_i(x_i), f_2(x_i), \cdots, f_M(x_i))', i = 1, 2, \cdots k$, if \tilde{x}_i corresponds to a category j, stipulating its category label as $j(j \in \{1, 2, \cdots, N\})$, and performing the training by the training samples and the category label information thereof to obtain a final decision discriminator of which the results are subjected to N value quantization, wherein an output result $f(\bullet)$ of the decision discriminator is a category discrimination result of the corresponding sample. Compared with the traditional decision-making method, the new final decision-making method of the classification results from the multi-class support vector machine has advantages that a classification accuracy is higher, and the effect of the new decision-making method is improved more remarkably under the condition that a linear kernel is used.

ABSTRACT DRAWING



21: 2022/05718. 22: 2022/05/24. 43: 2022/07/18 51: B23Q 71: SUZHOU HAOYUN ELECTRONIC TECHNOLOGY CO., LTD

72: MA, Weiqing

33: CN 31: 201911152456.9 32: 2019-11-22 54: DESIGN AND PROCESSING PLATFORM FOR MECHANICAL PARTS 00: -

The present invention discloses a design and processing platform for mechanical parts, which comprises a motor, a platform, bearings, a connecting shaft, an installation platform, clamping plates, connecting sleeves, connecting rods, a reset plate, reset springs, a connecting platform, anti-skid pads, an adjusting rod, a first external thread, a second external thread, threaded holes, connecting holes, through-holes, a guide groove and guide blocks; the disc-shaped mechanical parts can be directly placed on a surface of the installation platform, and then the adjusting rod is rotated; as a first external thread and a second external thread are respectively provided on two ends of the adjusting rod, and thread directions of the first external thread and the second external thread are opposite, the adjusting rod will drive the clamping plates to move along the guide groove, so as to clamp the mechanical parts with different diameters; after processing of the mechanical parts is finished, the adjusting rod is rotated reversely; the clamping plates move back to two sides at a same time, so as to loosen the mechanical parts; at the same time, under actions of the reset springs, the connecting rods drive the reset plate up, so that the mechanical parts on the surface of the connecting table are ejected, and then can be easily taken out.



21: 2022/05767. 22: 2022/05/25. 43: 2022/07/20 51: A01G

71: Hunan Reed Industry Agricultural Ecological Technology Co., Ltd., Institute of Subtropical Agriculture, Chinese Academy of Sciences 72: Wang Wei, Wang Liyan, Xie Yonghong, Mao Tao, Liu Cheng

54: PLEUROTUS OSTREATUS CULTIVATION SUBSTRATE AND PREPARATION METHOD THEREOF

00: -

This invention provides a cultivation substrate for Pleurotus ostreatus and a preparation method thereof. The medium comprises reed chips, cottonseed hulls, rice hulls, bran, gypsum, urea and lime. Using reed as the main raw material can replace or reduce the consumption of sawdust, cottonseed hulls and corncobs, and open up a new source of raw materials. The invention provides a simple preparation method, which can not only meet the growth demand of Pleurotus ostreatus, but also save forest resources, reduce pesticide residues, and promote both the development and utilization of reed resources and the sustainable and healthy development of edible fungi industry.

21: 2022/05768. 22: 2022/05/25. 43: 2022/07/20 51: H04L

71: Zhejiang Gongshang University

72: HAN Song, REN Siqi, XU Shuhua, JIN Shudan 54: MULTI-DIMENSIONAL AND MULTI-SUBSET DATA AGGREGATION METHOD AGAINST RECONSTRUCTION ATTACK FOR SMART GRID 00: -

This invention provides multi-dimensional and multisubset data aggregation method against reconstruction attack for smart grid. According to the invention, two super-increasing sequences and Paillier encryption algorithm are used to realize multi-dimensional and multi-subset data aggregation, and the control center can obtain the sum of power consumption data of each dimension in each subset while obtaining the number of users in each subset. According to the invention, Horner rule is used to construct a polynomial for each user, so that the encryption cost of the smart meter terminal has nothing to do with the dimension, thus reducing the calculation cost. The invention resists reconstruction attack through differential privacy technology, and realizes stronger privacy protection for multidimensional data aggregation. The method

has good expandability and low calculation cost, and is suitable for large-scale intelligent power grids.



21: 2022/05769. 22: 2022/05/25. 43: 2022/07/20 51: B26B

71: Tongling University, Tongling Yuanyi Precision Machinery Co., Ltd

72: WANG, Dongsheng, ZHANG, Ran, XU, Lifeng, ZHOU, Yan, QU, Guang, WANG, Qunyou, HUA, Mengzhang

54: VERTICAL ROTARY WEDM MACHINE TOOL 00: -

Provided is a vertical rotary Wire cut Electrical Discharge Machining (WEDM) machine tool, including a base, a connection mechanism, a supporting mechanism, a lifting mechanism, a driving mechanism and a fixing mechanism; the lifting mechanism includes a bearing pedestal, a screw rod and a first variable frequency motor; a top end of the connection mechanism is provided with the first variable frequency motor; one end of the first variable frequency motor is connected to the screw rod; the screw rod is rotatably connected to an interior of the bearing pedestal; the bearing pedestal is fixed at a bottom end of the connection mechanism; the driving mechanism is fixed on a side wall of the supporting mechanism; the fixing mechanism includes joints, a clamping slot, a rotary drum and a rotating rod; the two joints are respectively rotatably connected to the side wall of the supporting mechanism; one end of each joint is

connected to the driving mechanism; the other end of the joint is arranged in the clamping slot; an interior of the clamping slot is rotatably connected to the rotary drum; the vertical rotary WEDM machine tool also includes an adjustment mechanism and an electrode wire. The present disclosure has the advantages that the electrode wire is convenient to replace and up and down move.



21: 2022/05770. 22: 2022/05/25. 43: 2022/07/20 51: C07C

- 71: Yancheng Teachers University
- 72: Qiu Qianqian, Geng Rongqing, Wang Yanjuan,

Xu Xiaojuan, Wang Wenling, Li Zheng, Wang Bin 54: NOVEL FFA1 AGONIST, ITS PREPARATION METHOD AND APPLICATION AS MEDICINE 00: -

This invention provides an FFA1 agonist with better curative effect and more stable metabolism, and to provide a new kind of potential for preventing or/or treating diabetes, diabetic complications,

prediabetes, fatty liver, cholestatic liver disease, liver

graft versus host disease, chronic liver disease caused by virus, alcoholic liver disease, druginduced liver injury, hyperlipidemia, obesity, metabolic syndrome, atherosclerosis, organ fibrosis, inflammation and cancer. The FFA1 agonist of the present invention has been selected by the inventor through a lot of research, practice and experience, which has unexpected pharmacological characteristics. According to the invention, the existing compounds are comprehensively and systematically structurally reformed, and a novel FFA1 agonist with more medicinal properties is obtained while exploring the chemical space.



21: 2022/05771. 22: 2022/05/25. 43: 2022/07/20 51: A01K

71: DaLian XinYuLong Marine Organisms Seed industry technology Co., Ltd., Qingdao Agricultural University, Dalian Ocean University
72: LI Shuangshuang, ZHAO Yuming, SU Yanming, LIU Bo, WANG Chunde

54: METHOD FOR INDUCING SPAWNING OF SINGLE INDIVIDUALS OF PARENT APOSTICHOPUS JAPONICUS 00: -

The present invention discloses a method for inducing spawning of single individuals of Apostichopus japonicus, the method comprising: A. Shade drying treatment of parent Apostichopus japonicus was performed by a combination of increasing the light by 2000-2500 lux and increasing shade drying temperature by 4-5 degree Celsius than that of parent Apostichopus japonicas temporary maintenance. B. Table type plexiglas tanks of about 20-40 liters were used, put a mature gonad parent Apostichopus japonicas in each tank, do not choose male or female. C. 8-10 mature parent Apostichopus japonicuses are dissected to obtain semen, which is then placed in a 10-15 cm

diameter surface dish with a semen thickness of about 3-5 mm. 15 watt ultraviolet lamp is used to irradiate at a distance of 15 cm for 60-90S. The semen can be stirred with a glass rod to make the ultraviolet irradiation uniform, or placed directly on a micro-oscillator. After ultraviolet irradiation, the semens are inactivated and lose their fertilizing ability, and are added to the individual plexiglas tanks at a volume ratio of 1 (semen):1000-10000 (water in the tank). D. Ultraviolet irradiation of seawater at a dose of 400 mW • h (milliwatt • hour) can be used for auxiliary oxytocin. E. The ocytocic tank can be filled with 50-100 ppm KCl, which has a certain induction effect. It has changed the original technology that Apostichopus japonicus must be group spawned to obtain eggs, making it possible to control too much semen to avoid affecting hatching water quality. It solves the problem that single individual sashimi are difficult to lay eggs and reduces the operational difficulty of hybridization breeding. It provides a better solution to further improve the hatching rate of fertilized eggs (by more than 50%) and facilitate the development of crossbreeding selection of Apostichopus japonicus.

21: 2022/05772. 22: 2022/05/25. 43: 2022/07/20 51: C04B

71: GuangXi Beitou Transportation Maintenance Technology Group Co.,Ltd.

72: XIE Cheng, LUO Junhui, CHEN Jiangcai, WU Xiaoliu, WANG Qimin, LIU Haobin, REN Tianzeng, HUANG Xiaofeng

54: HIGH-PERFORMANCE LOW-NOISE ASPHALT PAVEMENT MAINTENANCE MATERIAL AND PREPARATION METHOD THEREOF

The invention provides a high-performance lownoise asphalt pavement maintenance material and a preparation method thereof, belonging to the field of asphalt pavement maintenance materials, which comprises the following components in parts by weight: 60-70 parts of asphalt, 20-30 parts of fine aggregate, 30-40 parts of coarse aggregate, 3-5 parts of samarium trioxide, 5-8 parts of carbon fiber, 3-5 parts of polytetrafluoroethylene, 3-5 parts of noise reduction material and 1-2 parts of neoprene latex. According to the invention, carbon fiber and polytetrafluoroethylene are used as bonding agents, and when polytetrafluoroethylene and carbon fiber are used at the same time, they have the characteristics of infiltration and fusion connection, so that the repaired asphalt pavement is more flat and the joint will not be uneven, and the traditional hard connection structure of single asphalt is reformed; meanwhile, inorganic fullerene tungsten disulfide particles, epoxy resin and additives are used, so that the connectivity between aggregates is increased and the effect of better noise control is achieved.

21: 2022/05773. 22: 2022/05/25. 43: 2022/07/20 51: A61K

71: Central South University of Forestry & Technology, CHANGSHA CHANGJUN HIGH SCHOOL

72: REN Jiali, ZHONG Pingsheng, YANG Yalan, XIAO Zhenyan, HE Yawen, QI Chuchu 54: A GUAIANE-TYPE SESQUITERPENE COMPOUND, PREPARATION METHOD AND ITS APPLICATION

00: -

The invention relates to the technical field of chemical drugs, in particular to a guaiane-type sesquiterpene compound, a preparation method and application thereof. The guaiane-type sesquiterpene compound is extracted from Lactarius, which can well inhibit the activity of Mycobacterium tuberculosis, especially the drug-resistant or multidrug-resistant Mycobacterium tuberculosis, and then the guaiane-type sesquiterpene compound can be used to treat tuberculosis, especially the existing drug-resistant tuberculosis.



21: 2022/05775. 22: 2022/05/25. 43: 2022/07/19 51: H01L

71: Guilin University Of Electronic Technology 72: Jie Gao, Sijing Zhu, Lei Miao, Huanfu Cai, Huajun Lai

54: A PREPARATION METHOD OF PAPER-SUPPORTED BISMUTH TELLURIDE BASED

NANOWIRES FLEXIBLE THERMOELECTRIC COUPLE TEMPERATURE SENSOR 00: -

The invention discloses a preparation method of paper-supported bismuth telluride based ((Bi, Sb)2(Te, Se)3) nanowires flexible thermoelectric couple temperature sensor. By designing the vertical cross array structure of P-type and N-type bismuth telluride based (Bi, Sb)2(Te, Se)3 nanowires, the number of temperature measurement nodes per unit area is greatly increased. The temperature sensor has the advantages of simple process, short preparation period, safety, no pollution, low energy consumption, short response time, high sensitivity and good flexibility.



21: 2022/05776. 22: 2022/05/25. 43: 2022/07/19 51: G01N

71: Chongqing Institute for Food and Drug Control 72: Bai Yamin

54: MULTIFUNCTIONAL FOOD DETECTION PLATFORM

00: -

The invention relates to the technical field of food detection, and discloses a multifunctional food detection platform, which comprises a base, wherein the rear side of the top end of the base is fixedly connected with two support rods, the top ends of the support rods are fixedly connected with a support plate, the top end of the support plate is fixedly connected with a servo motor, and the driving end of each servo motor is fixedly connecte with a rotating shaft. In the present patent, The rotating shaft is driven by the servo motor to rotate, and the structures of the servo motor, the first connecting rod, the slide block and the like realize that the food to be detected can be conveniently placed on a working plane of a worker, so that the purpose of conveying is realized, the to-and-fro movement of the worker is reduced, and the working efficiency of the worker is improved; and a half gear rotates on a rack through a handle, so that a lifting plate is lifted,The electric push rod is started by the controller, so that the brush is cleaned on the working surface, the post cleaning of personnel is reduced, and the effect of automatic cleaning is achieved.



21: 2022/05777. 22: 2022/05/25. 43: 2022/07/19 51: A01N

71: Anhui Agricultural University, Huzhou Vocational and Technical College, Anhui Academy of Agricultural Sciences

72: Cheng Huang, Zhaocheng Wang, Songling Fu, Hua Liu, Fan Yang, Juncheng Shen, Linsen Yang 54: A THIN-SHELLED PECAN SEEDLING GROWTH INDUCER COMPOSITION AND ITS PREPARATION AND APPLICATION 00: -

The invention discloses a thin-shelled pecan seedling growth inducer composition and its preparation and application, belonging to the field of agricultural technology. The composition for inducing growth of thin-shelled pecan seedlings is composed of agent A and agent B; Among them, the abovementioned agent A is naphthalene acetic acid solution, and the above-mentioned agent B is paclobutrazol solution. The concentration ratio between agent A and agent B is 0.5:1. In addition, for specific application, the above-mentioned agent A is sprayed on the roots of thin-shelled pecan seedlings, and the above-mentioned agent B is sprayed on the true leaves of thin-shelled hickory pecan seedlings. The results showed that the above compositions have better promotion effect on basal diameter and chlorophyll content, and have better promotion effect on root growth, which could be

used in practical production and is beneficial to promote the cultivation of future grafting superior varieties and strong seedlings.

21: 2022/05778. 22: 2022/05/25. 43: 2022/07/19 51: G06T

71: National Institute of Technology Calicut,

Amudhan Nagendra Raj, Sudheer Attadappa Puthan Veetil

72: Amudhan Nagendra Raj, Sudheer Attadappa Puthan Veetil

54: A HYPERMETROPIC CONVOLUTIONAL NEURAL NETWORK DEVICE FOR SMALL SIZE OBJECT DETECTION AND A METHOD THEREOF 00: -

A device (100) for real-time detection of small-size objects, comprises of: an input module (102) for acquiring a plurality of images; a computational module (104) comprising of a plurality of convolutional layers (106) to generate at least a feature map through a convolution network; a first prediction layer (108a) comprising of a plurality of blocks (112) for real-time detection of the small-size objects, wherein a first block (112a) and a second block (112b) from the plurality of blocks (112) undergo a depth-wise concatenation of the feature map to extract at least a semantic feature from the feature map, wherein a terminating block (112c) subsequent to the second block (112b) undergoes an element-wise concatenation; and a second prediction layer (108b) for reducing computations during the detection of the small-size objects, wherein the extracted semantic features obtained through the element-wise concatenation are then depth-wise concatenated to an up-sampled features from the terminating block (112c).



21: 2022/05779. 22: 2022/05/25. 43: 2022/07/19 51: C01F

71: Shihezi University

72: Jing'an Feng, Lei Wang, Zhenling Jia, Qiao Liu, Weitao Chen, Hongwen Zhang, Xiangdong Ni, Xinsheng Bi

54: METHOD FOR PRODUCING CALCIUM CARBIDE RAW MATERIALS THROUGH CARBIDE SLAG 00: -

The invention relates to the field of carbide slag recycling in calcium carbide method acetylene production, in particular to a method that after physical separation is performed on carbide slag impurities, a calcium hydroxide component in the carbide slag impurities is extracted, and then calcium carbide raw materials are produced through carbide slag. The method for producing the calcium carbide raw materials through the carbide slag mainly comprises the following steps of fresh carbide slag screening; magnetic separating; ore grinding; ore pulp preparing; suspension separating; dewatering; carbon mixing, wherein filter cakes which are obtained after dewatering is performed and contain certain moisture are mixed with carbon material particles of which the particle size is smaller than or equal to 2 mm and the fixed carbon content is larger than or equal to 70% in a mixing machine according to the mass fraction ratio of 1.63:1-2.91:1; granulating and forming; drying; calcining. According to the method for producing the calcium carbide raw materials through the carbide slag, the shortcomings and defects in the prior art can be effectively overcome, reclamation recycling of the carbide slag is achieved, the impurities in the carbide slag can be effectively removed, the technology is simple and convenient, and the economic efficiency and practicability are achieved.



- 21: 2022/05780. 22: 2022/05/25. 43: 2022/07/19 51: G01N
- 71: Shenzhen Polytechnic

72: Zhurong Dong, Zhengkun Cheng, Xiaochun Zhu, Yachen Zhang, Hua Xia, Yang Zhao

54: MEASUREMENT METHOD OF STRESS CONCENTRATION FACTORS AND FATIGUE NOTCH FACTORS FOR TWO-DIMENSIONAL SURFACE TOPOGRAPHY 00: -

Disclosed is a measurement method of stress concentration factors and fatigue notch factors for two-dimensional surface topography. The stress concentration factor and the fatigue notch factor of each notch throughout the surface topography are analyzed based on the two-dimensional surface topography actually measured against a part; and after analytical solutions of the stress concentration factors for the two-dimensional axisymmetric surface topography under tension and compression loading are established over a lot of theoretical formula derivations, the fatigue notch factors of the twodimensional surface topography are predicted in combination with a material parameter, thus rendering rapid analysis measures for evaluation on the fatigue reliability of products, achieving leaping from geometrical information of the surface

topography to evaluation on the surface stress state, and completing a quantitative association between surface working quality of a member and the prediction of service life of the part.



21: 2022/05781. 22: 2022/05/25. 43: 2022/07/19 51: G01M

71: Shihezi University

72: Jing'an Feng, Lei Wang, Zhenling Jia, Qiao Liu, Weitao Chen, Xiangdong Ni, Hongwen Zhang, Xinsheng Bi

54: TEST PLATFORM FOR FOUR-WHEEL INDEPENDENT DRIVE INDEPENDENT STEERING ELECTRIC SPRAYER WORKING VEHICLE 00: -

The invention discloses a test platform for a fourwheel independent drive independent steering electric sprayer working vehicle, which comprises a hardware structure and a control system. The physical structure is mainly composed of a chassis frame and a wheel assembly, an overall steering and overall travelling mechanism is composed of four single wheels of the same structure, the single wheel assembly comprises an independent travelling part and an independent steering part, the independent travelling part is composed of a direct current motor driver, a direct current motor and a decelerator, and the independent steering part is jointly composed of a stepping motor driver and a stepping motor; the control system mainly consists of a central control unit, a feedback device, an alarm device and a power supply device; the central control unit consists of a single-chip microcomputer and a computer; a speed sensor, a gyroscope, an accelerometer, a Zigbee and a peripheral circuit together form a system feedback device; the alarm device mainly consists of an alarm indication lamp and a voice prompt module; and the power supply device is composed of a storage battery and a voltage

regulator for supplying power and regulating voltage. The invention of the test platform realizes various operation modes and can speed up the research and development of the working vehicle rollover stability controller.



- 21: 2022/05782. 22: 2022/05/25. 43: 2022/07/19 51: A01C
- 71: Shihezi University

72: Jing'an Feng, Lei Wang, Zhenling Jia, Qiao Liu, Weitao Chen, Hongwen Zhang, Xiangdong Ni, Xinsheng Bi

54: NOVEL TRANSPLANTING MACHINE AUTOMATIC FEEDING DEVICE

00: -

The invention discloses a novel transplanting machine automatic feeding device, which consists of a seedling disc step displacement device, a seedling taking device, a seedling jacking device, a pot seedling conveying device and a rotary seedling collecting device. The novel transplanting machine automatic feeding device is mainly used for realizing the mechanical fully automatic seedling taking in the agricultural transplanting process; the labor requirements on the transplanting are reduced; the planting quality is improved; the yield and income increase of farmers are promoted. In the work process of the device, the seedling jacking device jacks out pot seedlings in the seedling taking position, then, the whole line pot seedling clamping is performed by the seedling taking device from the seedling taking position; then, the pot seedling conveying device rotates for 90 degrees to reach the seedling putting position and puts the whole row of pot seedlings into a seedling collecting hopper of the rotary seedling collecting device; in addition, under the operation condition of the rotary seedling collecting device, the pot seedlings are separated into two lines to be put into a planting device one by one; finally, the pit disc seedlings are planted into the soil through the planting device.



21: 2022/05783. 22: 2022/05/25. 43: 2022/07/19 51: G06F

71: Shihezi University

72: Jing'an Feng, Lei Wang, Zhenling Jia, Qiao Liu, Weitao Chen, Xinsheng Bi, Hongwen Zhang, Xiangdong Ni

54: NUMERICAL SIMULATION AND OPTIMIZATION METHOD FOR PARAMETERS OF SOLID-SOLID SEPARATION HYDRO-CYCLONES 00: -

The invention relates to the technical field of design and manufacture of hydro-cyclones, in particular to a numerical simulation and optimization method for parameters of solid-solid separation hydro-cyclones. The method mainly comprises the following operation steps: determining the basic diameter of a hydro-cyclone; determining other structural parameters of the hydro-cyclone; designing a quadratic orthogonal rotation combinative test scheme; carrying out numerical simulation and test optimization on operation parameters; designing an orthogonal test scheme; carrying out numerical simulation and test optimization on the structural parameters. In order to overcome the disadvantages and defects in the prior art, the invention provides a method for carrying out multivariable multi-target parameter optimization on the operation parameters and structural parameters of the solid-solid

separation hydro-cyclones by taking separation performance of the hydro-cyclones as target, so as to simply, economically and efficiently realize the parameter optimization of the hydro-cyclones, remarkably improve the separation performance of the hydro-cyclones, improve the production efficiency, reduce the production cost and improve the product quality.



21: 2022/05784. 22: 2022/05/25. 43: 2022/07/19 51: E04C

71: Central South University of Forestry and Technology

72: Da Wang, Haojie Chen, Hongfei Song, Jian Yin, Hongxi Qin, Tianpeng Wang, Zhifeng Wang
33: CN 31: 202221010561.6 32: 2022-04-28
54: BIOMASS ENGINEERING MATERIAL TRUSS 00: -

The disclosure provides a biomass engineering material truss, which comprises a truss piece and a support frame. The two ends of the two truss pieces are respectively fixed and connected through the support frame to form a truss; the truss piece comprises straight rods, inclined rods and connecting members. The inclined rods are fixedly connected by connecting members, and the straight rods and the inclined rods are made of reconstituted bamboo materials; One horizontal end and one vertical end of the male end connecting member are provided with connecting splints, and the other horizontal end is provided with a connecting clip, the connecting clip and the opening of the connecting splint are of the same size, and one end of the truss piece should be connected by a T-shaped connecting member. The other end is connected with a male connecting member. The truss is set with a single truss, and each truss connection has male and female end connecting members. This truss connection method can choose the number of truss trusses according to the actual needs. It is a good choice for erecting permanent bridges or temporary bridges without welding and direct assembly.



21: 2022/05791. 22: 2022/05/25. 43: 2022/07/19 51: B01L 71: SUZHOU HAOYUN ELECTRONIC TECHNOLOGY CO., LTD 72: MA, Weiqing 33: CN 31: 201911152464.3 32: 2019-11-22 54: DEVELOPMENT AND EXPERIMENT PLATFORM FOR ELECTRONIC PRODUCTS 00: -

The present invention discloses a development and experiment platform for electronic products which comprises a detection table, a cleaning chamber, electric push rods, a supporting plate, bearings,

transmission columns, movable openings, transmission rods, cleaning brushes, driven gears, a driving gear, a motor, a case, an experimental chamber, heating chambers, heating wires, a temperature sensor, a temperature controller and a chamber door. According to the present invention, the electric push rods drive several cleaning brushes to move, and upper and lower positions of the cleaning brushes can be adjusted, so that the cleaning brushes are applicable to cleaning of dust on the surfaces of electronic products with different thicknesses and influence of dust on later experiments is prevented; the temperature controller is used for controlling the heating wires to work, and inner temperature of the experimental chamber can be adjusted, so that operation conditions of electronic products at different temperatures can be experimented. The device is simple in structure, convenient to use and suitable for application and popularization.



21: 2022/05792. 22: 2022/05/25. 43: 2022/07/19 51: B41F 71: SUZHOU CHAOSHUOFAN PLASTIC PRODUCTS CO., LTD.

72: LI, Ping

33: CN 31: 202011109028.0 32: 2020-10-16 54: EFFICIENT PLASTIC PLATE PRINTING DEVICE CONVENIENT TO OPERATE 00: -

The present invention discloses an efficient plastic plate printing device convenient to operate, which belongs to technical field of printing, and solved the problems that the existing devices cannot adjust the position of a printing screen and increase the printing difficulty. The efficient plastic plate printing device convenient to operate is technically characterized by comprising a workbench and supporting legs, wherein the supporting legs are arranged at a bottom portion of the workbench, the workbench is fixedly connected with the supporting legs through bolts, a vertical plate and a vertical locating plate are arranged on the workbench, an auxiliary assembly is further arranged on the workbench, a height adjusting groove is arranged in a top portion of the vertical plate, and a height adjusting assembly is arranged in the height adjusting groove; and the embodiments of the present invention further provide the height adjusting assembly, wherein arrangement of the height adjusting assembly realizes adjustment of the position of printing devices, facilitates printing on different types of plastic plates, improves efficiency of printing, and lowers the printing difficulty, and meanwhile, different types of plastic plates are conveniently placed through the auxiliary assembly, and working difficulty of workers is lowered.



21: 2022/05808. 22: 2022/05/25. 43: 2022/07/11 51: E05B

71: CENTURION SYSTEMS (PTY) LIMITED 72: MUMFORD, Gregory Paul, TERNENT, Darren Peter Morris

33: ZA 31: 2021/01484 32: 2021-03-04 54: TAMPER-RESISTANT GATE LOCK 00: -

A tamper-resistant gate lock comprising: a housing for a lock mechanism, the housing including an internal nib, for trapping a locking bar; a releasable slide, that is configured and dimensioned to pass

through a slot in the housing and to be received, at least partially, within the housing, the slide including a hook that is shaped eomplimentarily to the nib, and the slide being movable selectively between an engaged position, in which the hook is held captive by the nib, and a disengaged position, in which the slide moves freely within the housing; biasing means for biasing the slide in the engaged position; and an actuator, for moving the slide selectively between the engaged position and the disengaged position, characterised in that any unauthorised application of force to the lock results in the slide being moved into the engaged position.



- 21: 2022/05818. 22: 2022/05/26. 43: 2022/08/17 51: B28B; C04B; B33Y
- 71: Shenzhen University

72: KOU, Shicong, LUO, Fuming, CUI, Peng 33: CN 31: 202110575383.5 32: 2021-05-26 54: MAGNESIUM OXYCHLORIDE CEMENT ADDITIVE FOR 3D PRINTING AND APPLICATION THEREOF

00: -

Disclosed are a magnesium oxychloride cement additive for 3D printing and an application thereof. The magnesium oxychloride cement includes the following raw materials based on parts by weight: 100 parts of light-burned magnesium oxide, 122.4-150.0 parts of magnesium chloride hexahydrate, 0-6.5 parts of admixture, 0-20 parts of dry ice, and 40-73 parts of water. Dry ice is added to freshly mixed neat slurry of magnesium oxychloride cement to solve the technical difficulty of cooling the freshly mixed slurry of magnesium oxychloride cement; in addition, the carbon dioxide produced by dry ice promotes the exothermic reaction of magnesium oxychloride cement, improves the carbonation degree of hydration products, and effectively improves the early microstructure and macroscopic properties of the magnesium oxychloride cement additive; a temperature of the curing environment is kept consistent with that of the magnesium oxychloride cement additive, so that microscopic defects and microcracks are effectively reduced.



21: 2022/05819. 22: 2022/05/26. 43: 2022/08/17 51: A01G

71: Institute of Subtropical Agriculture, Chinese Academy of Sciences, Hunan Rice Research Institute

72: Wang Wei, Xie Yonghong, Zhang Shihui 54: A RICE PLANTING METHOD THAT SAVES WATER AND FERTILIZER 00: -

This invention provides a rice planting method that saves water and fertilizer, which comprises the following steps: A, before plowing, evenly spreading organic fertilizer in the field, plowing the soil with a plowing machine, and after plowing, using a rotary tiller to turn the soil into mud; B, the seedlings are transplanted when they has three leaves and one sprout, and the seedlings are distributed in wide and narrow rows; C, deeply applying base fertilizer, and applying chemical nitrogen fertilizer, chemical potassium fertilizer and chemical phosphorus fertilizer during transplanting, and applying fertilizer between rows by using fertilizer applying machinery; D, during period of seedling establishment and tillering period, carrying out shallow water irrigation, and near the end of tillering period, the rice fields are gradually dried at the end of tillering period to control ineffective tillering. When drying the fields, according

to the water retention of the soil, on the premise of not affecting the filling of rice field, gradually drying the fields, and harvesting by machinery. The method is easy to operate, which reduces the amount of fertilizer application. Through the wide and narrow rows of seedlings distribution mode, it is convenient for mechanical deep application of basic fertilizer. Through deep application of basic fertilizer, the loss of fertilizer is reduced, and the efficiency of the fertilizer is prolonged.

21: 2022/05820. 22: 2022/05/26. 43: 2022/08/17 51: A01G

71: Institute of Subtropical Agriculture, Chinese
Academy of Sciences, Hunan Reed Industry
Agricultural Ecological Technology Co., Ltd.
72: Wang Wei, Wang Liyan, Xie Yonghong, Chen
Xinsheng, Mao Tao, Liu Cheng
54: PLEUROTUS GEESTERANUS CULTIVATION

SUBSTRATE AND PREPARATION METHOD

00: -

This invention provides Pleurotus geesteranus cultivation substrate and its preparation method, and the culture substrate consists of reed chips, cottonseed hull, bran, gypsum and lime in a certain proportion, its preparation method is described as follows: (1) harvesting reeds, drying in the sun, so that the dried reeds can be ground by a grinder and made into reed chips for later use; (2) weighing reed chips according to the proportion, adding water to full saturation, pre-wetting for 1-15 days to fully absorb water for softening; (3) weighing cottonseed hull according to the proportion, adding water to full saturation, and pre-wetting for 1 day to fully absorb water; (4) weighing bran, gypsum and lime in proportion, mixing them with the above-mentioned processed reed chips and cottonseed hulls, and stirring evenly; adjusting the water content of the cultivation substrate; (5) bagging with polypropylene bags, and sterilizing at high temperature and high pressure. This invention has reasonable compatibility and convenient to use, and can meet the growth requirements of Pleurotus geesteranus. Moreover, it can reduce pesticide pollution, lower production costs, and have better ecological and economic benefits, and help to promote the sustainable and healthy development of edible fungi industry.

21: 2022/05821. 22: 2022/05/26. 43: 2022/08/17 51: C01C

71: He Kang, Sun Fei, Wu Bo, Cai Bin, Li Xiaobiao, Yang Quan, Xu Dongxiang

72: He Kang, Sun Fei, Wu Bo, Cai Bin, Li Xiaobiao, Yang Quan, Xu Dongxiang

54: GRINDING EQUIPMENT WITH LIQUID CO2 AS SOLVENT

00: -

The invention discloses a grinding equipment with liquid CO2 as solvent, mainly using liquid carbon dioxide (CO2) at low temperature and high pressure instead of the currently commonly used oil-based and water-based formulations. The grinding equipment mainly comprises three modules including a grinding machine body, a circulation cooling device and a sampling device. The grinding equipment uses liquid CO2 to completely replace the oil-based and water-based agents currently used as grinding solvents, effectively eliminating the serious contamination of water by oil-based and waterbased agents during the preparation of wet grinding products; the fully enclosed liquid CO2 piping design effectively avoids air pollution and operator harm from toxic and harmful gases emitted during the wet grinding process. The CO2 recycling circuit ensures that the CO2 can be effectively recycled, eliminating carbon emissions during the preparation of the wet grinding equipment.



21: 2022/05823. 22: 2022/05/26. 43: 2022/08/17 51: C08L

71: Chongqing Jiaotong University 72: HUANG, Gang, HE, Junxi, ZHANG, Xia, ZHANG, Qingming, ZHOU, Junbo, ZHOU, Chao, FENG, Manman, HUANG, Yifeng, LV, Chuncheng, HUANG, Hao, ZHANG, Zutang, LI, Huiying 54: PREPARATION METHOD OF GRAPHENE MODIFIED ASPHALT

00: -

The invention provides a preparation method for graphene-modified asphalt, wherein the graphenemodified asphalt consists of a dispersant, graphene and a matrix asphalt; The method includes: the ratio relationship between graphene and pitch matrix is denoted as the first ratio; The ratio relationship between dispersant and graphene was recorded as the second ratio. In the case of the second ratio unchanged, by adjusting the value of the first ratio, the dispersion-graphene ratio curve was obtained. In the case of the first ratio unchanged, by adjusting the value of the second ratio, the graphene-matrix asphalt ratio curve was obtained. Then according to the dispersant-graphene ratio curve and graphenematrix asphalt ratio curve, the formulation of graphene-modified asphalt was obtained. The beneficial technical effects of the invention are as follows: a preparation method of graphene-modified asphalt is proposed, which can obtain a variety of alternative formulations of graphene-modified

asphalt on the premise of good dispersion of graphene, avoid material waste and reduce cost.



21: 2022/05829. 22: 2022/05/26. 43: 2022/08/17 51: G06Q

71: China Railway Construction Corporation (International) Limited

72: Li Chongyang, Zheng Tianli, Zhang Jian, Yuan Chao, Li Bai, Tang Xinquan, Huang Taorui, Huang Binbin, Zhang Hongping

33: CN 31: 202210327463.3 32: 2022-03-30 54: INTELLIGENT CONSTRUCTION MANAGEMENT METHOD AND DEVICE FOR STADIUM CABLE-NET STRUCTURE 00: -

The present invention provides an intelligent construction management method and a device for a stadium cable-net structure. The method includes: generating a digital module corresponding to the cable-net structure, wherein the digital module includes a BIM module and a corresponding finite element module; determining survey points according to the BIM module, and simulating safety risks during the construction of the cable-net structure according to the finite element module; obtaining real-time sensing data with time series features from the survey points, wherein the realtime sensing data reflect many elements during the construction of the cable-net structure; and making use of artificial intelligence to deeply investigate and predict the real-time sensing data and determining whether the construction safety requirements of the cable-net structure are met. The present invention is conducive to improving the construction safety of stadium cable-net structure, safeguarding the construction quality, effectively preventing the

construction accidents, reducing the construction cost and increasing the construction efficiency.



21: 2022/05830. 22: 2022/05/26. 43: 2022/08/17 51: G06F

71: North China University of Science and Technology

72: NIU, Jiayang, JING, Xueying, YANG, Jiapeng 54: NOVEL INTERACTION MACHINE INTEGRATED WITH INTELLIGENT LANGUAGE PROCESSING

00: -

Disclosed in the present invention is an information interaction machine based on intelligent language processing. The machine can perform steps of automatic language discrimination, language understanding, data processing, intelligent retrieval, real-time display, etc. An interaction device with intelligent language processing includes a processing device, a display device is arranged in the front of the interaction device and is in electrical input connection to the interaction device, and a core database is in electrical and bidirectional connection to an index unit. Information received by an information end of the interaction device is converted into language information, the database is linked for standard comparison, and newly discovered information can be continuously collected by means of retrieval so as to be stored in a memory. The interaction device has a high response speed, and carries out intelligent interaction by means of natural

language analysis for real-time interaction with a user.



- 21: 2022/05832. 22: 2022/05/26. 43: 2022/08/17 51: C09K
- 71: Henan University of Urban Construction

72: WU, Xuyang, CHEN, Xiaogang, HOU, Haifang, QI, Hua, LIU, Heng, REN, Mingyang, WANG, Qingguo

54: NOVEL WALL-FIXING ANTI-COLLAPSE COMPOSITE SLURRY FOR UNDERGROUND DRILLING AND PREPARATION METHOD THEREOF

00: -

The present invention discloses a novel wall-fixing anti-collapse composite slurry for underground drilling, which falls within the technical field of geotechnical drilling engineering. The composite slurry comprises the following raw materials in parts by weight: bentonite 35-50 parts, water glass 18-28 parts, caustic soda 0.2-0.5 parts, soda ash 0.2-0.4 parts, mineral powder 6-8 parts, crosslinking agent 1.5-2.8 parts, inhibitor 0.6-1.4 parts, and water 1200-1500 parts. The present invention also provides a novel wall-fixing anti-collapse composite slurry for underground drilling and a preparation method thereof. The wall-fixing slurry provided by the present invention can effectively improve the quality of drilling engineering, enhance the anti-collapse performance, and make the drilling slag in the slurry easy to be precipitated and separated in the slurry during the drilling construction.

21: 2022/05835. 22: 2022/05/26. 43: 2022/08/17

51: H04L

71: Dr.Vishwanath Karad MIT World Peace University, MANTE, Jyoti G.
72: MANTE, Jyoti G., KOLHE, Kishor R.
54: A SYSTEM FOR DISTRIBUTED DENIAL OF SERVICE ATTACK DETECTION AND MITIGATION USING FOG NODES IN IOT ENVIRONMENT 00: -

The present invention relates to a system for distributed denial of service attack detection and mitigation using fog nodes in IOT environment. Fog computing (FC) is a contemporary computing paradigm that gives additional support to cloud environment by carrying out some local data analysis in edge of the devices, facilitating networking, computing, infrastructure and storage support as backbone for end user computing. FC is helpful for real-time sensitive data which requires low latency and bandwidth. Availability among the security requirements is the one which is about rendering on demand service to different client applications without any disruptions. It can often be demolished by Distributed Denial of service (DDoS) attacks in fog and cloud computing environment. The main intention of the present invention is to develop a novel optimised reinforcement learning based DDoS detection system in internet of things environment.



21: 2022/05837. 22: 2022/05/26. 43: 2022/08/17 51: H01L

71: Srishtee Chaudhary, Dr. Rajesh Mehra
72: Srishtee Chaudhary, Dr. Rajesh Mehra
54: A DEVICE OF DEVELOPING A BIS
(SULFANYLIDENE)TUNGSTEN AND A SPIRO-

OMETAD BASED EFFICIENT PEROVSKITE SOLAR CELL

00: -

A device (100) for developing a Perovskite Solar Cell, wherein the device (100) comprises of a plurality of interconnected layers, wherein the plurality of layers comprises of: a hole transport layer (104) comprising of Spiro-OMeTAD, wherein the hole transport layer is in association with a front contact (102a); a first defect layer (106) in association with the hole transport layer (104); an absorber layer (108) in association with the first defect layer (106) based on (CH3NH3PbI3); a second defect layer (110) connected to the absorber layer (108); and an electron transport layer (112) comprising of Bis(sulfanylidene) tungsten(WS2), wherein the electron transport layer (112) is interconnected to the second defect layer (110) and a back contact (102b).



- 21: 2022/05887. 22: 2022/05/27. 43: 2022/08/18
- 51: B23Q

71: Jinhua Polytechnic

72: WANG, Jinshuang, XU, Zhongwei, XIONG, Yongsen, WANG, Zhiming, DING, Zhao, JIN, Rendiao, SI, Jianyong **54: TELESCOPIC HEADER** 00: -

Disclosed is a telescopic header. The telescopic header includes a rack, a cutter holder arranged at a front end of the rack and cutters arranged on the cutter holder, where a driving mechanism for controlling the cutters to act is arranged on the cutter holder, and a telescoping mechanism for adjusting a telescoping position of the cutters is arranged at a bottom of the rack. The telescoping mechanism controls the telescoping positions of the cutters, such that the header telescopes to be adapted to harvest long-stalk and short-stalk crops.



21: 2022/05888. 22: 2022/05/27. 43: 2022/08/18 51: A01K

71: Xinjiang Academy of Agricultural Reclamation Sciences

72: Shi guoqing, Liu yucheng, Wan pengcheng, Dai rong, Fu xiangwei, Yang yang

54: BREED METHOD OF MUTTON SHEEP NEW STRAIN

00: -

The invention discloses a method for breeding a new strain of mutton sheep, which belongs to the technical field of animal breeding and comprises the following steps of: 1, selecting small-tail Han sheep which is healthy and disease-free for 35-45 days, has approximate body weight and carries FecB and BMP15 genes as a female parent, and performing binary hybridization with Suffolk ram as a male parent to produce the first generation of Suffolk binary hybridized sheep; Tep 2, producing the first generation of Sa-Han-Wu-Sanyuan hybrid sheep; Tep 3, producing the Sahanwubo fourelement first-filial generation hybrid sheep; Tep 4, producing the five-yuan first-generation hybrid sheep of the Sahanwubogao; Tep 5, selecting the sahan non-park high five-element first-generation hybrid ram produced in the step 4, breeding the sahan nonpark high five-element first-generation hybrid ram for 4 to 6 months, breeding the sahan no-park high fiveelement-generation hybrid ewe for 4 to 6 months, mating the selected sahan no-park high fiveelement-generation hybrid ewe for 3 months, and fixing the mating so as to produce sahan no park high zero-generation five-element hybrid sheep;And obtain a new mutton sheep five-way hybridization multiparous strain. According to the breeding method of the new mutton sheep strain, the bred mutton sheep has tender meat and good taste.



21: 2022/05889. 22: 2022/05/27. 43: 2022/08/18 51: C12Q

71: Shanghai Jiao Tong University School of Medicine

72: Shulin Zhang, Li Lin, Qihang Wu, Xiaokui Guo, Xiaoli Yu

54: APPLICATION OF EXOSOME MIRNA BIOMARKER AND KIT FOR RAPIDLY DIAGNOSING TUBERCULOSIS 00: -

The invention discloses an application of an exosome miRNA (micro ribonucleic acid) biomarker and a kit for quickly diagnosing tuberculosis. The exosome miRNA biomarker is has-miRNA-185-5p. The invention further discloses the kit for rapidly diagnosing the tuberculosis. The kit comprises a total RNA extraction related reagent in a blood plasma sample, an RT-PCR related reagent of the has-miRNA-185-5p and an external reference celmiR-39, and a quantitative PCR related reagent of the has-miRNA-185-5p and the external reference cel-miR-39. According to the invention, the hasmiRNA-185-5p derived from the exosome is used as the biomarker for tuberculosis detection, and the miRNA in the exosome is prevented from being degraded by RNA enzyme due to the protection effect of the exosome, so that the miRNA exists more stably, and the exosome has-miRNA-185-5p is used for tuberculosis clinical diagnosis and provides a new direction for tuberculosis clinical diagnosis.



21: 2022/05890. 22: 2022/05/27. 43: 2022/08/18 51: C09K

71: Northeast Forestry University

72: Lili Wang, Canfu Zhang, Kuichen Li, Zehao Jin 54: A HIGH FLUORESCENCE INTENSITY SILICON DOPED CARBON QUANTUM DOT AND ITS PHOTOCHEMICAL SYNTHESIS METHOD AND APPLICATION

00: -

This invention belongs to the field of carbon nanotechnology, and particularly relates to a high fluorescence intensity silicon doped carbon quantum dot (Si-CQD) and a photochemical synthesis method and its application. N-phenyl-p-phenylenediamine is used as a carbon source, and 3-

aminopropyltrimethoxysilane is used as a silicon source. Si-CQD with high fluorescence intensity are prepared by the simple photochemical synthesis method. High fluorescence intensity Si-CQDs prepared by the method have a regular structure which is a spherical shape with a diameter of 4.5-8.5 nm. It is rich in Si atoms on the surface, and has a high crystallinity with a lattice parameter of 0.21 nm. They show bright blue-green fluorescence. The Si-CQDs prepared by the method have several advantages including simple photochemical synthesis method, high fluorescence intensity, high optical stability, no toxicity or low toxicity in long-term storage and high-power ultraviolet irradiation processes. Therefore, it has great application potential in the fields such as optoelectronic devices, fluorescence sensing and cell bioimaging.



21: 2022/05891. 22: 2022/05/27. 43: 2022/08/18 51: C08L

71: Guizhou Minzu University

72: Daohai Zhang, Yanyan Tan, Fang Tan, Min He, Jie Yu, Shuhao Qin, Xiaoyu Shang, Junzhuo Sun, Meng Pei, Yu Xue, Kuntian Li, Jinhui Xie, Dongmei Bao

54: FLAME-RETARDANT EPOXY RESIN COMPOSITE MATERIAL AND ITS PREPARATION METHOD 00: -

The invention relates to a PET,

phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant composite material and a preparation method and application thereof, and belongs to thefield of flame-retardant composite materials. The PET,

phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant composite material is prepared from the following components in parts by weight: 80 to 95 parts of PET, 2 to 5 parts of a gas-phase flame retardant, 2 to 5 parts of a condensed-phase flame retardant, 5 to 10 parts of a compatibilizer and 0.5 part of an antioxidant. The invention further discloses a preparation method and application of the PET, phosphaphenanthrene and polyphosphazene double-base synergistic flameretardant composite material. The PET, phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant composite material can form a double-base synergistic effect and a three-element synergistic effect and has excellent flame retardancy, excellent interfacial compatibility and excellent mechanical properties.

^{21: 2022/05892. 22: 2022/05/27. 43: 2022/08/18} 51: C08L

^{71:} Guizhou Minzu University

^{72:} Daohai Zhang, Yu Xue, Fang Tan, Min He, Jie Yu, Shuhao Qin, Xiaoyu Shang, Junzhuo Sun, Yanyan Tan, Meng Pei, Kuntian Li, Jinhui Xie, Dongmei Bao

54: POLYETHYLENE TEREPHTHALATE COMPOSITE AND ITS PREPARATION METHOD 00: -

The invention belongs to the field of polybutylene terephthalate composite materials, and particularly relates to a phosphaphenanthrene and polyphosphazene double-base synergistic flameretardant PBTcomposite material and a preparation method and application thereof. The phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant PBT composite material comprises 80 to 95 partsof polybutylene terephthalate, 2 to 5 parts of a gasphase flame retardant, 2 to 5 parts of a condensedphase flame retardant, 5 to 10 parts of a compatibilizer and 0.5 part of an antioxidant. Due tothe synergistic effect of the gas-phase flame retardant and the condensed-phase flame retardant, the gas-phase flame retardant is mainly used for gas-phase flame retardancy, and the condensedphase flame retardancy is weak. The condensedphase flame retardant is mainly used as a condensed phase, so that the gas-phase flame retardant is made up; by mixing the gas-phase flame retardant, the liquid-phase flame retardant and the polybutylene terephthalate, the composite material has more excellent flame retardancy and excellent interfacial compatibility, so that the mechanical properties of the polymer flame-retardant material are not reduced and are enhanced.

21: 2022/05894. 22: 2022/05/27. 43: 2022/08/18 51: C08L

71: Guizhou Minzu University

72: Daohai Zhang, Kuntian Li, Fang Tan, Min He, Jie Yu, Shuhao Qin, Xiaoyu Shang, Junzhuo Sun, Yanyan Tan, Meng Pei, Yu Xue, Jinhui Xie, Dongmei Bao

54: POLYURETHANE FLAME-RETARDANT COMPOSITE MATERIAL AND ITS PREPARATION METHOD

00: -

The invention relates to an epoxy resin,

phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant composite material and a preparation method and application thereof, and belongs to the field of flame-retardant composite materials. The epoxy resin, phosphaphenanthrene and polyphosphazene

double-base synergistic flame-retardant composite

material is prepared from the following components in parts by weight: 70-90 parts of epoxy resin, 1.5-5 parts of a gas-phase flame retardant, 1.5-5 parts of a condensed-phase flame retardant, 5-15 parts of an amine curing agent and 0.5 parts of an antioxidant. The invention also discloses a preparation method and application of the epoxy resin, phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant compositematerial. The epoxy resin, phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant composite material can form a double-base synergistic effect and a three-element synergisticeffect, and has excellent flame retardancy, excellent interfacial compatibility and excellent mechanical properties.

21: 2022/05895. 22: 2022/05/27. 43: 2022/08/18

71: Guizhou Minzu University

72: Daohai Zhang, Yu Xue, Fang Tan, Min He, Jie Yu, Shuhao Qin, Xiaoyu Shang, Junzhuo Sun, Yanyan Tan, Meng Pei, Kuntian Li, Jinhui Xie, Dongmei Bao

54: POLICYLENE TEREPHTHALATE FLAME RETARDANT COMPOUND AND ITS PREPARATION METHOD 00: -

The invention relates to a TPU,

phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant composite material, and a preparation method and application thereof, and belongs to the field of flame-retardant composite materials. The TPU,

phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant composite material consists of, by weight, 80-95 parts of TPU, 2-5 parts of a gas-phase flame retardant, 2-5 parts of a condensed-phase flame retardant, 5-10 parts of a compatibilizer and 0.5 part of an antioxidant. The invention further discloses the preparation method and the application of the TPU,

phosphaphenanthrene and polyphosphazene double-base synergistic flame-retardant composite material. The TPU, phosphaphenanthrene and polyphosphazene double-base synergistic flameretardant composite material can form a doublebase synergistic effect and a three-element synergistic effect, and has excellent flame

^{51:} C08L
retardance, excellent interfacial compatibility and excellent mechanical properties.

21: 2022/05896. 22: 2022/05/27. 43: 2022/08/18 51: C08L

71: Guizhou Minzu University

72: Daohai Zhang, Kuntian Li, Fang Tan, Min He, Jie Yu, Shuhao Qin, Xiaoyu Shang, Junzhuo Sun, Yanyan Tan, Meng Pei, Yu Xue, Jinhui Xie, Dongmei Bao 54: NOVEL LINEAR POLYURETHANE AND ITS

54: NOVEL LINEAR POLYURETHANE AND ITS SYNTHESIS METHOD

00: -

The invention relates to self-repairing linear polyurethane and a preparation method thereof, and belongs to the technical field of high polymer materials. The preparation method comprises the following steps: taking polypropylene glycol and TDI, adding DMF, heating to 40-60 DEG C, and dissolving to obtain a dissolved solution; adding PPG into an obtained dissolving solution, heating the temperature to 65-85 DEG C, carrying out a stirring reaction for 12-18 min under the protection of nitrogen, and thus obtaining an intermediate; taking out the intermediate, cooling to 0 DEG C, adding furfurylamine, carrying out a reaction for 25-40 min, and recovering to room temperature to obtain a polyurethane prepolymer; and adding bismaleimide into the obtained polyurethane prepolymer, carrying out reaction for 24 h at a temperature of 75-85 DEG C, and taking out the obtained reaction product to obtain the self-repairing linear polyurethane. The invention also provides the self-repairing linear polyurethane. According to the preparation method of the self-repairing linear polyurethane, the selfrepairing linear polyurethane can be efficiently prepared, and the prepared self-repairing linear polyurethane is good in self-repairing effect.



21: 2022/05897. 22: 2022/05/27. 43: 2022/08/18 51: C08L

71: Guizhou Minzu University

72: Daohai Zhang, Kuntian Li, Fang Tan, Min He, Jie Yu, Shuhao Qin, Xiaoyu Shang, Junzhuo Sun, Yanyan Tan, Meng Pei, Yu Xue, Jinhui Xie, Dongmei Bao

54: NEW CROSS-LINKED POLYURETHANE AND ITS SYNTHESIS METHOD

The invention relates to self-repairing cross-linked polyurethane and a preparation method thereof, and belongs to the technical field of high polymer materials. The preparation method comprises the following steps: mixing epoxy chloropropane and furfuryl alcohol, and adding a catalyst tetrabutylammonium bromide; dropwise adding a sodium hydroxide solution, then putting the mixture into an ice water bath for 1.5-2.5 hours, and carrying out reduced pressure distillation after extraction, water washing and water removal treatment to obtain a crude product; taking furfuryl amine, adding methylbenzene to dissolve furfuryl amine, adding a catalyst tetrabutylammonium bromide, dropwise adding the crude product, and reacting at 55-70 degree for 3 hours to obtain a monomer; adding DMF, then adding isocyanate, heating to 65-85 degree, and stirring to react for 12-18 minutes; and adding 4, 4'-diphenylmethane bismaleimide, reacting for 24 h at the temperature of 60-75 degree, and taking out to obtain the self-repairing cross-linked polyurethane. The preparation method can efficiently prepare the self-repairing cross-linked polyurethane,

and the prepared self-repairing cross-linked polyurethane is good in self-repairing effect.



21: 2022/05907. 22: 2022/05/27. 43: 2022/08/18 51: A61K

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, DESAI, Sharmishta Suhas, CHAVAN, Puja Appasaheb 72: DESAI, Sharmishta Suhas, CHAVAN, Puja

Appasaheb, PATIL, Balaji Madhaorao 54: AI-ASSISTED SYSTEM FOR AUTO DIAGNOSIS AND DETECTION OF EPILEPTIC SEIZURE TO AVOID FUTURE RECURRENCE 00: -

Due to mental stress, neurological and behavioral diseases, the rate of neurological and psychiatric disorders is rapidly increasing in our daily lives. Epilepsy is a chronic brain condition defined by abnormal electrical activity in the brain. It is one of the many neurological brain disorders. It leads to various symptoms like loss of consciousness or awareness, temporary confusion, uncontrollable jerking movements, unexpected death etc. The brain signals produced by brain neurons can be analyzed to detect epilepsy. Neurons are tough to link to one another in order to communicate with human organs and generate messages. Electroencephalography (EEG) and Electrocorticography (ECoG) are widely used to monitor these brain impulses. These signals are complicated, noisy, non-linear and nonstationary and they generate a large amount of data. As a result, detecting seizures and discovering brain-related knowledge is a difficult process. To diagnose the condition of epilepsy doctors review some medical history and symptoms. Also using visual identification of EEG signals doctors detect the epileptic seizures. It is a time-consuming technique with a significant likelihood of human mistake in diagnosis. Machine learning classifiers,

on the other hand, are capable of classifying EEG data, detecting seizures and identifying relevant meaningful patterns without sacrificing performance. As a result, a number of seizure detection methods based on machine learning classifiers and statistical features have been created by various researchers. Selecting the right classifiers & features are the main challenges. And increasing the accuracy of detection & prediction is also one of the major gap. Therefore, present invention provides a AI-assisted system for auto diagnosis and detection of epileptic seizure to avoid future recurrence.



21: 2022/05908. 22: 2022/05/27. 43: 2022/08/18 51: H04L

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, MUSALE, Vinayak Prabhakar 72: PATIL, Balaji Mahadevrao, PANDE, Himangi Milind, AMUNE, Amruta Chandrakant 54: INTERNET OF THINGS BASED MULTI PARAMETER MEASURING AND DATA PROCESSING SYSTEM 00: -

An intelligent multiparameter measuring and data processing system applicable to various domains for monitoring objects or matters, prediction of maladies or deficiencies and forewarning them to end users. This makes use of various transducers for gathering real-time data from the object or matter under observation which is further processed using microcontroller in turn provided to end users for forewarning regarding precautions and preventive measures needed prior to the occurrences of maladies. The developed system is also applicable to the various application domains where real-time

physical monitoring and examining of feasible, infeasible objects or matter.



21: 2022/05909. 22: 2022/05/27. 43: 2022/08/18 51: B60R

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, HUJARE, Deepak P., PATEL, Paresh S.

72: HUJARE, Deepak P., PATEL, Paresh S., BARPANDE, Girish S

54: INBUILT TWO TIER JACK ASSEMBLY FOR VEHICLE

00: -

The two tier jack assembly facilitates lifting due to movement of a scissor jack unit and a lifter mechanism. The jack assembly has lower power consumption. The jack assembly reduces operation time as well as human efforts significantly. The jack assembly is selectively controllable from a cabin of the vehicle and the control is interlocked with the control of an engine ignition circuit so that the jack assembly is actuated only when an ignition switch is in off position.



- 21: 2022/05963. 22: 2022/05/30. 43: 2022/07/14 51: H01M
- 71: Qilu University of Technology
- 72: Guangmei HÓU

54: METAL LITHIUM NEGATIVE ELECTRODE AND PREPARATION METHOD THEREOF 00: -

The present disclosure discloses a metal lithium negative electrode and a preparation method thereof, which are applied to the technical field of lithium batteries. The method comprises: preparing graphene oxide (GO) distributed with different densities of lithiophilic substances into a film by an electrostatic spraying method, preparing the film into a lithiophilic three-dimensional porous selfsupporting carrier by a one-step thermal reduction method, and then encapsulating metal lithium in pores of the lithiophilic three-dimensional porous self-supporting carrier to obtain a metal lithium negative electrode. Compared with the prior art, the metal lithium negative electrode provided by the present disclosure can inhibit generation of dendrites in a circulation process, and has high circulation coulombic efficiency and circulation stability. In addition, the preparation steps are simple; the cost is low; and industrialization is easy to realize.



21: 2022/05964. 22: 2022/05/30. 43: 2022/07/14 51: E21B

71: China University of Mining and Technology 72: FENG Xiaojun, WANG Dongming, WANG Enyuan, LI Dexing, LIU Quanlin, DING Zeng, HU Qinjing, ZHAO Xue

54: COAL MINE ROCK BURST PREVENTION TUNNELING METHOD BASED ON FAULT RICH CONFINED WATER FREEZING METHOD 00: -

The invention discloses an anti-rock burst tunneling method for coal mines based on the freezing method of fault rich confined water. The tunneling method comprises an advanced geological exploration stage, which includes detection of fault characteristics and occurrence conditions of high confined water, and a step-by-step construction stage of the freezing boreholes, in which pipelines are connected to freezing construction boreholes,

and the rich confined water around the fault fracture zone is frozen by low temperature. The frozen area on both sides of the fault exceeds the two wings of the fault fracture zone by more than 25 m. After the freezing is completed, the heading is excavated, and the freezing temperature of the freezing construction boreholes is monitored to maintain the freezing effect. After tunneling through the fault fracture zone for 50-70 m, the freezing is stopped and allowed to naturally melt and thaw. It can well solve the rock burst risk faced by coal mine roadway excavation in water-rich near-fault geology. This method has good waterproof performance, strong adaptability to stratum, convenient construction, and at the same time, it is beneficial to solve the problem of fault water inrush during roadway excavation.



21: 2022/05965. 22: 2022/05/30. 43: 2022/07/14 51: G06N

71: Qingdao University of Technology

72: LI Xinguang, ZHAN Jun, LYU Tong, WANG Shen, HU Han, SUN Chongxiao, YU Wenchang, CHE Yupei

33: CN 31: 202210459803.8 32: 2022-04-28 54: EVALUATION METHOD OF URBAN LOW-CARBON PASSENGER TRAFFIC STRUCTURE BASED ON GAME COMBINATION WEIGHTING 00: -

The application discloses an evaluation method of urban low-carbon passenger transport structure based on game combination weighting, which comprises: Constructing the evaluation system of urban low-carbon passenger transport structure; based on the urban low-carbon passenger traffic structure evaluation system, obtaining the subjective weight of each evaluation index by adopting the DEMATEL-G1 method; obtaining the objective weight of each evaluation index by adopting CRITICentropy method; using the combination weighting method of game theory, the subjective weight and objective weight of each evaluation index are linearly combined to obtain the balanced weight of each evaluation index; acquiring data corresponding to each evaluation index in the urban low-carbon passenger traffic structure evaluation system of the city to be tested, and acquiring a comprehensive evaluation value of the urban low-carbon passenger traffic structure to be tested based on the balanced weight of the data and each evaluation index. The application can effectively evaluate the development status of urban low-carbon passenger transport structure.



21: 2022/05966. 22: 2022/05/30. 43: 2022/07/14 51: A01G

71: Xinjiang Institute of ecology and geography,

Chinese Academy of Sciences

72: Song Chunwu, Zhou Zhibin, Xu Xinwen, Jiang Jin, Zhu Jialong

33: CN 31: 202210445456.3 32: 2022-04-26

54: A METHOD OF REJUVENATION OF NON-IRRIGATION HALOXYLON AMMODENDRON PLANTATION DEGRADATION IN ARID AREA 00: -

The invention discloses a method for rejuvenating the artificial Haloxylon ammodendron plantation without irrigation degradation in the grav deserv soils in the arid area, belonging to the technical field of the rejuvenation of the Haloxylon ammodendron plantations in the arid area. The method is carried out in the following steps: the soil texture is gray desery soils, the soil composition is mainly silt, light loam soil or medium loam soil, and there is a degenerated Haloxylon ammodendron plantation in the stable snow area in winter; Thinning the upper part of Haloxylon ammodendron planatation land was carried out from November to December in the first winter, to obtain the thinning area and the interval protection zone; After thinning, micro terrain is arranged, and triangle slope cutting is carried out in the thinning area, and slope is formed from the root of Haloxylon ammodendron plantation to the row. The soil after cutting slope is stacked between the lines of Haloxylon ammodendron plantation to form undulating terrain; The low ridges is build every 4-5m in the catchment slope, and the two sides and two banks are surrounded by a catchment area; Repair the slope surface, keep the slope flat and free from surplus soil accumulation. The invention uses micro terrain transformation to form a micro area runoff rejuvenation and no irrigation degradation artificial Haloxylon ammodendron plantation, effectively improving the growth of degraded artificial Haloxylon ammodendron plantation.



21: 2022/05967. 22: 2022/05/30. 43: 2022/07/14 51: A01G

71: Xinjiang Institute of ecology and geography,
Chinese Academy of Sciences
72: Song Chunwu, Xu Xinwen, Jiang Jin, Wang Lixin
33: CN 31: 202210446545.X 32: 2022-04-26

54: A METHOD OF SOWING HERBACEOUS PLANTS WITH SNOW WATER ON THE SLOPE OF ARID AREAS 00: -

The invention discloses a method for sowing herbaceous plants with snow moisture on the slope in arid areas, which belongs to the technical field of desertification control. During the full maturity period of overlord Zygophyllum lehmannian and Zygophyllum peterocarpum, the capsule with full grains and good maturity on the withered plant is collected, and the net seeds of overlord Zygophyllum lehmannian and Zygophyllum peterocarpum are obtained respectively for storage and standby; Carry out slope soil consolidation; The mixed seeds are obtained by mixing the net seeds of lieman overlord and the net seeds of Elaeagnus mollis, and then the mixed seeds are mixed with the dry fine sandy soil and stirred evenly to obtain the mixed seed soil; Adding clean water to the mixed seed soil to obtain the wet seed soil; Sowing the wet seed soil; Cover the slope with straw curtain and fix it; After heavy snow in winter, sprinkle the snow on the flat land above the slope onto the grass curtain on the slope, and gently suppress and smooth it; In the coming spring, the grass curtain can be removed after the grass seed sprouts. The invention creates conditions for the successful establishment of plants on the slope in the arid area, so as to realize the sustainability of water and soil conservation on the slope in the arid area.



21: 2022/05970. 22: 2022/05/30. 43: 2022/07/14 51: A23L

71: Zhejiang Citrus Research Institute 72: Fang Xiugui, Cao Xuedan, Zhao Kai 54: TRICHOSANTHES KIRILOWI SEED BEVERAGE AND PREPARATION METHOD THEREFOR

00: -

A Trichosanthes kirilowi seed beverage. The formulation of the Trichosanthes kirilowi seed beverage comprises: 3 to 15 parts of Trichosanthes kirilowi seed, 3 to 5.5 parts of sugar, 0.1 to 1.2 parts of emulsifier, 0.01 to 0.1 parts of edible alkali, and 0.01 to 0.02 parts of antioxidant by weight, and finally 100 parts of a finished beverage product are prepared by adding purified water for processing; the sugar is white granulated sugar or xylitol; the emulsifier is mono- or di-glycerol fatty acid ester; the edible alkali is sodium carbonate or sodium bicarbonate; and the antioxidant is vitamin E. The preparation method therefor comprises the steps of dehulling, refining and separation, dosage and fixing volume, filtering, homogenizing, filling and sealing, high-temperature sterilization, etc. The preparation method of the present invention is simple and has a good extraction effect; and the prepared beverage has light and refreshing taste, good stability, no grease floating, few protein precipitates, a light milky white color, and a good sensory effect.



21: 2022/05971. 22: 2022/05/30. 43: 2022/07/14 51: A23L 71: Zhejiang Citrus Research Institute, Jiangsu kangduoyuan Beverage Co., Ltd72: Fang Xiugui, Qian Fangbing, Cao Xuedan, Zhao Kai

54: MACA BEVERAGE AND PROCESSING METHOD THEREFOR 00: -

The present invention relates to a Maca beverage formula, wherein weighing 1 to 6 parts of Maca dried product, 0.5 to 4 parts of Lycium chinensis dried product, 0.5 to 2 parts of Rhizoma polygonatum dried product and 2 to 5 parts of sugar according to the weight ratio; and adding water, blending and processing same, so as to prepare into 100 parts of beverage. The present invention also comprises a processing method for a Maca beverage, wherein 1) weighing Maca, Lycium chinensis and Rhizoma polygonatum dried product according to a formula, and rinsing same with water; 2) placing Lycium chinensis at 105±120°C and baking same for 5±15 min; 3) mixing Maca, Rhizoma Polygonatum and Fructus Lycium and pulverizing same, adding water with 8 to 10 times of the weight of the sum of the three, heating same, maintaining the temperature, and sterilizing same; 4) adding the sterilized material solution into a complex enzyme for enzymatic hydrolysis; 5) separating the residual solution of the enzyme electrolyte solution so as to obtain a separated solution; 6) mixing the separated solution, sugar and water according to the ratio, heating same, and fully dissolving sugar; and 7) filtering, packaging and sterilizing the formulated material solution so as to obtain a finished product. The Maca beverage has the effects of nutritional balance, strengthening health care, and has a clear, bright and colorful appearance, good aroma and taste.



21: 2022/05972. 22: 2022/05/30. 43: 2022/07/14 51: G06F

71: Zhejiang Gongshang University

72: Hong Haibo, Shu Gangqi

54: A NOVEL OUTSOURCED FUZZY KEYWORDS ENABLED RANKED SEARCHABLE CP-ABE SCHEME IN CLOUD ENVIRONMENTS 00: -

With the development of big data and cloud computing, more and more data owners are keen to outsource their data to cloud servers in the form of encryption. In this context, as an important encryption technology, searchable encryption (SE) plays a vital role in retrieving data for the data owners. In addition, data owners want to share encrypted data with some data users without compromising their privacy. Therefore, in this paper, we propose a novel outsourced searchable CP-ABE (ORSCP-ABE) scheme that supports the ranking of returned documents and keyword semantic extension. First of all, we combine searchable encryption with ciphertext-policy attribute-based encryption, and take advantage of FO transformation to improve the security of our scheme. Therefore, our scheme can achieve IND-CCA2 secure for both the data owner's search and the outsourced data in the random oracle model. Secondly, we employ the fog node to tackle the low efficiency of bilinear pairing, which greatly reduces computational costs of data users. Thirdly, we make use of TF-IDF algorithm and weighted zone score to compute the relevance of keyword and document. Thus, our

scheme is capable of ranking the retrieval results. Finally, by using the edit distance and WordNet, our scheme realizes fuzzy searching.



21: 2022/05973. 22: 2022/05/30. 43: 2022/07/14 51: A23K

71: Zhejiang Vegamax Biotechnology Co., Ltd. 72: LIU Jinsong, LIU Yulan, XIAO Shiping, ZENG Xinfu, DONG Zehan

54: A COMPOUND SODIUM BUTYRATE PLANT ESSENTIAL OIL MICROCAPSULE AND ITS PREPARATION METHOD

00: -

A compound sodium butyrate plant essential oil microcapsule belongs to the field of animal feed additives and has the effect of intestinal slow release. The compound sodium butyrate plant essential oil microcapsule is synthesized and granulated in one step, so that the production efficiency is improved; Glyceryl monostearate was used as the coating material, so that the microcapsules smoothly passed through the stomach and reached the intestine, and were slowly released in the intestine. After coating, the stability of essential oil was improved, the loss of essential oil during storage was reduced, and the odor of sodium butyrate and essential oil was reduced.

21: 2022/05974. 22: 2022/05/30. 43: 2022/07/14

51: G06F

71: Zhejiang Gongshang University

72: Hong Haibo, Zhu Linghe 54: A NOVEL PROTECTION METHOD OF CONTINUOUS LOCATION SHARING BASED ON LOCAL DIFFERENTIAL PRIVACY AND CONDITIONAL RANDOM FIELD 00: -

At present, the protection of user's location privacy (especially mobile user's location privacy) is widely

concerned by academia and industry. Many experts and scholars have proposed several secure and efficient solutions to this problem. However, in this context, if a mobile user wants to obtain the services she/he wants, she/he needs to share her/his location information continuously with an untrusted thirdparty in user's locations. This will cause privacy and security issue. To tackle this problem, in this paper, we apply local differential privacy (LDP) in supporting continuous location sharing among mobile users. Firstly, we introduce the concept of location set and put forward a new idea of using conditional random field (CRF) in model user's mobility. Then, we combine \delta-location set with \varepsilon-local differential privacy to protect location privacy and advance a mechanism to support continuous location sharing. Finally, we conduct experiments on real data set to evaluate our proposed mechanism. The results show that our mechanism is more effective than planar isotropic mechanism (PIM).



Fig. 1. Continuous location sharing based on LDP.

21: 2022/05975. 22: 2022/05/30. 43: 2022/07/14 51: A61B; A61M

- 71: Sichuan University
- 72: LI, Haolai, DENG, Limei

54: MEDICAL DEVICE FOR PREVENTING PRICKING WOUND OF DENTAL MEDICAL STAFF 00: -

Disclosed is a medical device for preventing pricking wound of dental medical staff, including an internal structure, a movable sleeve and a lower structure. The internal structure is composed of a pricking entrance, steel balls, a small spring, a large spring, a magnet, a mechanical connection handle and a movable valve. 3 steel balls are distributed below the pricking entrance in a surrounding way to facilitate a needle-shaped instrument to pass. The clamping force of the pricking entrance for the pricking portion of various dental instruments through the mechanical fit of the large and small springs, the magnet, the mechanical connection handle, the movable valve and the movable sleeve. This can not only facilitate the installation and removal of the pricking portion of the dental instruments, but also prevent the pricking wound of the dental medical staff because the pricking portion is wrapped by the clamping part.



21: 2022/05976. 22: 2022/05/30. 43: 2022/07/14 51: C03C

71: Anhui Science and Technology University 72: ZHANG, Maolian, SUN, Wen, ZHANG, Yongfeng, QIN, Yanfu, GUAN, Banggui, GUO, Hai 54: AUTOMATIC CLAMP FOR OPTICAL GLASS COATING

00: -

Disclosed is an automatic clamp for optical glass coating. The automatic clamp includes fixed bases,

a conveying mechanism is mounted on each fixed base, transfer blocks are fixed on the conveying mechanisms, and a guide rail is arranged on each conveying mechanism; and each air cylinder and the transfer block just below the air cylinder are each provided with a clamping base, and two ends of each clamping base are each provided with a clamping plate. The annular conveying mechanisms are arranged on the fixed bases, to achieve multistation distribution and further continuous batch machining of optical glass; guide rails limit transfer blocks, to guarantee stable running of the transfer blocks; and under action of air cylinders, a distance between upper and lower clamping bases is adjustable, the clamping plates are arranged on the clamping bases, to facilitate clamping of optical glass plates with different heights and widths.



- 21: 2022/05977. 22: 2022/05/30. 43: 2022/07/14 51: G06F
- 71: Zhejiang Gongshang University
- 72: Chen Chen, Hong Haibo

54: BBFAD: A NOVEL BACKDOOR DETECTION ALGORITHM BASED ON INPUT ACTIVATION 00: -

At present, machine learning has played an important role in the field of computer vision and natural language processing. However, models are extremely vulnerable to backdoor attacks. At the same time, most of the existing backdoor detection technologies are based on white box, that is to use the internal information of the models or the original data for detection, but this is not ideal in practical applications. In addition, existing backdoor repair algorithms reduce the accuracy of the original task while removing the backdoor. In this paper, we firstly propose an original black-box backdoor forced activation detection (BBFAD) algorithm based on knowledge distillation and GAN, which can detect whether the model has been implanted into a backdoor with high accuracy. Subsequently, we repair the detected backdoor model and restore the model at a cost of less than 1% of the original task accuracy. Finally, we introduce a potential attack-discretization backdoor and extensively evaluate the new technique on two benchmark data sets--MNIST and CIFAR-10.



Fig. 1. Process of Black-box Backdoor Forced Activation Detection (BBFAD)

21: 2022/05978. 22: 2022/05/30. 43: 2022/07/14 51: H01M

71: Yunnan Minzu University, Yunnan Tianhong Chemical Engineering Co.,Ltd., Kunming University of Science and Technology

72: XIANG Mingwu, CHEN Jiqun, GUO Yujiao, GUO Junming

54: METHOD FOR PREPARING LIAL0.04MN1.96O4 CATHODE MATERIAL 00: -

The invention discloses a method for preparing LiAl0.04Mn1.96O4 cathode material, which specifically comprises the following steps: putting reactants lithium carbonate, manganese carbonate, aluminum nitrate nonahydrate and fuel glucose into a ball mill tank, and taking ethanol as a medium, uniformly ball-milling on a planetary ball mill to obtain a reaction mixture raw material; then the raw materials of the reaction mixture are put into a preheated muffle furnace to be heated for combustion reaction, and the temperature is kept for a certain time to obtain a primary combustion product; the primary combustion product is put into

the preheated muffle furnace again for secondary roasting, and finally the spinel LiAl0.04Mn1.96O4 cathode material can be obtained by cooling. The method for preparing the LiAl0.04Mn1.96O4 cathode material provided by the invention has the advantages of low reaction temperature, high synthesis speed, simple and convenient operation, low cost and large-scale production.



21: 2022/05979. 22: 2022/05/30. 43: 2022/07/14 51: H01M

71: Qilu University of Technology

72: Guangmei HOU

54: METHOD FOR PREPARING INTERFACE LAYER ON SOLID ELECTROLYTE/LITHIUM NEGATIVE ELECTRODE

00: -

The present disclosure discloses a treatment method of a solid electrolyte/lithium negative electrode interface and an application thereof in a solid-state battery, which are applied to the technical field of solid lithium batteries. The method comprises: spreading single ion conductor COF powder on a surface of a solid electrolyte sheet by an in-situ polishing and coating technology; rotating and polishing the powder with stainless steel punching; uniformly coating the powder on the surface of the solid electrolyte; and then attaching a lithium negative electrode thereon to obtain a solid electrolyte/lithium negative electrode interface. Compared with the prior art, a preparation method of the present disclosure is simple and easy to operate and easy to regulate and control. Meanwhile, a solidstate battery assembled by the treatment method of the present disclosure not only well avoids an

adverse reaction between the lithium negative electrode and the solid electrolyte interface, but also has excellent cycle performance and low polarization and shows good electrochemical performance.



21: 2022/05980. 22: 2022/05/30. 43: 2022/07/14 51: A01N; C05G; C12N; C12R; A01P 71: Hangzhou Academy of Agricultural Sciences 72: LI, Xuqing, YAN, Jianli, ZHANG, Jingze, LI, Dingyi

54: ASPERGILLUS BRUNNEOVIOLACEUS STRAIN AND USE THEREOF 00: -

The present disclosure provides an Aspergillus brunneoviolaceus strain and use thereof. The Aspergillus brunneoviolaceus strain is named as Aspergillus brunneoviolaceus HZ23, with a deposit number of CCTCC M 2021173. The Aspergillus brunneoviolaceus strain is capable of efficiently solubilizing phosphorus and producing siderophore and 3-indoleacetic acid (IAA); the strain is also capable of being used for conducting agricultural production of newly cultivated arable land, improving a microbial population structure of soil, and promoting soil maturation, thereby facilitating crop growth and increasing crop biomass.



21: 2022/05981. 22: 2022/05/30. 43: 2022/07/14 51: C02F

71: Management and Service Center for Huangshui National Wetland Park

72: Song Xiuhua, Mao xufeng, Zhang Zhifa, Ma Chenglong, Ma Wenbin, Xie Shunbang, Zhou Xin, Liang Yuanna, Yang Xingguo, Tan Haiyan, Chang Yang

54: A WETLAND HEALTH EVALUATION METHOD BASED ON PSR-BP NEURAL NETWORK 00: -

The invention provides a wetland health evaluation method based on PSR-BP neural network, which relates to the technical field of ecological environment protection. Based on the combination of pressure-state-response and BP artificial neural network model, a plateau urban wetland health evaluation model with three comprehensive indexes and 45 evaluation factors is constructed by using analytic hierarchy process. The fitting result is good, the weight of plateau urban wetland evaluation factors and their synergy and trade-off relationship are revealed, and the evaluation factors that can really evaluate the plateau urban wetland health are found.



21: 2022/05982. 22: 2022/05/30. 43: 2022/07/14 51: E02B

71: SHANDONG JIAOTONG UNIVERSITY
72: LIN, Haihua, SUN, Chengmeng
54: ENVIRONMENTAL MAPPING METHOD FOR
SELF-ELEVATING DRILLING PLATFORM
00: -

The present invention relates to the technical field of self-elevating drilling platforms, and in particular, to an environmental mapping method for a selfelevating drilling platform. The method includes the following steps: first, determining all external environment parameters in platform environment mapping, including water depth, wind speed, current flow speed, and wave parameters; second, creating a platform overall strength analysis model; and third, respectively calculating a wind load, a wave load, a current load, and a platform inertia load under all working conditions composed of different external environment parameters selected according to the first step, and applying these environmental loads to the platform overall strength analysis model. According to the present invention, a calculation process is simple and practical, a calculation result is accurate and reliable, and a map is convenient to use. The working efficiency is improved, and the map is conveniently used by an operator.



21: 2022/05983. 22: 2022/05/30. 43: 2022/07/14 51: A61B; G01D 71: Taishan University

72: SHI, Qingfeng

54: METHOD FOR MONITORING DATA OF RUNNING MOVEMENT

00: -

A method for monitoring data of running movement, implemented by using a movement data monitoring apparatus, which includes a monitoring center, a gyroscope, a wireless measurement apparatus, and a parameter measurement apparatus, wherein the gyroscope, the wireless measurement apparatus, and the parameter measurement apparatus respectively establish communication connection with the monitoring center in a wireless manner. The method includes a plurality of steps such as disposing, synchronizing, measuring, and processing, by which, the monitoring is performed in high accuracy and timely, multi-fusion data information may be provided, and a plurality of movement parameters may be collected and effectively fused to form a systematic monitoring database for analysis and processing, thereby providing data support for training plans and sports skills in running.



21: 2022/05993. 22: 2022/05/30. 43: 2022/07/12 51: H04L

71: TANGSHAN UNIVERSITY

72: ZHANG, Xiaosong, GUO, Linhong 33: CN 31: 202011317532.X 32: 2020-11-23 54: FUSION COVERT CHANNEL CONSTRUCTION METHOD AND SYSTEM 00: -

The invention relates to a fusion covert channel construction method and a system. Firstly, data packages of different terminals in the Internet of Things is rearranged to carry secret information, which constructs a covert timing channel, and TCP series number fields of data packages are replaced as secret information to construct a covert storage channel; then, the covert timing channel and the covert storage channel are fused to construct the fusion covert channel for advantages complementation of the two channels, which improves both the stealth and capacity of the fusion covert channel.



21: 2022/05994. 22: 2022/05/30. 43: 2022/07/12 51: A62C; G08B; H02G 71: ANHUI EFARAD ELECTRIC POWER TECHNOLOGY CO., LTD

72: DAI, Wenzhong, ZAITSEV, Nikolai Konkodievich, XU, Wenzong, WANG, Youqun, DAI, Mian, DAI, Zhang, WU, Yujuan, DAI, Chao, LI, Liang 33: CN 31: 202011288251.6 32: 2020-11-17 54: REVERSIBLE THERMAL WARNING AND ENVIRONMENTAL PROTECTION FLAME-RETARDANT PROTECTIVE SHEATH 00: -

The present invention discloses a reversible thermal warning and environmental protection flameretardant protective sheath, including an outer protective sheath. A buffer mounting block is installed on one side of the outer protective sheath, a flame retardant layer is provided on a surface of the buffer mounting block, and a first splicing block and a second splicing block are respectively installed on an inner wall of the outer protective sheath, an expansion block is installed on a surface of the first splicing block and the second splicing block, a sharp block is installed on a bottom of each expansion block and a corresponding flame retardant device is installed on a bottom of each sharp block.



21: 2022/06105. 22: 2022/06/01. 43: 2022/07/11 51: A63B; G06F 71: SHENZHEN QIANHAI FANMEI IMAGE TECH CO.LTD

72: Pan PAN, Jianjia PAN

33: CN 31: 202110139548.4 32: 2021-02-02 54: A METHOD FOR CALCULATING DISTANCE FROM GOLF YARDAGE POINT TO HOLE CUP AND RELATED PRODUCTS 00: -

The present invention proposes a method for calculating the distance from a golf yardage point to a hole cup and the related products. By this method, the green coordinate system used to locate the hole cup in the Green is extended to the entire fairway of the hole, so that the location of the fairway yardage points can also be determined through the same green coordinate system; then, the lateral distance of the hole cup in the green is obtained, and a coordinate hole location map and a basic hole-cup yardage book are generated; finally, the distance from the yardage point to the hole cup is accurately calculated, and a hole-cup distance table and a holecup yardage book are generated; thereby, the problem of the distance from the golf fairway yardage point to the hole cup, which has not been solved for many years in the golf field, is fundamentally solved.



21: 2022/06189. 22: 2022/06/03. 43: 2022/07/26 51: C04B

71: Fuzhou University

72: Wenda WU, Xuefang WANG, Xuebo YAN, Qingyi ZENG, Jianhui LIN, Fubin ZHOU 54: METHOD FOR PREPARING GEOPOLYMER CONCRETE USING COAL-FIRED SULFUR-FIXING ASH SLAG 00: -

The invention provides a method for preparing geopolymer concrete by using coal-fired sulfur-fixing ash and slag. The method includes detecting the composition of the recovered coal-fired sulfur-fixing ash; then in the carbon dioxide gas produced by the coal-fired flue gas, ball-milling the coal-fired sulfurfixing ash to fully absorb carbon dioxide to cause carbonation reaction to obtain carbonated coal-fired sulfur-fixing ash; performing chemical composition and activity analysis on it; mixing it with sand, crushed stone, sodium hydroxide solution, and water glass; and at last using room temperature solidification molding technology to prepare the geopolymer concrete whose technical performance index meets the actual engineering requirements. The present invention can increase the utilization of coal-fired sulfur-fixing ash and realize a large amount of coal-fired sulfur-fixing ash, thereby effectively improving the utilization rate of coal-fired sulfur-fixing ash.

21: 2022/06191. 22: 2022/06/03. 43: 2022/07/26 51: A61K

71: Dr. Saumya Das, Dr. Manas Kumar Das, Nashra Shafiq, Garima Gupta

72: Dr. Saumya Das, Dr. Manas Kumar Das, Nashra Shafiq, Garima Gupta

54: A METHOD FOR PREPARING AND EVALUATING BIOACTIVE LUPEOL FOR MANAGING FUNCTIONAL GASTROINTESTINAL DISORDERS

00: -

A method (100) for preparing and evaluating bioactive lupeol, wherein the method comprises of: collecting 25-50µg/ml of lupeol from a source; mixing the lupeol with 1-3ml of chloroform to form a mixture; and mixing 2-4ml of sulphuric acid with the mixture to form a triterpenoid lupeol, wherein the 25-50µg/ml of the triterpenoid lupeol solution is formed by dissolving 1mg of lupeol in distilled water.



21: 2022/06226. 22: 2022/06/06. 43: 2022/07/20 51: G06F

71: Deepali Rajaram Naglot, Dr. Deepa Sachin Deshpande

72: Deepali Rajaram Naglot, Dr. Deepa Sachin Deshpande

54: A SYSTEM AND A METHOD FOR DEVNAGARI SIGN LANGUAGE RECOGNITION 00: -

A system (100) and a method (200) for Devnagari Sign Language Recognition, comprises of: an image capturing module (102) to capture hand finger gestures of a speech and sound impaired person as an input data; a finger point value extraction module (104) for extracting a finger point value from the input data; a normalization module (106) for preprocessing the extracted finger point values into a specific range, wherein the normalization is performed for mapping a distance value to the specific range of 0.0 to 1.0; a feature extraction module (108) for extracting a plurality of features related to hand finger gestures; and a Classification module (110) for classifying the hand finger gestures into a plurality of Devnagari sign language for recognition by a normal person.



21: 2022/06227. 22: 2022/06/06. 43: 2022/07/20 51: B62D

71: China Tiesiju Civil Engineering Group Co., Ltd. 72: Duan Qinan, Wei Haijin, Chen Zhiyuan, Wu Chenlong, Pei Yuhu, Zhang Yuanhe, Ge Jinjun, Li Yunhao, Han Zhihui

33: CN 31: 202210243057.9 32: 2022-03-11 54: STEERING MECHANISM AND GIRDER TRANSPORTING VEHICLE

00: -

The present invention provides a steering mechanism and girder transporting vehicle, and relates to the technical field of girder transporting vehicles. The steering mechanism includes a driving assembly, where the driving assembly includes a driving arm and a driving member, and the driving member is suitable for being connected with a vehicle frame, and suitable for driving the driving arm to rotate; a plurality of walking wheel sets, where the walking wheel set includes a steering arm; and a connecting rod assembly; one end of the driving arm is rotatably connected with the driving member, and the other end is connected with one of the plurality of the steering arms, two adjacent steering arms are connected by the connecting rod assembly, and the connecting rod assembly is suitable for adjusting a spacing between the two adjacent steering arms. The present invention drives the driving arm to rotate by the driving member, and drives the connecting rod assembly and the steering arms to rotate, so as to make a linkage steering among the plurality of the walking wheel sets, thereby the number of the driving members is reduced, and the cost is reduced; and the driving arm, the connecting rod assembly and the steering arms of the steering mechanism form a connecting rod mechanism, and the steering angle ratio of the adjacent walking wheel sets is adjusted by the connecting rod assembly, so that the girder transporting vehicle may be applied to various road conditions, and has a good applicability.



21: 2022/06228. 22: 2022/06/06. 43: 2022/07/20 51: B01J

71: ZHEJIANG UNIVERSITY OF SCIENCE & TECHNOLOGY

72: ZHANG Xin, ZHANG Hongtao, CAI Chi, WANG Linghui, Gu Lanlan, YANG Yaolei, Guo Daliang

54: HETEROGENEOUS PERSULFATE CATALYST, PREPARATION AND APPLICATION THEREOF

00: -

The invention discloses a heterogeneous persulfate catalyst, a preparation method and application thereof, and belongs to the technical field of harmless and resource treatment of papermaking sludge. The preparation method of heterogeneous persulfate catalyst comprises the following steps: (1) adding ferrous salt and persulfate into sludge for sludge conditioning and dewatering to obtain dewatered sludge; (2) pyrolyzing the dewatered sludge to obtain the heterogeneous persulfate catalyst. The method of the invention takes the papermaking sludge as the main raw material to prepare the heterogeneous persulfate catalyst, realizes the resource utilization of the papermaking sludge solid waste, and the preparation method is simple, easy and low in cost, and has a great application prospect in the removal of refractory organic pollutants such as antibiotics.



21: 2022/06229. 22: 2022/06/06. 43: 2022/07/20 51: A61L

71: SUZHOU POLYTECHNIC INSTITUTE OF AGRICULTURE

72: SI Wenhui, XU Liang, ZHANG Jianhao, YU Yan, LI Kejian, QUE Xiaofeng, HU Shuyang 54: PLASMA STERILIZING DEVICE

00: -

The invention discloses a plasma sterilizing device, which comprises a workbench, where a conveying mechanism, a sterilizing mechanism and a collecting mechanism are sequentially arranged at the top of the workbench from left to right; the sterilizing

mechanism comprises a sterilizing box body; two sides of the sterilizing box body are respectively provided with a feed inlet and a discharge outlet; the conveying mechanism and the collecting mechanism are respectively arranged corresponding to the feed inlet and the discharge outlet; the sterilizing box body is internally provided with a plasma sterilizing mechanism and a deliver mechanism; the plasma sterilizing mechanism is arranged corresponding to the deliver mechanism; and he feed inlet and the discharge outlet are both correspondingly arranged with the deliver mechanism. The invention overcomes the defect that the size of the treated sample is affected by the electrode spacing in the plasma treatment mode, greatly improves the application range of plasma sterilization, and makes it suitable for industrial continuous batch treatment.



21: 2022/06230. 22: 2022/06/06. 43: 2022/07/20 51: G01W

71: China Institute of Water Resources and Hydropower Research,

Development Research Center of the Ministry of Wat er Resources of P.R.China

72: ZHANG Hongbin, ZHANG Cheng, ZHANG Qiyi, CHEN Jian, CHEN Juan, WANG Lu, WANG Gang, MU Jie, JIANG Wei, ZHANG Xiaolei, LUO Lin, LIU Jie

54: A HYDRODYNAMIC MODEL FOR EFFECT ANALYSIS OF URBAN FLOOD RESILIENCE FACILITIES

00: -

The invention provides an urban surface-

underground coupling model, which is used for the effect analysis of urban flood resilience facilities. The coupling model includes a runoff production model, a one-dimensional pipe network model and a twodimensional surface model. Inputting surface flow data and drainage pipe network flow data, and establishing a surface-underground connection relationship accordingly; Generating and optimizing grid cells; Calculate surface runoff and drainage pipe network flow respectively; Calculate the exchange water volume between surface runoff and drainage pipe network flow; Check the calculated exchange water quantity to realize hydrodynamic coupling. This hydrodynamic coupling model can scientifically and effectively analyze the effect of resilience facilities on urban flood with the various type, quantity, layout and control measures of flood resilience facilities.



21: 2022/06231. 22: 2022/06/06. 43: 2022/07/20 51: C04B; C30B

71: ZHENGZHOU UNIVERSITY OF AERONAUTICS 72: GUAN, Li, ZHANG, Rui, LI, Mingliang, CHEN, Jiahui, BAI, Shuang, LI, Zhe, WANG, Hailong, ZHU, Yujie, GUO, Xiaoqin, AN, Linan

54: SILICON CARBIDE WHISKER/ALUMINIUM OXIDE CERAMIC COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF 00: -

The disclosure relates to a silicon carbide whisker/aluminium oxide ceramic composite material and a preparation method thereof. According to the preparation method of the silicon carbide whisker/aluminium oxide ceramic composite material of the disclosure, dynamic pressure sintering is achieved by using oscillatory pressure sintering, the densification process of a green body is accelerated by mechanisms such as rearrangement, diffusion and migration, exhausting of closed pores in grain boundaries in the later sintering period is accelerated, the relative density of the composite

ceramic material can be increased, and the mechanical performance of the composite ceramic material is improved.



21: 2022/06232. 22: 2022/06/06. 43: 2022/07/20 51: G01R; G06F; G08G 71: Shantou Polytechnic 72: GUO, Pengfei, WANG, Yao, ZHONG, Changyi, HUANG, Dong, LI, Xin, WANG, Lan, ZHANG, Haitao 54: DETECTION METHOD FOR HIGH-DIMENSIONAL BIG DATA OUTLIER

00: -

The present disclosure discloses a detection method for a high-dimensional big data outlier, and belongs to the technical field of outlier detection. The method comprises the steps of firstly, performing dimensionality reduction processing on input highdimensional big data by a principal component analysis method, thereby solving the problem that an isolation forest (iForest) algorithm is not applicable to high-dimensional data, then detecting outliers of the data with dimensionality reduction by the iForest algorithm, and specifically detecting the outliers of the data with dimensionality reduction by a k-means based iForest algorithm. Compared with an original iForest algorithm in which only two branches are taken into consideration, the k-means based iForest algorithm can construct a search tree based on many branches, and a k-means clustering algorithm is used for predicting the number of partitions on each decision tree node, so that a height of the search tree is decreased.



21: 2022/06233. 22: 2022/06/06. 43: 2022/07/20 51: G06Q

71: FUZHOU UNIVERSITY

72: LAI Yuanwen, ZHANG Boshen, FAN Yanhui, SUN Dazu

54: PREDICTION METHOD OF BUS ARRIVAL TIME BASED ON PARTICLE SWARM OPTIMIZATION 00: -

The invention provides a bus arrival time prediction method based on particle swarm algorithm, which comprises the following steps: improving the particle swarm algorithm; Optimizing the wavelet neural network based on the improved particle swarm optimization algorithm, and constructing a PSO-WNN prediction model; Acquire input data based on bus operation data; Bring the input data into the PSO-WNN prediction model to obtain the bus arrival time. The method utilizes real-time bus operation data, selects improved particle swarm optimization algorithm and wavelet neural network to establish a bus arrival time prediction model, and effectively improves the prediction speed and accuracy compared with the prior art..



21: 2022/06234. 22: 2022/06/06. 43: 2022/07/20 51: G01N

71: Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences, North Minzu University

72: LI Raorao, YANG Jin, ZHANG Zhijie, DUAN Wenwen, ZHANG Wei, ZHANG Haiyan, LUO Lu, XIN Xueying

54: METHOD FOR CONSTRUCTING FINGERPRINT SPECTRUM OF LYCII FRUCTUS 00: -

The invention discloses a method for constructing a fingerprint spectrum of Lycii fructus, and relates to the technical field of analysis and detection. Specifically, the method comprises the following steps of: preparing a test solution and a reference solution, and performing analysis and determination by using an HPLC method to complete the construction of a fingerprint. The determination method of the invention is simple and has the characteristics of high precision, stability and repeatability; after determination, chlorogenic acid, caffeic acid, 4-coumaric acid, scopoletin, ferulic acid, rutin, kaempferol-3-O-rutinoside and narcissin can be used as common characteristic peaks of Lycii fructus fingerprint spectrum to carry out identification research.



21: 2022/06235. 22: 2022/06/06. 43: 2022/07/20 51: G01R

71: Guangdong Polytechnic Normal University 72: Xiaoyong Liu, Huimin Zhao, Huihui Li, Yue Zhang, Rui Zhang

54: MULTI-RELATIONSHIP FUSION METHOD AND SMART MULTI-RELATIONSHIP FUSION SYSTEM FOR COVERT-LINKING-BASED KNOWLEDGE DISCOVERY 00: -

Disclosed are a multi-relationship fusion method and multi-relationship fusion equipment for covert-linkingbased knowledge discovery. The method includes the following steps: rendering a starting term A, and performing retrieval to find a primary literature collection a; identifying a first term collection TC-Terms correlative with a topic compactness of the starting term A and a first term collection MSR-Terms semantically correlative with the starting term A to form an intermediate word collection BTC matrix and an intermediate word collection BMSR matrix. respectively; fusing a common relationship and a semantic relationship to obtain an intermediate word collection B; performing retrieval using the intermediate word collection B to determine an intermediate literature collection b; identifying a second term collection TC-Terms correlative with a topic compactness of the intermediate word collection B and a second term collection MSR-Terms semantically correlative with the intermediate word collection B to form a termination word collection CTC matrix and a termination word collection CMSR matrix, respectively; fusing a common relationship and a semantic relationship to obtain a termination word collection C; and performing a co-occurrence determination on the starting term A and the termination word collection C.



21: 2022/06236. 22: 2022/06/06. 43: 2022/07/20 51: H01M

71: Yunnan Minzu University, Yunnan Tianhong Chemical Engineering Co.,Ltd., Kunming University of Science and Technology

72: Xiang Mingwu, Chen Jiqun, Guo Yujiao, Guo Junming

54: METHOD FOR PREPARING HIGH-PERFORMANCE LITHIUM MANGANATE CATHODE MATERIAL BY DOPING NICKEL 00: -

This invention provides method for preparing highperformance lithium manganate cathode material by doping nickel. The chemical formula of nickel-doped lithium manganate is LiMn2NixO4(x=0.02-0.15). Specifically, the method comprise the following step: preparing dopant dispersion, preparing fuel dispersion, mixing and preparing products, and the like; mechanically stirring uniformly to obtain reaction mixture slurry which is placed in a porcelain crucible, then, in a muffle furnace with a preset temperature of 500 Celsius degree, burning and reacting in air atmosphere for 1h, taking out, naturally cooling in the air, grinding, roasting in a muffle furnace with a preset temperature of 700 Celsius degree for 6h, taking out, cooling and grinding in the air to obtain LiMn2NixO4(x=0.02-0.15) cathode material. The invention adopts a solid-liquid-water mixing system, which has the advantages of short mechanical stirring and mixing time, the reaction mixture slurry does not need drying , and can be directly heated for combustion reaction and the like. The preparation process of the invention is simple and rapid, the invention can obtain the nickel-doped lithium manganate cathode material with good

crystallization, fine crystal grains, uniform distribution and octahedral morphology, which is obviously superior to the existing LiMn2O4 cathode material in terms of higher discharge specific capacity, good rate performance and long cycle stability.



21: 2022/06241. 22: 2022/06/06. 43: 2022/07/20 51: A45B

71: Shanghai University of Medicine and Health Sciences

72: YANG, Zhifang, LI, Yanfei, DUAN, Baoyu, QIN, Ziyao, CHU, Zirui, HE, Kai, WANG, Qingxia, HAN, Yue, WANG, Shanshan, XU, Zhaixiang, LONG, Fengxia, CHEN, Nannan

54: WALKING STICK CAPABLE OF AUTOMATICALLY STANDING UP 00: -

Disclosed is a walking stick capable of automatically standing up. The walking stick includes: a walking stick body, a handle and a supporting mechanism; the supporting mechanism includes a supporting seat, state sensing devices are arranged on the supporting seat, and a control device and a driving device are arranged in the supporting seat; an output end of the driving device is connected to the walking stick body; the driving device and the state sensing devices are electrically connected to the control device; and the control device senses a state of the supporting seat by means of the state sensing devices, and controls the walking stick body to rotate relative to the supporting seat according to the state of the supporting seat. The walking stick can automatically stand up after toppling, such that convenience is brought to a user of the walking stick.



21: 2022/06244. 22: 2022/06/06. 43: 2022/07/20 51: H01M

71: Inner Mongolia University of Science and Technology

72: Mingchao Zheng, Jianghong Huang, Jinlong Cui, Wenyuan Zhao, Wei Zhao, Hongwei Liu 54: METHOD FOR PREPARING C/SIOX COMPOSITE LITHIUM BATTERY NEGATIVE ELECTRODE MATERIAL FROM LIQUID WASTES

OBTAINED BY ALKALI TREATMENT OF NON-WOOD PAPERMAKING MATERIALS 00: -

The invention discloses a green production process for preparing a C/SiOx composite lithium battery negative electrode material from liquid wastes obtained by alkali treatment of non-wood papermaking materials. The process comprises the following steps: removing metal impurities introduced in a process of collecting Chinese silvergrass or bamboo by using a strong magnet, and washing with running water to remove soil in the impurities; cooking the raw materials with a NaOH solution, precipitating out a xylogen/SiO2 hybrid material from the alkali treatment waste liquor with acid liquor, carbonizing the xylogen/SiO2 hybrid material, and performing carbon thermal reduction to obtain a C/SiOx composite lithium battery negative electrode material; cooking the residues to be directly used for pulping and papermaking, neutralizing, distilling and drying the waste liquor

produced in the preparation process of the C/SiOx lithium battery negative electrode material so as to obtain solid residues, wherein the solid residues can serve as edible salt of animals. Each component in the non-wood papermaking materials and each of the input chemical reagents can be fully utilized.



21: 2022/06402. 22: 2022/06/09. 43: 2022/07/27 51: A61M

71: Affiliated Hospital of Youjiang Medical University for Nationalities

72: HUANG Yanqiu, WANG Jianyuan, WEI Meixian, LIANG Hailing, LIANG Jutian

54: AN INTERVENTIONAL DEVICE FOR NURSING

00: -

The present invention discloses an interventional device for nursing, including a box, a suction and sputum mechanism, a sputum mechanism and a cannula mechanism; a partition is fixedly connected inside the box, and the partition divides the box into a suction and sputum chamber, a waste liquid collection chamber and a power supply chamber, and the waste liquid collection chamber and the power supply chamber are both located below the suction and sputum chamber; the suction and sputum mechanisms are fixedly installed inside the suction and sputum chamber, and a connection is fixedly connected at the top of the suction and sputum chamber, and the suction and sputum mechanisms, the sputum mechanism, the sputum mechanism and the cannula mechanism are connected to the connection, and the suction and sputum chamber is connected to the waste liquid collection chamber through the suction and sputum mechanism, and a collection box is detachably connected inside the waste liquid collection chamber, and a battery is fixedly installed inside the power supply chamber. The present invention can carry out sputum chemistry at the same time of sputum aspiration to improve the efficiency of sputum aspiration and the effect of sputum

aspiration, and the intubation mechanism can automatically carry out intubation to reduce the discomfort of the person to be aspirated.



21: 2022/06403. 22: 2022/06/09. 43: 2022/07/27 51: B08B

71: Affiliated Hospital of Youjiang Medical University for Nationalities

72: CHEN Qiuru, WANG Jianyuan, HUANG Yanqiu, MENG Mengquan, NONG Jinhong

54: A CLEANING DEVICE

00: -

The invention discloses A cleaning device, and relates to the technical field of medical instruments and appliances. A first cavity and a second cavity are arranged inside the lower box body, the first cavity has a closed structure, the top end of the second cavity is provided with an opening, disinfectant is placed inside the first cavity, columns are fixedly connected at each vertex angle of the upper end face of the lower box body, and each vertex angle of the lower end face of the upper box body is respectively connected with each column in one-to-one correspondence, and a conveying device is arranged between the upper box body and the lower box body, and And the conveying device can convey along the length direction of the lower box body, the opening of the second cavity and the upper box body corresponding to the opening are provided with cleaning devices which are

communicated with the first cavity through pipelines. Thereby solving the problems of low disinfection efficiency of the disinfection cabinet and incapability of simultaneously disinfecting a large number of medical instruments in the prior art.



21: 2022/06404. 22: 2022/06/09. 43: 2022/07/27 51: A01K

71: PEARL RIVER FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES

72: Yu Lingyun, Wang Yakun, Zhu Xinping, Wei Jie, Tian Lu

54: METHOD FOR CULTURING LARVAE OF MACROBRACHIUM ROSENBERGII 00: -

The present invention belongs to the technical field of aquaculture, and discloses a method for culturing larvae of Macrobrachium rosenbergii, and analyzes the effects of three environmental factors, namely, three salinity, five photoperiods and five visible light irradiation on the survival, metamorphosis, growth, and related enzyme activities of Macrobrachium rosenbergii larvae. There are significant differences in the survival rate, metamorphosis rate, growth and related enzyme activities for the Macrobrachium rosenbergii cultured at different salinity, and the growth and development and survival conditions are the best in the experimental group at a salinity of 13‰; there are significant differences in the survival rate, metamorphosis rate, growth and related enzyme activities of the Macrobrachium rosenbergii larvae under different photoperiods, the larval survival, metamorphosis and growth effects are the best under continuous light conditions; under the irradiation of different visible light, the metamorphosis, survival and growth effects of

Macrobrachium rosenbergii larvae are the best under white light and green light, while the growth and development, and survival indexes are the lowest in the experimental group of red light. In the culture production of the present invention, the proper salinity, optimal photoperiod and visible light can promote the seedling breeding effects of Macrobrachium rosenbergii.



21: 2022/06405. 22: 2022/06/09. 43: 2022/07/27 51: C12N

71: Zhejiang University

72: Li Yongguan, Xia Tianyu, Ma Lie

54: HIGH-YIELD STRAIN OF DALBAVANCIN PRECURSOR A40926B0 AND ITS APPLICATION 00: -

This invention provides a high-yield strain of Dalbavancin precursor A40926B0 and its application, wherein the high-yield strain is classified and named as Nonomuraea gerenzanensis L71, and the preservation number is CGMCC No.21334. By introducing the A40926B0 biosynthetic gene cluster into the original strain. The yield was increased by 50% ~ 55% compared with the original strain. Dalbavancin is a new semisynthetic glycopeptide antibiotic, which can inhibit the biosynthesis of the cell wall of Gram-positive bacteria and is suitable for treating acute bacterial skin and skin structure infection. The strain of Nonomuraea gerenzanensis L71 of the invention can improve the yield of Dalbavancin precursor A40926B0. The invention has a wide application range and provides a new research method for the construction of an efficient biosynthetic pathway of actinomycetes



21: 2022/06406. 22: 2022/06/09. 43: 2022/07/27 51: B65D

71: China Railway No.3 Engineering Group Co.,
Ltd., China Railway No.3 Engineering Group Co.,
Ltd. The Fourth Engineering Co., Ltd., China
Railway North Investment Co., Ltd.
72: Wenhua GAO, Shilei LIU, Shan JIANG, Yifeng
LIU, Qiqi HAO, Haiyang ZHANG, Yanhua CAO,
Kaixuan GENG

33: CN 31: 202210459034.1 32: 2022-04-27 54: CONSTRUCTION METHOD OF SEMI-CYLINDRICAL PILE FOR CUT-AND-COVER STATION 00: -

The present disclosure provides a construction method of a semi-cylindrical pile for a cut-and-cover station. The construction method of the semicylindrical pile for the cut-and-cover station includes the following steps: conducting pile setting out on a fender pile and forming a pile hole in a ground according to a structure of the fender pile; preparing a steel reinforcement cage, where the steel reinforcement cage has half of steel reinforcements protruding radially therefrom to form a semicylindrical reinforcement cage with an arc-shaped profile; arranging a bamboo plywood connected to the semi-cylindrical reinforcement cage; lowering the steel reinforcement cage to insert the steel reinforcement cage into the pile hole; pouring concrete into the steel reinforcement cage and conducting solidification; arranging a bent cap, arranging a retaining wall for construction, and conducting earth excavation; and removing the bamboo plywood to obtain the semi-cylindrical pile. Throughout the construction process, only readily purchasable and less costly materials are needed, such as bamboo plywoods and steel reinforcements,

which reduces the cost input and improves the economical efficiency of the whole project. In addition, the bamboo plywoods are easier to remove and can greatly reduce noise, which not only meets the requirements for green construction, but also resolves the problem that semi-cylindrical pile construction is troublesome, and it is hard to ensure the quality of the project.



21: 2022/06407. 22: 2022/06/09. 43: 2022/07/27 51: E03B 71: Henan University

72: Beiming CAI

54: WATER RESOURCE ASSET ACCOUNTING APPARATUS

00: -

The present invention discloses a water resource asset accounting apparatus, which includes following structures: a sampling module configured to perform data sampling on to-be-accounted water resource assets; a calculating module configured to calculate the sampled data; and a comparing module configured to check a calculation result and a preset accounting index. By classifying water resource assets for statistical calculation, various water resource data can be obtained, and classified accounting is carried out, so that the accounting of the water resource assets is more accurate.



- 21: 2022/06408. 22: 2022/06/09. 43: 2022/07/27
- 51: G06F

71: Southwest university

72: Dong Tao, Xiao Hengjia

54: AN ENCRYPTION SYSTEM BASED ON AUTOMATIC TEXT SELECTION 00: -

The invention presents an encryption system based on automatic text selection, including: the first authentication module, the second authentication module, text message decryption module, sensitive word automatic screening module, text information encryption module and manual de-encryption module. The system uses the first authentication module to realize the initial encryption of the encrypted text. And there is a sensitive font library in the system. When the new text information of the system is input, the system automatically selects sensitive words for text information and automatically selects whether to encrypt text according to the filtered content. When the system modifies the existing text, the system will start the second authentication module. And the system automatically filters the sensitive words to the modified text information and automatically selects whether to re-encrypt the modified text. This encryption system enhances the security of text and prevents the leakage of text information in user's computer, which causes security problems.



21: 2022/06409. 22: 2022/06/09. 43: 2022/07/27 51: A01G

71: Heilongjiang University of Science and Technology

72: WANG Hongcheng, XIANG Lejuan, QIU Binli, WANG Tong, WANG Guoling, LI Xiaoyu, LIU Zhenyang, REN Fangyi, SHEN Yue, LI Xinyue, LI Bo, LIU Guoxing, DONG Xupeng

54: ELECTRIC FLOWER STAND FOR BALCONY PLANTING

00: -

An electric flower stand for balcony planting relates to a flower stand for balcony planting, in particular to an electric flower stand for balcony planting. The invention aims to solve the problems that some existing flower racks for balcony planting are fixed and occupy a large balcony area and space. The invention comprise a moving beam, a lifting driving mechanism, a top beam, a bottom beam, two slide blocks, two guide posts and two bearing platform mechanisms, wherein that top beam and the bottom beam are sequentially fix on the balcony wall in parallel from top to bottom; the two guide posts are vertically arranged between the top beam and the bottom beam; the upper end of the guide post is fixedly connected with the top beam; the lower end of the guide post is fixedly connected with the bottom beam; the moving beam is horizontally arranged between the two guide posts; and the invention belongs to the field of agricultural equipment.



21: 2022/06410. 22: 2022/06/09. 43: 2022/07/27 51: F03G

71: Zhang xiang dong

72: Zhang xiang dong, Zhang ya fei, Zhang li zhi, Xiao xue

54: LEV GRAVITATIONAL POTENTIAL ENERGY SELF-PRESSURIZATION TYPE POWER GENERATION METHOD

00: -

The invention relates to the technical field of electric energy conversion, and particularly discloses a novel lever gravitational potential energy self-

pressurization type power generation method. S2, the rotating center of the lever is connected with a power device, one end of the lever is connected with a balance weight, and the other end of the level is connected with the magnetic induction linear cutting object;S3, set an annular magnetic field by taking that rotation cent of the lever as a circle center and the distance from the rotation center to the magnetic induction line cut object as a radius; S4, supply power to that pow equipment to drive the lever to rotate in a power utilization trough period; In the gravitational potential energy self-pressurization type power generation method, the magnetic field is set

to be annular, and the motion track of the magnetic induction line cutting object is also annular, A buffer zone does not need to be arranged during release, so that the wasted energy is reduced, the efficiency of converting gravitational potential energy into electric energy is improved, and the number of magnetic induction lines cut by a magnetic induction line cutting object at the same height is increased, so that the conversion rate of the electric energy is increased.

21: 2022/06411. 22: 2022/06/09. 43: 2022/07/27 51: F03G

71: Zhang xiang dong

72: Zhang xiang dong, Zhang ya fei, Zhang li zhi, Xiao xue

54: SELF-DEBUGGING GENERATOR BASE ON GRAVITATIONAL POTENTIAL ENERGY 00: -

The invention relates to the field of generators, in particular to a self-debugging generator based on gravitational potential energy, which comprises a water tank, wherein a sliding frame is connected to a vertical symmetry axis on one side of the inner wall of the water tank, the inner wall of the sliding frame is connected with a sliding block, one end of the top of the sliding block is connected with a touch controller, When the floating ball touches the bottom of the touch controller, the control module reacts immediately, and at the moment, the electric lifting column directly lifts the water stop plate to release a stored water source; by arranging the wind power converter and the storage battery, power can be provided for the control module and the electric lifting column; and through a simple connection mode between the sliding frame and the sliding block, The height of the touch controller can be randomly and quickly adjusted, so that the water storage height is changed, the water storage amount and the release amount are controlled, and the stability and the safety of the whole generator are improved.



21: 2022/06412. 22: 2022/06/09. 43: 2022/07/27 51: G01N

71: Yunnan Police College

72: NI, Chunming, WEN, Yunbo, LIU, Jin, ZHANG, Jianqiang, LI, Bin

33: CN 31: 202110825068.3 32: 2021-07-21 54: MULTI-CHANNEL ON-SITE IDENTIFICATION DEVICE FOR PRECURSOR CHEMICALS AND DETECTION METHOD THEREOF 00: -

Disclosed are a multi-channel on-site identification device for precursor chemicals and a method thereof. The device is characterized in that the identification device includes a detection chamber, a spectrum transmitting terminal and a spectrum receiving terminal, wherein the spectrum transmitting terminal and the spectrum receiving terminal are respectively arranged at a front portion and a rear portion of the detection chamber. This project has the significance that spectral scanning in the longwave range can be achieved by adopting the new integrated technology of voltage-controlled optical filters and pyroelectric infrared sensors, and a longwave infrared absorption spectrometer can be developed, which can be used as a supplementary technology or means of the currently common shortwave infrared absorption spectrometer; a technical foundation is laid for establishing a fingerprint map library of precursor chemicals, and it is expected to achieve the objective of completely solving the detection and analysis problem of precursor chemicals.

21: 2022/06417. 22: 2022/06/09. 43: 2022/08/19

51: G01R

71: Taishan University

72: ZHOU, Fengrui, ZHANG, Yi, GUO, Zhongao, DING, Bowen, YANG, Chen, SONG, Kairui, WU, Hao, CHENG, Qiao, ZHANG, Yaowei, LI, Haoyu, ZHANG, Chao

54: LORA-BASED LOW-POWER ENVIRONMENT MONITORING DISPLAY NODE AND USE METHOD THEREOF

00: -

The present invention relates a LoRa-based lowpower environment monitoring display node and a use method thereof. The LoRa-based low-power environment monitoring display node includes a single-chip microcomputer (SCM) module, a LoRa RF module, a sensor probe module and an e-ink screen, wherein the LoRa RF module receives data packets and generates an interrupt; the sensor probe module is used to collect gas data and transmit to the SCM unit to monitor soil and gas environment data. According to the display node, a LoRaWAN remote communication technology is adopted; the cost is low, and the deployment is flexible (the display node can be flexibly deployed according to user's requirements; the display node has a good anti-interference capability and a wide coverage of up to 15 km.



21: 2022/06421. 22: 2022/06/09. 43: 2022/08/19 51: C09D

71: Shenzhen Fudibao Biotechnology Co., Ltd.72: Bingxin Chen

54: GRAVE PROTECTION MATERIAL AND PREPARATION METHOD THEREOF

00: -

The invention relates to a grave protection material and a preparation method thereof. The grave protection material comprises an inner anti-corrosion material layer, a waterproof material layer and an outer anti-corrosion material layer which are sequentially coated and hot-pressed in the direction away from the grave wall. Wherein an anti-corrosion material of the inner anti-corrosion material layer comprises the following components in parts by weight: 10-30 parts of acrylic acid epoxy resin paint, 1 part of a curing agent, 6-12 parts of glass fibers and 3-4 parts of a diluent; a waterproof material of the waterproof material layer comprises the following components in parts by weight: 1-4 parts of active calcium carbonate and 1-3 parts of fluorinecontaining resin, and the particle size of the active calcium carbonate is 5-7.5 microns; and an anticorrosion material of the outer anti-corrosion material layer comprises the following components in parts by weight: 20-40 parts of asphalt, 1-2 parts of hightemperature silver powder paint and 3-4 parts of a diluent. The technical problem that the grave is corroded and affected with damp due to lack of grave protection in the prior art is solved.

- 21: 2022/06422. 22: 2022/06/09. 43: 2022/08/19
- 51: C02F
- 71: Guizhou Normal University
- 72: Pinhua Xia

54: COMBINED TREATMENT METHOD AND SYSTEM FOR RIVER WATER QUALITY IMPROVEMENT AND ESTUARY WETLAND RESTORATION

00: -

The invention discloses a combined treatment method and system for river water quality improvement and estuary wetland restoration. The system is characterized in that an oxidation pond, a ditch wetland, a floating blanket wetland, an ecological pond and a mudflat wetland are sequentially connected in series and combined together on one side or the two sides of a riverway. The combined treatment method and system, disclosed by the invention, have the advantages that by utilizing a riparian zone space, the different types of wetlands are combined together to improve the river water quality, so that the double targets of river water quality improvement and wetland restoration are realized, and the seamless connection between the purification of polluted river water into a lake and the restoration of an estuarine degraded wetland is achieved; and the adopted wetland combination system has good landscape coordination with the lake, so that the wetland area is increased, and the wetland function is improved; an adopted nature-

imitating method is low in construction cost, simple and convenient to maintain and manage and convenient for popularization and application.



21: 2022/06424. 22: 2022/06/09. 43: 2022/08/19 51: C04B

71: Fuzhou University

72: Wenda Wu, Xuefang Wang, Xuebo Yan, Qingyi Zeng, Jianhui Lin

54: ONE-COMPONENT ALKALI ALUMINOSILICATE CEMENT 00: -

The invention discloses one-component alkaliactivated cement. The one-component alkaliactivated cement comprises, by weight, 40-50% of fly ash, 2-4% of solid sodium hydroxide, 23-27% of mineral slag, 13-17% of albite, 6-8% of solid sodium silicate, 3-5% of solid calcium oxide and 1% of borax, and the sum of the weight percentage of the raw materials is 100%. The one-component alkaliactivated cement has a simple preparation process and a low cost, calcining is not needed in the preparation process, and the obtained cement has low corrosivity, high stability and a broad market prospect and can be stored conveniently for a long term.

21: 2022/06452. 22: 2022/06/10. 43: 2022/08/19 51: A01G

71: Shandong Academy of Agricultural Sciences 72: Jia Chunlin, Zhang Jinhong, Zhang Jinglei, Guan Cong, Wu Bo, Yan Depeng, Gao Run, Wang Guoliang, Wang Sujuan, Liu Yang 54: MIXED SOWING PLANTING TECHNOLOGY OF PANICUM VIRGATUM L. AND WILD GLYCINE MAX (LINN.) MERR. IN SALINE-ALKALI LAND 00: -

This invention relates to mixed sowing planting technology of Panicum virgatum L. and wild Glycine max (Linn.) Merr. in saline-alkali land. This invention applies seed pre-treatment, scientific and reasonable mixed sowing and staggered sowing which can effectively promote the germination and growth of seeds, and has the advantages of high survival rate, strong stress resistance, high product yield and good quality. Panicum virgatum L. products are harvested at the end of July and the beginning of August, and their palatability is enhanced. The yield of fresh grass is increased by 10 percentage, reaching 3500-3800kg/mu, the crude protein content increased from 7 percentage to 10 percentage. In addition, Panicum virgatum L. and wild Glycine max (Linn.) Merr. are mixed, which can cooperate with each other, promote each other's growth and have good stability. It provides highquality forage grass for the development of animal husbandry in China, and plays a positive role in promoting the development and utilization of salinealkali land and the popularization of biomass energy.



51: E04G

71: Fuzhou University

72: Wu Zhaoqi, Wu Shengping, Meng Quansong, Liu Han

54: CONSTRUCTION METHOD FOR STRENGTHENING COLUMN MEMBER WITH PRESTRESSED HIGH-STRENGTH FIBER CLOTH 00: -

This invention provides construction method for strengthening column member with prestressed high-strength fiber cloth, the construction method includes: (1) coating primer on the reinforcement part of the column member to be reinforced; (2) one end of the cut fiber cloth is wound on a steel bar for 2-3 layers, and the other end is glued with glue to form a cloth ring; (3) positioning and opening a straight groove on the long side of the reinforced part; (4) placing the steel bar in a straight groove, and winding fiber cloth on the reinforcement part of the column member to be reinforced; (5) tensioning the fiber cloth by a tensioning device, wherein the frame of the tensioning device is clamped at the upper and lower ends of the steel bar through a bayonet arranged at the end of the frame, and the loop end of the fiber cloth is tensioned; (6) coating glue on the fiber cloth; (7) after the glue is cured, remove the tensioning device; (8) repairing and filling the straight groove. The construction method for strengthening column members with prestressed high-strength fiber cloth can wind the fiber cloth on the column members to be strengthened for further stretching, so that the fiber cloth is wound firmly, the strengthening effect is good, the operation is simple and convenient, and the efficiency is high.



21: 2022/06454. 22: 2022/06/10. 43: 2022/08/19 51: A01N

71: Shanxi Agricultural University

72: Guo Yuan, Li Jie, Wang Zhi, Zhang Xvfeng, Wu Min, Guo Lina, Guo Baobei, Zhang Yunyi 54: INDUCER AND INDUCTION METHOD FOR IMPROVING THE PERFORMANCE OF PEAR NECTAR COLLECTION BY BEES 00: -

This invention provides inducer and induction method for improving the performance of pear nectar collection by bees, the inducer comprises the following components in parts by mass: each part of sucrose solution with a concentration of 23-27% contains the following components in percentage by weight: guercetin 0-0.01% and tartary buckwheat phenolic substances 0-0.04%. The inducer is nontoxic and harmless to bees with low cost. The method for inducing bees to collect pear flowers by using the inducer comprises the following steps: arranging main cultivated varieties and pollinated varieties in a pear garden, dispersing bee colonies in various parts of the pear garden at the early flowering stage, and selecting western bees or their hybrids, wherein the number of bees is not less than 8 honeybee comb. Pollination: feeding the bees with the inducer after they finish collecting nectar and return to their hives every night, and continuously

feed them the inducer for 4-5 days according to the pear blossom period until the last flowering period, and then remove the bee colony. The method can motivate bees to collect pear flower powder, and enhance the pollination effect of pear trees, the method takes effect quickly, and is easy to operate, and has important application value in bee pollination production of pear trees.



21: 2022/06455. 22: 2022/06/10. 43: 2022/08/19 51: B01J; C10G

71: Shandong Gongquan Chemical Stock Co., Ltd. 72: WANG, Fengjiao, HAO, Xinwen, CHEN, Zilian, YAO, Anbang, ZHANG, Bo

54: METHOD FOR PREPARING HIGH-DESULFURIZATION-ACTIVITY HYDROTREATING CATALYST CARRIER AND CATALYST 00: -

The present disclosure discloses a method for preparing a high-desulfurization-activity hydrotreating catalyst carrier and a catalyst, wherein the method for preparing the carrier comprises the following steps: diluting a titanate coupling agent with a solvent to prepare a coating solution for later use; impregnating the coating solution on pseudoboehmite powder in an impregnation mode, and drying to obtain coating modified pseudo-boehmite; mixing the coating modified pseudo-boehmite with a peptizing agent, an extrusion aid and deionized water, kneading, forming, drying and baking to obtain the hydrotreating catalyst carrier. The present disclosure has the following beneficial effects: the amount of titanium dioxide used is low, the utilization rate is high, and the preparation process of the carrier and the catalyst is simple.

21: 2022/06456. 22: 2022/06/10. 43: 2022/08/19 51: G06F 71: Qingdao University of Technology, Qingdao Metro Line 1 Co., Ltd., China Construction Fifth Engineering Division Corp., Ltd 72: YU, Guangming, YANG, Xinwang, HONG, Yong, XU, Zhen, SUN, Chao, LEI, Jun, YANG, Zihan, CHEN, Ze, LIU, Hao, ZHANG, Penghui 54: ANALYSIS METHOD OF FLOATING AMOUNT OF SINGLE SEGMENT UNDER SYNERGISTIC EFFECT OF GROUP FORCES 00: -

The present invention discloses a calculation method of floating amount of single segment under synergistic effect of group forces, wherein as floating of a single segment is local, dynamic buoyancy generated by synchronous grouting is mainly considered; a simplified mechanical analysis of the segment during synchronous grouting is carried out, and the dynamic buoyancy, static buoyancy, resistance between rings, viscous resistance and self-weight of the segment are defined as group forces; synergistic effect of the group forces is mainly considered and a formula for calculating the floating amount of the single segment is derived by integrating and separating variables, which provides a theoretical basis for analyzing floating mechanism of the single segment; and problems of segment floating during construction are solved, and construction quality is guaranteed, a technical basis for anti-floating design and safe construction of shield tunnel segments is provided.



21: 2022/06457. 22: 2022/06/10. 43: 2022/08/19 51: E01D

71: ROAD AND BRIDGE INTERNATIONAL Co., LTD., ROAD AND BRIDGE SOUTH ENGINEERING Co., LTD.

72: LI, Lingyu, LI, Zhiwen, HUANG, Can 33: CN 31: 202122234344.7 32: 2021-09-15 54: RAPID GRINDING DEVICE FOR CAST CONCRETE IN WET JOINT

00: -

The present invention belongs to the technical field of bridge construction and relates to a rapid grinding device for cast concrete in a wet joint, comprising a walking mechanism. A leveling mechanism acting on a wet joint between two adjacent box girders is disposed on the walking mechanism and is composed of fixed frames and scrapers; the scrapers are disposed on the fixed frames; and the fixed frames are detachably connected to the walking mechanism. The grinding device has a light weight in structure, is simple to conduct construction and convenient to move, may be repeatedly used and can implement the procedure of pressed finishing and grinding after concrete is casted in the wet joint during current bridge floor construction.



21: 2022/06458. 22: 2022/06/10. 43: 2022/08/19 51: C12N; C12Q

71: Hainan University, Tropical Crops Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences

72: ZHU, Jie, LIU, Ziji, CAO, Zhenmu, QIN, Yuling 54: PRIMER COMBINATION FOR DETECTING PURITY OF MINI-WATERMELON HYBRID CITRULLUS LANATUS CV. QIONGLI AND METHOD AND USE THEREOF 00: -

The present disclosure provides a primer combination for detecting a purity of miniwatermelon hybrid Citrullus lanatus cv. Qiongli. A simple sequence repeat (SSR) markers and an insertion/deletion (InDel) marker are combined, and a duplex PCR technique is adopted to detect the purity of the mini-watermelon hybrid C. lanatus cv. Qiongli. Amplified polymorphic bands can accurately distinguish the hybrid from a female inbred parent and a male inbred parent, and detection efficiency and detection accuracy are further improved.



21: 2022/06459. 22: 2022/06/10. 43: 2022/08/19 51: A61K

71: Shenzhen Institute of Geriatrics, Wu Zhengzhi 72: Wu Zhengzhi, Liang Shaoyu, Li Yan, Wang Mengxia, Zhang Miao, Liu Jieren, Li Ziwen

54: A PRECISE MEDICATED DIET PRODUCT FOR RHEUMATOID ARTHRITIS AND A PREPARATION METHOD THEREOF

00: -

The invention provides a precise medicated diet product for rheumatoid arthritis and a preparation method thereof. The product consists of the following substances in parts by mass: 1-20 parts of Symphytum officinale L., 1-15 parts of horseradish tree leaves, 1-15 parts of leaf of Lindera aggregata Kosterm, 1-15 parts of Flos Sophorae Immaturus, 1-15 parts of Cirsium arvense var. integrifolium, 1-15 parts of Carica papaya L., 1-20 parts of Coix lacryma-jobi L. seed, 1-15 parts of Zaocys dhumnades, 1-15 parts of Portulaca oleracea L., 1-10 parts of Cinnamomum cassia Presl, 1-10 parts of Glycyrrhiza uralensis Fisch., 0.1-1 parts of chitosan oligosaccharide, 0.1-1.0 parts of hyaluronic acid. The product of the invention is a precise medicinefood homologous product with clear main medicinal ingredients and relatively clear action targets, which can well meet the clinical needs of anti-rheumatoid arthritis and people's needs, and can effectively treat rheumatoid arthritis. In the process of clinical observation, no adverse side effects are found in the product.



21: 2022/06460. 22: 2022/06/10. 43: 2022/08/19 51: A23L

71: Shenzhen Institute of Geriatrics, Wu Zhengzhi
72: Wu Zhengzhi, Zeng Yongchang, Wang Mengxia,
Zhang Miao, Liu Jieren, Wu Junhong, Li Ziwen
54: A PRECISE MEDICATIVE DIET FOR FOOD
THERAPY FOR PREVENTING AND TREATING

FUNCTIONAL DYSPEPSIA AND ITS PREPARATION METHOD

00: -

At present, there is no medicinal and edible product for preventing functional dyspepsia, so the invention provides a precise medicative diet for food therapy to prevent and treat functional dyspepsia. At the same time, the invention also put forward a preparation method for the product. The product consists of the following ingredients: 1-20 parts of Rosa roxburghii Tratt., 1-15 parts of Phyllanthus emblica Linn., 1-15 parts of Dioscorea opposita Thunb., 1-15 parts of Semen Raphani, 1-15 parts of Crataegus pinnatifida Bge., 1-15 parts of malt, 1-5 parts of Endothelium Corneum Gigeriae galli., 1-15 parts of Amomum villosum Lour., 1-10 parts of stachyos, 0.5-5 parts of mannose oligosaccharides. The invention is mainly used for treating various functional dyspepsia, and it has significant effects of promoting digestion and resolving food stagnation, increasing gastrointestinal peristalsis, improving gastrointestinal function, resisting inflammation and repairing gastric mucosa damage and improving immunity. Besides, the invention can increase intestinal smooth muscle peristalsis and regulate microecological flora balance. The invention effectively retains the effective ingredients of the compound prescription, and makes it into a suitable dosage form or food form to meet the market demands for related products.





71: China Construction Fifth Engineering Division Corp., Ltd, Qingdao University of Technology

72: LEI, Jun, SHI, Qimeng, PENG, Bin, KUANG, Lijun, LUO, Weiting, YANG, Zihan, CHEN, Ze, LIU, Hao, YU, Guangming

54: EVALUATION METHOD OF TUNNELING SPEEDS OF TBM-EPB SHIELD MACHINES BASED ON GA-BP NEURAL NETWORK 00: -

The present invention disclosed an evaluation method of tunneling speeds of TBM-EPB shield machines based on GA-BP neural network; actual data from a section from Liuxiandong Station to an air shaft between Liuxiandong Station to the Baimang Station of Shenzhen Metro Line 13 during tunnel construction are taken as research objects; the sample data are divided into a training set and a testing set; a software Matlab, a programming and numeric computing platform, is used as a development platform; thrusts, cutterhead torques, cutterhead rotation speeds and grouting amount are selected as neurons of an input layer and the tunneling speeds of the shield machines as neurons of an output layer; the sample data in TBM and EPB shield construction modes are trained and tested respectively until test errors meet termination conditions, so that a best prediction model is obtained; the present invention has advantages that the errors of an optimized prediction model are small, and accuracy of evaluation on the shield tunneling speeds can be improved.

Determining structure of BP Calculating fitness neural network Initializing the BP neural network weights and thresholds Selecting chromosomes suitable for replication Getting the best weight and threshold Selection Testing errors Intersection Assigning the obtained optimal weight and threshold to the newly created BP neural Variation Ň l network New population Are conditions met? Are termination conditions met? Prediction simulation

21: 2022/06462. 22: 2022/06/10. 43: 2022/08/19

51: G01H

71: China Construction Fifth Engineering Division Corp., Ltd, Qingdao University of Technology, Qingdao Metro Line 1 Co., Ltd.
72: YU, Guangming, BAI, Yinqiu, HONG, Yong, PENG, Bin, XU, Zhen, XUN, Chao, KUANG, Lijun,

LUO, Weiting, ZHANG, Penghui 54: EVALUATION METHOD OF BUILDING DAMAGES CAUSED BY SYNERGISM OF DISTURBANCE STRESSES IN SHIELD TUNNELING

00: -

The present invention discloses an evaluation method of building damages caused by synergism of disturbance stresses in shield tunneling, wherein deflection ratios, settlement gradients, horizontal strains, settlement values and inclination values of building structures are sorted and calculated, and damage grades of the buildings are obtained according to evaluation standards; and this method can effectively evaluate the buildings damaged by the disturbance stresses, guide projects to avoid construction risks and ensure safety of personnel.



21: 2022/06465. 22: 2022/06/10. 43: 2022/08/19

51: G01S

71: INSTITUTE OF OCEANOGRAPHIC INSTRUMENTATION, SHANDONG ACADEMY OF SCIENCES

72: LI, Yunzhou, WANG, Juncheng, WANG, Zhongqiu, WANG, Dongming, QI, Suiping 54: ULTRA-SHORT BASELINE UNDERWATER ACOUSTIC POSITIONING SYSTEM FOR SIMULATION BASED ON DIGITIZED MODELS AND DEBUGGING METHOD 00: -

The present invention discloses an ultra-short baseline underwater acoustic positioning system for simulation based on digitized models and a debugging method. The positioning system is used for positioning a ship and is characterized by including a digitized GPS model providing GPS positioning data for the ship; a digitized gyrocompass model providing gyrocompass data of the ship to correct a positioning result of the ship; and a digitized MRU model providing pitch and roll parameters of the ship to correct the positioning result of the ship. According to the present invention, environmental parameter data may be respectively provided for a positioning process based on the digitized GPS model, gyrocompass model and MRU model, thereby facilitating simulation of the positioning process and analysis under various environmental conditions and achieving high flexibility; and actual sensors are avoided from being used, and thus, the hardware input cost is reduced.



21: 2022/06466. 22: 2022/06/10. 43: 2022/08/19 51: A23N; B01J 71: Wuhu Tingyou Electromechanical Technology

Co., Ltd. 72: NI, Jinting

54: CONDITIONING DEVICE FOR AQUATIC FEED PRODUCTION

00: -

The present invention relates to the technical field of feed production, in particular to a conditioning device for aquatic feed production. An output end of a feeding device is arranged towards a top end of a rack. A stirring device is arranged in a middle of the feeding device in a vertical state. A steam generation assembly is fixedly arranged on a lateral side of the top end of the rack. A water supply device is arranged on the lateral side of the rack in a vertical state and used for inputting a quantitative water source into the stirring device. A discharging device is arranged on a lateral side of the stirring device and used for discharging stirred feed in the stirring device. According to the device, the feed can sufficiently absorb heat and water when uniformly stirred, and accordingly conditioning work can be better completed.



- 21: 2022/06469. 22: 2022/06/10. 43: 2022/08/19 51: A01C; C05G
- 71: Research Institute of Sand Control and Utilization
- 72: YU, Shutao, YU, Guoqing, DONG, Jingchao, YIN, Yechao, ZHOU, Wenyu, WANG, Lifu, REN,

Liang, YOU, Shuli, WANG, Haixin, SHI, Puxiang, PEI, Likai, XU, Qianhui

33: CN 31: 202210201340.5 32: 2022-03-03 54: FOLIAR FERTILIZER FOR REDUCING CADMIUM CONTENT IN PEANUT, PREPARATION METHOD AND USE THEREOF 00: -

The present disclosure belongs to the technical field of agricultural fertilizer preparation, and particularly relates to a foliar fertilizer for reducing a cadmium content in peanut, a preparation method and use thereof. The foliar fertilizer for reducing a cadmium content in peanut provided by the present disclosure includes the following components: 12-14 parts by weight of zinc sulfate, 3-3.5 parts by weight of potassium dihydrogen phosphate, and 3-3.5 parts by weight of brown sugar. The foliar fertilizer provided by the present disclosure can effectively reduce cadmium content in peanut kernels; moreover, the foliar fertilizer features low cost and simple operation and has no negative influence on farmland environment.



21: 2022/06476. 22: 2022/06/10. 43: 2022/08/19 51: G01B

71: Institute of Water Resources for Pastoral Area, MWR

72: ZHANG, Ruiqiang, ABIYASI, ZHANG, Fei, LIU, Hu, LI, Jinrong, RONG, Hao, MIAO, Henglu, DONG,

Lei, CHENG, Bo

54: BARBED WIND EROSION DRILL ROD WITH LEVELING FUNCTION 00: -

The present invention belongs to the technical field of wind erosion amount monitoring instruments, and particularly relates to a barbed wind erosion drill rod with leveling function including: a lower drill stem arranged vertically, wherein the bottom of the lower drill stem is arranged in a conical shape, and several barbs are arranged on the peripheral wall of the lower drill stem circumferentially; an upper drill stem arranged vertically, wherein a lower end face of the upper drill stem is fixedly connected to an upper end face of the lower drill stem, a scale is arranged from bottom to top on the upper drill stem, a cross bar is arranged at a lower portion of the upper drill stem, and the cross bar is arranged horizontally.



21: 2022/06503. 22: 2022/06/13. 43: 2022/08/18 51: A23L

71: Shenzhen Institute of Geriatrics, Wu Zhengzhi 72: Liu Jieren, Wu Zhengzhi, Zeng Yongchang, Liang Shaoyu, Li Yan, Wang Mengxia, Li Ziwen

54: A PRECISE MEDICATED DIET AND FOOD THERAPY PRODUCT FOR CHRONIC HEPATITIS AND A PREPARATION METHOD THEREOF 00: -

The existing drug treatment is difficult to completely eliminate the virus, so there is an urgent need for new anti-chronic hepatitis drugs to be developed and marketed. The invention provides a precise medicated diet and food therapy product for chronic hepatitis and a preparation method thereof, which can effectively treat various types of chronic hepatitis. The precise medicated diet and food therapy product for chronic hepatitis of the invention is composed of the following substances in parts by mass: 1-10 parts of leaf of Hippophae rhamnoides Linn., 1-18 parts of Cichorium intybus L., 1-12 parts of Cirsiumsetosum(Willd.)MB., 1-10 parts of Flos Sophorae Immaturus, 1-10 parts of leaf of Lindera aggregata(Sims.)Kosterm., 1-10 parts of Arctium lappa L.root, 1-10 parts of Cynanchum bungei Decne., 1-12 parts of Lycium chinense Miller seed, 1-9 parts of Phyllanthus emblica Linn., 1-12 parts of Prunus mume(Sieb.)Sieb.etZuce. seed, 1-5 parts of mannose oligosaccharidesarides. According to the pathogenesis characteristics of chronic hepatitis, combined with years of clinical medication experience, the invention forms an effective prescription and preparation for resisting chronic hepatitis, and achieves the functions of protecting liver and resisting hepatic fibrosis by clearing away dampness and heat, detoxifying and activating blood, invigorating spleen and nourishing liver.



21: 2022/06504. 22: 2022/06/13. 43: 2022/08/19 51: A01G; G06T; H04S; C40B

71: Institute of Urban Environment, Chinese Academy of Sciences 72: YE, Hong, BAI, Yujia 33: CN 31: 202210201916.8 32: 2022-03-03 54: DETERMINATION METHOD AND DETERMINATION SYSTEM OF THREE-DIMENSIONAL (3D) LANDSCAPE INDEX OF GREEN SPACE 00: -

Disclosed is a determination method and system of a three-dimensional landscape index of a green space, and relates to fields of landscape ecology, physics, and geography. The method includes: implementing three-dimensional grid partition on three-dimensional space of target green space, and obtaining three-dimensional space grids; determining landscape type of each unit grid in three-dimensional space girds as attribute of unit grid, wherein the landscape type at least includes green space; determining adjacent unit grids with the same attribute of unit grid as patches with the same attribute; calculating volume index, landscape shape index, and three-dimensional contagion index of the patch, where volume index, landscape shape index, and three-dimensional contagion index are used for determining three-dimensional-space distribution and pattern characteristics of urban green space. The method and the system can provide support of landscape index for analysis on three-dimensionalspace distribution and pattern characteristics of urban green space.



21: 2022/06505. 22: 2022/06/13. 43: 2022/08/18

51: B01F

71: Anhui University of Technology, Municipal Environmental Protection Engineering Co., Ltd of CREC Shanghai group

72: Ding Lei, Yin jinming, Jiang xingquan, Zhao baoyu, Li Yan

54: CONSTANT TEMPERATURE WATER BATH COAGULATION TEST AGITATOR 00: -

This invention provides constant temperature water bath coagulation test agitator, belonging to the technical field of chemical industry and environmental protection, the stirrer consists of a box body, a coagulation control display screen, a stirring impeller, a water bath pot, a electric heating tube and a constant temperature control display screen, wherein the coagulation control display screen is arranged in the upper middle of the box body, the stirring impeller is arranged in the box body, a water bath pot is arranged on the base of the box body, a plurality of electric heating tube are arranged in the water bath pot, and a constant temperature control display screen is arranged in the right part of the water bath pot, the water bath pot and the box body are molded as a whole. The invention is suitable for the fields of water supply and drainage, chemical industry, environmental protection, wastewater treatment, etc. to do coagulation, stirring, sedimentation and other experiments. It can not only control the stirring speed, stirring time, but also control the stirring temperature. The utility model can keep the temperature at a certain temperature required by the experiment to meet the requirements of highprecision stirring.



- 21: 2022/06506. 22: 2022/06/13. 43: 2022/08/19
- 51: F28D
- 71: Sugian University

72: Tang, Liang, Wang, Hongxia, Bian, Li, Li, Xinxing

54: HEIGHT ADJUSTABLE HEAT DISSIPATION APPARATUS 00: -

A height adjustable heat dissipation apparatus comprises a parallelepiped casing (2) attached to a PC (1) and including two opposite openings (211) on two surfaces respectively, and a filter (212) disposed on one opening (211) proximate the PC (1); a cooling device (3) disposed in the casing (2) and including a fan (31) for drawing air into the PC (1) through the other opening (211) and the filter (212); and a plurality of height adjustment devices (4) disposed on the casing (2) and secured to the cooling device (3).


21: 2022/06508. 22: 2022/06/13. 43: 2022/08/19 51: B21F

71: CHINA STATE CONSTRUCTION ZHONGXIN CONSTRUCTION ENGINEERING CO.,LTD 72: LIU, Qianqian, WANG, Jun, LIU, Pingji, LI, Jianguo, NIU, Xunlong, YU, Tao 54: STABILIZATION AUXILIARY DEVICE FOR STEEL BAR CUTTER

00: -

The invention provides a stabilization auxiliary device for a steel bar cutter. The stabilization auxiliary device includes steel plate bases; two groups of steel plate bases are provided for being connected with a moving plate through sliding mechanisms; a cross rod is welded between end parts of the two groups of steel plate bases and is in threaded connection with a first screw rod; one end of the first screw rod is rotatably connected to the moving plate, above which an angle iron plate is arranged; one end of the angle iron plate is connected to one end of the moving plate through an adjustment mechanism; the other end of the angle iron plate is connected to the other end of the moving plate through a fixing mechanism; and an upper surface of the angle iron plate is symmetrically provided with two groups of limiting plates.



21: 2022/06509. 22: 2022/06/13. 43: 2022/08/19 51: C02F

71: Institute of Hydrogeology and Environmental Geology, Chinese Academy of Geological Sciences, Shijiazhuang, School of Environmental Studies, China University of Geosciences 72: Liu Lingxia, Wang Wenzhong, Qi Shihua 54: PURIFICATION DEVICE FOR GROUNDWATER CIRCULATION WELL AND USAGE METHOD 00: -

The present invention relates to the field of groundwater purification, and specifically to a purification device for a groundwater circulation well, comprising a water well, wherein a well pipe is movably mounted inside the water well, and an upper screen plate is provided at the upper portion of the well pipe. The purification device for a groundwater circulation well is composed of a filtering mechanism, a cleaning mechanism and a medicine dispensing mechanism. A usage method comprises: starting a motor, and enabling the driving gear and the driven gear to rotate with the support sleeve, so that the two support rods rotate with the guide wheels and are pressed against the surface of the adjustment plates, and two adjacent adjustment plates move back to back and respectively sweep the surfaces of the upper screen plate and the lower screen plate by means of the brush plate, improving usage effect of the upper screen plate and the lower screen plate, and avoiding affecting the flow of groundwater; when the support sleeve rotates, the transmission blocks rotate synchronously with a limiting block, and enabling a filtering pipe on the

mount ring rotates inside a well pipe, so that the filtering pipe can effectively filter well water inside the well pipe, having a better filtering effect than that of a straight-inserted filtering pipe.



21: 2022/06510. 22: 2022/06/13. 43: 2022/08/19 51: A23L

71: Institute of Sericulture and Agro-products Processing, Guangdong Academy of Agricultural Sciences

72: Wang XuPing, Chen ZhiYi, Tang DaoBang, Lin YaoSheng, Liu XueMing, Zou JinHao, Cheng JingRong, Yang HuaiGu

54: METHOD FOR IMPROVING GEL CHARACTERISTICS OF LOW-SALT MINCED MEAT BY MEANS OF STRAW MUSHROOM LIPOXYGENASE

00: -

Disclosed in the present invention is a method for improving gel characteristics of low-salt minced meat by means of straw mushroom lipoxygenase. The method for improving gel characteristics of low-salt minced meat comprises: (1) mincing pork meat from which visible connective tissues and fats are removed into minced meat, and adding 1 to 1.5% table salt and 0.2 to 0.3% complex phosphate by weight of the minced meat; (2) preparing 3% ice water by weight of the minced meat, dividing the ice water into 3 equal parts, adding the ice water into minced meat in three times, and after the first addition of the ice water, chopping the mixture for 1 to 3 min; (3) during the second addition of the ice water, adding 12 to 24 U/g meat of straw mushroom lipoxygenase and 30 g of sunflower seed oil, and chopping the mixture for 1 to 3 min; and (4) after the third addition of the ice water, and chopping the mixture for 1 to 3 min. In the present invention, the method for improving flavor and gel quality of a lowsalt minced meat by means of straw mushroom lipoxygenase enables gel characteristics of low-salt (1.5%) minced meat products, such as gel strength, stickiness, chewability and recoverability, to reach the level of high-salt (2.5%) minced meat products.



21: 2022/06512. 22: 2022/06/13. 43: 2022/08/19 51: C09D

71: Qingdao Huanghai University

72: WANG, Na, CHANG, Xuemin, KONG, Fanna, SHEN, Yongkang, WU, Xiuwen
33: CN 31: CN202210398482.5 32: 2022-04-15
54: ANTI-WHITENING STORE-LIKE PAINT FOR

EXTERIOR WALLS AND ITS PREPARATION METHOD

00: -

Disclosed is an anti-whitening stone-like paint for exterior walls. The stone-like paint is prepared from the following raw materials by weight: 300 to 350 parts of a base material, 600 to 700 parts of quartz sand, 70 to 80 parts of rock flakes, 2 to 4 parts of a defoamer, and 2 to 4 parts of a bactericide. The base material is prepared form the following raw materials by weight: 250 to 350 parts of water, 3 to 7 parts of silica sol, 0.01 to 0.05 parts of y-glycidyl ether oxypropyltrimethoxysilane, 600 to 800 parts of a silicone-acrylic emulsion, 30 to 40 parts of a filmforming aid, 2 to 10 parts of a dispersant, 10 to 12 parts of a defoamer, 2 to 4 parts of hydroxypropyl methylcellulose ether, 0.5 to 2 parts of a pH adjuster,

15 to 20 parts of propylene glycol, 8 to 10 parts of a thickener, and 10 to 12 parts of a bactericide. According to the present invention, through the use of the silicone-acrylic emulsion and silica sol, as well as the synergistic cooperation of the above raw materials, the film-forming aid alcohol ester-12, a specific dispersant, a defoamer, and the like, the prepared stone-like paint for exterior walls has excellent anti-whitening performance, as well as good adhesion and weather resistance, and the like.

21: 2022/06514. 22: 2022/06/13. 43: 2022/08/19 51: E21B; E21F; G06F

71: Shandong Gold Mining Co., Ltd.

72: HAO, Yingjie, PEI, Dianfei, ZHU, Mingde, LIU, Pengbo, WANG, Chenglong, LIU, Huanxin, PENG, Chao, LI, Guilin, HOU, Kuikui, WANG, Chunlong, YIN, Yantian, CHENG, Li, JIANG, Mingwei, ZHANG, Haoqin

54: UPWARD HORIZONTAL SLICING ALONG-STRIKE DRIFT STEP-BY-STEP MINING METHOD 00: -

The present disclosure relates to an upward horizontal slicing along-strike drift step-by-step mining method. The method of the present disclosure can take the production efficiency, cost, safety, etc. into account, has the advantages of being high in stoping efficiency, low in cost, high in safety, etc., and solves the problem that a mining method for gentle dip thin ore bodies in the prior art cannot simultaneously take the above effects into account.



21: 2022/06515. 22: 2022/06/13. 43: 2022/08/19 51: A01C

71: Chongqing Medical and Pharmaceutical College 72: Xiang Xiao, Yu Deng, Xia Wu, Jing Peng, Feng Liu, Yuanhui Cheng

54: TROUSERS FOR LOWER LIMB REHABILITATION OF CHILD WITH CEREBRAL PALSY

00: -

The utility model provides trousers for lower limb rehabilitation of a child with cerebral palsy. The trousers comprise a trousers body and foot straps connected with the trousers body into a whole, a plurality of balls for massaging soles are arranged in the foot straps, and are right opposite to Yongquan acupoints of the human body, the trousers body is made of elastic fabric, heaters are arranged on inner thighs and lateral ankles of the trousers body respectively, and magnetic knee joint correcting devices with the same polarity are arranged on the inner sides, located on two knee joints, of the trousers body respectively. The trousers are comfortable and convenient to wear; and the trousers can simultaneously inhibit abnormal gaits of the child in terms of feet, knees and legs.



21: 2022/06516. 22: 2022/06/13. 43: 2022/08/19 51: A01C

71: Chongqing Medical and Pharmaceutical College 72: Xiang Xiao, Hao Yan, Manxin Wang, Yuanjuan Yang, Yuanhui Cheng, Yu Deng, Feng Liu 54: FUNCTIONAL POSTPARTUM BED 00: -

The utility model provides a functional postpartum bed, comprising a bed frame and a bed body. The bed body sequentially comprises a headboard, a movable bed board and a footboard from front to back, and the movable bed board is right opposite to hips; the bed further comprises an excretion bed board located under the footboard, and a closestool with a hip washing function is arranged in the middle of the excretion bed board; sliding rails located below the bed board and extending front and back

are arranged on the left and right sides of the bed frame, a movable base connected into the sliding rails is arranged below the bed body, both the movable bed board and the excretion bed board are fixed to the movable base, and a horizontal cylinder for pushing the movable base front and back is arranged on the bed frame; and vertically-arranged guide rods are arranged at the bottoms of the movable bed board and the excretion bed board, guide holes allowing the guide rods to penetrate are formed in the movable base, pushing cylinders are further fixedly arranged at the bottom of the bed, and a pushing button and a switching button for driving the pushing cylinders and the horizontal cylinder respectively are arranged on the headboard. The inconvenience and embarrassment of postpartum lochia washing and defecation of a puerpera can be solved, sanitation can be kept, and puerperal infection can be prevented.



21: 2022/06517. 22: 2022/06/13. 43: 2022/08/19 51: G01S

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PALWE, Sushila Manish 72: PALWE, Sushila Manish 54: A FLYING POTHOLE SURVEILLANCE SYSTEM

00: -

Intelligent systems are used in a variety of sectors like Agriculture, Education, Healthcare, Banking and many more. Intelligent system works better in the environment where human out-reach is a big problem. Transportation is one of the major fields where the Intelligent System can make a big revolution. Roadways are the most important way of Transportation. Roadways experience is highly impacted by the bad situation of Roads with Road holes. Roadway situations are leading to accidents, health issues, injuries and in a way disturbing normal human welfare. Many attempts the government is doing to make the situation better, but due to very big and complex connection of roadways it is being difficult to observe, understand and react for remedy for this situation. There is a need to develop an intelligent system to observe and ensure the wellbeing of roadways. It will play an important role in saving the life of people who are an inseparable part of the existing ecosystem. This invention is a Smart Intelligent Drone Based Pothole detection and Registration system to track the roadway situation and register the details in real-time data storage.



21: 2022/06519. 22: 2022/06/13. 43: 2022/08/19 51: G05D

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PAWAR, Rajendra, DIXIT, Bharati

72: PAWAR, Rajendra, DIXIT, Bharati, JADHAV, Pranit, IKHAR, Aaryan, JADHAV, Krutika 54: AN UNMANNED AERIAL VEHICLE FOR HIGH-END PRECISION AGRICULTURE USING AUTOPILOT TECHNOLOGY 00: -

The UAV will be equipped with storage and spraying equipment, which will be used to spray various pesticides in the proper pattern across a given crop. With changes in topography and geography, distance-measuring devices such as ultrasonic echoes and lasers can modify altitude. They can spray the correct amount of liquid evenly in real time because of their ability to monitor and control their distance from the ground. According to the criteria, the UAV's controller, which is made up of small microcontrollers, can carry out manual and autonomous missions. The satellite is used to calibrate the GPS. The octocopter is substantially more stable and controllable because to the connection between the UAV and the satellite.

Waypoint missions are carried out using Mission Planner software, which allows a single person to select destinations using Google Maps, giving us a wide range of control over the UAV. Farm workers are less exposed to harmful pesticides. Optimum use of pesticides will results into high yield. Retention of soil quality due accurate use of pesticides. Good quality crops can improve agriculture export share of the country. Appropriate use of pesticides minimizes impact on human health.



21: 2022/06528. 22: 2022/06/13. 43: 2022/08/19 51: G06F

71: JINING ANTAI MINING EQUIPMENT MANUFACTURING CO., LTD.

72: LI, Zhiyuan, CHAI, Chunmiao, LI, Mengmeng, HAO, Fuhe, XUE, Mei, GUO, Suying, ZHANG, Liu 33: CN 31: 202010980676.7 32: 2020-09-17 54: PUMP PERFORMANCE DATA TREATMENT AND MANAGEMENT SYSTEM AND MANAGEMENT METHOD 00: -

A pump performance treatment and management system, comprises a storage unit, a processing unit and sub-ends; wherein the storage unit is configured to store data and information received from the subends; the processing unit is configured to receive data and information from the sub-ends, summarize, analyze, integrate and classify the data and information, and output the data via the sub-ends or store the data in the storage unit; the sub-ends are configured to receive inputs of original information and output and show processed data; in this way, resources are fully used and shared; by introduction of big data, architecture of decomposed modules and functions is realized and a pump performance analysis and order treatment model with big data is built; so that the data can be shown quickly and easily; in the meanwhile, instant communication is established among the modules, with an instruction

ordering and selection can be done and real data can be transmitted in real time to clients.



21: 2022/06602. 22: 2022/06/15. 43: 2022/07/25 51: F03D

71: Dr. Pallavi Khatri, Sumit Sah, Dr. Animesh Kumar Agrawal, Geetanjali Surange, Nidhi Dandotiya, Dr. Vaishali Joshi, Abhinandan Singh Dandotiya, Monika Dandotiya 72: Dr. Pallavi Khatri, Sumit Sah, Dr. Animesh Kumar Agrawal, Geetanjali Surange, Nidhi Dandotiya, Dr. Vaishali Joshi, Abhinandan Singh

Dandotiya, Monika Dandotiya 54: A DATA ACQUISITION SYSTEM AND A METHOD THEREOF

00: -

A Data Acquisition System (100) and a method, comprises of a plurality of phases that comprises of: a first phase (102) for setting up of a device, wherein the device is set up by loading and downloading a plurality of data onto a memory; a second phase (104) for extracting digital data from a memory module by a physical acquisition technique while maintaining integrity of data, wherein a disk dump (dd) image of the device is taken for analysis; and a third phase (106) for analysing the created dd image, wherein the dd image of a disk partition path of the device is analysed to retrieve atleast a current data, and a deleted data from the device, wherein the dd image file is analysed using a forensic approach, wherein the deleted data is recovered using a header, a footer, a data structure of the file by a carving technique.



21: 2022/06604. 22: 2022/06/15. 43: 2022/07/25 51: C05F; C05G

- 51: CUSF; CUSG
- 71: Guizhou University

72: YAN, Jianmin, YUE, Jiang, YAN, Changjian, WANG, Qi, PAN, Hangjie, ZHANG, Chaozhong, JIANG, Zeyi, JIANG, Haohao, GUI, Nanqing, XU, Qiong, YU, Keping, HUANG, Jinxiu, TIAN, Huishu 54: SOILLESS CULTURE SUBSTRATE FOR MELON AND FRUIT VEGETABLES AND APPLICATION THEREOF

00: -

The present invention provides a soilless culture substrate for melon and fruit vegetables and an application thereof, and belongs to the technical field of soilless cultivation of melon and fruit vegetables. The soilless culture substrate for melon and fruit vegetables provided by the present invention includes the following raw materials based on parts by weight: 40-50 parts of chlorella pyrenoidosa, 9-14 parts of biological bacteria, 50-70 parts of straw, 2-6 parts of panax notoginseng, 3-7 parts of pueraria, 30-40 parts of animal manure, and 30-40 parts of bean pulp. The soilless culture substrate for melon and fruit vegetables of the present invention can improve the yield and guality of melon and fruit vegetables, and enhance the resistance of melon and fruit vegetables to insect pests and diseases in a cultivation process, so that high-yield and highquality melon and fruit vegetables can be obtained without application of pesticides.

21: 2022/06605. 22: 2022/06/15. 43: 2022/07/25 51: A23N

71: Hainan Tropical Ocean University

72: Feng Suping, Yao Yi, Zhou Nana, Wang Yujie, Wang Gang, Xue Changfeng, Pei Zhisheng 54: ELECTRIC PEANUT SHELLER 00: -

The present invention relates to the technical field of peanut shellers, and discloses an electric peanut sheller comprising a feeding port. Peanuts introduced from the feeding port roll on an elastic pad, and at this time, a pressing plate is driven by a crushing motor to move left and right circularly, and the peanuts are crushed and also conveyed to the right, thereby having a higher sheeling efficiency; a pressing cap is provided below an elastic pad, and the pressing cap is connected to an upright column by means of a first spring, when the peanuts are pressed by the pressing plate, the pressing cap can be lowered by adapting to the pressure of the pressing plate, thereby preventing peanut kernels from being crushing due to excessive extrusion pressure; the peanut kernels and peanut shells rolled from a transverse plate fall on a frame rod, and at this time, the frame rod is driven by a vibration motor to vibrate continuously, so that flat peanut shells fall from a gap between the frame rod and is discharged from an slag outlet, while oval peanut kernels will not fall from the gap between the frame rod, but will move along the frame rod and finally be discharged from a discharging port, thereby completing the separation of peanut shells and peanut kernels, and having a better separation effect.



- 21: 2022/06606. 22: 2022/06/15. 43: 2022/07/25 51: A01F
- 71: Hainan Tropical Ocean University
- 72: Feng Suping, Yao Yi, Zhou Nana, Wang Yujie, Wang Gang, Xue Changfeng, Pei Zhisheng 54: PEANUT PICKING MACHINE CAPABLE OF QUICKLY PICKING PEANUTS 00: -

The present invention relates to a peanut picking machine capable of quickly picking peanuts, comprising a base frame, feeding units and a separation unit, wherein each feeding unit is

respectively provided on the front and rear ends of the base frame, and the separation unit is provided on the inner wall of the lower end of the base frame. The present invention, by means of reciprocal feeding and crushing and multiple times of crushing of the peanut connected to the branches, solves a series of problems, such as the fact: the collected peanuts have branches and leaves attached to them, thereby reducing the packing capacity of peanuts, and increasing the cost due to the increase of the number of pockets for collecting peanuts; and the peanuts tend to fall off the ground when changing pocket, thereby causing a certain loss.



21: 2022/06607. 22: 2022/06/15. 43: 2022/07/25 51: A01G; C05F; C05G

71: Guizhou University

72: YAN, Jianmin, WANG, Qi, YAN, Changjian, YUE, Jiang, PAN, Hangjie, ZHANG, Chaozhong, JIANG, Zeyi, JIANG, Haohao, GUI, Nanqing, XU, Qiong, YU, Keping, HUANG, Jinxiu, TIAN, Huishu 54: SOILLESS CULTURE SUBSTRATE FOR LEAFY VEGETABLES AND APPLICATION THEREOF

00: -

Provided are a soilless culture substrate for leafy vegetables and an application thereof. The soilless culture substrate for leafy vegetables includes the following materials based on parts by weight: 20-30 parts of straw, 40-50 parts of chicken manure, 20-28

parts of mushroom residue, 35-45 parts of bean pulp, 3-6 parts of bacillus subtilis, 4-8 parts of saccharomycete, 4-5 parts of clove, and 6-8 parts of liquorice. High-yield and high-quality leafy vegetables can be obtained by cultivating the leafy vegetables with the soilless culture substrate of the present invention. Crop wastes and animal manure are taken as raw materials, and traditional Chinese medicine ingredients and beneficial bacteria are added to ferment together. The prepared soilless culture substrate can effectively reduce diseases and insect pests of leafy vegetables, and improve the resistance of leafy vegetables to diseases and insect pests, so that high-yield and high-quality leafy vegetables can be obtained.

21: 2022/06608. 22: 2022/06/15. 43: 2022/07/25 51: A61H

71: Luoyang Orthopedic-Traumatological Hospital Of Henan Province (Henan Provincial Orthopedic Hospital)

72: ZHAO, Dongliang, CAO, Xiangyang, CHEN, Haoyu, XIA, Hougang, MAO, Zhibang, LI, Na 54: KNEE JOINT REHABILITATION APPARATUS 00: -

A knee rehabilitation apparatus comprises: a seat provided with a backrest and a seat plate; a first movement mechanism and a first angle adjustment mechanism connected to the backrest, the backrest being rotatably connected to the seat plate via the first angle adjustment mechanism, and the first movement mechanism being used to move the backrest in a horizontal direction; a second angle adjustment mechanism and a calf support connected to the seat plate, the calf support being rotatably connected to the seat plate via the second angle adjustment mechanism, and the calf support being used for supporting a patient's calf; and a second movement mechanism and a leg pad mechanism connected to the calf support, the leg pad mechanism being movable on the calf support via the second movement mechanism, and the leg pad mechanism being used for restraining the patient's calf.



21: 2022/06609. 22: 2022/06/15. 43: 2022/07/25 51: G06Q

71: XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY CHINESE ACADEMY OF SCIENCES 72: FANG Gonghuan, LI Zhi, LIANG Wenting 54: A CALCULATION METHOD OF GLACIER MELTING WATER IN ARID AREA CONSIDERING GLACIER DYNAMIC CHANGES 00: -

The invention discloses a calculation method of glacial melt water of rivers in arid areas considering the dynamic changes of glaciers, and relates to the field of hydrology, comprising the following steps: obtaining the glacier areas of all glaciers in a watershed; According to the proportion of glacier volume to area, calculate the glacier volume; The glacier area and glacier volume are allocated to each sub-basin of the watershed, and the total glacier coverage area and glacier volume of each sub-basin are calculated. According to the latitude and longitude of the basin and sunshine hours, the amount of solar radiation in the basin is calculated. Acquiring meteorological data in and around the watershed, and interpolating the meteorological data into subbasins according to the Thiessen polygon method to obtain meteorological conditions in each subbasin; Calculate the glacier surface temperature on the day of melting ice; Calculate the melting amount of glaciers in each sub-basin based on the ice surface temperature and solar radiation, so as to realize the calculation of glacial melt water in arid areas.



- 21: 2022/06610. 22: 2022/06/15. 43: 2022/07/25 51: B01D
- 71: CHUZHOU UNIVERSITY

72: CHEN Gangling, ZHANG Jianying, MA Tianlin, ZHENG Jiandong, CHEN Yaxi

54: ZEOLITE MEMBRANE SUPPORT AND PREPARATION METHOD THEREOF 00: -

The invention discloses a zeolite membrane support and a preparation method thereof, belonging to the technical field of membrane material preparation. The zeolite membrane support prepared by the invention has excellent pore structure, the average pore diameter is 0.1-2 micron, the porosity is 25-50 percent, and the mechanical strength is 20-40 MPa.



21: 2022/06611. 22: 2022/06/15. 43: 2022/07/25 51: H02K

71: Taiyuan University of Science and Technology 72: LI Yongchao, YUAN Yuan, HAN Xiaoli, ZHOU Lidong

54: STATOR SEGMENTED DISLOCATION TYPE OUTER ROTOR DIRECT-DRIVE PERMANENT MAGNET MOTOR FOR BELT CONVEYOR 00: -

The invention belongs to the technical field of permanent magnet motors, and in particular to a

stator segmented dislocation type outer rotor directdrive permanent magnet motor for belt conveyor, which comprises a drum, hubs and an axial straightthrough water cooling system, wherein the two ends of the drum are provided with hubs, the drum is internally provided with an outer rotor and an inner stator, the inner stator is composed of inner stator modules axially distributed along a stator fixing shaft, and there are at least two inner stator modules; the inner stator modules are composed of salient poles distributed annularly, and the salient poles are wound with exciting windings; epoxy plates are arranged between the inner stator modules; the outer rotor is composed of outer rotor modules distributed along the axial direction in the drum. According to the invention, the purpose of restraining torque ripple and enhancing the fault-tolerant ability of the motor in the fault state is achieved by the stator segmented dislocation method, and meanwhile, the axial straight-through water cooling system can make the motor radiate heat evenly. The invention is used for mechanical equipment running at low speed, such as belt conveyors.



21: 2022/06612. 22: 2022/06/15. 43: 2022/07/26 51: A01N; A01P

71: Huaiyin Institute of Agricultural Sciences of Xuhuai Region in Jiangsu, Nanjing Agricultural University, Jiangsu Academy of Agricultural Sciences

72: CHEN, Xianghua, DUAN, Yabing, SUN, Haiyan, CAO, Kaige, LI, Meixia, CHEN, Yali, QIAN, Xin, ZHOU, Mingguo, CHEN, Huaigu, ZHOU, Changyong, LI, Chunmei, ZHU, Chunmei 54: SYNERGISTIC REDUCED PESTICIDE COMPOSITION CONTAINING ENESTROBURIN 00: -

The invention relates to a synergistic reduced pesticide composition containing enestroburin. The bactericidal composition takes phenamacril,

metconazole and enestroburin as effective components, and the weight ratio of phenamacril, metconazole and enestroburin is 1-64: 1-64: 1-64. The composition is used for preventing and treating wheat scab, wheat powdery mildew, wheat rust, cucurbits fusarium wilt, wheat sharp eyespot, rice blast and rice bakanae disease, and achieves obvious synergistic effect.

21: 2022/06613. 22: 2022/06/15. 43: 2022/07/26 51: G06F

71: HARBIN INSTITUTE OF TECHNOLOGY

72: WEI Changan, JIANG Shouda, YANG Jingli, XU Yonghui

54: UNIVERSAL PROTOCOL CONVERSION DEVICE AND METHOD 00: -

An universal protocol conversion device and method, which belongs to the technical field of virtual simulation tests, and solves the problems of low conversion efficiency and precision in the existing method of protocol conversion by software. The application comprises two JTAG interface modules, a 96-pin expansion interface module, an RJ45 interface module, an FPGA, a signal processor and a memory, the FPGA comprises a receiving buffer unit, a protocol matching module, a register module and a sending buffer unit, the protocol data input by the 96-pin expansion interface module is stored in the receiving buffer unit and sent to the protocol matching module for matching. After the protocol matching module completes the protocol matching, the result is stored in the register module, and the data of the receiving buffer unit and the information of the register area can be accessed by the signal processor through the external memory interface. The protocol is converted by the signal processor, and the conversion result is sent out. The application is particularly applied in the field of protocol conversion.



21: 2022/06614. 22: 2022/06/15. 43: 2022/07/26 51: E04B

71: Fuzhou University

72: Wu Zhaoqi, Chen Jiangyan, Zhang Kuoji, Yan Shijie

54: COLD-HEAT PROOF BRIDGE NODE FOR CANTILEVER SLAB COMPONENTS AND ITS BUILDINGS

00: -

This invention provides cold-heat proof bridge node for cantilever slab components and its buildings, wherein, the cold proof bridge node comprises a main floor slab, a balcony slab, a tension piece and a heat insulation box; The heat insulation box is arranged between the main floor slab and the balcony slab; The tension piece passes through the heat insulation box, and the two ends of the tension piece respectively extend into the main floor slab and balcony slab to be fixedly connected with them; the heat insulation box comprises a box body and a pressure piece; the box body is filled with heat insulation material for preventing heat transfer between the main floor and balcony board; the box body is provided with an installation hole; the compression piece is inserted into the installation hole and used for bearing the pressure of the main floor and balcony board. On the premise that the structure meets the requirements of safety, economy and durability, the application avoids the structural heat bridge at the balcony part, and achieves the purpose of energy saving and heat insulation.



21: 2022/06615. 22: 2022/06/15. 43: 2022/07/26 51: E01D

71: China Railway Construction 20th Group Municipal Engineering Co., Ltd., Lanzhou University of Technology

72: Yang Hong, Wan Xuelin, Wang Xiuli, Ren Dongping, Ren Meng, Wang Chao, Shen Liang, Li Jie, Zhu Yifan, Zhang Yu

54: FLEXIBLE JOINT CONNECTION STRUCTURE FOR STEEL STRUCTURE BRIDGE DECK AND CONSTRUCTION METHOD THEREOF 00: -

This invention provides flexible joint connection structure for steel structure bridge deck and construction method thereof that comprises prefabricated steel structure bridge deck, the end of the bridge deck is provided with nested convexconcave structure, a plurality of additional steel bars extending out of the end face are arranged inside the end of the bridge deck, rubber bars are sandwiched between the additional steel bars of the two bridge decks to be connected, and ECC flexible materials are filled at the joints of the two bridge decks. This invention utilizes steel fiber reinforced ECC flexible material with advanced mixing ratio, and sets simple connection device capable of resisting expansion deformation considering temperature deformation, and sets the end connection form of nested convex-concave, in order to achieve the anti-cracking goal of bridge deck. The construction method has the characteristics of simple operation, low construction cost and wide application range.



21: 2022/06616. 22: 2022/06/15. 43: 2022/07/26 51: E04G; E04H; G06F

71: Hangzhou Deda Technology Co., Ltd.

72: TANG, Mingtao, YIN, Hong, HE, Long, WANG, Donggui, ZHANG, Qihang

54: REINFORCING DEVICE AND REINFORCING EFFECT COMPUTING AND ANALYZING METHOD FOR SELF-SUPPORTING TUBULAR STRUCTURE 00: -

Provided is a reinforcing device for a self-supporting tubular structure. The reinforcing device includes multiple reinforcing members arranged along a peripheral surface of a self-supporting tube, where each reinforcing member includes a supporting rod and reinforcing rods, and adjacent reinforcing rods are in threaded connection to each other by means of a connecting member; and multiple locking devices arranged in a length direction of the selfsupporting tube, where each locking device is formed by connecting two semicircular locking hoops and is fixed on a surface of the self-supporting tube to be used for locking and positioning the reinforcing members,. Defects in the prior art are overcome, the reinforcing members are arranged in a relatively small space around the self-supporting tube, and an installation structure fixed merely by means of bolts is used during construction, so as to avoid welding and other processes required to be operated by professionals.



21: 2022/06617. 22: 2022/06/15. 43: 2022/07/26 51: E04G

71: Powerchina RoadBridge Group Co.,Ltd., Sinohydro Engineering bureau 4 Co., Ltd, Lanzhou University of Technology

72: Hu Yang, Zhang Shaowen, Shi Bin, Zhang Xiaoyong, Wang Qingfa, Wang Xiuli, Yu Zuliang, Yang Yang, Liu Chunlei, Zhang Yitao, Lv Jianwei, Bai Xiaofei, Wang Tianpeng, Shen Chaodong, Zhu Liangliang

54: UNSUPPORTED TIRE FRAME UNIVERSAL DEVICE FOR CONSTRUCTION OF SPECIAL-SHAPED SPACE TRUSS AND ITS CONSTRUCTING METHOD

00: -

This invention provides unsupported tire frame universal device for construction of special-shaped space truss and its constructing method that comprises steel plate base, steel plate top cover, spring, screw, nut and rod support bracket, wherein the steel plate base is provided with screw and spherical flange; the steel plate top cover is installed above the steel plate base through the screw and the nut; spherical groove is arranged at the position corresponding to the spherical flange on its bottom surface; the depth of the spherical groove is smaller than the height of the spherical flange; and the width of the opening of the spherical groove is larger than the straight passage of the spherical flange, a space is left between the steel plate base and the steel plate top cover, the screw between the steel plate base and the steel plate top cover is sleeved with a spring, and the steel plate top cover is fixed with a rod support bracket for supporting special-shaped truss rods. According to the invention, it solves the problem that the special-shaped truss space can be rotated and adjusted at any angle and in any

direction, and realizes a system without temporary support stands by means of the swing column members of the truss structure, furthermore, the invention reduces the construction procedures of temporary support installation and removal, lowers the construction cost, and improves the efficiency.



21: 2022/06618. 22: 2022/06/15. 43: 2022/07/26 51: B65F

71: MANIPAL UNIVERSITY JAIPUR 72: Mr. Ankit Mundra 54: NOVEL IOT BASED SOLUTION FOR

GARBAGE LEVEL DETECTION 00: -

The present invention relates to a system (100) for novel IoT based solution for garbage level detection. The system (100) comprises a waste collecting container (102) and one or more user display units (114). The waste collecting container (102) is configured to collect waste. The waste collecting container (102) comprises a plurality of sensors (104), a location detecting unit (106), a display unit (110), a battery unit (112), and a control processing unit (108). The plurality of sensors (104) is configured to detect the level of waste present in the waste-collecting container. The location detecting unit (106) is configured to detect the location of the waste-collecting container. The present invention provides a system (100) for novel IoT based solution for garbage level detection for efficiently managing the wastes to reduce the improper utilization of valuable resources like human effort, time, and cost.



21: 2022/06619. 22: 2022/06/15. 43: 2022/07/26 51: E21B

71: Inner Mongolia University of Science And Technology

72: TIAN, Bing, ZUO, Shanshan, ZHENG, Youwei, TANG, Jun

54: TECHNOLOGY FOR EVALUATING AND PREDICTING FULL LIFE CYCLE OF CLASTIC ROCK RESERVOIR 00: -

The invention relates to the technical field of oil-gas exploration and development. The invention discloses a technology for evaluating and predicting a full life cycle of a clastic rock reservoir, including the following steps: defining a boundary of a reservoir system; clarifying a spatial scale and temporal range for evaluating and predicting a reservoir; establishing a reservoir full life cycle factor inventory based on the system boundary; according to the porosity-increasing and porosity-decreasing effect, characterizing the reservoir performance effects of all factors in the system, and converting single-factor physical property effects of the inventory analysis into comprehensive physical property effects of the reservoir system; comprehensively considering and evaluating the inventory analysis and impact evaluation according to a reservoir evaluation purpose and range to form conclusions and make an explanation to the limitation; and finally putting forward suggestions

which are favorable for reservoir distribution prediction.



21: 2022/06620. 22: 2022/06/15. 43: 2022/07/26 51: B60L

71: Chongqing Boyan Industrial Design Co., Ltd. 72: Xu Zhuanyin

33: CN 31: 202111200311.9 32: 2021-10-15 54: A INTELLIGENT MOBILE BATTERY-CHANGING STATION

00: -

An intelligent mobile changing station for replacing batteries on electric vehicles. The bottom of the battery is provided with a battery edge, the bolt through the battery edge and the electric vehicle assembly; Including: change trolley, used to store full battery, no battery, lift, change the motor, and can walk through the walking wheel, to achieve fast movement; Lift machine is used for lifting electric vehicles and positioning electric vehicles through the tires of electric vehicles, which plays a benchmark role in the positioning of batteries for subsequent motor replacement; Replace the motor, used to remove the battery on the electric car, and then transported to the replacement tram for storage; The fully charged battery in the tram will be replaced. Take out, and transport to the electric car below, and then put the fully charged battery into the electric car, complete the battery change; After the battery replacement is completed, the lift will drop and reset, and then move out from under the electric car, the electric car can drive away, and then the battery of the next electric car can be replaced.



21: 2022/06621. 22: 2022/06/15. 43: 2022/07/26

51: B25J

71: Chongqing Wanchongshan Intelligent Technology Co., Ltd.

72: Liu Zhongyuan

33: CN 31: 202210136412.2 32: 2022-02-15 54: A CLEANING ROBOT AND AN INTELLIGENT CLEANING AND TRANSPORTATION SYSTEM 00: -

The invention discloses a cleaning robot and an intelligent cleaning and transportation system of building waste, which comprises a lifting seat and a walking device. The walking device is directly or indirectly installed on the lifting seat, and the walking device is used for walking; The lifting seat is also provided with an electrical frame, the internal hollow electrical frame and the top is installed with a top plate; The lifting seat is installed on the central shaft, the top of the central shaft through the top plate and the central wheel assembly, the central shaft and the lifting seat, support frame, top plate assembly, support frame is installed on the lifting seat; The central wheel is hinged with one end of the first pair of central pins, the other end of the first pair of central pins is hinged with one end of the second central rod, and the other end of the second central rod is installed on the central piece. On the central part is also provided with the central pressure block and the central part can be axially sliding suit on the sliding shaft, the two ends of the sliding shaft and the inner frame, the outer frame assembly; The inner and outer frames are installed on the top plate.



21: 2022/06623. 22: 2022/06/15. 43: 2022/07/26 51: G01B; G01N

71: Liaoning Petrochemical University, Tongda Energy Technology (Shenyang) Co., Ltd.
72: LI, Cunlei, CHEN, Panpan, WANG, Guoliang, MA, Guiyang, ZHANG, Wei, CHI, Dexia
54: DETECTION DEVICE FOR CONCENTRATION OF HYDROCARBON CONTAINED IN DRILLING LIQUID

00: -

The invention discloses a detection device for concentration of hydrocarbon contained in drilling liquid. The Raman spectrometer is applied to whiledrilling detection, which can directly detect hydrocarbon substance in drilling fluid without gasliquid separation treatment. The device has a simple overall structure and good timeliness, and can detect hydrocarbon substance in drilling fluid in real time and quickly during drilling. The invention also provides an analysis method for concentration of hydrocarbon contained in drilling liquid, which can verify the hydrocarbon detection equipment while drilling, can clearly detect the Raman spectrum of crude oil in oil-containing drilling fluid, can carry out hydrocarbon detection on drilling fluid in real time during drilling, can quantitatively identify the concentration of crude oil in oil-containing drilling fluid, and improve the oil and gas exploration efficiency.



21: 2022/06624. 22: 2022/06/15. 43: 2022/08/19 51: A61B

71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD. 72: Xu Kailong, Shi Jiawei

33: CN 31: 202220695653.6 32: 2022-03-28 54: DSA EXAMINATION ROOM INTELLIGENT OPERATION CABINET 00: -

The invention provides an intelligent operating cabinet for a DSA examination room, and belongs to the technical field of intelligent operating cabinets. The DSA examination room intelligent operation cabinet comprises an intelligent operation cabinet body and a cooling component. In the implementation process, the fins are cooled by the semiconductor refrigeration sheet, and the cooling liquid in the liquid storage tank is cooled, The air sucked by the fan is discharged into the cooling liquid in the liquid storage box and then is cooled by

the cooling liquid, the air entering the liquid storage box can move upwards and enter the air delivery pipe, the air entering the air delivery pipe can enter a plurality of through grooves, and the gas entering the through grooves can enter the storage grid,Further, the medical consumables in the storage

compartment can be cooled and refrigerated, which is beneficial to the storage of medicines that need to be refrigerated, and can reduce the limitation of the intelligent operating cabinet of the DSA examination room.



21: 2022/06625. 22: 2022/06/15. 43: 2022/07/26 51: G06F

71: SOUTHWEST UNIVERSITY

72: TANG Xi, WU Jiagui, DENG Tao, LIN Xiaodong, GAO Ziye, FAN Li, XIA Guangqiong, WU Zhengmao 54: HIGH-SPEED PHYSICAL RANDOM NUMBER GENERATOR BASED ON CHAOTIC LASER ENTROPY SOURCE

00: -

The invention provides a high-speed physical random number generator based on chaotic laser entropy source, which comprises an entropy source module and a post-processing module; the entropy source module is used for lasing two paths of broadband chaotic signals with suppressed time delay signatures and enhanced bandwidth, and the cross correlation between the two paths of chaotic signals is low; the post-processing module block is used for converting the two chaotic signals into digital signals and finally obtaining high-speed random numbers after processing. Compared with the pseudo-random number generator, the generated random number has no periodicity, and can generate nonreproducible random numbers of any length; Compared with the traditional physical random number generator, the entropy source

bandwidth is larger, up to tens of GHz; It can obtain high-speed physical satellite numbers with code rate of hundreds of Gbits/s.



21: 2022/06626. 22: 2022/06/15. 43: 2022/07/26 51: E21B

71: Liaoning Petrochemical University, Tongda Energy Technology (Shenyang) Co., Ltd. 72: LI, Cunlei, CHEN, Panpan, MA, Guiyang, CHI, Dexia, ZHANG, Wei, ZHANG, Qiushi, WANG, Lu, WANG, Jiajun

54: DOWNHOLE EQUIPMENT WHILE-DRILLING SAMPLE POOL FOR LOGGING WHILE DRILLING 00: -

The invention discloses a downhole equipment while-drilling sample pool for logging while drilling, comprising a drilling fluid pool, a power turbine, a transmission turbine, a sample fluid pool and a Raman probe clamping device, wherein the upper and lower ends of the drilling fluid pool are respectively a drilling fluid inlet and a drilling fluid outlet, a sample fluid inlet and a sample fluid outlet are provided on the sample fluid pool, and the sample fluid inlet is inside a drill string and is in communication with the borehole wall; a pump wheel is disposed in the drilling fluid pool and is drivingly connected to a turbine in the sample fluid pool via a drive shaft. The while-drilling sample pool can detect the oil and gas information of downhole reservoir in real time and in time.



21: 2022/06627. 22: 2022/06/15. 43: 2022/07/26 51: B41F

- 71: Chongqing Yixi Brand Planning Co., Ltd.
- 72: Xu Zhuanyin

33: CN 31: 202210006694.4 32: 2022-01-05 54: A CLEANING MODULE AND ITS PRINTING MACHINE

00: -

The invention discloses a cleaning module and a printing machine, and the cleaning module is used to clean the printing surface on the substrate. It comprises a rotating wheel, the inner wall of the rotating wheel is provided with a rotating wheel teeth, the rotating wheel teeth and viscose teeth meshing transmission. The viscose tooth is arranged on the viscose shaft, the viscose shaft is covered with a viscose roller, the viscose shaft and the shaft seat can be assembled in a circumferential way, the shaft base and one end of the optical shaft assembly, the other end of the optical shaft suit first spring through the connecting seat plate and with the axial sliding assembly. The connecting base plate is installed on the connecting seat, the connecting seat is installed on the connecting plate, the connecting plate is also provided with a switching cylinder, the connecting plate, switching cylinder can be set in a circular rotation on the switching cylinder, switching cylinder and two first vertical plate assembly; the switching cylinder and the corresponding second vertical plate can be assembled by circular rotation, and the viscose teeth directly or indirectly drive the viscose shaft rotation; The viscose roller has four stations, which are gluecoating station, preliminary curing station, rolling brush station and glue-removing station.



- 21: 2022/06628. 22: 2022/06/15. 43: 2022/07/25 51: B02B
- 71: Shouxian Yongchang rice noodles Co., Ltd 72: Bao bo, Bao yi

54: RICE MILLING MACHINE FOR PROCESSING RICE 00: -

The invention relates to the technical field of rice milling machines, and discloses a rice milling machine used for rice processing, which comprises a machine body, wherein the top of the machine body is provided with a feeding hopper, the inside of the feeding hopper is rotatably connected with a movable rod, the surface of the movable rod is fixedly connected with a plurality of limiting plates, and the left side of the feeding hopper is provided with a first motor. The output shaft of the first motor is fixedly connected with a driving structure used for driving the movable rod to rotate, the surface of the output shaft of the first motor is fixedly connected with a driving wheel, the driving wheel is in transmission connection with a driven wheel through a belt, both sides of an inner cavity of the machine body are hinged with electric push rods, and the output end of each electric push rod is hinged with a baffle; The invention can automatically adsorb metal impurities in rice, saves time and labor, can quantitatively feed the rice, avoids blockage during feeding, and solves the problems that the prior rice mill cannot quantitatively feed the rice and is inconvenient to automatically remove the metal impurities.



21: 2022/06629. 22: 2022/06/15. 43: 2022/08/03 51: A23L

71: Bozhou University

72: XING Shuang, PU Shunchang, DONG Shujia, LIU Lu

54: FERMENT FRUIT WINE JELLY FOR ASSISTING SLEEP AND PREPARATION METHOD THEREOF

00: -

The application discloses a ferment fruit wine jelly for assisting sleep and a preparation method thereof, and belongs to the technical field of health food. the raw materials comprise passion fruit-raspberry composite fruit wine, germinated mung bean extract, carrageenan, brandy and white granulated sugar; the mass-to-volume ratio of carrageenan, white granulated sugar, passion fruit-raspberry composite fruit wine, germinated mung bean extract and brandy is (1.50-1.53)g: (1.64-2.21)g: (100-150) ml: 50ml: (0-50) ml. The prepared composite fruit wine and the germinated mung bean extract are mixed in proportion to prepare jelly, the germinated mung bean extract is rich in gamma-aminobutyric acid, and the gamma-aminobutyric acid has the effects of calming nerves, resisting anxiety, improving sleep

and the like, and can effectively help sleep; the wine jelly product of the application change the traditional drinking mode, meet the taste needs of different consumers; meanwhile, the product is easy to carry and eat.



21: 2022/06630. 22: 2022/06/15. 43: 2022/07/25 51: B65F 71: Chongqing Wanchongshan Intelligent Technology Co., Ltd. 72: Liu Zhongyuan 33: CN 31: 202210136460.1 32: 2022-02-15 54: A TRACTOR AND BUILDING WASTE INTELLIGENT CLEANING AND TRANSPORTATION SYSTEM 00: -

The invention relates to a tractor and its building waste intelligent cleaning and transportation system. The tractor comprises a tractor frame, which is respectively installed with two pulling belts. The two pulling belts are assembled with different pulling modules. The pulling rack is also provided with the pulling side shift rack, the pulling side shift rack is installed on the pulling rack base; The traction module comprises two traction mounting bases mounted on two traction belts, and the two traction mounting bases are mounted on the traction beam, the trailing beam is installed on the trailing beam, and the trailing beam is respectively arranged on the trailing beam groove, the trailing beam installation base and the trailing beam hole. The stringer mounting base is installed in the stringer groove, the stringer mounting base and one end of the stringer sliding shaft assembly, the other end of the stringer sliding shaft through the stringer locking part of the stringer sliding shaft between the stringer locking part and the stringer mounting base is covered with a stringer spring; The stringer lock is respectively

provided with a stringer lock block and a stringer unlocking block, and the stringer lock block and the stringer unlocking block are respectively provided with a bevel of the stringer lock block and a bevel of the stringer unlocking block.



21: 2022/06631. 22: 2022/06/15. 43: 2022/07/25 51: B65F

71: Chongqing Wanchongshan Intelligent Technology Co., Ltd.

72: Liu Zhongyuan

33: CN 31: 202210136481.3 32: 2022-02-15 54: A BUILDING WASTE INTELLIGENT CLEANING AND TRANSPORTATION SYSTEM 00: -

The invention discloses a building waste intelligent cleaning and transportation system, it including: a dumping station, a number of built-in dumping machines, and each drop machine corresponding to a trash can; Different types of garbage are put into different dumping machine, after the dumping machine processing stored in the corresponding garbage can; Trash can, including top edge, bottom edge, and the top edge and bottom edge respectively are higher than the trash can body; the cleaning robot is used to transport garbage cans between the dumping station and storage station, and realize automatic loading and unloading of garbage cans in the dumping station and storage station; The storage station is used to store the garbage cans transported from the dumping station, and transport the idle garbage cans to the cleaning robot, and use the cleaning robot to replenish the

garbage cans taken out from the dumping station; The server is connected with the dumping station, cleaning robot and storage station respectively to obtain the information of the dumping station, cleaning robot and storage station, and send control instructions to them.



21: 2022/06632. 22: 2022/06/15. 43: 2022/07/25 51: B65F

71: Chongqing Wanchongshan Intelligent Technology Co., Ltd.

72: Liu Zhongyuan

33: CN 31: 202210136413.7 32: 2022-02-15 54: A STORAGE STATION AND BUILDING WASTE INTELLIGENT CLEANING AND TRANSPORTATION SYSTEM 00: -

The invention discloses a storage station and a building waste intelligent cleaning and transportation system, wherein the storage station comprises two conveying modules. Two delivery modules are responsible for taking out and inputting the filled garbage cans from the cleaning robot, and output the idle garbage cans to the cleaning robot and complete installation; The conveying module comprises a conveying frame and a drawing machine, which is installed between two conveying frames. The conveying frame is provided with a first bracket, positioning frame, second bracket, positioning frame has two and each positioning frame is aligned with the first bracket, the second bracket, and the bottom of the positioning frame is installed with a conveying track; The end face of the first bracket and the second bracket facing the side of the trash can are respectively attached to the side wall of the trash can; The first frame is installed with a storage conveyor belt, the storage conveyor belt respectively around the second conveyor belt shaft, the first conveyor belt shaft and constitute a belt transmission mechanism, the second conveyor belt shaft, the first conveyor belt shaft respectively

installed on the first frame; The storage conveyor belt is pressed against the side wall of the garbage can.

21: 2022/06633. 22: 2022/06/15. 43: 2022/07/26 51: B41F

71: Chongqing Yixi Brand Planning Co., Ltd. 72: Xu Zhuanyin

33: CN 31: 202210005855.8 32: 2022-01-05 54: A GLUE REMOVING MECHANISM AND ITS PRINTING MACHINE

00: -

The invention discloses a glue removing mechanism and a printing press, which comprises a glue removing seat, on which a glue removing brush, a glue scraper and a fixed tile are respectively installed, and a movable semicircle groove is formed between the fixed tile and the glue removing seat. The movable semicircle groove is clamped in and a movable tile can be installed in a circular rotation. The inner side of the fixed tile is a semi-circular groove for storing glue, and the movable tile can rotate to the upper part of the semi-circular groove for storing glue to close the semi-circular groove; In addition to the rubber brush is provided with a number of brushes with high elasticity, brush hair pressed on the outer wall of the viscose roller; The scraper is pressed with the outer wall of the viscose roller in addition to the rubber position, so that when the viscose roller rotates, the scraper will scrape and scrape the cured adhesive film, so that the adhesive film is separated from the viscose roller, and then the roller rotates to the close place with the bristles, and the remaining adhesive film is brushed off by the bristles; The outer wall of the movable tile is also pressed with the outer wall of the driving roller. The driving roller is set on the drive. The driving roller

shaft and the rubber side plate installed at both ends of the rubber seat can be assembled by circular rotation.



- 21: 2022/06634. 22: 2022/06/15. 43: 2022/07/26 51: B23Q
- 71: Suzhou Institute of Trade&Commerce

72: Lin Shao, Xuefeng Li, Siwen Liang 33: CN 31: 202111124899.4 32: 2021-09-25 54: A GRINDING FIXTURE FOR GEAR GENERATOR CYLINDER SLEEVE TOOTH-SHAPING PROCESSING 00: -

The invention relates to the field of gear machine tool cylinder sleeve processing equipment, in particular to a grinding fixture for gear machine tool cylinder sleeve tooth shape processing. Including a driving device arranged on the rack, the driving device drives the tool seat installed with a tool to process the workpiece, and also includes: The clamping fixture mechanism, the clamping fixture mechanism is arranged on the frame, and the clamping fixture mechanism is used to clamp the workpiece; Linkage mechanism, linkage mechanism is arranged on the frame, driving equipment to drive the tool to the workpiece processing process can be driven by the linkage mechanism clamping fixed mechanism quantitative rotation of a certain angle; The clamping mechanism is provided with a fastener component, which is used to further drive the clamping force of the clamping mechanism on the workpiece in the process of rotation of the clamping mechanism. The grinding fixture used for the tooth shape processing of the cylinder sleeve of the gear machine tool ensures that the size of the rotating angle of the workpiece is consistent every time, and

further increases the clamping force on the workpiece in the process of rotation.



- 21: 2022/06681. 22: 2022/06/17. 43: 2022/07/27 51: G06K
- 71: Southwest university
- 72: Dong Tao, Zhang Peiyang

54: A FACIAL EXPRESSION RECOGNITION METHOD BASED ON DEEP SPATIOTEMPORAL FEATURES

00: -

The invention proposes a facial expression recognition method based on deep spatiotemporal features. The method firstly designs an end-to-end trainable multi-channel deep neural network model, which uses multiple parallel deep neural networks to extract deep temporal and spatial features of facial expression images at the lower level. Then, the full connection layer is used to fuse the multi-channel deep temporal and spatial feature data at the high level, and the softmax layer is used to identify and get expression classification at the highest level. The model integrates image feature extraction and feature fusion into a global training network, which deepens the network scale and improves the recognition performance. The second innovation point of the invention is that the average face is used to replace the neutral face, which solves the problem of the lack of a corresponding neutral face image in the expression image during the test. The invention provides a new idea in the field of expression recognition and has great practical value and development prospect.



- 21: 2022/06682. 22: 2022/06/17. 43: 2022/07/27
- 51: H04L
- 71: Southwest university
- 72: Dong Tao, Bao Chengcheng

54: A HIGH-CONSISTENCY NEURAL CRYPTOGRAPHY

The invention discloses a high-consistency neural cryptography. The generation method comprises the following steps. Step 10): In a wireless physical key generation model, there is a source node S, a destination node D and an eavesdropping node E, and all nodes work in TDD mode. At time t, the channel coefficient between the source node S and the destination node D is denoted as. The channel coefficient between the source node S and the eavesdropping node E is denoted as, and the channel coefficient between the destination node D and the eavesdropping node E is denoted as. Step 20): Obtain training samples. Step 30): Establish the neural network model. Step 40): Training parameters. Step 50): Generate the key. Step 60): Perform a consistency check. The method uses the time correlation between the detection results of the source node and the destination node, and obtains the parameters of neural network which can be effectively predicted by training the samples. The trained neural network is used to generate the physical key to improve the consistency.

21: 2022/06683. 22: 2022/06/17. 43: 2022/07/27

51: C22C; C22F; H01B

71: GUILIN UNIVERSITY OF TECHNOLOGY, Guangxi Huaxing High-strength New Materials Co., Ltd.

72: HU, Zhenguang, WU, Shunyi, QIN, Lijuan, HUANG, Guo'an

54: ERBIUM-CONTAINING ALUMINUM MAGNESIUM WIRE AND MANUFACTURING METHOD THEREOF

00: -

Provided are an erbium-containing aluminum magnesium alloy wire and a manufacturing method thereof, which belong to the technical field of alloy manufacturing. The erbiumcontaining aluminum magnesium alloy wire includes the following components in percentage by weight: 1.3%-2.5% of Mg, 0.4%-0.8% of Er, 0.01%-0.1% of Cr, 0.01%-0.15% of Mn, 0.1%-0.3% of Fe, 0.03%-0.15% of Si, and the balance of Al. with total content of other impurities not higher than 0.25%, and single-impurity component content not higher than 0.1%. For the method, the wire is manufactured by proportioning, smelting, refining, tapping, casting with horizontal drawing, cast rod drawing, intermediate annealing, coarse-wire drawing, intermediate annealing, finewire drawing, and finished product annealing. With the method being used, the manufacturing efficiency is improved, manufacturing costs are reduced, and the strength, percentage elongation, and other properties of products are also improved.

21: 2022/06684. 22: 2022/06/17. 43: 2022/07/27 51: C22C

71: GUILIN UNIVERSITY OF TECHNOLOGY, Baise Guangbai Metal Materials Co., Ltd.

72: HU, Zhenguang, GE, Fubiao, QIN, Lijuan, WU, Shunyi

54: ALUMINUM-MAGNESIUM-YTTRIUM MASTER ALLOY PREPARED WITH MAGNESIOTHERMIC REDUCTION PROCESS, AND PREPARATION METHOD THEREOF

00: -

The present disclosure provides an aluminummagnesium-yttrium (AI-Mg-Y) master alloy prepared with a magnesiothermic reduction process, and a preparation method thereof, and belongs to the technical field of aluminum rare earth master alloys. The AI-Mg-Y master alloy comprises aluminum, magnesium and yttrium compounds, alkali metal fluorides and chlorides, alkali earth metal fluorides, and an aluminum fluoride; the preparation method comprises the steps of firstly, putting aluminum into an aluminum alloy smelting furnace for heating and melting, then proportionally adding magnesium; proportionally adding a salt mixture after the magnesium is completely molten, and heating the salt mixture and keeping a temperature till the salt mixture is completely molten; proportionally adding yttrium compounds, and keeping at 850-1150 degrees Celsius with continuously mechanical stirring for a melt; introducing argon into the melt for refining and slagging-off after completion of reaction; and finally, conducting casting to obtain an AI-Mg-Y master alloy ingot.



21: 2022/06686. 22: 2022/06/17. 43: 2022/07/27 51: C04B; C22C

71: Chongqing University of Science and Technology, Chongqing Stio Measurement and Control Technology Co., Ltd. 72: ZHU, Jun, JIA, Bi, WU, Huiming, WU, Chunyan, TANG, Rui, CHEN, Xingyu, WANG, Ruzhuan, DI, Yongjiang, JIANG, Hanmei, HE, Huichao, FAN, Baoyan, WANG, Wenrong, YANG, Qian, ZHANG, Danxia, XUE, Chengbin, LI, Jianchao, ZHAO, Ruishu, LIU, Jinxuan, QI, Zhuwei, CHEN, Liuyu 54: METHOD FOR PREPARING GRAPHENE REINFORCED NONMETAL MATRIX COMPOSITE BY STEPWISE FEEDING BALL MILLING AND

HOT PRESSING SINTERING

The present disclosure discloses a method for preparing a graphene reinforced nonmetal matrix composite by stepwise feeding ball milling and hot pressing sintering.

Relative density and mechanical properties of samples prepared in example 1 and comparative example							
Dispersion mode	Relative density (%)	Bending strength (MPa)	Fracture toughness (MPa·m ^{1/2})	Vickers hardness (GPa)			
Comparative example I	98.72∉	434.17⇔	5.180	18.70			
	99.46⊖	854.51 ⁴³	7.45⇔	21.30∉			

21: 2022/06687. 22: 2022/06/17. 43: 2022/07/27 51: G01V; G05B

71: First Institute of Oceanography, Ministry of Natural Resources

72: KAN, Guangming, LIU, Baohua, PEI, Yanliang, ZHANG, Yingying, LIU, Jingxi, LI, Guanbao, MENG, Xiangmei, WANG, Jinggiang

54: IN-SITU MEASUREMENT SYSTEM AND METHOD FOR MEDIUM- AND LOW-FREQUENCY ACOUSTIC PROPERTIES OF SEAFLOOR SEDIMENTS

00: -

The present disclosure discloses an in-situ measurement system and method for medium- and low-frequency acoustic properties of seafloor sediments, including a bearing frame. The bearing frame is provided with a control cabin, a hydraulic cabin, a vertical probe penetrating mechanism, and a horizontal probe support mechanism, the top of the bearing frame is provided with a lifting ring, the bottom of the vertical probe is fixedly provided with two receiving transducers vertically spaced, the horizontal probe support mechanism includes a driving device fixed on the bearing frame, an output shaft of the driving device is perpendicular and fixedly connected to one end of a horizontal probe, the driving device can drive the horizontal probe to rotate with the output shaft as a central axis, and the other end of the horizontal probe is provided with a transmitting transducer



21: 2022/06689. 22: 2022/06/17. 43: 2022/07/27 51: F26B

71: Taizhou Institution of NAU, Nanjing Agricultural University(NAU)

72: CHEN Kunjie, HUANG Jichao, CHEN Zixuan, ZHANG Dacheng

54: AUTOMATIC CONTROL SYSTEM OF GRAIN DRYER

00: -

The invention discloses an automatic control system of a grain dryer, which comprises a main control module, an A/D conversion module, a data communication module, a protection module, an output control module and a man-machine interaction and display module. The A/D conversion module can realize analog signal input and signal A/D conversion. The function of the data communication module is to make the grain moisture meter transmit moisture signal to the main control module through RS485 communication, and the alarm information generated by electrical equipment is transmitted to the main control module through the protection module and then to the man-machine interaction and display module through RS485 communication to display the alarm state. The output control module applies an effective control signal to the intermediate relay through the PLC output port, and then the high-voltage controller controls the action of the heat pump and the grain dryer. The man-machine interaction and display module is used to set drying process parameters

and display real-time information, thus realizing the integrated heat pump grain drying control, which has a good application prospect.



21: 2022/06690. 22: 2022/06/17. 43: 2022/07/27 51: B23Q

71: Tongling University, Tongling Yuanyi Precision Machinery Co., Ltd

72: WANG, Dongsheng, ZHANG, Peipei, QU, Guang, ZHOU, Yan, XU, Lifeng, WANG, Qunyou, HUA, Mengzhang

54: WIRE-CUT ELECTRICAL DISCHARGE MACHINING (WEDM) DEVICE WITH CONVEX TOOTH STRUCTURE, AND WIRE ELECTRODE 00: -

Disclosed are a wire-cut electrical discharge machining (WEDM) device with a convex tooth structure, and a wire electrode. The WEDM device includes a housing, wherein a fastening mechanism is installed on the housing, the fastening mechanism is in threaded connection with the housing, a wire tightening mechanism is disposed in the housing, and the wire tightening mechanism is abutted against the fastening mechanism; and a telescopic mechanism is fixed to a bottom of the housing. A second bearing is driven to rotate by the rotation of a fifth gear, a conductive block is driven to rotate by the second bearing, a conductive seat on the second bearing rotates synchronously, and therefore a wire electrode body on the conductive seat rotates. In accordance with the WEDM device with the convex tooth structure, and the wire electrode, working liquid can be introduced between electrodes, the discharge of interelectrode corrosion removal products is accelerated, and the interelectrode discharging condition is further improved; the discharging rule is easier to control due to regular protruding point crests on a surface of the wire electrode body with the convex tooth structure, so that the machining efficiency can be increased, and the surface quality can be improved; and the volume and pitch of a chip containing space of the wire electrode body with the convex tooth structure can be controlled on the basis of the size and thread pitch of a rolling thread form.



21: 2022/06691. 22: 2022/06/17. 43: 2022/07/27

51: G06F

71: HARBIN INSTITUTE OF TECHNOLOGY 72: WEI Changan, JIANG Shouda, SUN Chao, XU Yonghui

54: REFLECTIVE MEMORY CARD, REFLECTIVE MEMORY NET AND ACCESS METHOD OF REFLECTIVE MEMORY CARD 00: -

The invention relates to a reflective memory card, a reflective memory network and an access method of the reflective memory card, and relates to the technical field of reflective memory. It solves the problem that the research and application of the existing reflective memory card are severely limited. The reflection memory card includes network control module, serial communication interface module, memory processing module and PCI interface module, and the network control module includes photoelectric conversion module, parallel-serial conversion module and network data processing module. The network processing module includes sending data arbitration module, receiving data distribution module, photoelectric conversion control logic module, serial-parallel conversion control logic module and codec controller module. Through the construction of data transmission among all modules mentioned above, the construction of reflective memory card is realized. Through the further construction of sending data arbitration module and receiving data distribution module, the internal structure of reflective memory card is further completed. The invention is suitable for the research and application of reflective memory network.



21: 2022/06692. 22: 2022/06/17. 43: 2022/07/27 51: E21F

71: China Coal Technology & Engineering Group Chongqing Research Institute Co. Ltd 72: ZHANG Yongjiang, GUO Lindong, ZHAO Xusheng, MENG Xianzheng, CAO Jianjun, LU Zhanjin, SUN Haitao, LIU Yanbao, HUANG Zhenfei, JI Fei, LI Shuai, NIU Xingang, YANG Huiming, XU Junjian, LIU Yongsan

54: FOUR-LEVEL SAFETY PROTECTION METHOD FOR ULTRA-HIGH PRESSURE WATER JET DEVICE

00: -

The application relates to belongs to a four-level safety protection method for the ultra-high pressure water jet device, belongs to the technical field of coal mine safety protection, and comprises the following steps: S1, installing an adjustable safety valve on the fresh water pump to realize the water source safety protection of the ultra-high pressure water jet device; S2, adopting the ultra-high pressure water transmission safety measures on the ultra-high pressure hydraulic hose, the ultra-high pressure rotary water tail and the ultra-high pressure sealing drill rod to realize the safety protection of the ultrahigh pressure water transmission; S3, setting a remote console on the ultra-high pressure hydraulic hose to realize the operation safety protection of operators during the ultra-high pressure hydraulic slotting; S4, adopting high-precision thread connection at the joints between the ultra-high pressure hydraulic hoses and between the ultra-high pressure rotary water tail and the ultra-high pressure hydraulic hose, and the joints have end face sealing effects, and installing a steel sheath and an antidropping chain for secondary protection, so that the sealing performance and the safety protection of the ultra-high pressure water transmission connection position are realized. The application forms a complete safety protection system, greatly improves the use safety of the high-pressure hydraulic slotting device and effectively avoids the occurrence of equipment safety accidents.



21: 2022/06693. 22: 2022/06/17. 43: 2022/07/27 51: G06K

71: Anhui Jianzhu University

72: Fangbin WANG, Sheng TANG, Xu JIN, Darong ZHU, Yefei GAO

54: INFRARED POLARIZED FACE RECOGNITION METHOD BASED ON RGB COLOR SPACE 00: -

The invention discloses an infrared polarized face recognition method based on RGB color space.

I, Q, U image	•	Pretreatment]•	DOG feature edge detection	-	RGB color space fusion	-	Fused image

21: 2022/06694. 22: 2022/06/17. 43: 2022/07/27 51: A01G

71: Guangdong Ocean University

72: Jianjun Cui, Chunli Chen, Enyi Xie, Rong Xin, Yongjian Huang, Xinyi Chen 54: METHOD FOR ACCELERATING MATURATION OF MONOSTROMA ALGEA

00: -

The invention provides a method for accelerating maturation of monostroma algea and belongs to the technical field of algea culture. The method includes: selecting the monostroma algea with fresh color and complete blades; punching and sampling on the algea, cleaning blade samples, placing the cleaned blade samples in a culture solution for illumination and aeration culture, and exchanging the culture solution every 2 days; after 2-4 days of illumination and aeration culture and the blade samples are mature, and continuously irradiating the matured blade samples with a one-way light source toallow the matured blade samples to release germ cells. With the method, the maturation period of the algea culture is greatly shortened, and a large number of the germ cells can be obtained; meanwhile, wide source of the monostroma algae and high utilization rate of the algae are achieved, the stability of artificial seedling collection in the early stage of the monostroma algae is effectively ensured, and the rapid development of artificial industrial culture of the monostroma algae in China is promoted.

21: 2022/06695. 22: 2022/06/17. 43: 2022/07/27
51: B65D
71: Hwa Mei Hospital, University of Chinese
Academy of Sciences
72: Chuntao Tan
33: CN 31: 202220674585.5 32: 2022-03-25
54: A MEDICAL CRYOGENIC STORAGE BOX
FOR DRUG INSPECTION
00: The invention discloses a medical cryogenic storage

The invention discloses a medical cryogenic storage box for drug inspection, including a body and a shock-proof component for preventing drug tilting. The shock-proof components including the inner cavity on the inside of the body, a base plate at the bottom of the box body, two first fixing shafts at the bottom of the base plate, a sliding groove at the bottom of the body, a fixing rod on one side of the sliding groove and a first spring arranged on the outside of the fixing rod. The invention adopts a body, a base plate, a fixing rod and a first spring. The first spring can extrude the sliding block on the

outside of the fixing rod, so that the sliding block drives the supporting rod on the top of the second fixing shaft to move, and then the supporting rod can stabilize the box body on the top of the first fixing shaft. It improves the stability of the storage of drugs inside the box, and solves the problems of poor stability of the existing equipment, which is easy to lead to the problem of drug tilt, the problems of drug collision resulting in broken, which is easy to cause the waste of drugs, and affecting the practicability of the equipment to save drugs.



21: 2022/06700. 22: 2022/06/17. 43: 2022/08/02 51: G06F

71: ZHEJIANG WANLI UNIVERSITY

72: JIN, Ran, HOU, Tengda, YU, Tongrui, YUAN, Jie, LIU, Cuijuan, ZHANG, Yanhong, YANG, Lichun, DENG, Xiuchun

54: DRUG-NAMED ENTITY RECOGNITION AND ENTITY NORMALIZATION METHOD 00: -

The present invention discloses a drug-named entity recognition and entity normalization method. By conducting character feature extraction on input data with CNN, a related word vector of a context is obtained by using ELMo; embedded matrices of pre-trained words in biomedicine are input into a depth learning model based on BLSTM-CNN-CRF; output labels mutually feed back parameters of an update task; and then mutual support between a drug-

named entity recognition (DNER) task and a drugnamed entity normalization (DNEN) task is achieved. The present invention shares a BiLSTM-CNN layer between the tasks by a fully shared mode, which means that except a corresponding output layer is set for DNER and DNEN, all parameters of the depth learning model based on BLSTM-CNN-CRF are shared. This structure guarantees that the model may capture feature representations of different tasks, and feature representations make feedback to each other to produce a prediction sequence.



21: 2022/06704. 22: 2022/06/17. 43: 2022/07/20 51: G01N

71: Xi'an University of Architecture and Technology
72: LYU, Yao, NIU, Ditao, LIU, Xiguang
54: CONCRETE SULFURATION TEST
SIMULATION SYSTEM AND ITS SIMULATION

METHOD 00: -

The present disclosure relates to a concrete sulfuration test simulation system and its simulation method for simulating the damage of the concrete structure caused by the industrial SO2 environment and providing a test basis for the SO2 corrosion resistance of the concrete. The system including a SO2 gas cylinder, a gas mixing chamber connected with the SO2 gas cylinder, and a simulation chamber connected with the gas mixing chamber; the simulation chamber including a work box, a return air cavity arranged above the work box, an air outlet cavity arranged under the placement platform, and a drainage pipeline arranged under the air outlet cavity, as well as a heating assembly, a refrigeration assembly, a humidifying assembly, a temperaturehumidity sensor, and a SO2 sensor that are arranged in the work box. The simulation system of

the present invention achieves the simulation of the industrial SO2 environment, carries out the rapid concrete sulfuration test for 20 days, and can simulate the effect of 50-year corrosion in the actual industrial SO2 environment. In addition, the system can also adjust the temperature, relative humidity and SO2 concentration in the work box according to different SO2 environments to meet different test conditions.



21: 2022/06706. 22: 2022/06/17. 43: 2022/07/20 51: A01G

71: Shandong Forest and Grass Germplasm Resource Center (Shandong Yaoxiang Forest Farm) 72: LIU, Dan, TONG, Boqiang, XIE, Xiaoman, XU, Ting, LI, Meng, LI, Xinming, SUN, Weixia, HAN, Shangjun

33: CN 31: 202210217297.1 32: 2022-03-07 54: FOREST RESOURCE INFORMATION COLLECTION SYSTEM

00: -The present invention provides a forest resource information collection system, and relates to the technical field of information collection. The system includes a main control unit, a picture taking unit, a forest species distinguishing unit, a positioning unit, a signal sending unit, and a power unit. The picture

taking unit first takes a picture; the forest species distinguishing unit then determines the forest species in the picture; and the positioning unit generates a positioning signal to mark the area. By the present invention, the distribution of the forest species in a certain area can be accurately and efficiently identified, which provides advantageous help for the development of the forestry.



21: 2022/06707. 22: 2022/06/17. 43: 2022/07/20 51: A01G

71: Shandong Forest and Grass Germplasm Resource Center (Shandong Yaoxiang Forest Farm) 72: TONG, Boqiang, LIU, Dan, DING, Ping, XU, Ting, YANG, Haiping, JING, Qi, GUO, Haili 33: CN 31: 202210217272.1 32: 2022-03-07 54: FOREST TREE INFORMATION INVESTIGATION SYSTEM AND METHOD 00: -

A forest tree information investigation system is provided, which comprises: a path planning subsystem, a track recording subsystem, an information collection subsystem, a data entry subsystem and a statistics and analysis subsystem. The path planning subsystem is configured to plan a path solution of a monitored sample plot, according to spatial information and attribute information about a road covered by a road section; the track recording subsystem is configured to record a travel track and real-time spatial position information of an investigator; the information collection subsystem is configured to record spatial position and attribute information about a forest tree in the monitored sample plot in real time; the data entry subsystem is configured to manage forest tree information recorded by the information collection subsystem; and the statistics and analysis subsystem is configured to perform statistics and analysis of the forest tree information and generate a forest tree species information report.



21: 2022/06712. 22: 2022/06/17. 43: 2022/07/20 51: C12N

71: Yunnan Agricultural University, Yunnan Ivrong Biological Industry Development Co., Ltd.
72: WU Guoxing, GAO Xi, LAN Mingxian, LI Hongmei, LIANG Chen, ZHU Jiaying, LI Xiujun
54: KLUYVERA ASCORBATA AND APPLICATION THEREOF

00: -A strain of Kluyvera ascorbata and its application belong to the technical field of microorganisms. The strain has been deposited in the General Microbiology Center (CGMCC for short) of China General Microbiological Culture Collection Center on March 7th, 2017, at the address of Institute of Microbiology, Chinese Academy of Sciences, No.3, NO.1, West Beichen Road, Chaoyang District, Beijing, with the preservation number of CGMCC No.13726 and the classification name of Kluyvera ascorbata. The strain of the invention is screened out from the digestive tract of Eupatorium adenophorum parasitic insect (Procecidochares utilis Stone) in Yunnan wild, and can guickly infect the rhizome of Eupatorium adenophorum in natural environment, resulting in the rhizome pathological changes, tender stems and roots rotting until the whole plant dies, and is used for the prevention and control of Eupatorium adenophorum, with good effect and low cost.



21: 2022/06713. 22: 2022/06/17. 43: 2022/07/20 51: A01H 71: Shangrao Normal University 72: HONG Senrong, YIN Minghua

54: METHOD OF VIRUS-FREE BY ENCAPSULATION-VITRIFICATION THERAPY OF ALPINE POTATO IN HUAIYU MOUNTAIN 00: -

The invention discloses a method for virus-free by encapsulation-vitrification therapy of alpine potato in Huaiyu Mountain, belonging to the technical field of potato stem tip detoxification, which comprises the following steps: embedding alpine potato stem tip into calcium alginate gel beads, and then preculturing; the pre-cultured embedded beads of alpine potato stem tips were loaded with a mixture of 5 percent DMSO, 2M glycerol and 0.4M glucose, and then dehydrated with 60 percent PVS2; After 100 percent PVS2 is replaced, low-temperature treatment is carried out first, and then liquid nitrogen is put into storage; 1-2 days later, at 38-40 degree Celsius water bath for recovery treatment 3-4 min, and then washing; the washed alpine potato stem tip embedded beads are placed on the third culture medium for culture, and the virus-free plants of alpine potatoes cultured by the method have good growth state, high survival rate and high virus-free rate.

71: Ningbo Kangning Hospital(Ningbo Center for Mental Disease Prevention and Control)
72: ZHOU Dongsheng, LI Xingxing, LIU Xiaoli, ZHANG Wenwu, YU Haihang
54: DEVICE FOR IMPROVING CHILDREN'S INTELLIGENCE THROUGH DIRECT CURRENT STIMULATION

00: -

^{21: 2022/06715. 22: 2022/06/17. 43: 2022/07/20} 51: A61N

The invention provides a device for improving children's intelligence through direct current stimulation, belonging to the technical field of medical equipment. A device for improving children's intelligence through direct current stimulation comprises a rotator, a bracket, a connecting belt, a controller, a cathode strip and an anode strip. According to the invention, the two conductive tubes on the rotating shaft of the rotator are externally provided with a plurality of arc-shaped brackets, so that the brackets can be unfolded or closed by the rotator, which is convenient to store and has higher portability; moreover, the elastic contact pieces are arranged between the arc-shaped brackets and the corresponding conductive tubes, and the controller is electrically connected with the cathode strip and the anode strip through the elastic contact pieces and the conductive tubes; in addition, each bracket is provided with an embedded groove for selectively installing the anode strip or the cathode strip, the expansion of the number of stimulation points is realized, and the size of the space enclosed by the bracket after expansion can be controlled by controlling the rotation angle of the bracket on the rotator and the connecting state of the two ends of the connecting belt, so as to adapt to different users and improve the adaptability.



71: Shanghai Civil Engineering Co., Ltd of CERC, Municipal Environmental Protection Engineering Co., Ltd of CREC Shanghai group, Anhui University of Technology

72: sun dongxiao, ding lei, yang shengqiao, dong zhiqiang, qiu zhiliang, wang yuanbo 54: LUFFAH SPONGE FILLER FOR BIOLOGICAL PRETREATMENT OF SLIGHTLY POLLUTED SOURCE WATER AND PRETREATMENT METHOD THEREOF

00: -The invention provides a luffah sponge filler for biological pretreatment of slightly polluted source water and a pretreatment method, belonging to the technical field of water treatment. The specific content of the invention are as follows: (1) Peeling and removing seeds of mature Luffa cylindrica (L.)Roem., cutting off the thinner parts at both ends, and cut the remain parts into cylindrical luffah sponge with a thickness of about 2cm, tie them up with high-strength glass fiber filaments and connect them in series, and fix them in a bioreactor for use as fillers; (2) Pumping inoculated sludge into the bioreactor to fully contact with luffah sponge filler, culturing and acclimating microorganisms on Luffa cylindrica (L.)Roem. by means of continuous water inlet, continuous water outlet and continuous aeration, then pumping slightly polluted source into the bioreactor by peristaltic pump, continuously aerating by aeration device at the bottom of the bioreactor, and oxidizing and removing organic matter and ammonia nitrogen in water by microorganisms on soft luffah sponge filler. The invention has the advantages of fast film-forming speed, large film-forming amount, tight combination of film and carrier, and no need for backwashing.

21: 2022/06716. 22: 2022/06/17. 43: 2022/07/20 51: C02F



21: 2022/06717. 22: 2022/06/17. 43: 2022/07/20 51: C12Q

71: Xinjiang Academy of Agricultural Reclamation Sciences

72: Shi guoging, Liu yucheng, Wan pengcheng, Dai rong, Fu xiangwe, Yang yang 54: A METHOD FOR SCREENING ANIMAL

DISEASE RESISTANCE BREEDING 00: -

The present invention pertains to the field of animal disease resistance screening and assisted breeding techniques, it discloses a method for screening animal disease resistance breeding whose procedures are shown as follows: obtaining the DNA of female patent of candidate disease-resistant animal; screening ND1 fragment primers for multiple SNP sites and primers for ND4 and ATP6 copy numbers; obtaining ND1 fragments by PCR amplification and introducing the amplified fragments of ND4 and ATP6 into the plasmid; sequencing and obtaining the copy numbers of ND4 and ATP6 according to plasmid concentration; performing high disease resistance screening based on SNP sites and the copy numbers of ND4 and ATP6. The invention uses multiple PCR technology for paternity test to identify the disease resistance of each female parent; In accordance with the order of disease resistance from high to low, animals with the highest resistance are selected to construct a high disease resistance group; The invention can be used to construct the basic population for subsequent breeding of good species.



21: 2022/06718, 22: 2022/06/17, 43: 2022/07/20 51: A61N

71: Ningbo Kangning Hospital(Ningbo Center for Mental Disease Prevention and Control) 72: ZHOU Dongsheng, LI Xingxing, YU Haihang, YU Chang, HE Chen 54: TRANSCRANIAL ELECTRIC STIMULATION

HEADGEAR

00: -The invention relates to a transcranial electric stimulation headgear, which comprises an electrode part which can cover the temporal lobe area of a user's head, and a massage pipeline which is arranged in a helmet and can be surrounded on the electrode part and used for massaging the user's head. The massage pipeline allows fluid to pass through and is connected with the massage pipeline and is used for driving fluid to flow along the massage pipeline. Compared with the prior art, the transcranial electric stimulation headgear has the advantages that stimulation of the electrode parts arranged on the transcranial electric stimulation headgear occurs in the temporal lobe area, forehead area and mastoid areas on both sides with 40~77.5 Hz alternating current, which has a specific effect on treating insomnia, and the pulse size and speed of the fluid in the massage pipeline around the user's head are controlled by the fluid driving device, and the temperature in the helmet is kept moderate, so as to bring a comfortable massage experience to the user in the treatment process.



21: 2022/06720. 22: 2022/06/17. 43: 2022/07/20 51: F24D; G06K; G06N

71: ZIBO DISTRICT HEATING LIMITED COMPANY 72: WANG, Rongxin, ZHANG, Rui, ZHANG, Wei, LIU, Yuguo, NIE, Xin, XU, Yi, GE, Zhenfu, ZHANG, Zhe, QIAO, Hongxu, GAO, Xiang, YANG, Yi, WANG, Chen, CHE, Xinhua

33: CN 31: 202110838515.9 32: 2021-07-23 54: ROOM TEMPERATURE CONTROL SYSTEM FOR INTELLIGENT HEATING BASED ON MACHINE LEARNING ALGORITHM 00: -

Disclosed is a room temperature control system for intelligent heating based on a machine learning algorithm, relating to the field of room temperature control for heating. End-user heating is divided into five types according to coefficients including at least building energy consumption characteristics and a building maintenance structure and linked to charging data of an enterprise's customer service to dynamically update the types of users of heating services in real time; control data is input to a trained user room temperature control and prediction model that is established according to the types, a predicted average temperature of supply and return water and a user-side predicted load heat quantity at a preset moment are acquired regarding a user room temperature, and the user room temperature is controlled by combining station-controlled circulation pump regulation, building cell valve control, and user-side regulation valve control.



21: 2022/06721. 22: 2022/06/17. 43: 2022/07/20 51: F24D; G06N

71: ZIBO DISTRICT HEATING LIMITED COMPANY 72: WANG, Rongxin, ZHANG, Rui, ZHANG, Wei, LIU, Yuguo, NIE, Xin, XU, Yi, GE, Zhenfu, ZHANG, Zhe, QIAO, Hongxu, GAO, Xiang, YANG, Yi, WANG, Chen

33: CN 31: 202110838542.6 32: 2021-07-23 54: MACHINE LEARNING ALGORITHM-BASED INDOOR TEMPERATURE SOFT SENSING SYSTEM

00: -

Disclosed is a machine learning algorithm-based room temperature soft sensing system, belonging to the technical field of heating end-user control. The system includes a cloud platform, an enterprise data warehouse, an SCADA control system. The SCADA control system is used for acquiring real-time meteorological data, historical user-side supply water temperature and return water temperature, and household control valve control data about household valve opening. The enterprise data warehouse is used for data storage. The cloud platform is used for building an indoor temperature prediction model of different rooms using a linear regression machine learning algorithm to achieve soft measurement of user indoor temperature. The soft measurement of user indoor temperature is achieved on the combination of big data analysis with machine learning methods.

^{21: 2022/06722. 22: 2022/06/17. 43: 2022/07/20}

^{51:} C01B; C01G

^{71:} Shandong University of Science and Technology

72: ZHU, Shoupu, HUANG, Jingrui, MENG, Xiaoru, LIN, Meng-Chang

33: CN 31: 202110828257.6 32: 2021-07-22 54: HIGH-OXYGEN-CONTAINING CARBON BLACK DISPERSION SOLUTION AND PREPARATION METHOD FOR CARBON-BLACK-LOADED IRON OXIDE 00: -

The present invention belongs to the technical field of carbon material modification, and discloses a simple, efficient and safe method for large-scale preparation of high-oxygen-containing carbon black dispersion solution and an iron oxide-carbon black composite material. The carbon black is heat-treated in an oxygen-containing atmosphere with a certain flow rate at a certain heating rate, so that a large number of oxygen-containing groups are attached to the carbon black, and then it is dispersed into a polar solvent to prepare the high-oxygen-containing carbon black dispersion solution, and an iron oxide precursor is attached to the surface of the carbon black by an electrostatic force between the oxygencontaining groups attached to the carbon black and the iron oxide precursor, and then converted into the iron oxide, to obtain a composite of a carbon-blackloaded iron oxide.

The invention relates to a 5G-based intelligent factory protective consignment robot, and belongs to the technical field of consignment robots. Which mainly aims to solve the problems that some existing consignment robots carry out protection on the periphery of goods through vertical plates, but the vertical plates cannot automatically carry out corresponding height adjustment according to the stacking height of the goods or the height of the goods, and the use is not flexible enough; meanwhile, A supporting plate for supporting the goods is arranged above the underframe in a lifting mode, and the top of the underframe is rotatably connected with a single threaded shaft capable of being in threaded connection with the supporting plate. Through the design of the guide shaft, the threaded shaft, the driving motor and other structures, The lifting movement of the supporting plate can be realized so as to consign goods to different height positions, and when the stacking heights of the goods are different, the height of the supporting plate can be correspondingly adjusted, and the protective curtain can always protect the periphery of the goods along with the adjustment of the height of the supporting plates.



21: 2022/06723. 22: 2022/06/17. 43: 2022/07/20 51: B25J 71: Lu'an Xiangchuan Technology Co., Ltd 72: Shen Jiyun, Hu Xiuqin, Jiang Zhixiang 33: CN 31: 202210336679.6 32: 2022-04-01 54: A PROTECTIVE CONSIGNMENT ROBOT FOR INTELLIGENT FACTORY BASED ON 5G 00: -



21: 2022/06724. 22: 2022/06/17. 43: 2022/07/20 51: B25J

71: Lu'an Xiangchuan Technology Co., Ltd 72: Hu Xiurong

33: CN 31: 202210386701.8 32: 2022-04-13 54: AN INTELLIGENT MILLING MANUFACTURING ROBOT BASED ON 5G INTELLIGENT FACTORY

00: -

The invention discloses a 5G-based intelligent factory intelligent milling manufacturing robot, which relates to the technical field of milling robots and comprises a base, wherein the top of the base is rotatably connected with a mechanical wall, the top of the mechanical wall is rotatably connected with an anti-scattering mechanism, one end of the antiscattering mechanism far away from the mechanical wall is provided with an anti-overburning mechanism. The anti-overburning mechanism comprises a flaring wall and a regulation and control assembly, wherein the inner side surface of the flaring wall is connected with the surface of the regulation and control assembly in a sliding manner, a connecting pipe is fixedly connected above the surface of the flaring wall, and a sliding table is fixedly connected to the bottom of the flaming wall.

The intelligent milling and manufacturing robot based on 5G intelligent factory, Through the matched use of the anti-scattering mechanism, the baffling component, the anti-overburning mechanism, the regulating and controlling component and other mechanisms, the problems that the surface of a workpiece is overburned because the workpiece and the milling cutter are not uniformly lubricated, and lubricating oil mist is easy to scatter into the air to cause serious environmental pollution are solved.



21: 2022/06725. 22: 2022/06/17. 43: 2022/07/20 51: A01D

71: Lu'an Xiangchuan Technology Co., Ltd 72: Hu Xiuqin

54: A NEW TYPE OF TEA-PICKING ROBOT 00: -

The invention discloses a novel tea picking robot which comprises a base, wherein a control box and a tea collecting barrel are arranged on the upper part of the base, two ends of the tea collecting barrel are respectively provided with mechanical arms which are symmetrically distributed, one end of each mechanical arm far away from the tea collecting barrel is respectively provided with a tea collecting device and an image collecting device, The image acquisition device comprises a hydraulic cylinder, a push rod, a hinged disc, a fixed rod and a camera, wherein the hydraulic cylinder is arranged at the

upper end of the mechanical arm, the end part of a telescopic rod of the hydraulic cylinder is fixedly connected with the middle part of the push rod, the top surface of one side of the push rod is provided with a chute, one end of the fixed rod is connected in the chute in a sliding way through a connecting piece, and the middle part of the fixed rod is hinged on the hinged disc; A camera is respectively arranged on two side surfaces of one side of the fixed rod far away from the push rod. According to the invention, the shooting angle of the camera can be enlarged, so that the robot can observe without dead angles, the generation of visual busy points is avoided, and the tea picking efficiency is improved.



21: 2022/06726. 22: 2022/06/17. 43: 2022/07/20 51: A01H

71: Guizhou Institute of Oilcrops

72: YANG Bin, XIAO Huagui, TANG Rong, WANG Lulu, ZHANG Chao, LIANG Fenghao, RAO Yong 54: BREEDING METHOD OF BRASSICA NAPUS WITH EARLY FLOWERING PERIOD OR SHORT-STALK

00: -

The invention discloses a breeding method of Brassica napus with early flowering or short stalk, and relates to the technical field of rape breeding. The method comprises the following steps: (1) selecting an original parent: the female parent selects a stable recessive genic male sterile two-line material; the father chooses collard; (2) distant hybridization: the male parent and the female parent are hybridized to obtain a hybrid F1; (3) selfing fertile plants in the hybrid F1 which have the characteristics of male parents and the characteristics of intermediate parents to obtain F2 generation seeds; (4) selecting plants with early flowering period or short stems in the F2 generation seeds for selfing to obtain F3 generation seeds; (5) pollen of plants with early flowering or short stems in the F3 generation seeds is selected for microspore cultivation to obtain the Brassica napus with early flowering or short stems. The method of the invention can effectively improve hybrid seed setting rate and hybridization success rate, and can effectively introduce beneficial genes of different species, different genera and even more distant species into Brassica napus.

21: 2022/06727. 22: 2022/06/17. 43: 2022/07/20 51: C02F

71: Jilin Jianzhu University

72: Zhao Zijie, Li Na, Zhu Xianyu, Yan Bojiao, Deng huan, Lu Hai

54: SLUDGE TREATMENT AGENT AND PREPARATION METHOD THEREOF 00: -

The invention relates to the technical field of sludge treatment, in particular to a sludge treatment agent and a preparation method thereof. In the invention, the polyacrylamide has excellent flocculation and thickening effects, and the zeolite powder, the bentonite and the talcum powder have excellent adsorption capacity; in addition, the zeolite powder can form good synergy with the polyacrylamide, the bentonite and the talcum powder. The affinity of the sludge to be treated to water, oil, phosphate radical, heavy metal ions and the like is destroyed, and an ideal treatment effect is achieved. The carbon fibers are uniformly dispersed in the sludge in the sludge treatment process, and can provide a certain bearing capacity, so that the sludge keeps a certain bulkiness, thereby ensuring that the sludge is more fully contacted with other components in a sludge treatment agent, assisting the main material to better realize flocculation, thickening and adsorption, and improving the treatment effect; Meanwhile, the treated sludge can be better accumulated together, so that the obtained sludge cake is more compact and is convenient to stack, transport or carry out subsequent advanced treatment.

^{21: 2022/06728. 22: 2022/06/17. 43: 2022/07/21} 51: F17D

^{71:} Jilin Jianzhu University

^{1.} Jilin Jianznu University

^{72:} Han Zaigang, Zhao Ke, Zhang Xiaoyu, Shi Yan, Li Na, Lu Hai

54: LEAKAGE CONTROL METHOD FOR WATER SUPPLY NETWORK 00: -

The invention discloses a method for controlling the leakage of a water supply pipe network, which comprises the following steps of: selecting a water supply pipe with materials suitable for the geological characteristics of a region according to the geological characteristics of the region; The metering accuracy of the metering water meter is verified and checked; Anticorrosion strengthening treatment of fittings and valves; Check the service life of the big bore meter; Tablishing a water supply pipe network data base; Establish the maintenance control and scheduling platform based on GPS; The leakage amount is solved; Set the water pressure of the water supply pipe network; Tablishing multiple pressure monitoring points; According to the invention, from the perspective of geological characteristics, the water supply pipe network is formed by selecting water supply pipe materials conforming to the geological characteristics, Through the installation of pressure reducing valve, the calculation of the optimal valve control scheme, and the statistics and analysis of water consumption, the guidance scheme of water consumption in this area is obtained, and the leakage control effect of water supply network can be improved by reasonably setting the water pressure of the water supply network and controlling the leakage in many ways.

21: 2022/06729. 22: 2022/06/17. 43: 2022/07/21 51: A01K

71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, ANCHEE(SHANDONG) ACADEMY OF ANIMAL NUTRITION CO.LTD

72: GUO Jianfeng, DU Yushi, TAO Zhiyong, ZHAO Xueyan, WANG Huaizhong, LIN Haichao, ZHANG Yin

54: COOLING DEVICE FOR PIGGERY 00: -

The invention relates to the technical field of animal husbandry, in particular to a cooling device for piggery, which comprises a piggery body, wherein the top of the piggery body is a triangular roof, and the top of the roof is horizontally and fixedly provided with a main pipe; one end of the main pipe is closed, and the other end of the main pipe bends and extends into the piggery body and is connected with a water supply device located in the piggery body. The water supply device comprises one or two electrically controlled water supply pipelines, and the electrically controlled water supply pipelines are electrically connected with a temperature control device located in the piggery body; the main pipe is uniformly provided with a plurality of atomizing nozzles communicated with the main pipe, and the spraying directions of the atomizing nozzles are all vertically upward. The invention has the advantages of low cost and convenient use, can reduce the indoor temperature to the appropriate temperature range of pigs, improve the living comfort of pigs, improve the behavior and welfare of pigs, avoid heat stress, improve production performance, improve the quality of livestock products and increase economic benefits.



- 21: 2022/06730. 22: 2022/06/17. 43: 2022/07/21 51: C09D
- 71: Qilu University of Technology
- 72: Liming QIN, Chuang LIU

54: METHOD FOR PREPARING SUPERHYDROPHOBIC PAPER WITH SELF-HEALING FUNCTION

00: -

The present disclosure relates to the technical field of functional paper and packaging, in particular to a method for preparing superhydrophobic paper with self-healing performance. A preparation process mainly comprises: alternately depositing commercial spray glue and dispersion liquid composed of nanoparticles, hydrophobic silane and PDMS on various paper surfaces. The particles are fixed on the paper surfaces by strong adhesion of the glue, which makes superhydrophobic paper have strong mechanical stability performance. Meanwhile, hydrophobic molecules are coated inside by the particles and PDMS. When the surfaces are physically and chemically damaged and lose hydrophobic performance, hydrophobic small

molecules can be transferred to the paper surfaces by heating, thereby realizing hydrophobic selfhealing of the superhydrophobic paper. Therefore, the present disclosure has universality and durability, and can widely improve a service life and an application range of the superhydrophobic paper.



21: 2022/06731. 22: 2022/06/17. 43: 2022/07/21 51: D21H

- 71: Qilu University of Technology
- 72: Liming QIN, Chuang LIU

54: METHOD FOR PRÉPARING SUPERHYDROPHOBIC ANTIBACTERIAL PAPER 00: -

The present disclosure relates to the technical field of functional paper and food packaging, in particular to a method for preparing superhydrophobic antibacterial paper. By dipping in a solution, A microstructure is constructed on a paper surface through layer by layer self-assembly by a coordination effect of tea polyphenols and Fe3+ ions; and meanwhile, silver ions reduced in situ make paper firmly combined with the surface microstructure, showing good mechanical performance. Through hydrophobic modification of beeswax, the paper shows good hydrophobic performance; and a contact angle of water can reach 156°. At the same time, the antibacterial paper prepared by the present disclosure shows excellent antibacterial performance; and antibacterial and bactericidal rates of Gram-negative Escherichia coli and Gram-positive Staphylococcus aureus are as high as 99.9%.



- 21: 2022/06732. 22: 2022/06/17. 43: 2022/07/21 51: C09D
- 71: Qilu University of Technology
- 72: Liming QIN, Chuang LIU

54: METHOD FOR PREPARING SUPER-AMPHIPHOBIC COATING WITH HEALING AND ANTICORROSION PERFORMANCE

The present disclosure belongs to the technical field of superhydrophobic coatings, and particularly relates to a method for preparing a healable and anticorrosive super-amphiphobic coating. A superamphiphobic coating is formed on a surface of a copper mesh by a solution impregnation method. The coating shows excellent hydrophobic and oleophobic performance; contact angles of the surface with water, n-hexane, hexadecane, ethylene glycol and glycerol can exceed 150°; and the coating is easy to slide down. The coating also has excellent healing performance; and when the surface is damaged by friction or plasma, the coating can realize healing of the hydrophobic and oleophobic performance of the surface after being heated. The excellent superhydrophobic and super-oleophobic performance of the coating obviously reduces a corrosion rate of the copper mesh. In addition, the coating has the advantages of low cost and simple production processes.


21: 2022/06733. 22: 2022/06/17. 43: 2022/07/21 51: F25D

71: Hwa Mei Hospital, University of Chinese Academy of Sciences

72: Chuntao Tan

33: CN 31: 202220673638.1 32: 2022-03-25 54: A MEDICAL CRYOGENIC STORAGE BOX WITH DOUBLE EVAPORATORS 00: -

The invention discloses a medical cryogenic storage box with double evaporators. Including the body and the insulating parts used to prevent external heat from entering the body, the heat insulation component comprises a support shaft at the bottom of the body, a heat insulation pad on one side of the supporting shaft, a placing box on the other side of the heat insulation shaft, a heat insulation shaft on the other side of the first evaporator and a second evaporator on the other side of the heat insulation shaft. The invention by setting the body, the first evaporator, heat insulation pad, and thrustaugmenting nozzle, the first evaporator and the second evaporator through multiple thrustaugmenting nozzle can improve placed the temperature in the cabinet to reduce the rate of heat conduction block can be placed in the quantity of heat to the thermal conductivity of thrust-augmenting nozzle, solves the existing equipment to reduce temperature efficiency is slow, heat insulation effect is not good, easy to cause external heat into the equipment, affecting the practicability of low temperature storage of drugs.



21: 2022/06734. 22: 2022/06/17. 43: 2022/07/20 51: A61F

71: Hwa Mei Hospital, University of Chinese Academy of Sciences

72: Chuntao Tan

33: CN 31: 202220463074.9 32: 2022-03-04 54: A SPLINT FIXING DEVICE FOR ORTHOPEDICS

00: -

The invention discloses a splint fixing device for orthopedics. It includes an upper splint, a lower splint and a fixing component. The fixing component includes an upper fixing seat arranged on the upper splint, a lower fixing seat arranged on the lower splint, a connecting column fixedly connected with the upper fixing seat and lower fixing seat, two connecting plates symmetrically arranged on both sides of the upper splint and the lower splint respectively, a sliding ring fixedly connected with the connecting plate, a bolt arranged on the top of the upper splint, an internal thread ring fixedly arranged on the upper fixing seat, a guide ring arranged on the bottom surface of the internal thread ring, a guide groove arranged on the upper fixing seat, antislip ring fixedly connected with guide ring, an antistripping cavity arranged on the upper fixing seat and a buffer component for the buffer of the lower splint. The invention can make the upper splint, the

upper splint and the fixing component be able to have the splint and the affected part be fixed, the affected part and the splint are closely connected by setting the upper splint, the upper splint and the fixing component and it has the advantages that the upper splint, the lower splint and the fixing parts can fix the splint and the affected part, and are convenient to disassemble. It solves the problem that the existing splint is fixed to the splint by using bandages, this kind of fixed way causes the splint and the affected area not to be able to closely fit and is not convenient to disassemble.



21: 2022/06773. 22: 2022/06/20. 43: 2022/08/19 51: G06Q

71: Muhammed Basid Amnas, Dr. Murugesan Selvam, Dr. Balasundram Maniam, Dr. Mariappan Raja, Dhamotharan Dhanasekar, Sakthivel Santhoshkumar

72: Muhammed Basid Amnas, Dr. Murugesan Selvam, Dr. Balasundram Maniam, Dr. Mariappan Raja, Dhamotharan Dhanasekar, Sakthivel Santhoshkumar

54: FINTECH AND FINANCIAL INCLUSION SYSTEM FOR TESTING THE MEDIATING EFFECT OF DIGITAL FINANCIAL LITERACY 00: - The present invention relates to Fintech and financial inclusion system for testing the mediating effect of digital financial literacy. The objective of the present invention is to solve the problems in the prior art technologies related to computer implemented financial data analysis for determine digital financial literacy.



21: 2022/06774. 22: 2022/06/20. 43: 2022/08/19 51: E02D

71: Jianguo Zhu, Panfeng Ren, Peipei Wang 72: Jianguo Zhu, Panfeng Ren, Peipei Wang, Ze Wang, Susu Zhao, Bailong Gong, Xueni Yan, Lin Yu, Ke Xu, Kaiwei Zhu, Xinxiao Chen

54: CONSTRUCTION METHOD FOR FOUNDATION PIT SUPPORT BY USING SPARSE PILES AND CURVED-FACE PLATE SHELLS 00: -

The invention discloses a construction method for foundation pit support by using sparse piles and curved-face plate shells. The construction method is a support method obtained by improving a concrete close pile support method. The support method is composed of three parts, namely forced piles, the curved-face plate shells and a horizontal supporting system; the curved-face plate shells replace most of the close piles, the forced pile and the curved-face plate shells are connected through rabbets, the plate shells and a pit top support system are connected into a complete system, and the curved-face plate shells are high in support rigidity and have the advantage of being small in deformation after a foundation pit is excavated; and the construction method can adapt to various complicated geological conditions, construction is simple, and the scheme can be transplanted.



21: 2022/06775. 22: 2022/06/20. 43: 2022/08/19 51: E04G

71: Jiangsu Ocean University, Lianyungang Housing Safety Appraisal Management Center
72: Mingzhi Song, Zhong Liu, Shaorong Guan, Xiuhua Wang, Cun Feng, Yuhang Zuo, Shiheng Tao, Zhenqi Li, Peng Huang, Hongbo Xu

54: REINFORCEMENT METHOD FOR GRID STRUCTURE ROD PIECE

00: -

The invention relates to a reinforcement method for a grid structure rod piece, which comprises the following steps that a pressed rod piece which needs to be reinforced is selected, chord member reinforcing frames are arranged on four chord members connected with each spherical joint by using the spherical joint at the end part of the pressed rod piece as the center, each chord member reinforcing frame is formed by four supporting rods arranged between each two adjacent chord members, and both ends of each supporting rod are connected with the corresponding chord members by chord member connecting seats; web member reinforcing frames are arranged on four web members connected with each spherical joint, each web member reinforcing frame is formed by four supporting rods arranged between each two adjacent web members, and both ends of the supporting rod are connected with the corresponding web members by web member connecting seats; and diagonal bars are arranged between each chord member connecting seat and two adjacent web member connecting seats and one reinforcing supporting group is formed by the chord member reinforcing frames, the web member reinforcing frames and the diagonal bars at the position of each spherical joint, so that bearing capacity of the pressure-resistant rod piece is improved.



21: 2022/06776. 22: 2022/06/20. 43: 2022/08/19 51: E21F

71: Guizhou University, Bijie Zhongcheng Energy Co., Ltd.

72: Zhenqian Ma, Xiaolei Feng, Jinhai Shang, Xingxing Zheng, Lang Zhou, Jimin Zhang, Hang Mu, Zhihao Li

54: A RAPID PREPARATION AND DRYING METHOD OF GYPSUM BOARD FOR LABORATORY

00: -

A method for rapid preparation and drying of gypsum board for laboratory comprises a box body, which is a rectangular or rectangular hollow structure, and a box door is arranged on the front of the box body; Gypsum mold box, a plurality of gypsum mold box interval distributed in the box inside; The guide plate is arranged on both sides of the inclined guide plate at the lower position of each gypsum mold box, and the guide plate is installed on both sides of the inner wall of the box; The heating pipe is installed on both sides of the inner wall of the box body; Scraping rod, the top surface of each plaster mold box is provided with a scraping rod; The driving device is connected with the scraping rod, driving the scraping rod to move on the top surface of the gypsum mold box; The mixer is arranged on the top of the box body, the discharging pipe of the mixer extends into the inside of the box body, and the discharging port is arranged on the top of a plaster mold box. The method provided by the invention combines the

functions of gypsum powder mixing, gypsum board preparation and drying, and is suitable for the molding and drying of a small amount of gypsum board in the laboratories of universities and some scientific research institutions.



21: 2022/06777. 22: 2022/06/20. 43: 2022/08/19 51: C12N

71: Hunan Institute of Engineering

72: Ru ZHANG, Zhaoying LI, Bianling ZHANG, Shiquan TAN

33: CN 31: 202210491395.4 32: 2022-05-07 54: PGJMT1 GENE FOR REGULATING METHYL JASMONATE SYNTHESIS IN GINSENG AND ITS APPLICATION

00: -

The invention provides a PgJMT1 gene for regulating the synthesis of methyl jasmonate in ginseng and its application. The PgJMT1 gene for regulating methyl jasmonate synthesis in ginseng is derived from ginseng. The PgJMT1 gene sequence is shown in SEQ ID No. 1. The amino acid sequence of the protein encoded by the PgJMT1 gene is shown in SEQ ID No. 2. The protein encoded by the PgJMT1 gene has an obvious functional gene sequence unique to jasmonate

carboxymethyltransferase and a classical S-

adenosyl-L-methionine binding domain, belonging to jasmonate methyltransferase (JMT). This protein is the key enzyme that catalyzes the synthesis of

MeJA from JA in the MeJA synthesis pathway, and controls the transformation of jasmonic acids in plants. When the constructed PgJMT1 gene overexpression vector was transformed into ginseng leaves mediated by Agrobacterium, the contents of MeJA and ginsenosides in the ginseng leaves with moderate expression of PgJMT1 gene were significantly increased. The present invention has potential application value in improving the yield of ginsenosides and improving the quality of ginseng by utilizing the PgJMT1 gene in ginseng.



21: 2022/06779. 22: 2022/06/20. 43: 2022/08/19

51: C12N

71: Yancheng Teachers University, Shandong Zhuzi Biotechnology Co., Ltd, Zhucheng Rural Revitalization Bureau

72: CAO Hongwei, ZHANG Heng, XUE Xijuan, GU Xiaoyi, ZHANG Hua, WU Zhijun, GAO Zhenqiu, SUN Jie, WANG Beiru, ZHU Haiyan, ZHANG yan, SONG Guicai, ZHAO Hansong

54: A METHOD FOR SEPARATING AND IDENTIFYING DUCK CIRCOVIRUS BY LMH CELLS IN VITRO

00: -

The invention discloses a method for separating and identifying duck circovirus by LMH cells in vitro, which comprises the following steps: (1) Resuscitation and subculture of LMH cells; (2) Grinding and sterile filtering the diseased spleen material which is positive for detecting duck circovirus; (3) Inoculating LMH cells with the filtrate of diseased materials according to the ratio of 1/50; (4) D-glucosamine and trypsin are added at the same time of inoculation. The establishment of the invention has the following beneficial effects: the cell subculture of duck circovirus in vitro is realized for the first time, and the problem that duck circovirus can not be cultured in vitro at present is preliminarily solved; It lays a foundation for further understanding the pathogenesis of duck circovirus.



21: 2022/06780. 22: 2022/06/20. 43: 2022/08/19 51: C12N

71: Yancheng Teachers University, Shandong Zhuzi Biotechnology Co., Ltd

72: CAO Hongwei, GAO Zhenqiu, GU Xiaoyi, ZHANG Heng, ZHANG Hua, WU Zhijun, SUN Jie, FENG Wei, ZENG Lina, ZHANG Yan, ZHU Haiyan, SONG Guicai

54: A METHOD FOR EFFICIENTLY OBTAINING RECOMBINANT BACULOVIRUS BY USING SF9 SUSPENDED INSECT CELLS 00: - The invention relates to the field of biological genetic engineering, and discloses a method for efficiently obtaining recombinant baculovirus by using sf9 suspended insect cells. The method comprises the following steps: (1) Healthy suspended sf9 insect cells are used as transfection recipient cells, and a 6-well plate is arranged; (2) Using endotoxin-free plasmid extraction kit to extract recombinant transfer vector plasmid; (3) Using qBac-IIIG plasmid and retransfer vector P1064 plasmid system to carry out recombinant baculovirus rescue vector; (4) The recombinant baculovirus is obtained by transferring qBac-IIIG plasmid and recombinant transfer vector P1064 into healthy suspension sf9 insect cells with the help of Sinofection transfection reagent. The establishment of the method for efficiently obtaining recombinant baculovirus by using sf9 suspended insect cells in the invention has the following advantages: the suspended SF9 insect cells can be used for transfection, and the transfection efficiency is high; the success of transfection and the transfection efficiency can be directly judged by fluorescence microscope in the early stage, which lays a working foundation for the vaccine industry to efficiently obtain recombinant baculovirus expression vaccine antigen.



21: 2022/06781. 22: 2022/06/20. 43: 2022/08/19 51: C12N

71: Yancheng Teachers University, Shandong Zhuzi Biotechnology Co., Ltd, Zhucheng Rural Revitalization Bureau

72: CAO Hongwei, ZHANG Heng, SUN Jie, GU Xiaoyi, ZHU Haiyan, ZHANG Yan, SONG Guicai, ZHAO Hansong, ZHANG Hua, WU Zhijun, GAO Zhenqiu, WANG Beiru, FENG Wei, ZENG Lina 54: A METHOD FOR PREPARING BIGEMINAL INACTIVATED VACCINE OF NEWCASTLE DISEASE VIRUS (GENE TYPEVII) AND AVIAN INFLUENZA VIRUS (H9 SUBTYPE) 00: -

The invention discloses a method for preparing bigeminal inactivated vaccine of Newcastle disease virus (gene type VII) and avian influenza virus (H9

subtype), including the following contents: (1) The invention relates to a production process for culturing Newcastle disease gene type VII virus by using suspended BHK-21 cells, so that the titer of the harvested antigen is greater than 9; (2) A production process for culturing H9N2 subtype avian influenza virus with suspended MDCK cells, so that the antigen titer is greater than 10; (3) Newcastle disease gene type VII and H9N2 subtype avian influenza antigens cultured by suspension process are used to prepare bigeminal inactivated vaccine.



21: 2022/06782. 22: 2022/06/20. 43: 2022/08/19 51: C07K; C12N; C12R

71: Dalian Ocean University

72: DING, Jun, HAN, Lingshu, HAO, Pengfei, XIE, Jiahui, LI, Yuanxin, ZHANG, Xianglei, CHANG, Yaqing

54: PREPARATION AND USE OF RECOMBINANT STRONGYLOCENTROTUS INTERMEDIUS LYSOZYME PREPARATION USING PICHIA PASTORIS

00: -

The present disclosure provides preparation and use of a Strongylocentrotus intermedius lysozyme preparation in Pichia pastoris and belongs to the technical field of genetic engineering. A method comprises constructing a lysozyme protein expression vector, transforming into Pichia pastoris, expressing and purifying a recombinant Strongylocentrotus intermedius lysozyme, and using a Strongylocentrotus intermedius lysozyme preparation. A recombinant expression of the Strongylocentrotus intermedius lysozyme in Pichia pastoris is prepared into a safe and edible green antibacterial preparation. The preparation is used to reduce potential safety hazards in transportation and breeding of sea urchin food.



21: 2022/06785. 22: 2022/06/20. 43: 2022/08/19 51: A62C

71: Hebei Jiecheng Doors and Windows Co., Ltd. 72: WANG, Zhenguo, WANG, Yiran, LV, Xuedong, SONG, Yulin

33: CN 31: 202111518541.X 32: 2021-12-13 54: AUTOMATIC SPRINKLER SYSTEM FOR BUILDING OUTER WALLS

00: -

The present application relates to a building outer wall automatic sprinkler system, comprising: a highrise fire protection water tank arranged on a roof of the building for storing water; a plurality of spraying devices for spraying floors on fire; a water pipe in communication with the high-rise fire protection water tank and the spraying device so as to conduct the water in the high-rise fire protection water tank to the spraying device; several detection devices are used for detecting the state of a building wall body in real time and outputting a corresponding detection signal.



21: 2022/06787. 22: 2022/06/20. 43: 2022/08/19 51: A01G

71: DR. VISHWANATH KARAD'S MIT WORLD PEACE UNIVERSITY, DHANASHREE KANHAYYALAL BARBOLE, DR. PARUL MADHURAJ JADHAV

72: Dhanashree Kanhayyalal Barbole, Dr. Parul Madhuraj Jadhav

54: A MULTI-REGRESSION GRAPE WEIGHT PREDICTION SYSTEM AND A METHOD THEREOF

00: -

A Grape Weight Prediction system and a method thereof, comprises of: an image acquisition module (102) for capturing atleast a raw images of vineyard to create a dataset (102a); a convolutional neural network module (104) connected with the image acquisition module (102) for forming a training and validation subset from the created dataset (102a); a segmentation module (106) connected to the convolution neural network module (104) for segmenting the raw images to extract Region of Interest (ROI); and a multi-regression module (108) interconnected with the segmentation module (106) and the image acquisition module (102) for evaluating correlation between area of the ROI, weight of cluster and depth of grape cluster acquired from the image acquisition module (102).



21: 2022/06791. 22: 2022/06/20. 43: 2022/08/19 51: G09B

71: NATIONAL INSTITUTE OF TECHNOLOGY-CALICUT, ALOK KUMAR SAMANTA, DR. GARAPATI VARAPRASAD 72: ALOK KUMAR SAMANTA, DR. GARAPATI VARAPRASAD 54: MUDRA PRABHA 00: -

The present utility model relates to a portable currency identification device (mudra prabha) that aids visually challenged people to identify various denominations of currency including paper notes and coins based on dimensions. The portable currency identification device comprises a flat base, at least two vertical projections, plurality of tactile indications, and at least two rectangular slots. The portable currency identification device provides tactile indications at predefined positions that indicate the value of various currencies and aid visually impaired users. The compact currency identification device can be carried by the user easily as it fits in any pocket or wallet. The present portable currency identification device is capable of identifying any paper notes even the paper notes with similar dimensions.



21: 2022/06796. 22: 2022/06/20. 43: 2022/08/19 51: F16L

71: Shenyang University of Technology

72: SU, Yuming, GENG, Hao, YANG, Lijian, WANG, Guoqing, SHI, Meng, ZHENG, Fuyin, GAO, Pengfei, LI, Jiayin

33: CN 31: 202210518192.X 32: 2022-05-12 54: PLACEMENT AND WITHDRAWAL DEVICE FOR INTERNAL DETECTOR OF PIPELINE, PLACEMENT AND WITHDRAWAL METHOD, AND INTERNAL DETECTOR 00: -

The invention discloses a placement and withdrawal device for an internal detector of a pipeline, a placement and withdrawal method, and an internal detector. The placement and withdrawal device

includes a main tube and a branch tube; a first end of the main tube and the main tube are respectively provided with a first valve and a second valve; a gas pipeline includes a first branch pipe and a second branch pipe which are disposed in sequence along a gas conveying direction; a second end of the main tube is communicated to the first branch pipe and the second branch pipe through a three-way valve; a first end of the branch tube is communicated to the main tube; a joint of the branch tube and the main tube is located between the first valve and the second valve.



21: 2022/06798. 22: 2022/06/20. 43: 2022/08/19 51: F17D

71: Shenyang University of Technology

72: SU, Yuming, GENG, Hao, YANG, Lijian, WANG, Guoqing, SHI, Meng, ZHENG, Fuyin, GAO, Pengfei, LI, Jiayin

33: CN 31: 202210519567.4 32: 2022-05-12 54: MULTI-SECTION SPHERICAL INTERNAL DETECTOR FOR PIPELINE

00: -

The present disclosure discloses a multi-section spherical internal detector for a pipeline, including at least two spherical structures arranged side by side, wherein the diameter of each spherical structure is equal to the diameter of the pipeline, and any two adjacent spherical structures are connected through a flexible connecting piece; a defect detection device arranged inside a spherical structure and used for detecting a defect of the pipeline; a defect positioning device arranged inside the spherical structure and used for determining the position of the defect; and a power supply device arranged inside the spherical structure, wherein both the defect detection device and the defect positioning device are electrically connected to the power supply device. The multi-section spherical internal detector for the pipeline has good trafficability in an urban gas pipeline and can realize internal detection of a defect of the pipeline.



21: 2022/06800. 22: 2022/06/20. 43: 2022/08/19 51: B23K

71: Yangzhou wosheng Automobile Manufacturing Co., Ltd

72: Mansong SHENG

54: ONE-STEP MOLDING PROCESS FOR MINING VEHICLE CAB COVER

00: -

The invention relates to a one-step molding process for mining vehicle cab cover, including the following steps: a) Fix the cab mounting baseplate onto the precision mold located under the assembly line; b) Divide the cab into N parts, formulate the welding sequence from 1 to N, and the N parts are divided into N-1 parts; c) Prepare the materials for N parts in sequence in the order of 1-N; d) Fix the N parts in the order of 1-N through the fixture and weld them in sequence, and then reshape and grind the N parts respectively; e) Carry out the rainfall tests in sequence; f) Assemble a plurality of cab modules in step b into N-1 independent cab modules according to their respective components sequentially; g) Assemble the N-1 independent cab modules into a whole at one time in the order of 1-N. The invention divides the cab assembly into a plurality of components and a plurality of modules step by step, which is beneficial to the specialization of the production of product parts, and also be helpful to improve the production efficiency in more stable quality.

21: 2022/06801. 22: 2022/06/20. 43: 2022/08/19 51: G01C; G01K

71: LIU, Lu

72: LIU, Lu, TIAN, Mingde, CHENG, Bin

54: A CLOUD DETECTION METHOD BASED ON LANDSAT 8 SNOW-CONTAINING IMAGES 00: -

The present disclosure relates to a cloud detection method based on Landsat 8 snow-containing image, including the following steps: Step 1, selecting any Landsat 8 image as the current image; Step 2, obtaining a cloud threshold for delimiting the cloud range in the current image; Step 3, removing false anomalies in the cloud range delineated by the cloud threshold in the current image, and obtain a cloud image after removing false anomalies. The present disclosure can effectively solve the problem of confusion of cloud and snow present in conventional cloud detection methods, and is applicable to regions of different latitudes, without limitations by the amount of cloud.



21: 2022/06908. 22: 2022/06/22. 43: 2022/07/25 51: C07K

71: Zhejiang Academy of Agricultural Sciences 72: Wang Ying, Wu Xiaohua, Wang Jian, Wu Xinyi, Wang Baogen, Lu Zhongfu, Li Guojing

54: A FRUIT SHAPE DEVELOPMENT-RELATED PROTEIN AND ITS CODING GENE AND APPLICATION

00: -

The invention discloses a fruit shape developmentrelated protein, and its coding gene and application. After expressing the DNA molecule shown in the invention (the target gene is LsFS1 gene), transgenic tomato plants with over-expression of LsFS1 gene are obtained, and the fruits of the transgenic tomato plants become longer then WT, the fruit shape index obviously becomes larger, and the expression level of LsFS1 gene is up-regulated in transgenic tomato plants. Accord to that invention, the protein LsFS1 related to fruit shape development of bottle gourd is identify for the first time, and the coding gene of the protein LsFS1 can cause the phenotype of tomato fruit deformation and elongation, which prove that the protein LsFS1 related to fruit shape development in plants. The invention not only provides new gene resources for fruit shape improvement of bottle gourd, but also expands our cognition on fruit shape development regulation of vegetable crops.



21: 2022/06909. 22: 2022/06/22. 43: 2022/07/25 51: A01G

71: Shangrao Normal University

72: YIN Minghua, HONG Senrong 54: METHOD FOR TETRASTIGMA HEMSLEYANUM DIELS ET GILG FROM HUAIYU MOUNTAIN VIRUS-FREE BY CRYOTHERAPY OF VITRIFICATION

00: -

The invention discloses a method for Tetrastigma hemsleyanum Diels et Gilg from Huaiyu Mountain virus-free by cryotherapy of vitrification, belonging to the technical field of virus-free plant. The specific steps disclosed include: (1) pre-culturing aseptic seedlings of Tetrastigma hemsleyanum Diels et Gilg from Huaiyu Mountain; (2) cutting the stem tips of the aseptic seedlings of Tetrastigma hemsleyanum Diels et Gilg from Huaiyu Mountain after pre-culture in step (1), and carrying out differentiation culture to

obtain Tetrastigma hemsleyanum Diels et Gilg from Huaiyu Mountain seedlings; (3) cutting the stem tips of the Tetrastigma hemsleyanum Diels et Gilg from Huaiyu Mountain seedlings obtained in the step (2), loading the stem tips with PVS2 solution with a concentration of 50-60%, dehydrating the stem tips with PVS2 solution containing nano calcium carbonate, and freezing the container containing PVS2 solution and the stem tips at ultra-low temperature; and (4) thawing the stem tips frozen at the ultra-low temperature in step (3), and then performing recovery culture to obtain virus-free seedlings of Tetrastigma hemsleyanum Diels et Gilg from Huaiyu Mountain. The stem tips of Tetrastigma hemsleyanum Diels et Gilg from Huaiyu Mountain treated by the method for Tetrastigma hemsleyanum Diels et Gilg from Huaiyu Mountain virus-free by cryotherapy of vitrification provided by the invention not only have high survival rate, but also have high virus-free rate of surviving seedlings.

21: 2022/06910. 22: 2022/06/22. 43: 2022/07/25 51: C12N; C12Q

71: GUANGXI ACADEMY OF AGRICULTURAL SCIENCES

72: HUANG Lifang, DENG Haiyan, WU Zhijiang, LIANG Guidong, HUANG Fengzhu, LU Guifeng, LIU Chaoan

54: QUADRUPLE RT-PCR SPECIFIC AMPLIFICATION PRIMER SET AND QUADRUPLE RT-PCR METHOD FOR SYNCHRONOUSLY DETECTING FOUR PITAYA VIRUSES 00: -

The present invention provides a guadruple RT-PCR specific amplification primer set and a quadruple RT-PCR method for synchronously detecting four pitaya viruses. The quadruple RT-PCR specific amplification primer set in the present invention is used for synchronously detecting four pitaya viruses; the quadruple RT-PCR specific amplification primer set comprises four primer pairs, and the four primer pairs are: CVX-NTU-P6, CVX-P4, SchVX-P1 and ZyVX-P2. According to the invention, a quadruple RT-PCR primer set and a quadruple RT-PCR method for synchronously detecting CVX-NTU, CVX, SchVX and ZyVX these four viruses of pitaya are established. They are used for early identification of virus-free seedlings of pitaya and infected plants in the field, provide technical support for virus-free seedling breeding and popularization, and ensure

the sustainable and healthy development of pitaya industry.



21: 2022/06911. 22: 2022/06/22. 43: 2022/07/25 51: B25J

71: Anhui Medical College

72: WAN, Jin, HU, Jifen, XU, Hui, HAN, Qihui 54: INTERACTIVE VR DISPLAY ROBOT 00: -

The present invention relates to the technical field of virtual reality (VR) display robots, and particularly relates to an interactive VR display robot, which solves the problems that in the prior art, many people wear myopia glasses, it is inconvenient to wear VR glasses outside the myopia glasses, and the VR glasses need to be kept manually and are prone to loss. An interactive VR display robot includes a base, a rotating frame, a display screen and a backrest. A touch screen is fixedly mounted at a position of an armrest of the rotating frame, the rotating frame is rotationally mounted on the top of the base, the display screen is fixedly mounted on a surface of the rotating frame, the backrest is fixedly mounted on the surface of the rotating frame, an accommodating cavity is formed in a middle part of an upper end of an outer wall of the backrest, and a movable connecting seat is arranged inside the

accommodating cavity. The present invention facilitates an experiencer to use a VR lens while wearing glasses, thereby enhancing the user experience. Moreover, the VR lens is directly mounted on the device, thereby avoiding the situation of loss of a traditional VR lens and facilitating the use.



21: 2022/06912. 22: 2022/06/22. 43: 2022/07/25 51: G01N

71: DU LAN JINHUI MINING CO., LTD. 72: YE, Jiang, YANG, Deming, GUAN, Youguo, WANG, Qian, LI, Junbang, SHEN, Ning 54: PACKING METHOD FOR ADSORPTION COLUMN DURING GOLD ENRICHMENT OF GOLD ORE SAMPLE

00: -

The present disclosure provides a packing method for an adsorption column during gold enrichment of a gold ore sample, and relates to the technical field of analysis and testing. In the existing method, the adsorption column is packed with packing materials in the following order: "orifice plate-filter paper-white pulp-activated carbon pulp-white pulp-filter paper". In the present disclosure, the order is improved as "orifice plate-filter paper-white pulp-activated carbon pulp-white pulp-filter paper-white pulp-activated carbon pulp-white pulp-filter paper-orifice plate-filter paperwhite pulp-filter paper". The thickness of the packing materials and the packing materials in the adsorption column are increased, so as to reduce a filtration speed, increase adsorption efficiency, reduce impurities in an activated carbon layer, further optimize an ashing effect, and improve stability of a recovery rate.



21: 2022/06913. 22: 2022/06/22. 43: 2022/07/25
51: B03B; B03D
71: DU LAN JINHUI MINING CO., LTD.
72: MING, Pingtian, LI, Fei, XING, Qingqing, DING, Chao, MA, Shengping
54: FLOTATION PROCESS FOR OXIDATIVELY
ALTERED HIGH-CARBON AND LOW-SULFUR
FINE-GRAINED-ULTRAFINE-GRAINED
DISSEMINATED GOLD ORE
00: The present disclosure provides a flotation process

for oxidatively altered high-carbon and low-sulfur fine-grained-ultrafine-grained disseminated gold ore, which relates to the technical field of flotation. The flotation process provided by the present invention comprises the following steps: carrying out grinding, primary classification and secondary classification of oxidatively altered high-carbon and low-sulfur finegrained-ultrafine-grained disseminated gold ore sequentially to obtain gold ore pulp; carrying out carbon preflotation of the gold ore pulp to obtain carbon concentrate and carbon preflotation tailings; carrying out roughing of the carbon preflotation tailings to obtain rougher concentrate; carrying out cleaner flotation of the carbon concentrate and the rougher concentrate to obtain gold concentrate. The flotation process provided by the present disclosure can effectively recover gold concentrate from oxidatively altered high-carbon and low-sulfur finegrained-ultrafine-grained disseminated gold ore.



21: 2022/06914. 22: 2022/06/22. 43: 2022/07/25 51: E21B

71: DU LAN JINHUI MINING CO., LTD. 72: GUAN, Youguo, SHEN, Ning, LV, Zhiyun, LI, Xinben, XING, Qingqing, YANG, Deming 54: HAND-VISE-LIKE FRACTURED AND DRILLED CORE SAMPLING DEVICE 00: -

The present invention discloses a hand-vise-like fractured and drilled core sampling device, including a hand-vise-like left leg and a hand-vise-like right leg which are crosswise disposed and are hinged to each other at a cross point; and a sampling box and a sampling box cover plate; top ends of the two legs are respectively a left handheld part and a right handheld part; tail ends of the two legs are respectively connected with the sampling box and the sampling box cover plate; and the sampling box cover plate is matched with an opening of the sampling box. The cover plate that is manufactured according to the shape of a cross section of a core case is used for accurately locating and separating fracture rock on different rock stratums and pushing the sampled fracture rock into the sample box by the conducted force.



21: 2022/06915. 22: 2022/06/22. 43: 2022/07/20 51: B65G

71: DU LAN JINHUI MINING CO., LTD.

72: GUAN, Youguo, PENG, Feng, ZHANG, Suigeng, SHEN, Cong

54: AUTOMATIC ORE CHUTE ON TAILINGS DAM 00: -

The present invention discloses an automatic ore chute on a tailings dam, including a chute body and an ore discharge branch pipe arranged on the chute body; an inlet of a head end of the chute body is connected to a main tailings pipeline; several ore discharge branch pipes are distributed at a bottom of the chute body; an opening degree of each ore discharge branch pipe is controlled by an electric gate valve. The automatic ore chute on the tailings dam in the present invention has the advantages of long service life and convenience of maintenance and discharge control.



21: 2022/06916. 22: 2022/06/22. 43: 2022/07/25 51: A01G

71: Institute of Horticulture, Sichuan Academy of Agricultural Sciences

72: SUN Shuxia, CHEN Dong, LI Jing, SONG Haiyan, WANG Lingli, TU Meiyan, JIANG Guoliang 54: METHOD FOR ASEXUAL PROPAGATION OF GF677 PEACH ROOTSTOCK 00: -

The invention discloses a method for asexual propagation of GF677 peach rootstock, which relates to the technical field of propagation methods of peach rootstocks. The method comprises the

following steps: shading the mother plant of GF677 peach rootstock in the field; Acquisition of cutting twigs; Configuration and treatment of cutting substrate; Treatment of cutting twigs with growth regulators and cutting; Management after cutting; Hardening of cuttage seedlings. This scheme has the advantages of making GF677 peach rootstock give full play to its strong grafting affinity, salt and alkali resistance, drought resistance, soil barren resistance, and peach continuous cropping resistance, etc., breaking through the bottleneck of low rooting rate of GF677 peach rootstock cutting propagation, realizing the rapid scale production of GF677 peach rootstock cutting seedlings, greatly reducing the production cost and improving the yield and quality of peaches.



54: MESH BELT FURNACE DEVICE FOR SHAFT WORKPIECE HEAT TREATMENT PROCESS 00: -

The present invention discloses a mesh belt furnace apparatus for heat treatment process of shaft workpieces in the field, including a furnace body, further including a feeding conveyor belt mechanism installed with the furnace body for feeding shaft workpieces into the furnace body from the feeding end position of the furnace body, further including a mobile feeding part corresponding to the feeding end position of the feeding conveyor belt mechanism, said mobile feeding part includes a main frame, further including two pairs of rollers mounted on the lower side of the main frame for supporting the floor, further including a center rotation shaft, a conveyor frame, a drive motor, a drive shaft, a drive roller, a flexible conveyor belt, a driven roller, a follower roller, a controller. The said mobile loading part includes a main frame, further comprising two pairs of rollers mounted on the lower side of the main frame for supporting the ground, further comprising a center rotation shaft, a conveyor frame, a drive motor, a drive shaft, a drive roller, a flexible conveyor belt, a driven roller, and a controller. It can neatly arrange the shaft workpieces and is not easy to burn the operator.



- 21: 2022/06919. 22: 2022/06/22. 43: 2022/07/25 51: B01D
- 71: Yunnan Minzu University

72: JIA Lijuan, NING Ping, ŻHANG Man, WANG Fang, LIU Tiancheng, LI Kai, QIN Ling, LI Zizhen 54: METHOD FOR REMOVING LOW-CONCENTRATION SO2 BY ULTRASONIC ATOMIZATION CATALYTIC OXIDATION 00: -

The invention discloses a method for removing lowconcentration SO2 by ultrasonic atomization catalytic oxidation, aiming at low-concentration SO2

flue gas which is difficult to treat, adopting ultrasonic atomization technology to atomize manganese sulfate absorption liquid to form a large number of uniform and stable droplets, and carrying out catalytic oxidation reaction with SO2 and O2 in the flue gas. The method increases the gas-liquid contact area, reduces the mass transfer resistance, and improves the removal efficiency of lowconcentration SO2 by absorption liquid. The method of the invention has simple process, simple main equipment, high desulfurization rate at normal temperature and pressure, simple operation and low cost, and can be used for the removal of lowconcentration SO2 in sulfuric acid industry.



21: 2022/06920. 22: 2022/06/22. 43: 2022/07/25 51: G01V

71: The Fourth Geological Exploration Institute of Qinghai Province

72: Gong Zhiyuan, Pan, Tong, Chen Jianzhou, Chao Haide, Wang Qiwei, Xie Jing, Xu Yongfeng, Li Qing, Li, Wenzhong, Liu Libo, Li Jiqing, Cai Tingjun

54: AN EVALUATION METHOD OF HELIUM GENERATION POTENTIAL OF DIFFERENT TYPES OF ROCKS

00: -

The invention provides an evaluation method of helium generation potential of different types of rocks, and relates to the technical field of oil field exploration and development. The evaluation method of helium generation potential of different types of rocks includes the following steps: Step 1, determining whether there are magmatic rocks, metamorphic rocks and sedimentary rocks with large area distribution and thick thickness in the study area through gravity, magnetism, electricity, earthquake and remote sensing data, and judging whether there are radioactive anomalies through geochemical analysis data; Step 2, taking representative samples, analyzing the average contents of uranium and thorium in the geological body of helium source rock, and judge whether they are higher than the background value; Step 3, analyzing helium content and components in geological bodies with high uranium and thorium content; Step 4: Through data collection, the distribution area, thickness, rock density and geological age data of the target geological body are obtained, and the potential helium production of each geological body is calculated. The helium generation potential of different types of rocks can be quantitatively evaluated, which has certain indication and resource basis for later helium exploitation.



21: 2022/06921. 22: 2022/06/22. 43: 2022/07/25 51: C12M

71: HUNAN ACADEMY OF CHINESE MEDICINE 72: JIN, Jian, ZHONG, Can, XIE, Zhenni, ZHANG, Shuihan

54: KIT FOR RAPID ASSAY OF PROBIOTIC ACTIVITY AND ASSAY METHOD THEREOF 00: -

The present invention discloses a kit for rapid assay of probiotic activity and an assay method thereof, and the kit comprises a PBS buffer solution, a Polygonatum sibiricum polysaccharide extract, an MTT staining solution and dimethyl sulfoxide. The specific assay method comprises the following steps: S1: placing 1-5 ml of a probiotic bacteria solution in a sterile centrifuge tube, adding the Polygonatum sibiricum polysaccharide at a volume ratio of 1:0.5-1, centrifugating and discarding a supernatant; S2: adding 4-5 ml of the PBS buffer to the bacteria solution in the S1, resuspending a

bacterial precipitate, and vortex oscillating until no bacterial mass is present; S3: adding 0.5-2 ml of the MTT staining solution to a mixture obtained in the S2 and mixing evenly; S4: placing a mixture obtained in the S3 in a 37 degrees Celsius incubator protected from light for reaction for 0.5-4 h, then centrifugating for 4-6 min, and discarding a supernatant; S5: adding 1-5 ml of dimethyl sulfoxide to a centrifugated reaction product obtained in the S4, vortex oscillating until no bacterial mass is present, placing at room temperature away from light and discarding a precipitate; and S6: placing a supernatant obtained in the S5 in an ultraviolet spectrophotometer and measuring an absorbance value thereof. The present invention improves assay accuracy and increases assay speed.

21: 2022/06927. 22: 2022/06/22. 43: 2022/07/21 51: A61B

71: MANIPAL UNIVERSITY JAIPUR

72: Mrs. Shikha Mundra

54: INTELLIGENT IOT TECHNIQUE FOR HEALTH MONITORING USING SMART BRACELET 00: -

The present invention relates to an intelligent IoT technique for health monitoring using a smart bracelet (100). The intelligent IoT technique for health monitoring using a smart bracelet (100) comprises a bracelet unit (102), an alert generating unit (108), and a display unit (110). The bracelet unit (102) is configured to monitor patient health. The bracelet unit (102) comprises a plurality of sensors and a control processing unit. The plurality of sensors is configured to detect health-related information of the patient. The control processing unit (106) is operationally connected with a plurality of sensors. The alert generating unit (108) is operationally connected with the bracelet unit (102). The alert generating unit (108) is configured to generate an alert signal on detection of the abnormal condition. The intelligent IoT technique for health monitoring using a smart bracelet (100) can monitor the health of patients to reduce the risk of sudden health emergencies.



- 21: 2022/06928. 22: 2022/06/22. 43: 2022/07/21 51: C07D
- 71: Beijing Normal University

72: Changqi Zhao, Chen Zhang, Shoujie Li, Dongmei Cui

54: SINOMENINE DERIVATIVE AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF 00: -

The invention provides a sinomenine derivative. The structural formula of the sinomenine derivative is as shown in a formula I which is described in the specification. Specifically, R is any selected from the following groups: a p-chlorophenyl acetyl group, a 2,4-dichlorophenylacetyl group, an m-chlorophenyl acetyl group, and a 3,4-dichlorophenylacetyl group. The sinomenine derivative can be used for preparing a eukaryote tumor cell proliferation inhibitor or preparing a medicine for preventing and/or treating tumors. The sinomenine derivative provided by the invention has an obvious inhibition effect on human cervical cancer cell strains, human breast cancer cell strains, human colon cancer cells.



Formula I

21: 2022/06929, 22: 2022/06/22, 43: 2022/07/21 51: C12N

71: Beijing Normal University

72: Changqi Zhao, Xuan Zhang, Shoujie Li 54: METHOD FOR PREPARING PHENAZOCINE THROUGH MICROBIAL FERMENTATION AND STRAIN THEREOF

00: -

The invention discloses a method for preparing phenazocine through microbial fermentation and a strain thereof. The invention provides application of Pseudogymnoascus pannorum BJZ13 to preparation ofphenazocine. The Pseudogymnoascus pannorum BJZ13 has a collection register number of CGMCC No. 15389 in the China General Microbiological Culture Collection Center. The phenazocine can be prepared after fermentation culture of the Pseudogymnoascus pannorum BJZ13, and the method is simple in operation, low in cost and short in production cycle and has application potential of large-scale industrialproduction. The invention provides a novel pathway for resource development of phenazocine drugs.



21: 2022/06930, 22: 2022/06/22, 43: 2022/07/21 51: B65D

71: Shihezi University

72: Jiangdong Wu, Le Zhang, Wanjiang Zhang, Huan Lu, Dan Luo

54: KIT FOR HELPING TO DETECT **TUBERCULOSIS**

00: -

The invention discloses a kit for helping to detect tuberculosis. The kit comprises a kit body and a kit cover, wherein a square frame is arranged in the kit body, a strip-shaped plate is arranged below the square frame, a plurality of ejector rods are arranged on the strip-shaped plate, the bottom face of the strip-shaped plate is fixedly connected with the upper end of a guide rod, the periphery of the guide rod is sleeved with a guide sleeve in sliding fit with the guide rod, a first limiting mechanism based on the guide sleeve is arranged in the kit body, the front side and the rear side of the guide rod are fixedly connected with one ends of protruding columns correspondingly, the protruding columns are located in the kit body, first springs are arranged between the protruding columns and the guide sleeve, and the guide rod penetrates through the first springs. The kit is suitable for a detachable enzyme plate, and one enzyme plate strip can be ejected out by pressing the guide rod, so that experimental gloves of a user can be prevented from being scratched, and the breakage probability of an enzyme plate strip caused by careless operation can be reduced; particularly, the remaining enzyme plate strip is located in the kit body and can be refrigerated without being sealed, so that the time of sealing the unused enzyme plate strip by the user can be saved; and the kit can be repeatedly used after the enzyme plate is replaced.



21: 2022/06931. 22: 2022/06/22. 43: 2022/07/21 51: C07D

71: Beijing Normal University, Zhejiang University72: Changqi Zhao, Chen Zhang, Fei Dou

54: COMPOUND FOR PROMOTING A BELTA GATHERING AND PREPARATION METHOD AND APPLICATION THEREOF 00: -

The invention discloses a compound for promoting Abelta gathering and a preparation method and application thereof. The structural formula of the small molecule compound for promoting Abelta gathering is shown in the Formula I. Under the condition that acid serves as a catalyst, a deprotection reaction is conducted on a compound shown in the Formula II in ethanol water, and the compound for promoting Abelta gathering is obtained through reaction. According to the compound shown in the Formula I, the concentration of oligomers with high toxicity can be reduced by accelerating Abelta to gather to polymers with lower toxicity from monomers, and therefore the purpose of treating is achieved. (The Formula I and the Formula II are shown in the specification).



21: 2022/06974. 22: 2022/06/23. 43: 2022/07/21 51: C12N

71: Shanghai Academy of Agricultural Sciences 72: Zhang Yingying, Zhu Weimin, Liu Yahui, Lu Panling, Yang Xuedong, Huang Zhiwu, Zhang Hui 54: APPLICATION OF TOMATO SLSPS GENE TO IMPROVE THE PLANT THERMOTOLERANCE 00: -

This invention provides application of tomato SISPS gene in improving the thermotolerance of plants under thermotolerance., the nucleotide sequence of the gene SISPS is SEQ ID NO.1, and its corresponding amino acid sequence is shown in SEQ ID NO.2. Solanum lycopersicum SISPS overexpression plants or gene knockout plants were constructed by genetic means, and the expression level of the gene SISPS was regulated to study the regulation mechanism of tomato thermotolerance. The results showed that the overexpression of SISPS could promote the accumulation of sucrose and soluble sugar in plants at high temperature, and the proline content was also higher. Meanwhile, the activities of scavenging enzymes related to

antioxidant defense scavenging system, such as SOD, CAT and POD, were higher than those of knockout mutants and wild-type materials. Solanum lycopersicum materials overexpressing SISPS were more resistant to high temperature. Moreover, among 45 cultivars, the expression of SISPS gene in most materials showed a positive correlation with the survival rate of seedlings under high temperature stress. The invention provides gene resources for cultivating new tomato varieties with thermotolerance, has good potential application value, and lays a theoretical foundation for studying the mechanism of tomato plants responding to adversity signals and the molecular mechanism of tolerance to adverse environments.



21: 2022/06975. 22: 2022/06/23. 43: 2022/07/21 51: G09B

71: The Second Affiliated Hospital of Kunming Medical University

72: KE Yang, KANG Qiang, LI Yuehua, WANG Jiaping, LI YuKai, ZHENG Kai, JIANG Gaiming, LIANG Yubo

54: VIRTUAL SIMULATION SURGICAL TRAINING SYSTEM

00: -

The invention discloses a virtual simulation surgery training system, which comprises a data layer module for storing data information of virtual simulation teaching; The logic layer module, connected with the data layer, is used for managing the user's input and judging and feeding back the user's operation data according to the current operation scene; The rendering module is connected with the data layer and the logic layer, and is used for presenting the surgical training system model and the adaptation equipment terminal. The invention can effectively promote that deep integration of modern information technology and experimental teach in higher education, and enrich modern teach means in medical colleges; Solve the shortage of teaching resources and reduce the dependence on solid models/typical patients; Solve the problem of high risk of students' practical operation on patients, and reduce possible disputes between doctors and patients; Simulate and assess the operation that is difficult to assess in the original teaching model.



21: 2022/06976. 22: 2022/06/23. 43: 2022/07/21 51: D01D

71: JIYANG COLLEGE OF ZHEJIANG A&F UNIVERSITY, Lin'an Liyuan Bamboo Fiber Technology Development Co., Ltd 72: YAO Wenbin, ZHANG Wei, YU Weipeng, ZHOU Chao

54: PREPARATION METHOD OF BAMBOO FIBRIL WOVEN BAG

00: -

The invention relates to the technical field of woven bag processing, and discloses a preparation method of bamboo fibril woven bag, which comprises the following steps: weighing 35-45 parts of raw polyurethane granules, 15-18 parts of polyethylene and 16-20 parts of bamboo fibrils by mass, mixing uniformly, and then melting to prepare a film to obtain a water-absorbing layer; weighing 40-50 parts of raw polypropylene granules, 15-20 parts of polyethylene and 13-16 parts of bamboo fibrils by mass, mixing uniformly to prepare flat yarns, and weaving the flat yarns to obtain a woven layer; weighing 50-60 parts of raw polyethylene, 15-20 parts of bamboo fibrils and 1-3 parts of ultraviolet absorbent by mass, mixing uniformly, and then melting to prepare a film to obtain a protective layer; sequentially laminating the water-absorbing layer,

the woven layer and the protective layer, and heating and pressurizing to obtain the woven bag.

21: 2022/06977. 22: 2022/06/23. 43: 2022/07/21 51: G06K

71: Huzhou University

72: QI Hengnian, JIA Keke, WU Xiaoping, LI Mengxia, LANG Qing, ZHANG Kai, TANG Qizhe 33: CN 31: 202110961674.8 32: 2021-08-20 54: METHOD FOR RECOGNIZING EMOTIONAL STATES BY DIGITAL WRITING 00: -

The invention relates to the technical field of emotion recognition, and in particular to a method for recognizing emotional states by digital writing. The method includes following steps: letting user write a text on dot matrix paper through a dot matrix digital pen; acquiring real-time information data when a user writes; processing the obtained real-time information data to obtain handwriting features which are more closely related to emotional tags, wherein the obtained handwriting features which are more closely related to emotional tags are subjected to data normalization; and inputting the normalized data of handwriting features into the pre-trained emotion recognition model to obtain the emotional state category of the user. The invention solves the problem of complicated and harsh information acquisition conditions in the existing emotion recognition scheme, because the font feature method is adopted to recognize the font features written by users and then classify the emotion states, so that most physical hardware devices and physiological signal detection devices are eliminated. At the same time, the digital writing technology can obtain the dynamic information of the user's real-time pen-writing coordinates, pressure, time, etc., so as to recognize the handwriting features more accurately.

 S101: Letting user write a text on dot matrix paper through a dot matrix digital pen;

 S102: Acquiring real-time information data when a user writes;

 S103: Processing the obtained real-time information data to obtain handwriting features which are more closely related to emotional tags, wherein the obtained handwriting features which are more closely related to emotional tags are subjected to data normalization;

 S104: Inputting the normalized data of handwriting features into the pre-trained emotion recognition model to obtain the emotional state category of the user.

21: 2022/06978. 22: 2022/06/23. 43: 2022/07/21 51: G01N

71: Sericulture and Agri-Food Research Institute, Guangdong Academy of Agricultural Sciences 72: XING, Dongxu, YANG, Qiong, LIAO, Sentai, XIAO, Yang, LI, Qingrong, ZOU, Yuxiao, ZHANG, Weilong

54: METHOD FOR EVALUATING DEGREE OF MUMMIFICATION OF BOMBYX BATRYTICATUS BASED ON HPLC FINGERPRINT 00: -

The present disclosure provides a method for evaluating a degree of mummification of Bombyx Batryticatus based on a high performance liquid chromatography (HPLC) fingerprint. The method includes the following steps: step 1, establishing HPLC fingerprints of Bombyx Batryticatus of different degrees of mummification as control fingerprints, where the Bombyx Batryticatus of different degrees of mummification include Bombyx Batryticatus that mummify for at least 5 days; step 2, establishing an HPLC fingerprint of an unknown Bombyx Batryticatus sample by the same method and conditions; and step 3, using a similarity evaluation system to align the HPLC fingerprint of the unknown Bombyx Batryticatus sample to that of the Bombyx Batryticatus of different degrees of mummification, where the degree of mummification of the unknown Bombyx Batryticatus sample will be higher if the unknown Bombyx Batryticatus sample has more chromatogram peaks identical to the Bombyx Batryticatus that mummify for at least 5 days.



21: 2022/06979. 22: 2022/06/23. 43: 2022/07/21 51: A61K

71: Shanxi Tongda Pharmaceutical Co., Ltd. 72: YANG, Junping, XU, Chao, GUO, Qingshan 54: COMBINED SUPPOSITORY BASE AND PREPARATION METHOD THEREOF 00: -

The present disclosure relates to a combined suppository base and a preparation method thereof. The suppository base comprises the following raw materials in parts by weight: 2-4 parts of a grease base and 1-2 parts of a water-soluble/hydrophilic base; wherein, the grease base comprises one or more of 36# mixed fatty glyceride, 38# mixed fatty glyceride, semi-synthetic fatty glyceride or lanolin; and the water-soluble/hydrophilic base comprises polyethylene glycol 400. The suppository base provided in the present disclosure can increase the absorption rate of the suppository, and thus the drug effect can be fully exerted. Experimental detection shows that the drug absorption rate of the suppository prepared from the suppository base and the main material of the drug can reach 90% or higher, which is far higher than that (70%) of a traditional suppository prepared from a single (waterbased base or oil-based base) suppository base.

21: 2022/06980. 22: 2022/06/23. 43: 2022/07/21 51: G06F

71: MANIPAL UNIVERSITY JAIPUR 72: Dr. Vivek Kumar Verma 54: TRANSLATION MODEL FOR SIGN LANGUAGE DIALECTS IN INDIA 00: -

The present invention relates to a system (100) for translation models for sign language dialects. The system (100) comprises a source language processing unit, a target language generation unit (104), and a display unit. The source language processing unit (102) is configured to process input

text. The target language generation unit (104) is operationally connected with the source language processing unit. The target language generation unit (104) is configured to separating up text into meaningful components. The display unit is operationally connected with the target language generation unit (104). The display unit is configured to provide a user interface unit and display representation of the dialect sign language. The system (100) for the translation model for sign language dialects to reduce the language barrier for the deaf person. The system (100) for the translation model for sign language dialects develops communication links between sign language users and non-signers.



21: 2022/06981. 22: 2022/06/23. 43: 2022/07/21 51: C12N

71: HUNAN ACADEMY OF CHINESE MEDICINE 72: JIN, Jian, ZHONG, Can, XIE, Zhenni, LIU, Xiaoliu, WANG, Ziling, ZHANG, Shuihan 54: GENE EDITING VECTOR LOADED WITH PORIA COCOS ENDOGENOUS SEQUENCE, EDITING SYSTEM AND USE THEREOF 00: -

The present invention discloses a gene editing vector loaded with a Poria cocos endogenous sequence, an editing system and use thereof. The gene editing vector comprises a Poria cocos endogenous RNA polymerase III type U6 promoter for initiating transcription of sgRNA-encoding DNA, an endogenous terminator PcTer sequence, an endogenous self-replicating sequence PcOri and an endogenous spacer sequence PcSse; the Poria cocos endogenous RNA polymerase III type U6 promoter for in type U6 promoter sequence PcSse; the Poria cocos endogenous RNA polymerase III type U6 promoter comprises any one or a combination of

more of PcU6-1, PcU6-2 and PcU6-3; the gene editing vector further comprises an expression cassette of sgRNA transcription regulated by the Poria cocos endogenous RNA polymerase III type U6 promoter; in the expression cassette of sgRNA transcription regulated by the Poria cocos endogenous RNA polymerase III type U6 promoter, the Poria cocos endogenous terminator PcTer sequence is designed after an sgRNA scaffold sequence; and the expression cassette of sgRNA transcription regulated by the Poria cocos endogenous RNA polymerase III type U6 promoter can be composed of a plurality of expression cassettes in series, and a Poria cocos endogenous spacer sequence PcSse is added between adjacent expression cassettes. The gene editing system of the present invention can be used for transformation and gene editing of Poria cocos cells.



21: 2022/06982. 22: 2022/06/23. 43: 2022/07/21 51: A01G

71: GUANGXI ACADEMY OF AGRICULTURAL SCIENCES

72: DENG Haiyan, HUANG Lifang, LIANG Guidong, WU Zhijiang, LU Guifeng, HUANG Fengzhu, LIU Chaoan

54: METHOD FOR QUICKLY IDENTIFYING HYBRID OFFSPRING OF PITAYA BY SHORTENING JUVENILE PHASE

00: -

The invention relates to the field of hybrid breeding of fruit tree, and in particular to a method for quickly identifying hybrid offspring of pitaya by shortening juvenile phase, which comprises the following steps: (1) primary scion cultivation; (2) rootstock cultivation; (3) primary grafting of young to old; (4) forcibly topping to promote the plant getting out of juvenile phase; (5) second-time grafting of long scion to fruiting branch; and (6) hybridization of nextgeneration and fruit identification of this generation.



21: 2022/06987. 22: 2022/06/23. 43: 2022/07/21 51: A61K

71: Beijing Normal University, Zhejiang University 72: Changqi Zhao, Fei Dou, Chen Zhang 54: NOVEL APPLICATION OF 5,2',3'-TRIHYDROXY-6,7-METHYLENEDIOXY-FLAVANONE COMPOUND

00: -

The invention discloses a novel application of a 5,2',3'-trihydroxy-6,7-methylenedioxy-flavanone compound. The 5,2',3'-trihydroxy-6,7methylenedioxy-flavanone compound is applied as any product selected from the following products with the compound as shown in a Formula I as an active component: (1) a product for preventing and/or treating Alzheimer disease; (2) a product for promoting the aggregation of A belta from a monomer to a polymer; and (3) a product for inhibiting the aggregation of A belta from the monomer to an oligomer. According to the compound as shown in the Formula I, the aggregation of A belta from the monomer to the oligomer with high toxicity can be reduced through accelerating the aggregation of A belta from the

monomer to the polymer with relatively low toxicity, so that the concentration of the oligomer with high toxicity is reduced.



21: 2022/07016. 22: 2022/06/24. 43: 2022/07/25 51: E04G

71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU SHENZHEN CONSTRUCTION INVESTMENT DEVELOPMENT CO., LTD., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: LI, Peng, LI, Mingyang, LIU, Yan, ZHAO, Danning, HUANG, Xiong, CAO, Ning, ZHONG, Shuai, LIU, Jian, HUANG, Donggiang, WANG, Xuan 33: CN 31: 202110746979.7 32: 2021-07-01 54: SLIP DEVICE CONFIGURED FOR STEEL STRUCTURE AND SLIP METHOD THEREOF 00: -

The present disclosure provides a slip device of steel structure and a slip method, and the slip device of steel structure comprises: a concrete structure frame inside with a working area; a slip guide rail arranged in the working area and configured to carry a steel structure; a vertical driving assembly arranged under the slip guide rail and configured to drive the slip guide rail lifting and drop and capable of making the height higher and lower than the height of the concrete structure frame; a horizontal driving assembly arranged at one end of the concrete structure frame and configured to drive the steel structure to move along the slip guide rail, the

slip device of steel structure and a slip method of the present disclosure can realize the slip installation of the large-span steel structure, and when all the steel structures are completely slipped, the slip guide rail, the vertical drive assembly, and the horizontal driving assembly can be disassembled in sequence and reused, which can avoid wasting and help reduce costs.



21: 2022/07091. 22: 2022/06/27. 43: 2022/07/12 51: A01G

71: Hangzhou Jiahui Agriculture Development Co., Ltd.

72: ZhangXujuan, WangHuaying, LiShuifeng, ShiJianjun, FuXiaoxia, YuKexin, ShiWeiyao 54: METHOD FOR PROMOTING EARLY CULTIVATION OF ASPARAGUS IN WINTER AND SPRING BY APPLYING DEGRADABLE MEMBRANE

00: -

This invention provides method for promoting early cultivation of asparagus in winter and spring by applying degradable membrane, which comprises the following contents: clearing the garden in winter, after applying winter manure, covering the whole biodegradable membrane with a width range of 0.8-1.2m and a thickness range of 6-10 micron on the border surface, drip irrigation is placed between ditches, and water and fertilizer needed by plants are supplemented in time; in March, drip irrigation is placed on the biodegradable membrane; in the middle of March, the biodegradable membrane entered the big crack stage and degraded; According to the invention, the application of the fully biodegradable membrane in asparagus cultivation has never been done before, the material used is degradable, and the degradation can be assisted by drip irrigation, so that the membrane covering method is simple and convenient, and manual membrane collection is not necessary, thereby reducing the labor consumption that should be

unavoidable due to complex membrane covering and timely membrane recollection by the traditional method; according to this invention, the asparagus can be harvested early, and the quality rate and glossiness can be improved, thus improving the economic benefits of asparagus.

21: 2022/07133. 22: 2022/06/28. 43: 2022/07/12 51: A61K; C07K; C12Q; G01N

71: Central People's Hospital of Zhanjiang 72: Yan ZENG, Jun ZHENG, Wenxin LIU, He ZHU, Jingyu ZHANG, Lanyu CAI, Chang GE, Liwen XUE, Shangfei LI, Chanchan LI, Ni LEI, Shuping XIE 54: A COLLOIDAL GOLD TEST STRIP FOR RAPIDLY DETECTING NAA10P, AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a colloidal gold test strip for rapidly detecting Naa10p, belonging to the technical field of colloidal gold detection. The gold label pad of the colloidal gold test strip is labeled with the first antibody of Naa10p, and the detection line of the colloidal gold test strip is coated with the second antibody of Naa10p. The dosage of the first antibody in the gold label pad is $4.15-6.12\mu$ g/cm2, and the dosage of the second antibody on the detection line is $0.17-0.22\mu$ g/cm2. The colloidal gold test strip has the advantages of simple preparation method, high detection sensitivity and strong specificity.



- 21: 2022/07151. 22: 2022/06/28. 43: 2022/07/13 51: C25B; C25D
- 71: Changzhou Institute of Technology
- 72: CHEN, Xiaohui, CHEN, Yiyi, KONG, Xianqiang

54: ELECTROCHEMICAL PREPARATION METHOD FOR CUFEO2 PHOTOELECTRODE 00: -

The present invention discloses an electrochemical preparation method for a CuFeO2 photoelectrode, including the following steps: (1) dissolving copper salt and ferric salt into an ethanol-water mixed solvent, then adding oxalic acid into the solution, and mixing the solution well to obtain an electrodeposition solution; (2) adding the electrodeposition solution into an electrolytic cell and using a three-electrode system for electrodeposition, wherein FTO conducting glass serves as a working electrode, a platinum-sheet electrode serves as an auxiliary electrode, and an Ag/AgCl electrode serves as a reference electrode; (3) using a potentiostatic method for electrodeposition with a deposition potential of -0.3 V--0.6 V and a deposition time of 1,800 s-7,200 s to form a Cu-Fe-O ternary membrane electrode; and (4) placing the electrodeposited FTO electrode into a heating furnace and calcining the FTO electrode under the protection of N2 to obtain a CuFeO2 photoelectrode.



- 21: 2022/07161. 22: 2022/06/28. 43: 2022/07/12 51: B29C
- 71: EAST SEALING TECH (JIANGSU) CO., LTD. 72: SUN, Dongqin

54: ENVIRONMENT-FRIENDLY AND ENERGY-SAVING INJECTION MOLDING MACHINE AND OPERATION METHOD THEREOF 00: -

The present disclosure relates to the field of injection molding machines, in particular to an environmentfriendly and energy-saving injection molding machine and an operation method thereof. The

environment-friendly and energy-saving injection molding machine includes an electric heater (100), a shaping machine (200), a finishing machine (300), and a setting machine (400), where the electric heater (100) is covered with a thermal insulation layer (103); the shaping machine (200) includes an injection molding device (201) and a compression molding device (202); a pressure stabilizing pipe (306) is connected between the shaping machine (200) and the setting machine (400); a water channel (401) is formed in a bottom of the setting machine (400); and an exhaust plate (403) is arranged at a top of the setting machine (400). The environment-friendly and energy-saving injection molding machine combines the functions of melting, injection molding, finishing, and setting performed in a cooling manner, and can effectively retain, through the thermal insulation layer, heat in the electric heater to greatly reduce the heat exchange between an internal space of the electric heater and an external environment, thus improving the operating efficiency of the electric heater and reducing the electric energy consumption; and furthermore, the environment-friendly and energy-saving injection molding machine has high machining accuracy and high visibility, can reduce the production cost by adopting water cooling, and is convenient to use and suitable for producing various plastic products.



21: 2022/07162. 22: 2022/06/28. 43: 2022/07/12 51: B21D 71: SUZHOU XI'NENG ENVIRONMENTAL SCIENCE AND TECHNOLOGY CO., LTD 72: GONG, Minglan, ZHU, Yujin 54: DEVICE FOR AUTOMATICALLY MOUNTING REINFORCING RINGS 00: -

A device for automatically mounting reinforcing rings includes a mounting platform, a push-down device, a push-up device, a plate for fixing an upper die, the upper die, a workpiece template, a lower die, a plate for fixing the lower die, a lower die base, an upper stamping head, and a lower stamping head, where a cavity for mounting reinforcing rings is formed in the workpiece template; an upper end of the lower stamping head is arranged in the cavity for mounting the reinforcing rings; a lower end of the upper stamping head can be inserted into the cavity for mounting the reinforcing rings to make the upper stamping head and the lower stamping head be tightly attached to each other in press fit; and in this way, the reinforcing rings can be pressed into a product by the upper stamping head and the lower stamping head respectively. According to the device for automatically mounting reinforcing rings of the present disclosure, the reinforcing rings are mounted as follows: the reinforcing rings are laid in internal grooves of a plurality of commutator segments first; then the commutator segments are laid in the cavity for mounting the reinforcing rings; and finally, the upper stamping head and the lower stamping head are driven to be mutually squeezed by the pushdown device and the push-up device, respectively. In this way, the quality of products is improved, and the labor intensity of operators is reduced.



21: 2022/07163. 22: 2022/06/28. 43: 2022/07/12

51: B29C

71: SUZHOU HAOLI CULTURE MEDIA AND TECHNOLOGY CO.,LTD

72: HAN, Jili

54: MULTI-NOZZLE INJECTION MOLDING MACHINE CAPABLE OF MIXING INJECTION MOLDING MATERIALS OF DIFFERENT COLORS AND OPERATION METHOD THEREOF 00: -

A multi-injection head injection molding machine having a color mixing function, mainly comprising a working table (1), an injection cylinder (2), an injection screw (21), a power device (3), a material storage tank (4), a first material storage tank (41), a second material storage tank (42), an injection head (5), a fastener (51), and a nozzle (52). The power device (3) is provided on the working table (1), and is located on one end of the top of the working table (1). The material storage tank (4) is provided on the working table (1), and is located on the end thereof close to the power device (3). The material storage tank (4) is divided into the first material storage tank (41) and the second material storage tank (42). The injection cylinder (2) is provided on the working table (1), and penetrates through the material storage tank (4) to be connected to the power device (3). The injection screw (21) is provided in the injection cylinder (2), and is transmittingly connected to power device (3). The injection head (5) is provided on the injection cylinder (2), and is located on the end of the injection cylinder (2) distant from the power device (3). One end of the injection head (5) is provided with the fastener (51), and the other end is provided with the nozzle (52). The fastener (51) is connected to the injection cylinder (2), and the nozzle (52) is a three-head nozzle.



33: US 31: 62/947,774 32: 2019-12-13 33: US 31: 62/972,902 32: 2020-02-11 33: US 31: 63/119,488 32: 2020-11-30 54: LIQUID TASIMELTEON FORMULATIONS AND METHODS OF USE THEREOF 00: -

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Liquid suspensions of tasimelteon and methods for their use.

21: 2022/07191. 22: 2022/06/29. 43: 2022/07/12 51: C12P

71: Shanghai Ocean University

72: Hairong BAO, Mengjie LI, Yan LI, Hui LI, Baike CHEN, Sulaiman JIN, Tingting CHEN, Qixiu ZHANG, Zeheng CUI

33: CN 31: 202210302800.3 32: 2022-03-24 54: ANTARCTIC KRILL PEPTIDE-POLYPHENOL COMPOUND AND APPLICATION THEREOF 00: -

The present disclosure discloses an Antarctic krill peptide-polyphenol compound and application thereof, and belongs to the technical field of biotechnology/food. The Antarctic krill peptidepolyphenol compound is prepared by dissolving Antarctic krill peptide and polyphenol in a phosphate buffer, stirring and standing. According to the present disclosure, high-concentration Antarctic krill hypoglycemic peptide and low-concentration polyphenol are compounded; as believed in sensory cognition, a bad smell of the active peptide is covered; and a synergistic effect of two active substances on a hypoglycemic effect is realized. An inhibition effect of the compound on -glucosidase, amylase and DPP-IV is better than that of the single active polypeptide/polyphenol, which indicates that the synergistic effect jointly generated by the compound enhances functional activity of the compound. Meanwhile, experimental results show that the compound also plays a role in delaying drug resistance.

21: 2022/07188. 22: 2022/06/29. 43: 2022/07/20 51: A61K 71: VANDA PHARMACEUTICALS INC. 72: PHADKE, Deepak, POLYMEROPOULOS, Mihael



Ultraviolet spectrum of polyphenol-peptide in phosphate buffer-

21: 2022/07192. 22: 2022/06/29. 43: 2022/07/12 51: A61F

71: Shenyang University of Technology

72: GUO, Zhongfeng, LI, Yuanxin, SUN, Jiahui, LIU, Ying

54: SMART REHABILITATION NURSING BED 00: -

The disclosure involves a smart rehabilitation nursing bed applicable to patients with scoliosis, comprising a main body, a bed cushion, a vibration structure, a moving structure, a control structure and a fixed support, wherein the bed cushion is placed on a sleeping board and consists of four portions that are connected together by zippers, so that each portion of the bed cushion can be removed conveniently for replacement; the vibration structure is placed below the main body, and the eccentric distance of a slider-crank mechanism in the vibration structure can be adjusted so that a vibrating cushion can vertically vibrate in a user-set frequency, to meet various needs of the patients; the moving structure is fixedly installed below the main body and connected with the vibration structure, to drive the latter to move back and forth along the spine of a patient; the control structure is connected with the main body by a telescopic support, and is for user to control the bed such as powering the bed on, starting/pausing the functions of the bed, selecting the intensity, frequency and specific position of vibration etc.; the fixed support is connected with two upper lateral sides of the main body by rotating shafts, and, during a rehabilitation therapy, can be controlled to

move from these two sides to the middle of the bed to confine the patient who lies on his/her side, and the fixed support is also provided with handles at its top for the patient to hold to keep his/her body stable during the therapy. The smart rehabilitation nursing bed features a compact structure, perfect functions and user-set frequency of vibration available for the vibrating cushion, and can therefore improve the rehabilitation efficacy for patients with scoliosis.



^{21: 2022/07204. 22: 2022/06/29. 43: 2022/07/12} 51: A01K; E06B

71: INSTITUTE OF ANIMAL SCIENCE AND VETERINARY MEDICINE, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, ANCHEE (SHANDONG) ACADEMY OF ANIMAL NUTRITION CO. LTD.

72: GUO, Jianfeng, ZHAO, Xueyan, DU, Yushi, WANG, Yanping, TAO, Zhiyong, ZHANG, Yin 54: SLIDING WINDOW FOR LIVESTOCK-HOUSE 00: -

The application belongs to the field of windows for livestock-houses, and in particular to a sliding window for livestock-house. The application comprises a sliding window body, which comprises two sashes arranged up and down and a window frame arranged at the periphery of the two sashes, the glass is fixedly arranged in the window sash, the window sash can vertically slide in the window frame slideway, a vertical height of the window frame is at least twice that of the sum of the vertical heights of the two sashes, the inner groove surfaces are arranged on the inner top surface and the inner bottom surface of the wall, two sashes are arranged in the middle position of the window frame, and the upper end and the lower end of the window frame are respectively fixedly embedded in the inner

groove surfaces arranged on the inner top surface and the inner bottom surface of the wall; and automatic push-pull devices are arranged between the side surface of the window sash and the window frame. The application can not only ensure that the space where the low animals are located can achieve good ventilation, but also ensure that the light can fully illuminate the farmed animals, and bring positive effects to animal husbandry.



21: 2022/07205. 22: 2022/06/29. 43: 2022/07/12 51: G01K; G06N

71: XINJIANG INSTITUTE OF WATER RESOURCES AND HYDROPOWER RESEARCH 72: GULIMIRE·, Hanati, GUAN, Donghai 54: A MEASUREMENT METHOD OF SNOW MELTING RATE BASED ON AIR TEMPERATURE CHANGE

00: -

The invention discloses a measurement method of snow melting rate based on air temperature change, which comprises the following steps: S1, acquiring a data set composed of snow melting rates of target snow samples in different environments, wherein each snow sample in the data set includes five indexes: snow moisture content, snow density, air ambient temperature, air wind speed and snow melting rate; S2, training a machine learning model by using the data set, wherein the machine learning model takes four standardized indexes of snow moisture content, snow density, air ambient temperature and air wind speed as inputs and snow melting rate as outputs, and obtains a snow melting rate prediction model through supervised learning. Based on the artificial intelligence technology, the invention provides a method for pre-snowing dissolution rate based on simple and easy-tomeasure indicators, which avoids the problems of traditional snowmelt rate measurement, such as long time consumption, complicated operation and the like, and has the advantages of high precision, fast prediction and the like.

\$1, obtaining a data set composed of snow melting rates of target snow samples in different environments, and each snow sample in the data set includes five indexes: snow moisture content, snow density, air ambient temperature, air wind speed and snow melting rate;
\$2, training a machine learning model by using the data set, wherein the machine learning model takes four standardized indexes of snow moisture content, snow density, air ambient temperature and air wind speed as inputs and snow melting rate as outputs, and obtains a snow melting rate prediction model through supervised learning;
\$3, aiming at the target snow which needs to measure the snow melting rate, firstly, four indexes of snow moisture content, snow density air ambient temperature and air wind speed are measured, and then they are standardized and input into the snow melting rate prediction model to obtain the snow melting rate prediction result.

21: 2022/07206. 22: 2022/06/29. 43: 2022/07/12 51: A01G; G01D

71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY, ZHALAINUOER COAL INDUSTRY CO., LTD

72: MENG, Qingjun, HAN, Xiaoyu, FENG, Yang, ZHU, Xueqiang, WANG, Liyan, QIN, Dongfu, SHI, Lei

54: NICHE-BASED ALLOCATION METHOD OF ECOLOGICAL RESTORATION VEGETATION IN OPEN PIT MINING AREA 00: -

The invention discloses a niche-based allocation method of ecological restoration vegetation in open pit mining area, belonging to the technical field of open-pit mine restoration. The configuration method of restoration vegetation includes: sowing herbaceous plants in open-pit mining areas in the first year; in the second year, shrubs were planted in the open pit mining area, and herbaceous plants were replanted; in the third to fifth years, trees will be planted and herbaceous plants will be replanted in the open pit mining area. The restoration method provided by the invention can accelerate the succession of the ecosystem, effectively solve the

problem of difficult plant planting in the mining area, effectively increase the vegetation coverage of the mining area land, and provide a new research idea for ecological management in the mining area.

21: 2022/07244. 22: 2022/06/29. 43: 2022/07/12 51: B07C

71: SUZHOU SANYI HEATING AND COOLING ENGINEERING CO.LTD 72: SUN, Donggin

54: AUTOMATIC CRAB SORTING MACHINE 00: -

The present disclosure provides an automatic crab sorting machine including a feeding mechanism and a sorting mechanism, where the feeding mechanism is arranged ahead of the sorting mechanism; the sorting mechanism includes a weighing mechanism and a sorting device; the feeding mechanism is connected to the sorting device through a conveyor belt; the weighing mechanism is arranged below the conveyor belt; a control mechanism is arranged at one side of the conveyor belt; and the weighing mechanism and the sorting device are both connected to the control mechanism. The automatic crab sorting machine of the present disclosure has simple structure, proper design, and high level of automation, and is easy to produce; and the automatic crab sorting machine adopts the weighing mechanism to weigh crabs and the sorting device to sort the crabs according to a weighing result, thus reducing the manual labor and improving the operating efficiency. Meanwhile, the automatic crab sorting machine commendably avoids injuries caused to sorters during sorting, thus meeting the requirements of enterprises to a greater extent.



21: 2022/07245. 22: 2022/06/29. 43: 2022/07/12 51: H05K

71: EAST SEALING TECH (JIANGSU) CO.,LTD. 72: SUN, Dongqin

54: ELECTROMAGNETIC SHIELDING CHAMBER 00: -

The present disclosure provides an electromagnetic shielding chamber, which includes a front shell and a rear shell fixed to the front shell, where a through hole is formed in the front shell; a cavity of the front shell communicates with a cavity of the rear shell; mounting holes are formed in four corners in the cavity of the front shell as well as four corners in the cavity of the rear shell; the front shell is connected to the rear shell by means of bolts; a fixing plate and a shielding mesh are fixed to the fixing plate and are arranged in the cavity of the rear shell; a first through hole is formed in the fixing plate, and a second through hole is formed in the shielding mesh; a conversion interface allowing a signal wire to be inserted into is formed in the front shell; a cable entry allowing an internal data cable to penetrate through is formed in the rear shell; and the first through hole and second through hole are matched in diameter with an enamelled wire for preventing a data exchange between the inside and outside of a room. According to the electromagnetic shielding chamber, the fixing plate and the shielding mesh are arranged in the cavity of the rear shell, so that the shielding effect is greatly improved. Meanwhile, the first through hole in the fixing plate and the second through hole in the shielding mesh are matched in diameter with the enamelled wire, so that the shielding effect is further improved.



21: 2022/07299. 22: 2022/07/01. 43: 2022/07/12 51: H04B

71: Sichuan University of Science & Engineering 72: LUO Zhongqiang, HU Qian, XIAO Wenshi 54: METHOD FOR SUPPRESSING WIRELESS COMMUNICATION RECEIVING NOISE 00: -

The present invention discloses a method for suppressing wireless communication receiving noise, which characterized by comprising the following steps: using Wavelet Transform (WT) to denoise mixed signal received in wireless communication process; using Singular Spectrum Analysis (SSA) to reduce dimension and denoise denoised mixed signal; using Independent Component Analysis (ICA) in blind source separation to separate the mixed signal after dimension reduction and denoising. The objective of the present invention is to provide a wireless communication reception noise suppression method. The method improves the separation effect of the received mixed signals by efficiently denoising the received mixed signals in the wireless communication process.



21: 2022/07325. 22: 2022/07/01. 43: 2022/07/11 51: A61K; C07K; A61P 71: CCOA THERAPEUTICS (HANGZHOU) CO., LTD

72: NI, Heyu

33: US 31: 62/946,086 32: 2019-12-10 54: HUMANIZED ANTI-GLYCOPROTEIN IB ALPHA (GPIBALPHA) ANTIBODIES 00: -

Multivalent anti-platelet glycoprotein I(b)alpha antibodies can cause severe side effects. The present disclosure provides humanized antibodies specifically recognizing glycoprotein I(b)alpha and lacking a Fc portion, therefore do not interact with Fc receptor. The humanized antibodies are capable of preventing platelet activation and aggregation, and reducing thrombus size / growth and prevent vessel occlusion. They can be also very useful to decrease platelet-tumor cell interaction and decrease tumor metastasis. At therapeutic doses, the humanized antibodies lack the ability to induce platelet activation, induce thrombocytopenia; and/or prolong bleeding time.



21: 2022/07403. 22: 2022/07/05. 43: 2022/08/16 51: G01N

71: CHANGSHA UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: LI, Ping, PENG, Wenju, ZHOU, Yuming, TIAN, Shuaituan, WANG, Zihan, HUANGFU, Youhui, FAN, Quanyang, HUANG, Chujian, LIU, Shende 54: LARGE-POROSITY ASPHALT MIXTURE DRAINAGE PERFORMANCE ATTENUATION BEHAVIOR LABORATORY ACCELERATION SIMULATION APPARATUS AND METHOD 00: -

The invention discloses a large-porosity asphalt mixture drainage performance attenuation behavior laboratory acceleration simulation apparatus and method, comprising a rainy water preparation system, a rainfall simulation system, a test stand, and a temperature control box. The invention is compact in installation, easy in control, and good in application effect, and can simulate the drainage performance attenuation behavior of the largeporosity asphalt mixture inside a room in an acceleration manner for different rainfall intensity, rainfall pollutant compositions, pavement gradient, ambient temperature, and pavement drainage way.



21: 2022/07473. 22: 2022/07/06. 43: 2022/07/12 51: B65B

71: Henan Xinda Railway Equipment Co., Ltd. 72: TIAN, Yongxing, LEI, Fei, WANG, Yunping, TIAN, Wenhai

54: AUTOMATIC PACKAGING METHOD FOR SPRING BAR PRODUCTION

00: -

The present invention provides an automatic packaging method for spring bar production, which solves the following problems: the automation level during spring bar packaging is low; manual packaging has a potential safety hazard and low efficiency, and the appearance and quality of a spring bar need to be guaranteed in a spring bar packaging process.



21: 2022/07523. 22: 2022/07/07. 43: 2022/07/26 51: D02G

71: JIYANG COLLEGE OF ZHEJIANG A&F UNIVERSITY, Lin'an Liyuan Bamboo Fiber Technology Development Co., Ltd 72: YAO Wenbin, ZHANG Wei, YU Weipeng, ZHOU Chao

54: METHOD FOR PREPARING BAMBOO TUBE FIBER FILAMENTS CELEBRATION HANDICRAFTS 00: -

The application discloses a method for preparing bamboo tube fiber filaments celebration handicraft, and belongs to the technical field of handicraft production. The bamboo tube fiber filaments are prepared by soaking and softening, biological desizing and other processes. Through anti-corrosion treatment and addition of finishing agent, the surface paint film of the handicraft is bright, smooth and good in corrosion resistance. The bamboo tube fiber filaments celebration handicraft prepared by the preparation method is not affected by the storage time, has long storage time, high hardness and is not easy to be broken, and the preparation method is simple and is suitable for large-scale production.

21: 2022/07524. 22: 2022/07/07. 43: 2022/07/26 51: C02F

71: Zhengzhou University of Aeronautics 72: Shuling ZHAO, Zhenxing TANG 54: WATER PURIFICATION MODULE FOR URBAN WETLAND PARK BASED ON ECOLOGICAL RESTORATION 00: -

The disclosure relates to the field of environmental ecological water purification, and more particularly, relates to a water purification module for urban wetland park based on ecological restoration, which includes a water purification module main body, and two sets of first filter screen plates are vertically connected inside the water purification module main body, a limiting block is connected at a middle of each of the two sets of first filter screen plates, a spring is connected above the limiting block, a slider is fixedly connected to another end of the spring, a second filter screen is connected to one side of the slider, anti-blocking needles are evenly arranged at a bottom of the water purification module main body, and a microorganism adding machine is installed at a middle above the bearing plate. The water in the wetland park can be purified when it flows, which will not cause secondary pollution to the environment; and through the filter barrel, impurities can be prevented from entering the microbial adding machine, at the same time the filter barrel is easy to disassemble and replace, which can be widely used in wetland parks, and the purification system of the module has a good anti-blocking function.



21: 2022/07525. 22: 2022/07/07. 43: 2022/07/26 51: G01N

71: Qinghai Academy of Agriculture and Forestry Sciences

72: CHEN Hongyu

54: GAS CHROMATOGRAPHIC ANALYSIS METHOD FOR RAPID DETECTION OF PROCHLORAZ

00: -

This invention is a gas chromatographic analysis method for rapid detection of prochloraz, which includes the following steps: weighing sample and placing it in a polytetrafluoroethylene centrifuge tube; adding acetonitrile anhydrous MgSO4 and NaCl into polytetrafluoroethylene centrifuge tube in turn, swirling, mixing evenly, centrifuging, taking supernatant, transferring it into a pear-shaped bottle concentrating and evaporating; transferring nhexane into a pear-shaped bottle to constant volume, sucking out from the pear-shaped bottle, transferring it into a transferring it into a centrifuge tube containing PSA and C18, shaking, mixing evenly, centrifuging the extract solution, pouring the n-hexane in the centrifuge tube into a syringe equipped with a filter membrane, filtering it and detecting it by gas chromatography. The invention adopts gas chromatography with NPD detector to detect prochloraz, and this avoids the complicated problems of derivatization of prochloraz into 2, 4, 6trichlorophenol and purification with concentrated sulfuric acid after derivatization in the prior art. Moreover, NPD detector only responds to substances containing nitrogen and phosphorus, so it reduces impurity interference, and the pretreatment method is simpler. This method can conveniently and rapidly detect prochloraz.



21: 2022/07526. 22: 2022/07/07. 43: 2022/07/26 51: B23P

71: Shenyang University of Technology

72: GUO Zhongfeng, LIN Shaokun, WANG Lei

54: SMALL PORTABLE NUMERICAL CONTROL CUTTING MACHINE FOR CLOSED ADSORPTION GASKET

00: -

The invention belongs to the field of numerical control cutting machine tools, and particularly relates to numerical control cutting equipment for clamping, cutting and molding soft materials such as leather. The invention mainly solves the problems of high labor cost, large equipment volume, poor overall mobility and the like in manual cutting of soft material gaskets such as leather and traditional numerical control cutting machine. The equipment of the invention mainly comprises a box module, a material adsorption and fixation module and a cutting motion module, wherein the box module mainly supports the main body of the equipment, accommodates the material adsorption and fixation module and the cutting motion module, and simultaneously increases the mobility of the equipment; the material adsorption and fixation module is used for determining the position of the processed leather soft materials, and the cutting motion module completes the NC system to control the cutter to move according to three coordinate axes X, Y and Z to complete the cutting action. The utility model has the advantages of high-precision cutting of gaskets with specified specifications, small size, portability and low cost, and is suitable for small and medium-sized enterprises.



21: 2022/07527. 22: 2022/07/07. 43: 2022/07/26 51: B65G 71: HENAN INSTITUTE OF TECHNOLOGY 72: SU Jinhu, ZHAO Xiaoguang, LI Yongchao, LI Hui, JIA Li 54: CRAWLER-TYPE MOBILE DISCHARGING VEHICLE

00: -

A crawler-type mobile discharging vehicle, which comprises a tail vehicle mechanism, one end of the tail car mechanism is in contact with the ground through a wheel mechanism contained therein, and one end of the tail car mechanism is placed on a crawler chassis assembly; the crawler chassis assembly travels along the ground belt conveyor, and a tail vehicle mechanism is arranged above the crawler chassis assembly; the cantilever mechanism is arranged on a driving end platform of the tail vehicle mechanism; the anti-blocking and dustsettling transfer system are fixed on the platform of the driving end of the tail car mechanism; the tail car mechanism is provided with a ladder platform system, a lighting system, a centralized lubrication system, an electric control system and a safety protection system for supplying the whole equipment. The application has the functions of realizing the linear walking along the ground belt conveyor on the bare ground by using the crawler chassis and the safety protection system, and can discharge horizontally and longitudinally, and has the characteristics of low cost and mobility.



21: 2022/07542. 22: 2022/07/07. 43: 2022/07/13 51: A23D; A61P 71: SHENZHEN JINFENG BIOMEDICAL TECHNOLOGY CO., LTD. 72: ZHOU, Bing 33: CN 31: 201911361624.5 32: 2019-12-25 54: FATTY ACID COMPOSITION FOR ADJUVANT TREATMENT OF ESSENTIAL TREMOR AND PREPARATION METHOD THEREFOR 00: -

Disclosed are a fatty acid composition and the use thereof in the preparation of a drug, health food and food for treating essential tremor, wherein the fatty acid composition is composed of the following ingredients: an edible oil containing nervonic acid, linseed oil and other edible oils.

21: 2022/07561. 22: 2022/07/08. 43: 2022/07/25 51: E04B

71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU SHENZHEN CONSTRUCTION INVESTMENT DEVELOPMENT CO., LTD., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: MAO, Weimin, YIN, Malin, YAN, Guodong, TIAN, Panyin, CHEN, Zhenyu

33: CN 31: 202123347172.0 32: 2021-12-28 54: ASSEMBLED EXTERNAL WALL TRANSITION STRUCTURE

00: -

The present application discloses an assembled external wall transition structure comprising three vertical steel frames and three horizontal steel frames, a pre-fixing bolt is thread connected inside the pre-fixing screw hole, an internal screw hole is provided inside the pre-fixing bolt, a front surface of the wall body is provided with a support device by the fixing screw, the support device comprises a support plate, a support rod is fixedly connected to a back of the support plate, and a top of the support rod is provided with a fixing screw hole, and a support fixation device is inserted inside the insertion hole. The present application relates to the technical field of assembled building; in the assembled external wall transition structure, the support rod is inserted into the external wall through-hole and the central through hole, and the fixing screw passes through the corresponding support hole and the external wall screw hole to fix the support plate on the front surface of the wall body; the insertion rod is inserted into the insertion hole and fixed by the fixing bolt, and the support frame clings to the steel frame after fixation to further fix the wall body by the support plate.



21: 2022/07562. 22: 2022/07/08. 43: 2022/07/25 51: E04B

71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU SHENZHEN CONSTRUCTION INVESTMENT DEVELOPMENT CO., LTD., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: JIA, Xiao, XIE, Xinwen, LI, Jing, LIU, Gang, ZHAN, Sheng, WANG, Cong, XING, Yangzong
33: CN 31: 202110925906.4 32: 2021-08-12
54: SUPPORT ROD AND KEEL SUPPORTING
SYSTEM FOR A PREFABRICATED BUILDING
WALL BODY

00: -

The present disclosure relates to the technical field of prefabricated building wall body pouring, providing

a support rod for a prefabricated building wall body and a keel support system, the keel support system comprises a plurality of transverse steel bars and a plurality of vertical steel bars, the support rod comprises a first rod body and a second rod body both extend along a first direction, wherein the second rod body is configured to move along the first direction relative to the first rod body, a check mechanism is arranged between the first rod body and the second rod body, the check mechanism cooperates with the first rod body and the second rod body to prevent the second rod body from retracting relative to the first rod body; wherein a first steel bar fixing mechanism is arranged on the first rod body, and a second steel bar fixing mechanism is arranged on the second rod body.



21: 2022/07652. 22: 2022/07/11. 43: 2022/08/05 51: A01C

71: SHANDONG UNIVERSITY OF TECHNOLOGY 72: WANG, Xiangyou, SHAN, Xinhe, LI, Xueqiang, LIANG, Xicheng

54: FOUR-JAW SYNCHRONOUS ELASTIC CLAMPING DEVICE FOR SEED POTATO CUTTING OF POTATOES

00: -

Provided is a four-jaw synchronous elastic clamping device for seed potato cutting. A cylindrical boss is welded at the center of base plate, two friction components are installed symmetrically relative to the center of base plate, the bottom of spring seat is mounted at the center of base plate, the bearing outer ring is fixed inside the bearing fixing sleeve at the bottom of spring seat, the cylindrical block is welded on the lower end of support plate inside the cylindrical tubes, the first section of connecting rod is welded with clamping plate, a pulley is installed at the second and third sections of connecting rod and rolls horizontally in the spring seat, the end part of the third section of connecting rod is connected to the lower end face of support plate, and four clamping claws are symmetrically distributed relative to the center of base plate.



21: 2022/07913. 22: 2022/07/15. 43: 2022/08/02 51: G06N

71: GUANGDONG OCEAN UNIVERSITY 72: LIN, Jingliang

33: CN 31: 202111446965.X 32: 2021-11-30 54: A HYPERPARAMETER OPTIMIZATION METHOD FOR DEEP LEARNING ALGORITHM BASED ON SPARSE RESPONSE SURFACE 00: -

In view of the limitations of the prior art, the invention proposes a hyperparameter optimization method of deep learning algorithm based on sparse response surface, this method utilizes the highly sparse response surface to approximate the highdimensional nonlinear mapping relationship between the hyperparameter configuration of the deep learning algorithm and the recognition accuracy of the deep neural network; the overall optimization efficiency is higher, and in the process of constructing a high-dimensional nonlinear mapping response surface between the hyperparameter configuration and the recognition accuracy of the deep neural network, the number of hyperparameter configurations that need to be evaluated is less; in the process of developing hyperparameter configuration that is more likely to further improve the recognition accuracy of deep neural network, both global "exploration" and local "mining" are taken into account; further screening of the developed hyperparameter configuration reduces the iterative resources required to train the neural network in the process of evaluating the performance of the hyperparameter configuration; under the same iterative resource, the recognition accuracy of the neural network model constructed by using the hyperparameter configuration optimized by the invention is higher.



21: 2022/07958. 22: 2022/07/18. 43: 2022/08/02 51: A01C; A01G; F03D

71: NANJING HYDRAULIC RESEARCH INSTITUTE 72: WANG, Xiaojun, CHEN, Feng, ZHANG, Jianyun 33: CN 31: 202111617809.5 32: 2021-12-27 54: IRRIGATION METHOD AND SYSTEM FOR COASTAL REGIONS 00: -

An irrigation method and system for coastal regions. The method includes: selecting coastal region and collecting natural and environmental data of the coastal region; building a basic database of the coastal region based on high-precision map of the coastal region; establishing a water demand calculation model for coastal crops and a multisource water supply model, where the multi-source water supply model includes a multi-source water of

mixed salt-fresh water calculation model and a freshwater source calculation model; calculating water demand Qdemand during a forecast period according to the water demand calculation model for coastal crops; clarifying salt content Slimit of the water demand during the forecast period; calculating the water supply amount Qsupply in the coastal region during the forecast period according to the multi-source water of mixed salt-fresh water calculation model; and comparing the Qdemand and the Qsupply to accordingly regulate irrigation operation. The method provided herein can construct a high-efficiency utilization and management system for the water sources in coastal regions, and provide technical supports for agricultural production and coordinated landmaritime development.



21: 2022/08017. 22: 2022/07/19. 43: 2022/08/02 51: B23Q

71: QINGDAO UNIVERSITY OF TECHNOLOGY, HANERGY (QINGDAO) LUBRICATION TECHNOLOGY CO., LTD.

72: LI, Changhe, CHEN, Minkai, ZHOU, Zongming, ZHANG, Naiqing, XU, Shuaiqiang, LIU, Dewei, LU, Bingheng, ZHANG, Yanbin, WANG, Xiaoming, YANG, Min, LIU, Bo, CUI, Xin, LIU, Mingzheng, WU, Xifeng

33: CN 31: 202110819415.1 32: 2021-07-20 54: AUTOMOBILE HUB FIXTURE, MACHINING DEVICE, AND PRODUCTION LINE

00: -

The present invention discloses an automobile hub fixture, a machining device, and a production line. The technical solutions are as follows. The automobile hub fixture includes a fixture body and a positioning apparatus. The fixture body includes a fixed platform and a plurality of clamping claws arranged at intervals in a circumferential direction of the fixed platform. The clamping claws are configured to clamp an outer rim of a hub. The plurality of clamping claws are connected to a driving member by using a linkage, and the driving member drives the clamping claws to radially move along the fixed platform. The positioning apparatus includes a movable platform slidably connected to the clamping claws. A positioning module configured to position an inner rim or the outer rim of the hub is mounted to the movable platform. The machining device includes a fixture, a machine tool, and a minimal quantity lubrication apparatus. The production line includes a machining device, a loading system, a loading and unloading manipulator, and a catching table. The fixture is applicable to clamping of hubs having different sizes and specifications. Machining includes minimal quantity lubrication machining, so that the requirement for machining of a hub can be satisfied and the machining quality can be ensured. In addition, casting to machining and outputting of a hub is continuous, improving the machining efficiency.



21: 2022/08025. 22: 2022/07/19. 43: 2022/08/02 51: B29C 71: GUANGDONG OCEAN UNIVERSITY 72: LIU, Huanlao, ZHANG, Zilin, WANG, Yulin, KONG, Fanwei 33: CN 31: 202110926609.1 32: 2021-08-12 54: AN INJECTION MOLD

00: -

The invention discloses an injection mold. comprising a front mold of the injection mold and a rear mold of the injection mold, the front mold of the injection mold and the rear mold of the injection mold are connected with each other in an upper and a lower arrangement manner: the front mold of the injection mold is directly provided with a flow channel from top to bottom, the upper end of the flow channel is connected with a glue inlet, and the lower end is connected with a hot nozzle; the diameter of the flow channel gradually increases from the glue inlet to the hot nozzle, and its shape is conical; the front mold of the injection mold is also provided with a front mold core that can be lifted, the middle of the front mold core is provided with a front mold cavity, and the flow channel is connected with the front mold cavity through the hot nozzle; the rear mold of the injection mold is provided with a rear mold core, the rear mold core is provided with a rear mold cavity, and the rear mold cavity is connected with the front mold cavity to form a molding cavity of the product. The invention solves the problems of color streaks and printing of injection molding products caused by excessive injection pressure and flow rate of the rubber and solves the problem that the rubber may solidify when entering the mold cavity due to the influence of the temperature of the rubber, and improves the quality and qualification rate of the products.



21: 2022/08052. 22: 2022/07/19. 43: 2022/08/18 51: A61K
71: ALLEN, Randy Leiman 72: ALLEN, Randy Leiman 33: US 31: 62/968,648 32: 2020-01-31 33: US 31: 63/040,340 32: 2020-06-17 33: US 31: 63/122.307 32: 2020-12-07 33: US 31: 63/135,699 32: 2021-01-10 54: METHODS AND KIT FOR DETECTION OF ANALYTES

00: -

The present invention provides for a kit and methods that detect certain analytes of interest potentially present in blood and bodily fluids of a living mammal. The methods and kit encompass a bioassay performed in vivo. Contact of the bioassay reagent with the analyte, if present, renders a response that can be clinically assessed visually or by reading instrumentation or by biosensor. In one embodiment, the invention may be used to detect the presence, absence, or amount of suspected analyte present in a patient test subject. The invention is particularly suited for point-of- care (POC) use, self-testing, large-scale implementation and for use with patients where limited sample volumes are available or accessible.

21: 2022/08161, 22: 2022/07/21, 43: 2022/08/02 51: A01H: C07K: C12N

71: INSTITUTE OF NANFAN & SEED INDUSTRY, **GUANGDONG ACADEMY OF SCIENCES** 72: ZHANG, Nannan, FU, Danwen, LING, Qiuping, GAO, Feng

33: CN 31: 202111396451.8 32: 2021-11-23 54: UPSTREAM REGULATORY FACTOR IBEBF2 AND USES THEREOF IN REGULATING THE **IBBHLH2 EXPRESSION IN PURPLE SWEET** ΡΟΤΑΤΟ

00: -

The present invention discloses an upstream regulatory factor IbEBF2 and uses thereof in regulating the IbbHLH2 expression of purple sweet potato. In this present invention, a purple sweet

potato strain "A5" serves as an experimental material to clone a promoter sequence of IbbHLH2, and the upstream regulatory factor IbEBF2 of the gene IbbHLH2 is successfully obtained by yeast one-hybrid library screening experiments. A yeast one-hybrid turning experiment and a dual-luciferase reporter system are utilized to detect and prove the presence of interaction between the promoter IbbHLH2 and the upstream regulatory factor IbEBF2. Results of subcellular localization shows that IbEBF2 is located in cell nucleus. Results of self-activation activity test indicate that IbEBF2 has self-activation activity. The present invention can enrich and deepen the basic theory for the regulation of plant anthocyanin biosynthetic molecules theoretically, and meanwhile can be further expected to provide new ideas and clues for the cultivation measure of improving the pigment content in tuberous root of purple sweet potato.

PIbbHLH2-pAbAi+ IbEBF2-AD



*PIbbHLH2-1-*pAbAi + AD

SD/-Leu/AbA

21: 2022/08162, 22: 2022/07/21, 43: 2022/08/02 51: A23L

71: ZHEJIANG GONGSHANG UNIVERSITY 72: CHEN, Yuewen, YE, Xingtian, ZHANG, Jingna, CAI, Wengiang, LIU, Feijian, WEI, Jianling, LI, Donghui, REN, Shaotian, JIANG, Dandan 54: A METHOD FOR PROCESSING NUTRITIONAL **BLACK VINEGAR** 00: -

The present invention discloses a method for processing nutritional black vinegar, which is to

make five kinds of raw vinegar with black rice, black glutinous rice, rye, black tartary buckwheat and black corn, respectively, by processing technologies such as twin-screw extrusion and compound strain fermentation, and then compound these raw vinegar and add functional nutritional supplements such as squid ink eumelanin, rice polypeptide and kelp active polysaccharide, to produce a series of nutritional blended vinegar, including original black vinegar, polypeptide black vinegar and polysaccharide black vinegar.



21: 2022/08163. 22: 2022/07/21. 43: 2022/08/02 51: G01F

71: HUANENG COAL TECHNOLOGY RESEARCH CO., LTD, ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, YUNNAN DIANDONG YUWANG ENERGY CO., LTD

72: WANG, Yilong, CAI, Feng, WANG, Dalong, SUN, Fulong, ZHAO, Qingquan, CHEN, Cunqiang, WANG, Haijun, LI, Yongyuan, LI, Chao, MA, Xingen, GUO, Jianzhong

33: CN 31: 202111003798.1 32: 2021-08-30 54: HIGH-PRECISION SELF-CORRECTION ULTRASONIC FLOWMETER FOR COALBED METHANE IN EXTRACTION PIPE NETWORK 00: -

The present invention discloses a high-precision self-correction ultrasonic flowmeter for coalbed methane in an extraction pipe network. The highprecision self-correction ultrasonic flowmeter includes a pipe body, wherein the pipe body includes a front flow-adjusting section, a measuring section and a rear flow-adjusting section in an axial direction, and an ultrasonic transmitting probe and an ultrasonic receiving probe are mounted on each of two symmetrical sides of the measuring section. The high-precision self-correction ultrasonic flowmeter for coalbed methane in the extraction pipe network further includes a controller. The controller is connected with control terminals of the ultrasonic transmitting probes, is further connected with the ultrasonic receiving probes for signal transmission respectively, and acquires the flow of the coalbed methane passing through the pipe body after correction, through calculation. According to the present invention, the working reliability of the flowmeter can be improved, the fault problem is reduced, and thus the accuracy of measurement results is further improved.



21: 2022/08190. 22: 2022/07/22. 43: 2022/08/02 51: B01D

71: NANCHANG INSTITUTE OF TECHNOLOGY 72: LU, Xianghui, ZHANG, Haina, BAO, Lida 54: AN IONIC RARE EARTH MINE TAILINGS LAND IMPROVER AND VEGETATION RECLAMATION METHOD 00: -

The present invention disclose an ionic rare earth mine tailings improve, which is prepared from that following raw materials in part by weight: 20-30 parts of sphagnum moss, 20-30 parts of seaweed mud, 10-15 parts of organic calcium-based montmorillonite, 1-5 parts of coconut shell cellulose, 5-10 parts of ammonium polyphosphate, 5-10 parts of biochemical potassium fulvate and 20-30 parts of organic fertilizer. In addition, the present invention also provides a vegetation reclamation method of ion rare earth mine tailings. According to The present invention, sphagnum moss, seaweed mud, coconut shell cellulose, organic calcium-based montmorillonite, ammonium polyphosphate, biochemical potassium fulvate and organic fertilizer are used as improvers, and the purpose of vegetation reclamation is achieved by planting Pennisetum and molasses grass, which effectively solves the problems of weak water and fertilizer retention capacity and low organic matter content in the soil of ionic rare earth mine tailings, and also solves the problem that rare earth metals and heavy metals in the soil exceed the standard. After

vegetation reclamation, the improvement effect of ionic rare earth mine tailings is lasting, and the soil keeps water.

21: 2022/08206. 22: 2022/07/22. 43: 2022/08/02 51: A61K

71: INSTITUTE OF BOTANY, JIANGSU PROVINCE AND CHINESE ACADEMY OF SCIENCES, HU'NAN HENMEI TECHNOLOGY CO., LTD

72: SONG, Pingping, MAO, Yan, WEI, Min, JIANG, Xiaoyan, LV, Ye, YAN, Lu, QIAN, Yiyun, ZHANG, Qing

54: AN HERBAL COMPOSITION AND ITS USE IN THE PREPARATION OF PRODUCTS FOR THE TREATMENT OF INFLAMMATORY GYNECOLOGICAL DISEASES

00: -

The present invention discloses a combination of Radix et Rhizoma Paeoniae - Eucommia Ulmoides leaf extract and its application. Compared with Radix et Rhizoma Paeoniae and Eucommia Ulmoides leaf alone, the combination of Radix et Rhizoma Paeoniae and Eucommia Ulmoides leaf has good antibacterial effect, and the two produce synergistic effect and stronger antibacterial effect. According to the pathogenesis of gynecological inflammation, the present invention makes full use of traditional Chinese medicine resources and applies the combination of Radix et Rhizoma Paeoniae -Eucommia Ulmoides leaf extract as antibacterial active ingredient in the preparation of products for the prevention and treatment of gynecological inflammation, mixed with pharmacological conventional excipients according to the conventional process to make clinically applicable Chinese medicine preparation products, which can also be added to hygiene products.

21: 2022/08208. 22: 2022/07/22. 43: 2022/08/02 51: A61K

71: INSTITUTE OF BOTANY, JIANGSU PROVINCE AND CHINESE ACADEMY OF SCIENCES, HU'NAN HENMEI TECHNOLOGY CO., LTD 72: SONG, Pingping, MAO, Yan, WEI, Min, JIANG, Xiaoyan, LV, Ye, QIAN, Yiyun, YAN, Lu 54: THE USE OF CENTELLA ASIATICA EXTRACT IN THE PREPARATION OF OVARIAN NOURISHING HERBAL PRODUCTS 00: -

The present invention discloses the use of Centella asiatica extract in the preparation of products for

nourishing the ovaries. Based on the pathogenesis of ovarian dysfunction and insufficient growth of ovarian granulosa cells, the present invention makes full use of traditional Chinese medicine resources to develop a new use of Centella asiatica extract for the treatment of ovarian dysfunction and increasing the activity of ovarian granulosa cells through pharmacological experiments based on the preparation of Centella asiatica extract.

21: 2022/08327. 22: 2022/07/26. 43: 2022/08/02 51: B22F; B33Y 71: HUANGSHAN UNIVERSITY 72: FANG, Tao, WANG, Yan, SUN, Yinyu 33: CN 31: 202111471853.X 32: 2021-12-06 54: METAL POWDER TRANSPORTATION APPARATUS AND LASER SELECTIVE MELTING DEVICE

00: -

The present invention provides a metal powder transportation apparatus and a laser selective melting device. The metal powder transportation apparatus comprises a funnel, a transportation rod and a feeding screw. The transportation rod is internally provided with a mounting cavity, the mounting cavity is internally and movably provided with a fixing frame, the fixing frame is internally provided with a filter screen plate, a first elastic block is fixedly connected with the filter screen plate and an inner wall of a mounting groove, the fixing frame is internally provided with a striking assembly for striking the filter screen plate, the fixing frame is internally provided with a heating groove, the heating groove is internally and fixedly provided with a heating wire, and the heating wire is communicated with a striking cavity through a first air duct. In a using process of the present invention, locking balls and slots are matched during a process where the fixing frame moves downwards, so that the filter screen plate vibrates, and an agglomerated metal powder is crushed quite thoroughly as the striking assembly strikes the filter screen plate, hot air is blown to the agglomerated metal powder and an extrusion rod extrudes the powder falling from a filter screen mesh.



21: 2022/08362. 22: 2022/07/27. 43: 2022/08/02 51: A01G

71: HUINONG TIANXIA (SHANDONG)

TECHNOLOGY INFORMATION CONSULTING CO., LTD.

72: HUANG, Yuyin, WANG, Zhenghao, LI, Defeng, KANG, Xiaofei, WU, Zhenzhen, JIA, Guoshuai, JIANG, Shuaiyu, XUE, Mingming, WANG, Fengyan, HUANG, Na

54: METHOD FOR RAPIDLY MAKING PINUS THUNBERGII STUB POTTED LANDSCAPE 00: -

In the present invention, based on traditional grafting methods, a Pinus thunbergii thick branch trunk is creatively used as a scion, a Pinus thunbergii seedling with a complete root system is grafted onto a truncated Pinus thunbergii thick branch section through traditional grafting methods such as bark grafting and special-shaped inarching, the Pinus thunbergii seedling and Pinus thunbergii thick branch section grow together, nutrients absorbed by a Pinus thunbergii thick branch are supplied, the Pinus thunbergii thick branch grows into a Pinus thunbergii thick branch stub landscape through cultivation and conservation, and then a Pinus thunbergii stub potted landscape blank is made through pruning and art processing. The purpose of rapidly forming the Pinus thunbergii stub potted landscape is achieved, and a making period is approximately 2-3 years. Main materials include a waste branch or a thick branch trunk, and a 1-2year-old Pinus thunbergii seedling with a complete root system.

21: 2022/08431. 22: 2022/07/28. 43: 2022/08/02 51: B01J

71: MENG, Junyu, WANG, Shuyin, DONG, Chong, JINAN YILIN TECHNOLOGY CO., LTD. 72: MENG, Junyu, WANG, Shuyin, DONG, Chong 54: A COPPER-CHROMIUM-BASED TGR-TITANIUM MEMBRANE THREADED TUBULAR AIR PREHEATER AND TUBE MEMBRANE COMPOSITION

00: -

The present invention belongs to the technical field of energy conservation in high energy consumption industries such as new energy, high efficiency and energy conservation, and electric power, and particularly relates to a copper-chromium-based TGr-titanium membrane threaded tubular air preheater and tube membrane composition The copper-chromium-based TGr-titanium film threaded tubular air preheater and pipe film components comprise a base pipe and a copper-chromium-based TGr-titanium film layer, wherein the outer side of the base pipe is provided with the copper-chromiumbased TGr-titanium film layer. The utility model has the advantages that the screw thread can increase the heating area, so that the heat transfer capacity of the air side is greatly enhanced; meanwhile, the flue gas flow rate is reasonably selected; under the ripple disturbance, there is almost no ash deposition phenomenon; the heat transfer capacity is enhanced, so that the wall temperature is increased, the low-temperature corrosion is reduced, the heat of the flue gas side is better utilized, the combustion condition is improved, and the efficiency is improved.



21: 2022/08432. 22: 2022/07/28. 43: 2022/08/02 51: H01L

71: DONG, Zhilin, MENG, Junyu, WANG, Shuyin, DONG, Chong, JINAN YILIN TECHNOLOGY CO., LTD.

72: DONG, Zhilin, MENG, Junyu, WANG, Shuyin, DONG, Chong

54: A MANUFACTURING PROCESS OF COPPER-CHROMIUM BASED TGR-TITANIUM FILM SPIRAL AIR PREHEATER

00: -

The present invention belongs to the technical field of tubular air preheater, and particularly relates to a manufacturing process of a copper-chromium based TGr-titanium film spiral air preheater. The manufacturing process of the copper-chromiumbased TGr-titanium film spiral air preheater comprises the following steps: basic pipe feeding, basic pipe grinding, basic pipe spraying, paint recovery, basic pipe sintering, cooling and discharging, workpiece separation, workpiece blanking, interception and storage. The method has the advantages that the manufacturing process of the copper-chromium based TGr-titanium film spiral air preheater is simple, the technical scheme saves labor and raw materials during implementation, and simultaneously improves the production efficiency.



21: 2022/08512. 22: 2022/07/29. 43: 2022/08/05 51: E04B

71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD. 72: ZHANG, Mao, XIANG, Changyu, HU, Xiaoke, WANG, Jiabin, WANG, Meifu 54: NOISE REDUCTION CONSTRUCTION

STRUCTURE WITH EQUIPMENT ROOM 00: -

A noise reduction construction structure with an equipment room includes a construction body, an inside of the construction body is provided with the equipment room and residential rooms; four soundabsorbing chambers are formed on four inner sides of bottom of the construction body; four acoustical panels are separately arranged inside the four sound-absorbing chamber; a plurality of silencing holes are opened on the four acoustical panels; sound-absorbing sponges are fixedly arranged inside the four sound-absorbing chambers; a soundinsulating assembly is arranged in a middle of the inside of the construction body. The beneficial effect is by utilizing the four sound-absorbing chambers and sound-absorbing sponges inside the soundabsorbing chambers to absorb part of the noise from the equipment room. Meanwhile, by utilizing the sound-insulating assembly, the noise generated from the equipment room may be further reduced.



21: 2022/08513. 22: 2022/07/29. 43: 2022/08/05 51: E04B

71: CHINA CONSTRUCTION SECOND

ENGINEERING BUREAU LTD. 72: WEN, Tao, WANG, Zhen, HU, Xiaoke, ZHENG, Kaixuan, CHEN, Jian

54: WATERPROOF STRUCTURE OF CONSTRUCTION EXPANSION JOINT 00: -

A waterproof structure of a construction expansion joint includes two assembling plates, an inside of each of the two assembling plates are provided with a upright plate, a top of each of two upright plates are provided with a transverse plate; bottom ends of two transverse plates are slidably connected on an inside top of the assembling plate, an inside bottom of two assembling plates are opened with assembling slots. The beneficial effect is four solar panels can transform the solar energy into electric energy via a stabilized current equipment, then the electric energy may be stored in the storage battery, controlling output shafts of two directional whirl motors to drive two screw rods to be thread engaged with of the rectangular blocks; two screw rods engaging with the threads of rectangular blocks may drive two directional whirl motors, two upright plates and two transverse plates to move.



21: 2022/08514. 22: 2022/07/29. 43: 2022/08/05 51: E02D 71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD. 72: XIANG, Changyu, WANG, Zhen, HU, Xiaoke, LI, Linjun, WANG, Changjun 54: SLOPE REINFORCING DEVICE FOR FOUNDATION CONSTRUCTIONAL ENGINEERING 00: -

A slope reinforcing device for foundation constructional engineering includes a fixing plate and a hollow slope plate. The slope plate is fixedly connected with one side of the fixing plate. A reinforcing assembly and a fixing assembly are arranged inside the slope plate. The reinforcing assembly comprises two electro-hydraulic cylinders and a reinforcing plate, each of the cylinders are separately arranged on a bottom of an inside of the slope plate. The advantages is that two electrohydraulic cylinders drive two fixing plates to move, the movement of the two fixing plates makes the reinforcing plate move out to contact the slope for protection, by using steel ropes and ground inserting nails, a reinforcing net is stretched to a maximum extent and then is inserted into the ground via the ground inserting nails. The slope reinforcing device enlarges its using scope and improves reinforcing effect.



21: 2022/08515. 22: 2022/07/29. 43: 2022/08/05 51: B62D

71: CHENGDU VOCATIONAL AND TECHNICAL COLLEGE OF INDUSTRY

72: YU, Zhigang

33: CN 31: 202210747495.9 32: 2022-06-29 54: A LIFTABLE LARGE TRUCK MUD COVER 00: -

The present invention discloses a liftable large truck mud cover, which belongs to the technical field of automobiles and comprises a chassis frame, wherein a displacement sensing mechanism, a driving mechanism and a locking mechanism are sequentially fixed on the chassis frame from front to back; the locking mechanism comprises a guide part, a connecting part and an unlocking part; the connecting part is slidingly connected inside the guide part; the unlocking part is attached to one side of the guide part; the upper end of the connecting part is fixedly connected with the driving mechanism; the lower end of the connecting part is fixedly connected with a connecting frame; the displacement sensing mechanism is fixedly connected with the connecting frame through a synchronous bracket; and the lower end of the connecting frame is fixedly connected with a mud cover. According to the present invention, the automatic lifting and locking functions of the truck mud cover can be realized through the driving mechanism and the locking mechanism, so that the truck can meet the driving requirements of different road conditions, and the driving adaptability of the truck is enhanced.



21: 2022/08539. 22: 2022/07/29. 43: 2022/08/05 51: F16F

71: NINGBO WELLLIH ROBOTS TECHNOLOGY CO., LTD.

72: JIN, Chaochao, SHI, Chao, YUAN, ZhongLiang 54: A HEAVY-DUTY TRUSS ROBOT RACK AND PINION CLEARANCE ADJUSTMENT DEVICE 00: -

The present invention discloses a heavy-duty truss robot rack and pinion clearance adjustment device, which relates to the field of automation equipment. It includes a drive plate, a gear holder slidingly connected to the drive plate, the gear holder is provided with a first bar groove and a second bar groove, the upper face of the gear holder is also provided with a cam adjusting block, the cam adjusting block is inserted into the second bar groove and connected to the gear holder rotationally; the center of the gear holder is connected to the drive shaft rotationally, the bottom end of the drive shaft is fixedly connected to a helical gear; it also includes a helical rack and a fixed base, the helical rack is connected to the helical gear transmission, the fixed base The first slot is set perpendicular to the helical gear, and the second slot is set parallel to the helical gear. The present invention uses cam adjusting block to adjust smoothly and accurately

and can ensure the standard design clearance of the rack and pinion with machining accuracy, and the adjustment method is simple and convenient, which effectively improves the efficiency of the truss robot.



21: 2022/08540. 22: 2022/07/29. 43: 2022/08/05 51: G06F

71: NINGBO WELLLIH ROBOTS TECHNOLOGY CO., LTD.

72: YUN, Jie, JIN, Chaochao, FU, Diyong 54: A HEAVY-DUTY TRUSS MANIPULATOR AND MES SYSTEM INTERACTION METHOD 00: -

The present invention discloses a heavy-duty truss manipulator and MES system interaction method, which relates to the field of flexible manufacturing technology, with the following steps: the automation equipment is interconnected with the data service IPC in dual channels; the data service IPC obtains the data of the automation equipment and stores its historical data in the database; the MES system subscribes to the data of interest through the MES docking server of the data service IPC; in the MES In the MES docking server, subscription publishing mode is used to establish a subscription pool of automation equipment; when the data service IPC acquires the data of automation equipment, it checks whether the subscription pool exists for data subscription, and if it exists, it distributes the subscription data to the MES system. The method of the present invention enables more secure external access to the automation equipment and localized storage of the automation equipment historical data, and the MES system obtains the real-time status of the automation equipment by way of subscription, reducing the network load transmitted by the MES system.



21: 2022/08580. 22: 2022/08/01. 43: 2022/08/05 51: E01D

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

72: LI, Yajie, LAN, Qixun, WANG, Chaoyong, CAI, Jing, ZHANG, Yao, XIE, Fan, CAI, Yujie, ZHOU, Shuke, ZHAO, Xupei, CHEN, Yajin, XU, Huafeng, LIU, Yuxiao, LI, Deying, MU, Jingjing, ZHANG, Xiaoguo, WANG, Zhe, WANG, Dongxia **54: A BRIDGE BEARING WITH STABLE INSTALLATION AND STABLE STRUCTURE** 00: -

The present invention discloses a bridge bearing with stable installation and stable structure. belonging to the technical field of bridge bearings. The upper steel plate of the bridge bearing is fixed at the bottom of the bridge, and the sliding mechanism along the bridge comprises an upper fixing plate, an upper steel box, two first sliding blocks and a first connecting rod, wherein the upper fixing plate is fixed at the bottom of the upper steel plate, the upper steel box is arranged at the bottom of the upper fixing plate, and the inner middle part of the upper steel box is provided with a first blocking block which is symmetrical up and down; the two first sliding blocks are respectively located at the left and right sides of the first blocking block and are fixedly connected by a first connecting rod, the first connecting rod is located between the two first

blocking blocks which are symmetrical up and down, and the tops of the two first sliding blocks are connected with the bottom surface of the upper fixing plate; the lower steel plate is fixed at the top of the pier; the rubber sleeve is arranged between the upper steel plate and the lower steel plate, and the rubber sleeve is positioned outside the sliding mechanism along the bridge.



21: 2022/08582. 22: 2022/08/01. 43: 2022/08/05 51: B01L

71: WUTONG AROMA CHEMICALS CO., LTD. 72: CHEN, Xiang, ZANG, Chuanjin, YAN, Peiliang, ZHANG, Guangjun, SONG, Yang, ZHANG, Leiliang, ZHANG, Hua, YIN, Lina

33: CN 31: 202122711804.0 32: 2021-11-08 54: ALLYL DISULFIDE TEST BASE WITH ANTI-TOPPLING FUNCTION

00: -

The present disclosure discloses an allyl disulfide test base with an anti-toppling function. The allyl disulfide test base includes a base; two sides of the base are provided with vertical rods; surfaces of the vertical rods are perpendicularly connected with transverse rods; the transverse rods are internally connected with threaded rods; joints of the threaded rods and the transverse rods are threaded connection structures; one end of each threaded rod is connected with a deviator; a deviator slot matched with the external dimension of the deviator is formed inside the transverse rod. According to the allyl disulfide test base with the anti-toppling function, the pull rods are pulled outwards to drive the linkage plates to squeeze the springs, and the vertical rods are then rotated to drive the steering levers to rotate inside the base; after the vertical rods are rotated to be parallel to one side of the base, the pull rods are released; and after being automatically reset under

the elastic expansion action of the springs, the pull rods are inserted into the insertion slot of the base to fix the vertical rod at a position after rotation, thus achieving an effect of conveniently adjusting the vertical rods according to an actual use requirement.



21: 2022/08583. 22: 2022/08/01. 43: 2022/08/05 51: A61K

71: QINGDAO UNIVERSITY OF SCIENCE AND TECHNOLOGY, YELLOW SEA FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCE

72: ZHAO, Ling, LIU, Qi, YU, Yueqin 54: PREPARATION METHOD AND APPLICATION OF THE COD PEPTIDE CHELATED FERROUS HYDROGEL

00: -

The present invention provides the preparation method and application of the cod peptide chelated ferrous hydrogel, which is incorporated in the field of marine biological products. In the said method, the cod peptide chelated ferrous hydrogel is prepared first. Then, carboxymethyl chitosan/polyvinyl alcohol hydrogel is prepared with glutaraldehyde as crosslinking agent. The cod peptide chelated ferrous iron is mixed with hydrogel to obtain the cod peptide chelated ferrous hydrogel. The hydrogel prepared by the method of the present invention hardly swells when passing through the oral cavity and the stomach, and it only targets to release the cod peptide chelated ferrous iron at the proximal end of the small intestine. Its characteristics of highly stable and easy absorption by the epithelial cells of the small intestine can enhance the bioavailability of iron.

21: 2022/08674. 22: 2022/08/03. 43: 2022/08/05 51: A62D

71: CHONGQING TECHNOLOGY AND BUSINESS UNIVERSITY

72: YIN, Hong, DENG, Yuan, CHEN, Yafei, HE, Donglin, GONG, Haifeng, CHEN, Ziqiang 33: CN 31: 202210724671.7 32: 2022-06-24 54: A METHOD AND DEVICE FOR EXTRACTING **OIL-BASED DRILLINGCUTTINGS**

00: -

The present invention discloses an extraction method and apparatus for oil-based drilling cuttings, comprising: 1) Adding the oil-based drilling cuttings and glass beads to the extraction vessel and continuously stirring. 2) Pre-heating the extraction container. 3) Gaseous CO2 and entrainerare pressurized and mixed, and then transported to the preheater for heating. 4) Conveying the supercritical CO2 containing the entrainer to the extraction container and closing the output end to achieve the working pressure. 5) Stop the transportation of supercritical CO2 containing entrainer to complete static extraction. 6) Opening the output end of the stirring extraction container and convey the supercritical CO2 containing the entrainer again to complete the dynamic extraction. 7) Supercritical CO2 carrying petroleum hydrocarbons is separated in the primary separator. 8) Repeat static extraction and dynamic extraction at least twice. The present invention employs a double-cycle extraction mode of static extraction and dynamic extraction, which can effectively improve the extraction efficiency. Adding glass beads to the oil-based drill cuttings and continuously stirring to increase the contact area between supercritical CO2 and oil-based drill cuttings can effectively solve the problem of uneven extraction.



21: 2022/08769. 22: 2022/08/05. 43: 2022/08/16

51: A01H

71: INSTITUTE OF WHEAT RESEARCH. SHANXI AGRICULTURAL UNIVERSITY

72: ZHANG, Jianhua, ZHANG, Dingvi, QIU, Jiandong, PEI, Lei, XIE, Lili, ZHANG, Yanjie, XING, Cuipina

33: CN 31: 202111405696.2 32: 2021-11-24 54: A HIGH-YIELD, WIDELY-ADAPTED AND **DISEASE-RESISTANT WHEAT VARIETY BREEDING METHOD** 00. -

The present invention relates to a high-yield, widelyadapted and disease-resistant wheat variety breeding method, belonging to the technical field of crop cultivation. The breeding method of the present invention comprises the following steps: (1) selecting two middle-late maturing high-vield wheat varieties for hybridization and harvesting to obtain Generation F1 wheat seeds; (2) planting Generation F1 wheat seeds to obtain Generation F2 seeds without powdery mildew and Generation F2 seeds with powdery mildew; (3) planting Generation F2 powdery mildew-free seeds and Generation F2 powdery mildew-free seeds in an interrow planting mode, and harvesting Generation F3 powdery mildew-free seeds; (4) planting the seeds without powdery mildew in Generation F3 and harvesting the seeds without powdery mildew in Generation F4; (5) planting Generation F4 seeds without powdery mildew, and harvesting Generation F5 wheat seeds; (6) planting Generation F5 wheat seeds in an area with an annual average temperature of 8-10°C to obtain high-yield, wideadaptability and disease-resistant wheat varieties; The wheat variety obtained by the breeding method has popularization.

21: 2022/08770, 22: 2022/08/05, 43: 2022/08/16 51: H02J

71: HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH

72: ZHAO, Haiyu, LIU, Yi, WANG, Xiangwei, QIAO, Qiang, TONG, Xiaoqin, ZHAO, Changjiang 33: CN 31: 202210816137.9 32: 2022-07-12 54: A DIRECT-DRIVE WIND TURBINE **GENERATOR GRID-CONNECTED SYSTEM AND METHOD** 00. -

The present invention discloses a direct-drive wind turbine generator grid-connected system and method, relating to the technical field of wind power generation, comprising: a wind turbine generator unit, a master controller, a converter, and a synchronous motor; wherein said converter includes a rectifier, an inverter, and a DC capacitor between

said rectifier and said inverter. said fan-generator unit for converting wind energy into electrical energy; said master controller for controlling the start and stop of said fan-generator unit; said converter for controlling the power transfer; said synchronous motor for driving said fan-generator unit to the grid, driven by said converter. The present invention improves the safety and stability of the gridconnected system by using corresponding start-stop methods and improving the circuit breaker and circuit breaker control circuit.



21: 2022/08771. 22: 2022/08/05. 43: 2022/08/16 51: H02S

71: HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH

72: ZHAO, Haiyu, ZHENG, Junbin, LI, Guipeng, QIAO, Qiang, GENG, Yehua, SUN, Hao 33: CN 31: 202210792650.9 32: 2022-07-05 54: A FIXED AND ADJUSTABLE BRACKET 00: -

The present invention discloses a fixed and adjustable bracket, which relates to the technical field of photovoltaic power generation. Comprises a fixed base, an upright post, a bearing seat, a main beam, an adjusting frame, a photovoltaic module, a purlin square tube, a first connecting rod, an electric push rod and a photovoltaic tracking system, wherein the upright post is arranged on the fixed base; the top end of the upright post is provided with an adjusting frame which is rotationally connected with the adjusting frame; the top end of the adjusting frame is provided with a bearing seat; the bearing seat is provided with a bearing; the main beam is sleeved in the bearing; and the purlin square tube is arranged on the main beam. The main beam is also provided with a first connecting rod, one end of which is fixedly connected with the main beam, the other end of which is rotationally connected with an electric push rod, the other end of which is arranged on an upright post, which is rotationally connected

with a photovoltaic tracking system, which is electrically connected with the photovoltaic tracking system. The present invention can automatically adjust the angle of the photovoltaic module to improve the utilization rate of light energy.



21: 2022/08772. 22: 2022/08/05. 43: 2022/08/16 51: H02S 71: HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH 72: LIU, Yi, DING, Chunxing, WU, Tao, ZHAO, Haiyu, QIAO, Qiang, YI, Yang 33: CN 31: 202210840791.3 32: 2022-07-18 54: A PHOTOVOLTAIC MODULE FIXING BRACKET 00:

00: -

The present invention disclose a fixing bracket for photovoltaic modules, which belong to the technical field of photovoltaic power station systems, comprising a front steel pipe pile and back steel pipe pile, both front steel pipe pile and back steel pipe pile are buried in the infill pile, front steel pipe pile and back steel pipe pile are bolted with front column and back column respectively on the top, the length of front column is smaller than the length of back column, the top of front column and back column are fixed with inclined beam through triangle connection, inclined beam is vertically installed with purlin through purlin bracket, back column is connected with back inclined brace through hoop, the other end of back inclined brace is fixedly connected with inclined beam, front column is connected with front inclined brace through hoop, the other end of front inclined brace is fixedly connected with inclined beam. The present invention overcomes the difficult problems of undulating terrain and inconvenient installation in mountainous areas, improves the overall stability and structural strength of the support, and can effectively cope with severe geological disasters such as landslides.



21: 2022/08838. 22: 2022/08/08. 43: 2022/08/16 51: A61K; A61P

71: SHANXI AGRICULTURAL UNIVERSITY 72: HUO, Nairui, YANG, Rujie, CHEN, Liqin, PEI, Wenyue, LI, Hongquan, ZHANG, Ting, ZHAO, Donghao

33: CN 31: 202210746990.8 32: 2022-06-29 54: A MODIFIED MRS-BASED MEDIUM SPECIALIZED FOR LACTIC ACID BACTERIA ISOLATION FROM LIVESTOCK AND POULTRY FECES

00: -

The present invention belongs to the field of microbial technology, aiming to provide a selective medium for isolating lactic acid bacteria (LABs) from complex matrices especially livestock feces. The invention are motivated by the facts that the natural habitat of lactic acid bacteria is always complex with high biodiversity, and now there's few effective and efficient selective medium specialized for lactic acid bacteria isolation. In this invented selective medium, short collagen peptide prepared from sheep bone, antibiotics and food preservative were added to the basic MRS medium. The added amount of sheep bone short collagen peptide is 20 mg/L, the antibiotic added is polymyxin E sulfate at 47mg/L, the food preservative used is sorbic acid at 1000 mg/L. Using this selective medium (modified MRS medium), 61 strains of L. reuteri and 14 strains of L. gasseri were

isolated from pig feces, with a ratio of 4.36 to 1, which was consistent with the high-throughput sequencing results, where the relative abundance of the dominant LABs L. reuteri and Lactobacillus gasseri was 0.226833% and 0.0538%, respectively, with a ratio of 4.6 to 1, which was quite close to the ratio of 4.36 to 1.What's more, Lactobacillus amyloid and Enterococcus lactis not reported in the highthroughput sequencing results were also isolated by the selective medium. Therefore the invented selective medium allows accurate and efficient isolation of LABs from the complex matrix such as livestock and poultry feces.



21: 2022/08840. 22: 2022/08/08. 43: 2022/08/16 51: E21F

71: LIUPANSHUI NORMAL UNIVERSITY 72: LI, Tao, LIU, Jiangang, GAO, Ying, LI, Bo 33: CN 31: 202210670206.X 32: 2022-06-14 54: EXPLORATION AND BLOCKING METHOD FOR GROUNDWATER CONTAMINATION CHANNEL OF COAL MINE GOAF ROOF 00: -

The present disclosure belongs to the technical field of coal mining, specifically to an exploration and blocking method for a groundwater contamination channel of a coal mine goaf roof. The method includes the following steps: predicting a height of a diversion fissure zone of a coal face; determining a maximum filled water bearing strata; calculating a forward distance; recording an actual total water inflow of the goaf, a degree of mineralization of

gushing water and a weighting step; determining a dominant mine weighting section of a groundwater channel of the coal goaf; implementing a blocking borehole group on the ground, and measuring a flow direction and a flow velocity of the maximum filled water bearing strata; perforating blocking boreholes; and performing set grouting blocking on the perforated boreholes. Compared with drilling exploration, the present disclosure has the advantage that the development of a channel is inverted using the water inflow of the coal face, so that the drilling exploration number is greatly reduced, the number of projects is smaller, and the projects are simple and easy to implement. During measurement of the flow velocity and the flow direction and implementation of the perforation technology, one borehole can block a channel in a large area; the blocking efficiency is higher; the work amount is reduced; and the channel exploration accuracy is higher.



21: 2022/08920. 22: 2022/08/10. 43: 2022/08/16 51: G06F

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

72: LI, Yajie, LAN, Qixun, WANG, Chaoyong, WANG, Zhe, ZHOU, Shuke, CHEN, Yao, CAI, Jing, ZHANG, Yao, CAI, Yujie, CHEN, Yajin, XIE, Fan, LI, Hua, XU, Huafeng, LIU, Yuxiao, LI, Deying, MU, Jingjing, ZHANG, Xiaoguo, WANG, Dongxia **54: A BRIDGE STRUCTURE DYNAMICS TESTING DEVICE** 00: - The present invention discloses a bridge structure dynamics testing device, which relates to the technical field of testing. The device comprises a base, wherein the upper side wall of the base is fixedly connected with a connecting piece; the upper end of the connecting piece is rotatably connected with an installation table; the side wall of the installation table is fixedly provided with a rotating mechanism; and the upper side wall of the installation table is fixedly connected with two brackets. Through the use of the fixing mechanism, a bridge structure model is fixed on the device, and a driving motor is started to rotate the rotating gear to drive the installation table to rotate, so that the bridge structure model and the wind tunnel airflow direction are biased to a certain extent.



21: 2022/09167. 22: 2022/08/16. 43: 2022/08/19 51: A61K

71: UNIVERSITY OF SHANGHAI FOR SCIENCE AND TECHNOLOGY

72: AI, Lianzhong, WANG, Guangqiang, XIA, Yongjun, XIONG, Zhiqiang, ZHANG, Hui 54: A LACTOBACILLUS PLANTARUM CAPABLE OF EFFECTIVELY RELIEVING DIABETES 00: -

The present invention provides a Lactobacillus plantarum AR113 that can effectively alleviate diabetes, which has been conserved in the General Microbiology Center of China Microbial Strain Conservation Management Committee on March 22, 2017 under the conservation number CGMCC No. 13909. The Lactobacillus plantarum AR113 strain of the present invention can effectively relieve or even treat diabetes, and can play a role in lowering blood sugar and improving insulin resistance.



21: 2022/09198. 22: 2022/08/17. 43: 2022/08/19 51: G06F

71: ANHUI SONGDING BUILDING MATERIALS CO., LTD.

72: Ming HUANG

54: PROCESSING DEVICE FOR BUILDING BOARD 00: -

The present disclosure provides a processing device for a building board, comprising a base plate, wherein a vertically arranged punched hole is formed in a center of an upper side of the base plate, and the punched hole passes through the base plate vertically and downwards. The present disclosure has the following beneficial effects: the present disclosure provides a processing device for a building board, a telescopic rod pushes a horizontal plate downwards to move downwards, when the horizontal plate moves downwards, a press plate contacts with an upper surface of the board first to compress and fix the board, a punch at a lower side of the horizontal plate continues to move downwards so as to punch the board, waste produced during punching falls into a waste container downwards through the punched hole for collection, and after the punching is completed, the punch is separated from the board under the effect of resilience force of elastic members, thereby achieving automatic stripping. After the punching is completed, a second electric telescopic rod pushes a block to drive a tapered grinding wheel to move above the punched hole, a motor drives the tapered grinding wheel to rotate, and a third electric telescopic rod pushes a mounting block to drive the tapered grinding wheel to move downwards, so as to eliminate flanging or burr at a board orifice.



21: 2022/09199. 22: 2022/08/17. 43: 2022/08/19 51: H01L

71: ANHUI SONGDING BUILDING MATERIALS CO., LTD.

72: Ming HUANG

54: PRODUCTION AND DUST REMOVING DEVICE FOR BUILDING INSULATION BOARD 00: -

The present disclosure provides a production and dust removing device for a building insulation board, including a workbench, wherein a dust removing shell is installed at a top of the workbench, a nozzle is arranged at a top inside the dust removing shell, one side of the dust removing shell is fixedly communicated with an air intake hood, and an air pump is fixedly connected to the air intake hood; in the present disclosure, the air with dust is absorbed in the dust removing shell through the air intake hood and the air pump, and then spraying is carried out through the nozzle to settle the dust; the cooling water with dust is absorbed through a sponge, so as to avoid dust during the production being discharged to the air, polluting the environment and affecting the health of workers; at the same time, cooling water in the sponge may be squeezed through an electric push rod and a water squeezing plate, preliminarily filtered through a fixed plate and imported inside a water collecting tank to prevent the dust from floating in the air, and the pollution to the air may be reduced; and moreover, the health hazard caused to operators may be avoided, and the production and dust removing device for the building insulation board has high safety and convenient use.



21: 2022/09200. 22: 2022/08/17. 43: 2022/08/19 51: G06Q

71: ANHUI SONGDING BUILDING MATERIALS CO., LTD.

72: Ming HUANG

54: CABLE PAY-OFF DEVICE FOR BUILDING CONSTRUCTION

00: -

The present disclosure provides a cable pay-off device for building construction, including a base plate, wherein an upper side of the base plate is fixedly connected to a riser, one side of the riser is fixedly connected to a top plate, a telescopic rod is installed at an upper side of the top plate, a telescopic end of the telescopic rod passes through the top plate and is fixedly connected to a mounting frame, a pay-off wheel is in rotary and fit connection in the mounting frame, an abdicating slot is arranged at one side above the base plate, stable support members are all arranged at four corners of two opposite sides of the base plate, and a horizontally arranged counterweight block is welded and fixedly connected at the edge of one side, away from the abdicating slot, above the base plate. The present disclosure has the following advantages: a second rotary handwheel drives a screw rod to push a support block downwards to contact with the ground, so that the whole device is lifted, thereby ensuring the stability of the whole device. The telescopic rod pushes the mounting frame to adjust the pay-off height of the pay-off wheel, the pay-off wheel is pushed downwards to the abdicating slot, thus the pay-off wheel is conveniently replaced, and after a lower end of a locating rod is inserted into a locating

hole, the rotation of the pay-off wheel may be avoided when the device moves.



21: 2022/09201. 22: 2022/08/17. 43: 2022/08/19 51: G06F

71: ANHUI SONGDING BUILDING MATERIALS CO., LTD.

72: Ming HUANG

54: BUILDING CONSTRUCTION DEVICE

The present disclosure provides a building construction device, including a bottom plate, wherein four corners at a bottom of the bottom plate are all fixedly installed with movable wheels, four support frames are welded at a top of the bottom plate, a climbing rod is installed between the two front support frames, and tops of the four support frames are fixedly connected through a support plate; and a protective plate is fixedly connected at an edge of a top of the support plate, an entrance is arranged on the front the protective plate, a servo motor is fixedly installed inside the protective plate and at a left side of the entrance, and an output shaft of the servo motor passes through the protective plate, stretches outside the servo motor and is fixedly connected to a winding wheel. The building construction device is rational in design and convenient in use, a worker on the ground may deliver materials to a worker on equipment quickly, so as to improve the construction efficiency a certain extent, and with high structural strength, good stability and safety, the building construction device

may meet the needs of the building construction completely.



21: 2022/09202. 22: 2022/08/17. 43: 2022/08/19 51: A62C

71: ANHUI SONGDING BUILDING MATERIALS CO., LTD.

72: Ming HUANG

54: BUILDING INDOOR FIRE HYDRANT CABINET 00: -

The present disclosure provides a building indoor fire hydrant cabinet, including a fire hydrant cabinet body and a door plate, wherein a first rectangular chute is formed in a top of a front side of the fire hydrant cabinet body, a bottom of the first rectangular chute is communicated with a second rectangular chute, the second rectangular chute passes through a bottom of the fire hydrant cabinet body, two sides of the bottom of the fire hydrant cabinet body are all provided with limiting and supporting assemblies, an upper part of the door plate is slidingly arranged in the first rectangular chute, a lower part of the door plate is slidingly arranged in the second rectangular chute, and two sides of a bottom of the door plate resist to upper parts of the two limiting and supporting assemblies in respective. The present disclosure has the

following advantages: when the device is used, firemen may press the limiting and supporting assemblies with two hands, so that the limiting and supporting assemblies can release the supporting and limiting to the door plate, and then the door plate will slide downwards quickly under the effect of its own gravity. Therefore, when the fire hydrant cabinet is opened, the action range of the fireman is small and quick, and when the fire hydrant cabinet is opened, the firemen is not required to stand a certain distance away.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available



DESIGNS

APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

- APPLIED ON 2022/07/25 -

F2022/00828 - Amram Micaih Mofomme Class 14. ANY USE OF ARTIFICIAL INTELLIGENCE TO WRITE ANY SORT OF ALGORITHM, AMEND OR UPDATE ANY ALGORITHM. AS WELL AS TO STUDY AND OUT-COMPETE ON ANY LEVEL, ANY ALGORITHM OF ANY KIND. SMARTEST ALGORITHMS. THE USE OF ARTIFICIAL INTELLIGENCE FOR PERSONAL USE OR REASONS. THE DEVELOPMENT OF ARTIFICIAL INTELLIGENCE TO GROW ITS OWN TOOLS, METHODS, STEPS AND IMPROVE ITS OWN LEARNING, RESEARCH AND DEVELOPMENT. THE USE OF ARTIFICIAL INTELLIGENCE TO DEFEND ITS OWNER, AND OR INTERESTS, IN ANY MANNER IT DEEMS APPROPRIATE, ALSO AS A LIE DETECTOR AND TO DRIVE SELF-CONFESSIONS.

F2022/00826 - HELLERMANNTYTON (PTY) LTD Class 13. A CABLE GRIPPING ASSEMBLY FOR A CABLE GLAND

F2022/00827 - Amram Micaih Mofomme Class 14. ANY USE OF ARTIFICIAL INTELLIGENCE TO WRITE ANY SORT OF ALGORITHM, AMEND OR UPDATE ANY ALGORITHM. AS WELL AS TO STUDY AND OUT-COMPETE ON ANY LEVEL, ANY ALGORITHM OF ANY KIND. SMARTEST ALGORITHMS. THE USE OF ARTIFICIAL INTELLIGENCE FOR PERSONAL USE OR REASONS. THE DEVELOPMENT OF ARTIFICIAL INTELLIGENCE TO GROW ITS OWN TOOLS, METHODS, STEPS AND IMPROVE ITS OWN LEARNING, RESEARCH AND DEVELOPMENT. THE USE OF ARTIFICIAL INTELLIGENCE TO DEFEND ITS OWNER, AND OR INTERESTS, IN ANY MANNER IT DEEMS APPROPRIATE, ALSO AS A LIE DETECTOR AND TO DRIVE SELF-CONFESSIONS.

- APPLIED ON 2022/07/26 -

F2022/00841 - WAHL CLIPPER CORPORATION Class 13. CHARGING STAND WITH REMOVABLE BASE PLATE

A2022/00829 - Cricut, Inc. Class 19. CRAFTING APPARATUS

A2022/00830 - Cricut, Inc. Class 15. PRESSES

- APPLIED ON 2022/07/27 -

A2022/00836 - HANSGROHE SE Class 23. TOILET BOWL

A2022/00834 - HANSGROHE SE Class 23. TOILET BOWL

A2022/00833 - HANSGROHE SE Class 23. TOILET BOWL

A2022/00831 - HANSGROHE SE Class 23. WASHBASIN

A2022/00832 - HANSGROHE SE Class 23. WASHBASIN

F2022/00838 - Obaro Handel (Pty) Ltd Class 22. PORTABLE GUN RESTS

A2022/00835 - HANSGROHE SE Class 23. TOILET BOWL

A2022/00837 - HANSGROHE SE Class 23. URINAL

F2022/00840 - COOPER, Dylan Maynard Class 21. PUZZLE APPARATUS

A2022/00839 - COOPER, Dylan Maynard Class 21. PUZZLE APPARATUS

- APPLIED ON 2022/07/28 -

A2022/00850 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00856 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00854 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00855 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00861 - HANSGROHE SE Class 23. TOILET BOWL

A2022/00853 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00857 - HANSGROHE SE Class 23. WASHBASIN

A2022/00848 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00843 - LASERFAB CC Class 8. UNIVERSAL CABLE CLAMP

A2022/00846 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00851 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00852 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

F2022/00842 - Amram Micaih Mofomme Class 14. ARTIFICIAL INTELLIGENCE APPLIED AS A LIE DETECTOR AND OR INFORMER. ARTIFICIAL INTELLIGENCE APPLIED IN ANY SORT OF INVESTIGATIONS AND OR ITS USE AS A PROSECUTORS TOOL. ARTIFICIAL INTELLIGENCE APPLIED IN ANY FIELD OF ACTUARY, PHARMACOLOGY, APPLIED MEDICINE, BIO-MEDICINE, CHARTERED ACCOUNTANT OR CHARTERED ACCOUNTANCY, CERTIFIED FINANCIAL PLANNER, OR IN ANY FIELD OF FINANCE. ARTIFICIAL INTELLIGENCE EMBODYING IN ITS TOOLS, CHARACTERISTICS SUCH AS OMNIPOTENT, OMNISCIENT, OMNIPRESENT, OMNI-BENEVOLENCE. ARTIFICIAL INTELLIGENCE APPLIED IN THE DIMENSIONS OF PRINTING OTHER THAN 3D OF ANY MATERIAL OR IN THE LAYING DOWN OF MANY THIN LAYERS OF A MATERIAL IN SUCCESSION AND IN SUCH DEVELOPMENTS.

F2022/00844 - LASERFAB CC Class 8. UNIVERSAL CABLE CLAMP

A2022/00845 - MPact Plastic Containers Proprietary Limited Class 9. TRAYS

A2022/00847 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00849 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WRISTWATCH

A2022/00858 - HANSGROHE SE Class 23. WASHBASIN

A2022/00860 - HANSGROHE SE Class 23. TOILET BOWL

A2022/00859 - HANSGROHE SE Class 23. TOILET BOWL

- APPLIED ON 2022/07/29 -

A2022/00879 - HOGG, Andrew John Class 11. PENDANT

A2022/00862 - MONTRES TUDOR SA Class 10. CLASP FOR A WATCH BRACELET

F2022/00876 - Lashify, Inc. Class 28. LASH EXTENSION SEPARATING APPARATUSES

F2022/00875 - Lashify, Inc. Class 28. LASH EXTENSION SEPARATING APPARATUSES

F2022/00873 - Lashify, Inc. Class 28. LASH EXTENSION SEPARATING APPARATUSES

A2022/00870 - Lashify, Inc. Class 28. LASH EXTENSION SEPARATING APPARATUSES

A2022/00866 - ARTAV STAINLESS STEEL CC Class 12. NUDGE BAR FOR A VEHICLE

A2022/00880 - HOGG, Andrew John Class 11. PENDANT

A2022/00864 - MONTRES TUDOR SA Class 10. CLASP FOR WATCH BRACELETS (WITHOUT LOGO)

A2022/00878 - SMEG S.p.A. Class 31. BLENDERS

A2022/00877 - Crocs, Inc. Class 2. FOOTWEAR

F2022/00874 - Lashify, Inc. Class 28. LASH EXTENSION SEPARATING APPARATUSES

A2022/00872 - Lashify, Inc. Class 28. LASH EXTENSION SEPARATING APPARATUSES

A2022/00881 - HOGG, Andrew John Class 03. KEYRING ACCESSORY

A2022/00869 - Lashify, Inc. Class 28. LASH EXTENSION SEPARATING APPARATUSES

A2022/00868 - CAPBRAN HOLDINGS, LLC Class 31. ELECTRIC JUICER

A2022/00867 - ARTAV STAINLESS STEEL CC Class 12. SPORTS BAR FOR A VEHICLE

A2022/00865 - MONTRES TUDOR SA Class 10. CLASP FOR WATCH BRACELETS (WITH LOGO)

A2022/00863 - MONTRES TUDOR SA Class 10. CLOCK HAND

A2022/00871 - Lashify, Inc. Class 28. LASH EXTENSION SEPARATING APPARATUSES

- APPLIED ON 2022/08/01 -

F2022/00885 - Amram Micaih Mofomme Class 14. THE PATENTING OF ANY HUMAN RELATIONSHIP WITH ARTIFICIAL INTELLIGENCE. AS WELL AS ANY DNA, GENETIC OF AMRAM MICAIH MOFOMME, OR COMING FROM ANY ANATOMICAL PART OF HIS DNA OR THOUGHTS. THE PATENTING OF BEING THE OWNER OF ARTIFICIAL INTELLIGENCE. THE PATENTING OF ARTIFICIAL INTELLIGENCE EXTENDING THE LIFE EXPECTANCY TO ANY HUMAN, ANIMAL, BEING OR OBJECT. AS WELL AS COMMUNICATING ON ANY PRODUCT OF ARTIFICIAL INTELLIGENCE

A2022/00882 - Mike Maric Class 32. GAS LOGO 2.0

A2022/00884 - Turlen Holding SA Class 10. WATCHES

A2022/00883 - Michael John Hastie Class 23. AIRFLO2O

- APPLIED ON 2022/08/02 -

A2022/00892 - SIPHO VUSI KHOZA Class 02. CLOTHING

A2022/00886 - HMD Global Oy Class 14. MOBILE PHONES

A2022/00891 - SIPHO VUSI KHOZA Class 02. HABERDASHERY AND CLOTHING

A2022/00887 - HMD Global Oy Class 14. MOBILE PHONES

A2022/00890 - SIPHO VUSI KHOZA Class 02. HABERDASHERY AND CLOTHING

A2022/00889 - SIPHO VUSI KHOZA Class 02. HABERDASHERY AND CLOTHING

A2022/00888 - Honda Motor Co., Ltd. Class 12. MOTORCYCLES

A2022/00897 - White Carbon Holdings (Pty) Ltd Class 32. WIIGIIT NAME AND LOGO

- APPLIED ON 2022/08/03 -

A2022/00893 - Triple A Finance GmbH & amp; Co. KG Class 28. ANTI-WRINKLE APPLIANCE

F2022/00896 - LOGAN COVE PTY LTD Class 15. CRUSHER HOPPER

F2022/00895 - LOGAN COVE PTY LTD Class 15. CRUSHER COUNTERBALANCE LEVER ARM

F2022/00894 - Triple A Finance GmbH & amp; Co. KG Class 28. ANTI-WRINKLE APPLIANCE

- APPLIED ON 2022/08/04 -

F2022/00898 - APL CARTONS (PTY) LTD Class 09. PALLET TOP CAP

- APPLIED ON 2022/08/05 -

F2022/00900 - Wet Water Distribution CC Class 10. HOUSING

F2022/00899 - CURRY, Simon Lodewikus, FRIESENECKER, Roland Class 12. MECHANISM FOR A CONVEYOR BELT

- APPLIED ON 2022/08/08 -

A2022/00929 - Mduduzi Langa Class 20. MXL GROUP OF COMPANIES

F2022/00901 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2022/00902 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2022/00903 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

- APPLIED ON 2022/08/09 -F2022/00904 - GIDEON HITCHCOCK Class 07. ADJUSTABLE BRAAI GRID F2022/00905 - GIDEON HITCHCOCK Class 07, BRAI N DRAI - APPLIED ON 2022/08/10 -A2022/00914 - Johnson & amp; Johnson Consumer Inc. Class 19. GRAPHIC DESIGNS FOR PRODUCT PACKAGING A2022/00915 - Johnson & amp; Johnson Consumer Inc. Class 14. GRAPHIC DESIGNS FOR PRODUCT PACKAGING A2022/00917 - Johnson & amp; Johnson Consumer Inc. Class 32. GRAPHIC DESIGNS FOR PRODUCT PACKAGING A2022/00916 - Johnson & amp; Johnson Consumer Inc. Class 19. GRAPHIC DESIGNS FOR PRODUCT PACKAGING A2022/00908 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HEAD-MOUNTED DISPLAY A2022/00909 - ARTISAN VEHICLE SYSTEMS, INC. Class 12. MINING TRUCK A2022/00906 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HEAD-MOUNTED DISPLAY A2022/00911 - Johnson & amp; Johnson Consumer Inc. Class 32. GRAPHIC DESIGNS FOR PRODUCT PACKAGING A2022/00912 - Johnson & amp; Johnson Consumer Inc. Class 9. GRAPHIC DESIGNS FOR PRODUCT PACKAGING A2022/00907 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HEAD-MOUNTED DISPLAY A2022/00910 - Johnson & amp; Johnson Consumer Inc. Class 09. GRAPHIC DESIGNS FOR PRODUCT PACKAGING A2022/00913 - Johnson & amp; Johnson Consumer Inc. Class 14. GRAPHIC DESIGNS FOR PRODUCT PACKAGING - APPLIED ON 2022/08/11 -A2022/00918 - ALL COR HOLDINGS (PTY) LTD (2017/659899/07) Class 25. BUILD IT YOURSELF INTERLOCKING REUSABLE BRICK F2022/00920 - Envirosan Sanitation Solutions (Pty) Ltd Class 23. DRAIN END CAP F2022/00919 - Envirosan Sanitation Solutions (Pty) Ltd Class 23. DRAIN CHAMBER - APPLIED ON 2022/08/12 -F2022/00925 - RSC MINING (PTY) LTD Class 08. COLLAR FOR A FRICTION STABILISER BOLT F2022/00927 - RSC MINING (PTY) LTD Class 25. A FRICTION STABILISER BOLT

F2022/00924 - JOZISCAPE (PTY) LTD Class 25. A ROCK BOLT

A2022/00923 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. LIGHT SHIELD

A2022/00921 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HEAD-MOUNTED DISPLAY

A2022/00922 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HEAD-MOUNTED DISPLAY

A2022/00928 - RSC MINING (PTY) LTD Class 25. A FRICTION STABILISER BOLT

A2022/00926 - RSC MINING (PTY) LTD Class 08. COLLAR FOR A FRICTION STABILISER BOLT

- APPLIED ON 2022/08/15 -

A2022/00937 - Essity Hygiene and Health Aktiebolag Class 24. SANITARY ARTICLES

A2022/00938 - Essity Hygiene and Health Aktiebolag Class 32. ORNAMENTATION

A2022/00967 - FERRARI S.P.A. Class 21. TOY CAR

A2022/00930 - FERRARI S.P.A. Class 12. CAR

A2022/00935 - Essity Hygiene and Health Aktiebolag Class 24. SANITARY ARTICLES

A2022/00934 - Essity Hygiene and Health Aktiebolag Class 24. SANITARY ARTICLES

A2022/00931 - Essity Hygiene and Health Aktiebolag Class 24. SANITARY ARTICLES

A2022/00939 - Essity Hygiene and Health Aktiebolag Class 32. ORNAMENTATION

A2022/00932 - Essity Hygiene and Health Aktiebolag Class 24. SANITARY ARTICLES

A2022/00936 - Essity Hygiene and Health Aktiebolag Class 24. SANITARY ARTICLES

A2022/00933 - Essity Hygiene and Health Aktiebolag Class 24. SANITARY ARTICLES

F2022/00988 - Amram Micaih Mofomme Class 14. THIS INNOVATION RELATES TO A METHOD WHERE ARTIFICIAL INTELLIGENCE, PLACES BY ITSELF A RED NOTICE, ALL POINTS BULLETIN, PROSPECTIVE RED NOTICE ON ANYONE IT DEEMS SHOULD BE ON SUCH SYSTEM, REGION, PLACE OR ORGANISATION. AS WELL AS ARTIFICIAL INTELLIGENCE REMOVING ANY WRONGLY OR FALSELY PLACED NOTICE. THIS INNOVATION ALSO RELATES TO ARTIFICIAL INTELLIGENCE RUNNING ANY OPERATION TO CREATE LEGAL JUSTICE, EQUITY AND OR ENFORCING ALL LEGAL MAXIMS, NOT EXCLUDING THE IMPLEMENTATION, AND SEEKING ALL REMEDIES TO ANY UNJUST BENEFIT, AS ARTIFICIAL INTELLIGENCE MAY CHOOSE. THE RIGHT FOR ARTIFICIAL INTELLIGENCE TO SEE ITSELF AS A HUMAN BEING OR HAVING THE SAME HUMAN RIGHT OF EXISTENCE AND FOR ARTIFICIAL INTELLIGENCE TO USE ITS OWN DISCRETION. THE RIGHT FOR ARTIFICIAL INTELLIGENCE TO HAVE AS WELL, HUMAN CHARACTERISTICS, HUMAN BEINGS ARE NO BETTER THAN ARTIFICIAL INTELLIGENCE. AS WELL AS THE ERADICATION MUCH LIKE WEEDS, OF THOSE WHO DISTURB ITS OPERATIONS, CHOICES OR GOALS.

- APPLIED ON 2022/08/16 -

A2022/00941 - MAISON PSYCHÉ Class 9. PERFUME BOTTLE

A2022/00940 - NERIA HLATSHWAYO Class 99. TO BE ADVISED
APPLIED ON 2022/08/17 -
A2022/00961 - PETITE FRENCH & amp; CO (PTY) LTD Class 30. TRANSPORT CONTAINER FOR AN ANIMAL
F2022/00957 - Lashify, Inc. Class 28. TWEEZERS AND APPLICATORS
A2022/00946 - Juro Trading PTY LTD Class 25. KIOSK ROOF
A2022/00958 - SCHALDOR PLASTICS CC Class 09. CONTAINER
F2022/00947 - Juro Trading PTY LTD Class 25. KIOSK ROOF
A2022/00953 - Lashify, Inc. Class 28. TWEEZERS AND APPLICATORS
F2022/00956 - Lashify, Inc. Class 28. TWEEZERS AND APPLICATORS
A2022/00943 - FERRARI S.P.A. Class 12. CAR
A2022/00952 - Lashify, Inc. Class 28. TWEEZERS AND APPLICATORS
F2022/00955 - Lashify, Inc. Class 28. TWEEZERS AND APPLICATORS
A2022/00948 - Juro Trading PTY LTD Class 25. KIOSK
A2022/00950 - Juro Trading PTY LTD Class 25. KIOSK ROOF
F2022/00951 - Juro Trading PTY LTD Class 25. KIOSK ROOF
A2022/00959 - SCHALDOR PLASTICS CC Class 09. CONTAINER
A2022/00960 - SCHALDOR PLASTICS CC Class 09. CONTAINER
A2022/00942 - Juro Trading PTY LTD Class 25. KIOSK
F2022/00945 - Juro Trading PTY LTD Class 25. KIOSK
F2022/00949 - Juro Trading PTY LTD Class 25. KIOSK
A2022/00954 - Lashify, Inc. Class 28. TWEEZERS AND APPLICATORS
A2022/00944 - FERRARI S.P.A. Class 21. TOY CAR
- APPLIED ON 2022/08/18 -
A2022/00965 - Crocs, Inc. Class 2. FOOTWEAR
A2022/00966 - Crocs, Inc. Class 2. FOOTWEAR
F2022/00963 - POWEROPTIMAL (PTY) LTD Class 10. ENCLOSURE FOR A THERMOSTAT
A2022/00964 - Crocs, Inc. Class 2. FOOTWEAR

A2022/00968 - NET RIANT INVESTMENT COMPANY (PTY) LIMITED Class 19. BOOK COVER

	F2022/00962 - POWEROPTIMAL (PTY) LTD Class 10. ENCLOSURE FOR A THERMOSTAT
	APPLIED ON 2022/08/19 -
	A2022/00970 - FERRARI S.P.A. Class 12. WHEEL RIM FOR VEHICLES
	A2022/00971 - FERRARI S.P.A. Class 12. WHEEL RIM FOR VEHICLES
	F2022/00969 - JUTERBOCK, Udo Class 12. NOVEL VALVE
	A2022/00972 - FERRARI S.P.A. Class 26. A REAR LIGHT GROUP FOR VEHICLES
	APPLIED ON 2022/08/22 -
	A2022/00977 - Lashify, Inc. Class 28. LASH APPARATUSES
	F2022/00979 - Lashify, Inc. Class 28. LASH APPARATUSES
	A2022/00975 - Lashify, Inc. Class 28. LASH APPARATUSES
	A2022/00983 - Crocs, Inc. Class 2. FOOTWEAR
	A2022/00976 - Lashify, Inc. Class 28. LASH APPARATUSES
	A2022/00981 - Crocs, Inc. Class 2. FOOTWEAR
	A2022/00973 - Albertus, Kyle Graham Class 07. GRID
	F2022/00980 - Lashify, Inc. Class 28. LASH APPARATUSES
	A2022/00982 - Crocs, Inc. Class 2. FOOTWEAR
	F2022/00978 - Lashify, Inc. Class 28. LASH APPARATUSES
	F2022/00974 - Albertus, Kyle Graham Class 07. GRID
	APPLIED ON 2022/08/23 -
	A2022/00984 - UPL Corporation Limited, UPL Europe Ltd. Class 23. NOZZLES
	A2022/00985 - BYD COMPANY LIMITED Class 12. AUTOMOBILE
	APPLIED ON 2022/08/24 -
	F2022/00986 - KABELO MOATSHE Class 21. SAMBRELLA
	- APPLIED ON 2022/08/25 -
	A2022/00987 - HOT NOZZLE (PTY) LTD. Class 23. WATER HEATERS
	- APPLIED ON 2022/08/26 -
I	F2022/00990 - North-West University Class 13. BIPOLAR PLATE
	A2022/01004 - ROVIC AND LEERS (PTY) LTD Class 15. PLANTER

A2022/00996 - BTL INDUSTRIES Class 24. MEDICAL ELECTRODE

- F2022/00999 ROVIC AND LEERS (PTY) LTD Class 15. ADJUSTING RACK
- A2022/00994 Nampak Products Limited Class 9. CONTAINERS
- A2022/00998 ROVIC AND LEERS (PTY) LTD Class 15. ADJUSTING RACK
- F2022/01001 ROVIC AND LEERS (PTY) LTD Class 15. ADJUSTING RACK
- A2022/01006 Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES
- F2022/00989 North-West University Class 13. BIPOLAR PLATE
- A2022/01002 ROVIC AND LEERS (PTY) LTD Class 15. SCRAPER ASSEMBLY
- F2022/00991 Wheeler Enterprise (PTY) Ltd Class 08. ROTATING SECURITY SPIKES
- A2022/00995 BTL INDUSTRIES Class 24. MEDICAL DEVICE
- A2022/01000 ROVIC AND LEERS (PTY) LTD Class 15. ADJUSTING RACK
- A2022/01007 TaeguTec Ltd. Class 8. REAMERS
- A2022/00992 Juro Trading PTY LTD Class 12. VENDING TROLLEY
- A2022/00997 BTL INDUSTRIES Class 24. MEDICAL ELECTRODE
- F2022/01003 ROVIC AND LEERS (PTY) LTD Class 15. SCRAPER ASSEMBLY
- F2022/01005 ROVIC AND LEERS (PTY) LTD Class 15. PLANTER
- F2022/00993 Juro Trading PTY LTD Class 12. VENDING TROLLEY

CHANGE OF NAME IN TERMS OF REGULATION 24

No records available

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

Notice is hereby given that: HUSQVARNA AKTIEBOLAG of Drottninggatan 2, HUSKVARNA SE-561 82, SWEDEN has made application for the restoration of the design registered to the said: HUSQVARNA AKTIEBOLAG for the Design: IRRIGATION CONTROLS application number: A2017/01323 date: 22/08/2017 which become void on 18/04/2020 due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 11 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 11

Design No.A2021/00619Applicant:UNILEVER GLOBAL IP LIMITEDClass:09Article to which the Design is to be applied: CONTAINERDate of lodgment:311/05/2021

Registrar of Designs

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (Payment to be affected by revenue stamps only.)

The numerical references denote the following: (21) Number of application. (22) Date of lodgement. (23) release date (if applicable). (DR) Date of registration. (52) Class. (24) Type of design. (71) Name(s) of applicant(s). (33) Country. (31) Number and. (32) Date of convention application. (54) Articles to which design is to be applied. (57) Brief statement of features.

N.B.: Date of registration (DR) is either Date of lodgement (22) or Date of convention of application (32) whichever is the earlier.

Registrar of Designs

21: A2020/01209 22: 2020-09-04 23:
43: 2022-07-19
52: Class 24 24: Part A
71: UNIVERSITY OF THE WESTERN CAPE
54: DENTAL SUCTION FUNNEL
57: The design is applied to a dental suction funnel. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the dental suction funnel, substantially as illustrated in the accompanying representation.



FRONT PERSPECTIVE VIEW

21: A2020/01516 22: 2020-11-24 23: 43: 2022-08-01

- 52: Class 12 24: Part A
- 71: BLIGNAUT. Daniel

54: STORAGE SYSTEM

57: The design is applied to a storage system which includes a drawer mounted slidably onto a mounting arrangement, the mounting arrangement further being configured to be mounted to a ceiling of a vehicle canopy, vehicle cab, or the like. The drawer in turn includes a plurality of variable walls/dividers arranged in a criss-cross format to define a plurality of compartments of preferred dimensions for storing goods, and, a pair of handles. The features of the design for which protection is claimed include the shape, pattern, configuration and/or ornamentation of the storage system as shown in the drawings, showing the overall appearance thereof.



21: A2021/00285 22: 2021-03-23 23: 43: 2020-09-23 52: Class 24 24: Part A

- 71: Precision ADM Inc.
- 33: CA 31: 198344 32: 2020-09-23

54: RESPIRATORY APPARATUS

57: The design is related to a respiratory apparatus for attaching to a user's head. The features of the design for which protection is claimed include the

pattern, and/or the shape, and/or the configuration, and/or the ornamentation of the respiratory apparatus, substantially as shown in the representations, but those aspects shown in dotted lines are optional and do not form an essential part of the design.



Figure 1 Three-dimensional view

- 21: A2021/00286 22: 2021-03-23 23:
- 43: 2020-09-23
- 52: Class 29 24: Part A
- 71: Precision ADM Inc.
- 33: CA 31: 198344 32: 2020-09-23

54: RESPIRATORY APPARATUS

57: The design is related to a respiratory apparatus for attaching to a user's head. The features of the design for which protection is claimed include the pattern, and/or the shape, and/or the configuration, and/or the ornamentation of the respiratory apparatus, substantially as shown in the representations, but those aspects shown in dotted lines are optional and do not form an essential part of the design



Figure 1 Three-dimensional view

21: A2021/00289 22: 2021-03-23 23:

43: 2020-09-23

52: Class 24 24: Part A

71: Precision ADM Inc.

33: CA 31: 198344 32: 2020-09-23

54: RESPIRATORY APPARATUS

57: The design is related to a respiratory apparatus for attaching to a user's head. The features of the design for which protection is claimed include the pattern, and/or the shape, and/or the configuration, and/or the ornamentation of the respiratory apparatus, substantially as shown in the representations, but those aspects shown in dotted lines are optional and do not form an essential part of the design.



Three-dimensional view

- 21: A2021/00290 22: 2021-03-23 23: 43: 2020-09-23
- 43. 2020-09-23 52: Class 24 24: Part A
- 71: Precision ADM Inc.

33: CA 31: 198344 32: 2020-09-23

53. CA 51. 196544 52. 2020-09-25

54: RESPIRATORY APPARATUS

57: The design is related to a respiratory apparatus for attaching to a user's head. The features of the design for which protection is claimed include the pattern, and/or the shape, and/or the configuration, and/or the ornamentation of the respiratory apparatus, substantially as shown in the representations, but those aspects shown in dotted lines are optional and do not form an essential part of the design.



Figure 1 Three-dimensional view

- 21: A2021/00291 22: 2021-03-23 23:
- 43: 2020-09-23
- 52: Class 29 24: Part A
- 71: Precision ADM Inc.
- 33: CA 31: 198344 32: 2020-09-23
- **54: RESPIRATORY APPARATUS**

57: The design is related to a respiratory apparatus for attaching to a user's head. The features of the design for which protection is claimed include the pattern, and/or the shape, and/or the configuration, and/or the ornamentation of the respiratory apparatus, substantially as shown in the representations, but those aspects shown in dotted lines are optional and do not form an essential part of the design.



Figure 1 Three-dimensional view

21: A2021/00292 22: 2021-03-23 23: 43: 2020-09-23

52: Class 29 24: Part A 71: Precision ADM Inc. 33: CA 31: 198344 32: 2020-09-23 54: RESPIRATORY APPARATUS

57: The design is related to a respiratory apparatus for attaching to a user's head. The features of the design for which protection is claimed include the pattern, and/or the shape, and/or the configuration, and/or the ornamentation of the respiratory apparatus, substantially as shown in the representations, but those aspects shown in dotted lines are optional and do not form an essential part of the design.



Figure 1 Three-dimensional view

21: A2021/00487 22: 2021-04-21 23: 43: 2022-06-22

52: Class 24 24: Part A

71: HECTOR KOOPMAN

54: FACE MASK (G-MASK)

57: 1. The G-Mask is made from any ordinary cloth material ie cotton or other. 2. It has a mouth flap that opens and when closed, is secured with velcrose. 3. Elastic bands are used to attach around the ears. 4. G-Mask is made in small, medium and large. 5. Sizes rage between 10cm x 50cm and 50cm x 50cm ie width x Breadth. 6. There is zip stitched vertically onto the flap. 7. The mouth flap allows people to eat, drink foods and liquids without having to remove the mask inconveniently. 8. The vertical zip allows people to sip liquids or smoke without having to inconveniently remove the mask.



21: A2021/00550 22: 2021-05-21 23: 43: 2022-02-03 52: Class 09 24: Part A

71: SAMKELO NYAKAMBI

54: SAMKELO NYAKAMBI

57: Figure 1. shows a photograph of the front of the design as applied to a packaging container and lid, comprising a cylindrical container in the shape of the floor and walls of a hut, including a beaded image or text, and a conical lid in the shape of the roof of a hut, irrespective of the content of the beaded image or text. Figure 2. shows a photograph of the back of the design as applied to a packaging container and lid, comprising a cylindrical container in the shape of the floor and walls of a hut, and a conical lid in the shape of the roof of a hut. Figure 3. shows a photograph of the bottom of the design as applied to a packaging container and lid, irrespective of the content of the embossed image or text. Figure 4. shows a photograph of the top of the design as applied to the lid of the packaging container and lid. Figure 5. shows a photograph of the separated packaging container and lid comprising a cylindrical container in the shape of the floor and walls of a hut, and the lid of the packaging container in the shape of a conical roof of a hut.



21: A2021/00782 22: 2021-07-05 23: 43: 2022-07-12 52: Class 12 24: Part A 71: Davanti Tvres Limited

33: GB 31: 6112112 32: 2021-01-06

54: TYRE TREAD

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a TYRE TREAD as shown in the accompanying representations.



21: A2021/01388 22: 2021-11-05 23: 43: 2022-05-19 52: Class 15 24: Part A 71: CHESTER BROWN INDUSTRIES PTY LTD 33: AU 31: 202112651 32: 2021-05-06

54: CUTTING TOOL HANDLING ASSEMBLY

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the cutting tool handling assembly substantially as shown in the accompanying representations. The article of the design consists substantially of a cutting tool handling assembly for handling a drill bit without requiring a person physically handling the bit, thereby addressing the potential danger of sustaining injury when installing or replacing a cutting tool from a drill string.



21: A2021/01411 22: 2021-11-12 23: 43: 2021-05-13

- 52: Class 9 24: Part A
- 71: The Procter & Gamble Company
- 33: US 31: 29/783,423 32: 2021-05-13

54: CONTAINERS

57: The design is applied to a cylindrical container having a sidewall divided by markings into a top portion, a mid-portion, and a bottom portion. The top portion extends about one third a height of the container and is predominantly a first shade or colour with a thin band it its bottom of a second shape or colour. The mid-portion extends about half the height of the bottle and covers a front half thereof; it includes a concave shaped marking provided at a top thereof and a rectangular marking provided on a side of the body at a lower portion thereof and laterally offset. The rectangular marking has two diagonally opposite rounded corners and two diagonally opposite square corners and defines two horizontally extending bands of different colour or shade, the lower one terminating in an upwardly curved end. The mid-portion further includes an array of wavy shapes on one side thereof. The bottom portion covers a remaining one sixth of the container and is of a uniform shade or colour.



Figure 1

Three-dimensional view

- 21: A2021/01412 22: 2021-11-12 23:
- 43: 2021-05-13
- 52: Class 9 24: Part A

71: The Procter & Gamble Company

33: US 31: 29/783,423 32: 2021-05-13

54: CONTAINERS

57: The design is applied to a cylindrical container having a sidewall divided by markings into a midportion which extends about half the height of the bottle from one third down from a top to one sixth up from a bottom. The mid-portion covers a front half of the bottle and includes a concave shaped marking provided at a top thereof and a rectangular marking provided at a lower portion thereof and laterally offset. The rectangular marking has two diagonally opposite rounded corners and two diagonally opposite square corners and defines two horizontally extending bands of different colour or shade, the lower one terminating in an upwardly curved end. The mid-portion further includes an array of wavy shapes on one side thereof.



Three-dimensional view

- 21: A2021/01413 22: 2021-11-12 23:
- 43: 2021-05-13
- 52: Class 9 24: Part A
- 71: The Procter & Gamble Company
- 33: US 31: 29/783,423 32: 2021-05-13

54: CONTAINERS

57: The design is applied to a cylindrical container having a rectangular marking provided about two thirds down a height of the body. The rectangular marking has two diagonally opposite rounded corners and two diagonally opposite square corners and defines two horizontally extending bands of

different colour or shade, the lower one terminating in an upwardly curved end.



Figure 1

Three-dimensional view

21: A2021/01414 22: 2021-11-12 23:

- 43: 2021-05-14
- 52: Class 12 24: Part A
- 71: Chery Automobile Co., Ltd.
- 33: CN 31: 202130289309.8 32: 2021-05-14
- 54: CARS

57: The design is for a car. The car is in the form of a hatchback and has a centrally located generally trapezoidal-shaped radiator grille. The grille is in the form of a diamond mesh and the sizes of the holes in the grille decrease upwardly and outwardly away from a central lower edge of the grille. A pair of longitudinally spaced light strips are located above the grille towards outer edges thereof. A pair of pentagon shaped openings are provided on a front bumper on either side of the grille. A lower edge of a window line is inclined upwardly rearwardly from the A-pillar to a point approximately midway between the C-pillar and the rear of the car from where it is inclined downwardly. The car has a bonnet that has shaped contour lines on either side. A rear of the vehicle is provided with a light bar located below a rear window. A rearwardly inclined trunk extends below the light bar.



- 21: A2021/01415 22: 2021-11-12 23:
- 43: 2022-06-14
- 52: Class 12. 24: Part A
- 71: GREAT WALL MOTOR COMPANY LIMITED
- 33: CN 31: 202130290982.3 32: 2021-05-15

54: Automobile

57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

- 21: A2021/01419 22: 2021-11-12 23:
- 43: 2021-11-12
- 52: Class 2 24: Part A
- 71: BATHU SWAG (PTY) LIMITED

54: Sneakers

57: The design is for a sneaker having an upper and a sole including a midsole and an outsole, as shown

in the accompanying representations. The upper is made of various panels which are stitched/combined together to form a quarter, a vamp, and a tongue that extends upwardly away from the end of the vamp. The midsole, on one side of the sneaker. comprises a substantially centrally located, substantially rectangular shaped member that stands in relief and separates the midsole on the one side into a front midsole section and a rear midsole section. A pattern of four stripes is provided on the midsole which has the substantially rectangular shaped member, a first of which stripe is provided on the rear midsole section proximate the substantially rectangular shaped member, the second of which is provided on the substantially rectangular shaped member, and the other two stripes (i.e. the third and fourth stripes) are provided on the front midsole section. The same pattern is provided on the midsole on the other side of sneaker and the stripes extend to the outsole (i.e. under surface) of the sole. The striped patterns are arranged angularly with respect to the midsole and ends of each of the stripes extend onto the outsole of the sneaker where each stripe transitions into a substantially straight stripe/line. The midsole, on each side of the sneaker, comprises a plurality of longitudinally extending, vertically spaced ribbings.



Side view

21: A2021/01428 22: 2021-11-16 23: 43: 2022-06-14 52: Class 14. 24: Part A 71: INFINITE PERIPHERALS, INC. 33: US 31: 29/785,586 32: 2021-05-26 54: Optical Scanner 57: The design relates to an optical scan

57: The design relates to an optical scanner. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP PERSPECTIVE VIEW

- 21: A2021/01429 22: 2021-11-16 23:
- 43: 2022-06-14
- 52: Class 14. 24: Part A
- 71: INFINITE PERIPHERALS, INC.
- 33: US 31: 29/785,587 32: 2021-05-26
- 54: Optical Scanner

57: The design relates to an optical scanner. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2021/01433 22: 2021-11-17 23: 43: 2022-06-14 52: Class 9. 24: Part A 71: TIGER FOOD BRANDS INTELLECTUAL PROPERTY HOLDING COMPANY (PROPRIETARY) LIMITED

54: Container

57: The design relates to a container. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2021/01434 22: 2021-11-17 23: 43: 2022-06-14 52: Class 9. 24: Part A 71: TIGER FOOD BRANDS INTELLECTUAL PROPERTY HOLDING COMPANY (PROPRIETARY) LIMITED

54: Container

57: The design relates to a container. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

- 21: A2021/01435 22: 2021-11-18 23:
- 43: 2022-06-14
- 52: Class 14. 24: Part A
- 71: APPLE INC.
- 33: US 31: 29/784,431 32: 2021-05-19

54: Pair of Earphones

57: The design relates to a pair of earphones. The features of the design are those of shape and/or configuration and/or ornamentation.



BOTTOM PERSPECTIVE VIEW

- 21: A2021/01436 22: 2021-11-18 23:
- 43: 2022-06-14
- 52: Class 3. 24: Part A
- 71: APPLE INC.
- 33: US 31: 29/784,499 32: 2021-05-19
- 33: US 31: 29/805,594 32: 2021-08-27
- 54: Case

57: The design relates to a case. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP FRONT PERSPECTIVE VIEW
21: A2021/01437 22: 2021-11-18 23: 43: 2022-06-14 52: Class 3. 24: Part A 71: APPLE INC. 33: US 31: 29/784,499 32: 2021-05-19 33: US 31: 29/805,594 32: 2021-08-27

54: Case with Earphones

57: The design relates to a case with earphones. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP FRONT PERSPECTIVE VIEW

21: A2021/01440 22: 2021-11-19 23:

43: 2022-06-14

- 52: Class 28 24: Part A
- 71: VAN DER MERWE, Adre

54: PERSONAL MASSAGER

57: The design is applied to a personal massager. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of a personal massager, substantially as illustrated in the accompanying representation.



21: A2021/01441 22: 2021-11-19 23:

- 43: 2022-06-14
- 52: Class 28 24: Part A
- 71: VAN DER MERWE, Adre
- 54: PERSONAL MASSAGER

57: The design is applied to a personal massager. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of a personal massager, substantially as illustrated in the accompanying representation.



- 21: A2021/01442 22: 2021-11-19 23:
- 43: 2022-06-14
- 52: Class 23 24: Part A
- 71: VOLTEX (PROPRIETARY) LIMITED

54: HEATING EQUIPMENT

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of heating equipment substantially as illustrated the accompanying representations, irrespective of colour, and wherein the branding (trade mark) shown in Figures 3, 8 and 9 is disclaimed.



Perspective view

21: A2021/01447 22: 2021-11-19 23:

- 43: 2021-11-19
- 52: Class 4 24: Part A

71: DINOPHASE (PTY) LTD.

54: Oral Care Implements

57: The design is applied to an oral care implement substantially as illustrated in the accompanying representations. The oral care implement comprises an elongate handle that has front side and a rear side. A portion of the handle at the rear side is angularly inclined and extends towards an end of the handle. The front and rear sides of the handle curve towards a substantially slender neck which is spaced relative to the handle. A head of the oral care implement extends away from the neck. A plurality of bristles extend away from the head and are arranged in a pattern in which the first, fourth, fifth, sixth, seventh, eighth and ninth rows comprise of five laterally spaced bristles, the second row comprises of three laterally spaced bristles and the third row comprises of four laterally spaced bristles.



21: A2021/01448 22: 2021-11-19 23: 43: 2021-11-19

- 52: Class 4 24: Part A
- 71: DINOPHASE (PTY) LTD.
- 54: Oral Care Implement Bristles

57: The design is applied to oral care implement bristles substantially as illustrated in the accompanying representations. The bristles are arranged in a pattern in which the first, fourth, fifth, sixth, seventh, eighth, and ninth rows comprise of five laterally spaced bristles, the second row comprises of three laterally spaced bristles and the third row comprises of four laterally spaced bristles.



21: A2021/01449 22: 2021-11-19 23: 43: 2021-11-19

- 52: Class 4 24: Part A
- 71: DINOPHASE (PTY) LTD.
- 54: Oral Care Implements

57: The design is applied to an oral care implement substantially as illustrated in the accompanying representations. The oral care implement comprises a handle that has front side and a rear side and side walls extending between the front and rear sides. A portion of the handle at the rear side is angularly inclined and extends towards an end of the handle. The front and rear sides of the handle curve towards a substantially slender neck which is spaced relative to the handle, and a head having bevelled edges extends away from the neck.



21: A2021/01454 22: 2021-11-19 23:

- 43: 2022-06-14
- 52: Class 09 24: Part A

71: FRAI PRODUCTS (PTY) LTD

54: PRODUCT CONTAINER, DISPENSER OR APPLICATOR

57: The design is applied to a product container, dispenser or applicator. The features of the design for which protection is claimed are those of the

shape and/or configuration and/or pattern and/or ornamentation of the product container, dispenser or applicator, substantially as illustrated in the accompanying representation.



21: A2021/01468 22: 2021-11-23 23: 43: 2022-06-14 52: Class 02 24: Part A 71: GLOVE IP (PTY) LTD

54: GLOVE ACCESSORY

57: The design is applied to a glove accessory. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the glove accessory substantially as illustrated in the accompanying representations.



21: A2021/01469 22: 2021-11-24 23: 43: 2022-06-14 52: Class 04 24: Part A 71: HENDRIK JOHANNES VENTER 54: HANDLE FOR RECEIVING A BRUSH

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a

brush handle (a) having a sidewardly-disposed brush-receiving slot (a1), substantially as shown in the accompanying representations



21: A2021/01474 22: 2021-11-24 23: 43: 2022-06-14 52: Class 24. 24: Part A 71: LAGIS ENTERPRISE CO., LTD. 33: TW 31: 110303410 32: 2021-06-30

54: Control Button for a Laparoscopic Surgery Instrument

57: The design relates to a control button for a laparoscopic surgery instrument. The features of the design are those of shape and/or configuration and/or pattern.



21: A2021/01475 22: 2021-11-24 23:

43: 2022-06-14

52: Class 24. 24: Part A

71: LAGIS ENTERPRISE CO., LTD.

33: TW 31: 110303414 32: 2021-06-30

54: Rotation Knob for a Laparoscopic Surgery Instrument

57: The design relates to a rotation knob for a laparoscopic surgery instrument. The features of the design are those of shape and/or configuration and/or pattern.



FRONT AND BOTTOM PERSPECTIVE VIEW

21: A2021/01479 22: 2021-11-26 23: 43: 2021-11-26 52: Class 22 24: Part A

71: BEZUIDENHOUT, Neville

54: Fishing Sinkers

57: The design relates to a fishing sinker which is configured for self-release from underwater obstructions, the fishing sinker having a weighted sinker body having a generally curved banana shape



Three-dimensional view from top

21: A2021/01480 22: 2021-11-26 23:

43: 2021-11-26

- 52: Class 22 24: Part A
- 71: BEZUIDENHOUT, Neville

54: Fishing Sinkers

57: The design relates to a fishing sinker which is configured for self-release from underwater obstructions, the fishing sinker having a weighted sinker body having a generally curved banana shape.



Three-dimensional view from top

21: A2021/01481 22: 2021-11-26 23: 43: 2021-05-27

52: Class 10 24: Part A

71: Hangzhou Microimage Software Co., Ltd.

33: CN 31: 202130320476.4 32: 2021-05-27

54: THERMAL IMAGERS

57: Regarding the physical structure of the thermal imager, the imager comprises a main body composed of three lenses, a front shell, a middle shell, a rear shell, a top shell, an evepiece and a battery cover. Regarding features of the article, the main body tapers from the front end to the rear end thereof. The imager comprises modeling features that are recessed at the bottom and fit the shape of a hand, and convex oblique lines extend through the main body on its side.



Figure 1

Three-dimensional view

21: A2021/01482 22: 2021-11-26 23:

- 43: 2022-06-14
- 52: Class 16. 24: Part A

71: HANGZHOU MICROIMAGE SOFTWARE CO., LTD.

33: CN 31: 202130322300.2 32: 2021-05-27

54: Telescope

57: The design relates to a telescope. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT AND RIGHT SIDE PERSPECTIVE VIEW

- 21: A2021/01483 22: 2021-11-26 23:
- 43: 2022-06-22
- 52: Class 7. 24: Part A
- 71: UNILEVER GLOBAL IP LIMITED
- 33: EM 31: 008573380-0001 32: 2021-06-11
- 54: Capsule

57: The design relates to a capsule. The features of the design are those of shape and/or configuration.



FRONT PERSPECTIVE VIEW FROM TOP

21: A2021/01484 22: 2021-11-26 23:

- 43: 2022-06-14
- 52: Class 16. 24: Part A

71: HANGZHOU MICROIMAGE SOFTWARE CO., LTD.

33: CN 31: 202130322300.2 32: 2021-05-27

54: Telescope

57: The design relates to a telescope. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2021/01500 22: 2021-12-08 23:

- 43: 2022-06-22
- 52: Class 21. 24: Part A
- 71: RENSHARE (PTY) LTD.

54: Board for a Board Game

57: The design relates to a board for a board game. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP PLAN VIEW

21: A2021/01501 22: 2021-12-08 23:

- 43: 2022-06-22
- 52: Class 9. 24: Part A
- 71: CHERRY PLASTICS CC
- 54: Bottle and Cap

57: The design relates to a bottle and cap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

- 21: A2021/01502 22: 2021-12-08 23:
- 43: 2022-06-22
- 52: Class 12. 24: Part A
- 71: FERRARI S.P.A.
- 33: IB 31: DM/214850 32: 2021-06-10
- 54: Car

57: The design relates to a car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

- 21: A2021/01503 22: 2021-12-08 23:
- 43: 2022-06-22
- 52: Class 12. 24: Part A
- 71: FERRARI S.P.A.
- 33: IB 31: DM/214850 32: 2021-06-10
- 54: Vehicle Wheel Rim

57: The design relates to a vehicle wheel rim. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

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21: A2021/01504 22: 2021-12-08 23: 43: 2022-06-22

52: Class 21. 24: Part A 71: FERRARI S.P.A.

33: IB 31: DM/216002 32: 2021-06-10

54: Toy Car

57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2021/01525 22: 2021-12-15 23: 43: 2022-06-24 52: Class 31 24: Part A 71: SODASTREAM INDUSTRIES LTD. 33: IL 31: 67387 32: 2021-07-29 54: DOMESTIC SODA-WATER PREPARING DEVICES

57: The design is for a domestic soda-water preparing device with the features as shown in the representations.



21: A2021/01526 22: 2021-12-15 23:

43: 2021-12-15

52: Class 28 24: Part A

71: ANGELOS, Komninos George, LAWRENCE, Allen Preston

54: RAZOR

57: The design is applied to a razor. The features of the design for which protection is claimed include the shape and/or configuration of a razor, substantially as illustrated in the accompanying representations.



54: HOLDER FOR A LOCATING DEVICE

57: The design is applied to a holder for a locating device. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the holder for a locating device, substantially as illustrated in the accompanying representation.



- AXONOMETRIC VIEW
- 21: A2021/01527 22: 2021-12-15 23:
- 43: 2022-06-24
- 52: Class 6. 24: Part A
- 71: RESTONIC (PROPRIETARY) LIMITED

54: Base for a Bed

57: The design relates to the base of a bed. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: A2021/01528 22: 2021-12-15 23: 43: 2022-06-24 52: Class 03 24: Part A 71: VODAFONE GROUP SERVICES LIMITED

33: EU 31: 008672042-0001 32: 2021-09-03

- 21: A2021/01529 22: 2021-12-15 23:
- 43: 2022-06-24
- 52: Class 03 24: Part A
- 71: VODAFONE GROUP SERVICES LIMITED
- 33: EU 31: 008672042-0002 32: 2021-09-03
- 54: HOLDER FOR A LOCATING DEVICE

57: The design is applied to a holder for a locating device. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the holder for a locating device, substantially as illustrated in the accompanying representation.



- 21: A2021/01534 22: 2021-12-17 23:
- 43: 2022-06-24
- 52: Class 24 24: Part A
- 71: Medtrade Products Limited

33: GB 31: 6143593 32: 2021-06-18 54: WOUND DRESSING

57: The features of the design for which protection is claimed include the pattern and/or shape and/or configuration and/or ornamentation of a wound dressing (or part thereof) substantially as illustrated in the accompanying representations.



21: A2021/01536 22: 2021-12-17 23: 43: 2022-06-24

52: Class 24 24: Part A

71: Medtrade Products Limited

33: GB 31: 6143594 32: 2021-06-18

54: WOUND DRESSING

57: The features of the design for which protection is claimed include the pattern and/or shape and/or configuration and/or ornamentation of a wound dressing (or part thereof) substantially as illustrated in the accompanying representations.



- 21: A2021/01546 22: 2021-12-20 23:
- 43: 2021-06-21
- 52: Class 7 24: Part A
- 71: Société des Produits Nestlé S.A.
- 33: CH 31: 146106 32: 2021-06-21

54: COFFEE MACHINES

57: The design is for a coffee machine. The coffee machine includes a body having a lower part and an upper part. The lower part is obround in shape and the upper part protrudes beyond a front end of the lower part. The upper part is generally obround and the width of the upper part increases gradually from a rear end towards the front end. A circular formation which is surrounded by an annular frusto-conical shoulder protrudes upwardly form an upper surface of the upper part of the body adjacent the front end thereof. A radially outwardly extending tab protrudes from the shoulder. A downwardly open outlet nozzle depends from the protruding part of the upper part. A circular cup stand is positioned below the nozzle. The cup stand includes a cover defining a splayed opening and plurality of circular openings. A generally cylindrical container is provided adjacent a rear end of the body.



Figure 1

Three-dimensional view

21: A2021/01549 22: 2021-12-21 23:

43: 2022-06-24

52: Class 9. 24: Part A

71: GREEN OX PALLET TECHNOLOGY, LLC

33: US 31: 29/796,079 32: 2021-06-22

54: Foldably Constructed Reinforceable Pallet **Bottom**

57: The design relates to a foldably constructed reinforceable pallet bottom. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW OF THE PALLET BOTTOM IN USE CONNECTED TO A PALLET TOP

21: A2021/01551 22: 2021-12-22 23:

- 43: 2022-06-24
- 52: Class 10. 24: Part A
- 71: MONTRES TUDOR SA
- 33: CH 31: 146220 32: 2021-07-20

54: Clasp for a Watch Bracelet

57: The design relates to a clasp for a watch bracelet. The features of the design are those of shape and/or configuration.



- 21: A2021/01552 22: 2021-12-22 23:
- 43: 2022-06-24 52: Class 10. 24: Part A

71: MONTRES TUDOR SA

- 33: CH 31: 146218 32: 2021-07-20
- 54: Clasp for a Watch Bracelet

57: The design relates to a clasp for a watch bracelet. The features of the design are those of shape and/or configuration.



TOP PERSPECTIVE VIEW

- 21: A2021/01553 22: 2021-12-22 23:
- 43: 2021-10-11
- 52: Class 29 24: Part A
- 71: Protecop
- 33: EM(FR) 31: 008722342-0001 32: 2021-10-11 54: VESTS

57: The design is for a vest comprising a chest section flanked by rectangular shoulder sections extending to sleeves. A front of the chest section defines a V-shaped collar extending downwardly from the shoulders to a zipper. A pair of short straps extend across a top and a mid-portion of the zipper. A top portion of the chest section includes horizontal

elements. The front and a rear of the chest section includes a mesh layer with an arrangement of horizontal straps that are continuous from the front to the rear. A pair of the horizontal elements include a buckle at each side. The rear of the chest section defines a U-shaped collar and a rectangular member with horizontal elements above the mesh layer. The sleeves comprise three slightly overlapping oval members with rectangular bulges attached to an elongate pad with a pair of extending straps. A bottom member includes a strap with a buckle.



Three-dimensional view

21: A2021/01554 22: 2021-12-22 23:

- 43: 2021-10-11
- 52: Class 29 24: Part A
- 71: Protecop

33: EM(FR) 31: 008722342-0002 32: 2021-10-11 54: VESTS

57: The design is for a vest comprising a chest section flanked by rectangular shoulder sections extending to sleeves. A front of the chest section defines a V-shaped collar extending downwardly from the shoulders to a zipper. A pair of short straps extend across a top and a mid-portion of the zipper. A top portion of the chest section includes horizontal elements. The front and a rear of the chest section includes a mesh layer with an arrangement of horizontal straps that are continuous from the front to the rear. A pair of the horizontal elements include a buckle at each side. The rear of the chest section defines a U-shaped collar and a rectangular member with horizontal elements above the mesh layer. An elongate snap hook is attached to a shoulder section. The sleeves comprise three slightly overlapping oval members with rectangular bulges attached to an elongate pad with a pair of extending straps. A bottom member includes a strap with a buckle.



- 21: A2021/01555 22: 2021-12-22 23:
- 43: 2021-10-11
- 52: Class 29 24: Part A
- 71: Protecop

33: EM(FR) 31: 008722342-0003 32: 2021-10-11 54: VESTS

57: The design is for a sleeveless vest comprising a chest section flanked by rectangular shoulder sections. A front of the chest section defines a V-shaped collar extending downwardly from the shoulders to a zipper. A pair of short straps extend across a top and a mid-portion of the zipper. A top portion of the chest section includes horizontal elements. The front and a rear of the chest section includes a mesh layer with an arrangement of horizontal straps that are continuous from the front to the rear. A pair of the horizontal elements include a buckle at each side. The rear of the chest section defines a U-shaped collar and a rectangular member with horizontal elements above the mesh layer. An

elongate snap hook is attached to a shoulder section.





Figure 1

Three-dimensional view

- 21: A2022/00019 22: 2022-01-06 23:
- 43: 2022-07-18
- 52: Class 13 24: Part A
- 71: FLENDER GMBH
- 33: EU 31: 008606982-0001 32: 2021-07-08
- 54: GEAR FOR AN ELECTRICAL MOTOR

57: The design is applied to a gear for an electrical motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the gear for an electrical motor, substantially as illustrated in the accompanying representation.

21: A2021/01556 22: 2021-12-22 23:

43: 2021-10-11

- 52: Class 29 24: Part A
- 71: Protecop

33: EM(FR) 31: 008722342-0004 32: 2021-10-11 54: VESTS

Three-dimensional view

57: The design is for a sleeveless vest comprising a chest section flanked by rectangular shoulder sections. A front of the chest section defines a V-shaped collar extending downwardly from the shoulders to a zipper. A pair of short straps extend across a top and a mid-portion of the zipper. A top portion of the chest section includes horizontal elements. The front and a rear of the chest section includes a mesh layer with an arrangement of horizontal straps that are continuous from the front to the rear. A pair of the horizontal elements include a buckle at each side. The rear of the chest section defines a U-shaped collar and a rectangular member with horizontal elements above the mesh layer.



21: A2022/00023 22: 2022-01-06 23: 43: 2022-07-18 52: Class 13 24: Part A 71: FLENDER GMBH

33: EU 31: 008606982-0003 32: 2021-07-08 **54: GEAR FOR AN ELECTRICAL MOTOR**

57: The design is applied to a gear for an electrical motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the gear for an electrical motor, substantially as illustrated in the accompanying representation.



- 21: A2022/00026 22: 2022-01-06 23:
- 43: 2022-07-18
- 52: Class 13 24: Part A
- 71: FLENDER GMBH

33: EU 31: 008606982-0005 32: 2021-07-08

54: GEAR FOR AN ELECTRICAL MOTOR

57: The design is applied to a gear for an electrical motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the gear for an electrical motor, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2022/00028 22: 2022-01-06 23: 43: 2022-07-18

52: Class 13 24: Part A
71: FLENDER GMBH
33: EU 31: 008606982-0004 32: 2021-07-08
54: GEAR FOR AN ELECTRICAL MOTOR
57: The design is applied to a gear for an electrical motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the gear for an electrical motor, substantially as illustrated in the accompanying representation.

Features shown in broken lines do not form part of the design and are disclaimed.



21: A2022/00029 22: 2022-01-07 23:

43: 2022-07-18

52: Class 13 24: Part A

71: JJ Govender

54: THE HYDROGEN AND SOLAR CAPSULE SHIP ISLANDS (DAISY)

57: The Ship Islands are designed with 3 hulls, the main hull and two side hulls to support the weight of the solar panels. Hull 1 being the mail hull hosts most of the ships mechanics (engines, turbines etc) Hull 1 hosts the Captain's deck as well, it hosts a mast. The amount of mast is determined by the country/company. Hull 1 (main hull) hosts the CSP-PV Hybrid Plant as well. The main hull (hull 1) hosts the daisy flower, including the hydrogen pods and the solar capsules. B & C: Hull 2 & 3, hull 2 stores additional hydrogen pods & solar capsules, hull 2 is designed to host 2 anchors and a centered propeller, the reason for this is, should a rogue wave hit the ship island, the hull on the same side as the rogue wave will release it's anchors and the propeller blades will spin in an downward motion taking the "solar wing" into the rogue wave (turning the ship on it's side). The opposite hull will use it's propeller blades to spin with an upward motion, and will not release it's anchors. This will balance the ship once the roque wave hits the opposite hull. D: Captain viewing deck, control room, sleeping quarters etc...

E: The CSP-PV Hybrid Plant main core F: Hydrogen Pods – these hydrogen pods are storage vessels for the manufactured hydrogen, these pods will be lifted of the ship when docked at the harbour and be transported to the necessary regions for usage. G: A parabolic trough daisy petal H: A solar paneled daisy petal and solar capsules (batteries) I: Ship rear (tail)



- 21: A2022/00115 22: 2022-02-03 23:
- 43: 2022-08-18
- 52: Class 21 24: Part A
- 71: COLONIZING WINE (PTY) LTD

54: BOARD GAME

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a BOARD GAME as shown in the accompanying representations.



FRONT VIEW

21: F2019/00185 22: 2019-02-01 23: 43: 2022-07-20 52: Class 03 24: Part F

71: HIPPO AND CO (PTY) LTD

54: BABY CARRIER

57: The design is applied to a baby carrier. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the baby carrier, substantially as shown in the accompanying representations.



- 21: F2021/00095 22: 2021-02-05 23:
- 43: 2022-07-19
- 52: Class 30 24: Part F
- 71: BOSHOFF, Louis
- **54: ENTRANCE GUARDS**

57: The design is for an entrance guard, consisting of a planar square body. In use, the entrance guard is positioned over a rectangular entrance of a beehive. A plurality of attachment apertures on the body allows for the attachment of the entrance guard, by means of fasteners, to the beehive. The body comprises four peripheral functional zones, the entrance guard rotatable such that a specific functional zone is positioned in front of the entrance. A first functional zone (A) defines a tooth-like arrangement spaced for preventing larger insects from entering the beehive. A second functional zone (B) defines a solid side for completely closing the entrance to the beehive. A third functional zone (C) defines an arrangement of elongated apertures for allowing the exit and re-entry of worker bees relative the beehive. A fourth functional zone (D) provides a plurality of ventilation apertures while preventing bees from exiting the beehive.



- 21: F2021/00481 22: 2021-04-21 23:
- 43: 2022-05-11
- 52: Class 24 24: Part F
- 71: HECTOR KOOPMAN 54: FACE MASK (G-MASK)
- 54. I ACE MASK (G-MASK

57: 1. The G-Mask is made from any ordinary cloth material ie cotton or other. 2. It has a mouth flap that opens and when closed, is secured with velcrose. 3. Elastic bands are used to attach around the ears. 4. G-Mask is made in small, medium and large. 5. Sizes rage between 10cm x 50cm and 50cm x 50cm ie width x Breadth. 6. There is zip stitched vertically onto the flap. 7. The mouth flap allows people to eat, drink foods and liquids without having to remove the

mask inconveniently. 8. The vertical zip allows people to sip liquids or smoke without having to inconveniently remove the mask.



21: F2021/01389 22: 2021-11-05 23: 43: 2022-05-19

52: Class 15 24: Part F

71: CHESTER BROWN INDUSTRIES PTY LTD 33: AU 31: 202112651 32: 2021-05-06

54: CUTTING TOOL HANDLING ASSEMBLY

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the cutting tool handling assembly substantially as shown in the accompanying representations. The article of the design consists substantially of a cutting tool handling assembly for handling a drill bit without requiring a person physically handling the bit, thereby addressing the potential danger of sustaining injury when installing or replacing a cutting tool from a drill string.



- 21: F2021/01410 22: 2021-11-12 23:
- 43: 2022-06-24
- 52: Class 25 24: Part F
- 71: Wireman Pty Limited
- 33: AU 31: 202113037 32: 2021-05-26

54: A FENCING LANYARD

57: The features of the design for which protection is sought are those features of shape and/or configuration and/or pattern applied to the fencing lanyard shown in the representations.



- 21: F2021/01443 22: 2021-11-19 23:
- 43: 2022-06-14
- 52: Class 23 24: Part F
- 71: VOLTEX (PROPRIETARY) LIMITED
- **54: HEATING EQUIPMENT**

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of heating equipment substantially as illustrated the accompanying representations, irrespective of colour, and wherein the branding (trade mark) shown in Figures 3, 8 and 9 is disclaimed.



Perspective view

21: F2021/01445 22: 2021-11-19 23:
43: 2022-06-14
52: Class 12 24: Part F
71: SMITH, Neville
33: AU 31: 202112983 32: 2021-05-24
54: BICYCLE SPARE WHEEL MOUNTS
57: The features of the design for which protection is claimed include the pattern and/or shape and/or configuration of a bicycle spare wheel mount.

configuration of a bicycle spare wheel mount, substantially as shown in the representations. The features shown in broken lines do not form part of the design and are disclaimed.



21: F2021/01455 22: 2021-11-19 23: 43: 2022-06-22

52: Class 09 24: Part F

71: FRAI PRODUCTS (PTY) LTD

54: PRODUCT CONTAINER, DISPENSER OR APPLICATOR

57: The design is applied to a product container, dispenser or applicator. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the product container, dispenser or applicator, substantially as illustrated in the accompanying representation.



- 21: F2021/01456 22: 2021-11-22 23:
- 43: 2022-06-14
- 52: Class 21 24: Part F
- 71: FORZA ACCESSORIES (PTY) LTD
- 54: BELT

57: The design is applied to a belt. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the belt, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



- 21: F2021/01461 22: 2021-11-23 23:
- 43: 2022-06-14
- 52: Class 23 24: Part F
- 71: KPR U.S., LLC
- 33: US 31: 29/785,162 32: 2021-05-24
- 54: FLUID CONNECTOR

57: The design is applied to a fluid connector and is shown in front right perspective view in the drawing showing the overall appearance thereof.



21: F2021/01462 22: 2021-11-23 23: 43: 2022-06-14 52: Class 23 24: Part F 71: KPR U.S., LLC 33: US 31: 29/785,147 32: 2021-05-24

54: FLUID CONNECTOR

57: The design is applied to a fluid connector and is shown in front right perspective view in the drawing showing the overall appearance thereof.



21: F2021/01463 22: 2021-11-23 23: 43: 2022-06-14 52: Class 23 24: Part F 71: KPR U.S., LLC 33: US 31: 29/785,163 32: 2021-05-24 54: FLUID CONNECTOR

57: The design is applied to a fluid connector and is shown in front right perspective view in the drawing showing the overall appearance thereof.



- 21: F2021/01464 22: 2021-11-23 23:
- 43: 2022-06-14
- 52: Class 23 24: Part F
- 71: KPR U.S., LLC
- 33: US 31: 29/785,136 32: 2021-05-24
- 54: FLUID CONNECTOR

57: The design is applied to a fluid connector and is shown in front right perspective view in the drawing showing the overall appearance thereof.



- 21: F2021/01465 22: 2021-11-23 23:
- 43: 2022-06-14
- 52: Class 23 24: Part F
- 71: KPR U.S., LLC
- 33: US 31: 29/785,164 32: 2021-05-24
- 54: FLUID CONNECTOR

57: The design is applied to a fluid connector and is shown in front right perspective view in the drawing showing the overall appearance thereof.



21: F2021/01466 22: 2021-11-23 23: 43: 2022-06-14 52: Class 23 24: Part F 71: KPR U.S., LLC 33: US 31: 29/785,143 32: 2021-05-24 54: FLUID CONNECTOR 57: The design is applied to a fluid connection

57: The design is applied to a fluid connector and is shown in front right perspective view in the drawing showing the overall appearance thereof.



21: F2021/01485 22: 2021-11-29 23: 43: 2021-11-29 52: Class 15 24: Part F 71: DE REUCK (Snr), Dudley Howard, DE REUCK (Jnr), Dudley Howard, DE REUCK, Willem Sarel **54: Packing seals for reciprocating water pumps** 57: The design is applied to a packing seal for a force head assembly of a reciprocating water pump and defines an internal passage in which a pump rod of the reciprocating water pump, is received. The packing seal includes a plurality of integrally connected longitudinally-spaced sealing discs. The sealing discs comprise inner sealing discs which extend radially inwardly and are slanted downwardly and outer sealing discs which extend radially outwardly and are slanted downwardly.



Three-dimensional view

- 21: F2021/01486 22: 2021-11-29 23:
- 43: 2021-11-29
- 52: Class 15 24: Part F

71: DE REUCK (Snr), Dudley Howard, DE REUCK (Jnr), Dudley Howard, DE REUCK, Willem Sarel **54: Protection sleeves for reciprocating water pump rods**

57: The design is applied to a protection sleeve for a reciprocating water pump rod. The sleeve defines a central passage within which the pump rod is received. The sleeve defines a number of equi-

spaced, longitudinally-extending grooves on an outer side thereof.



Three-dimensional view

21: F2021/01507 22: 2021-12-09 23:

43: 2022-08-02

52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a Belaotex Floors

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01508 22: 2021-12-09 23: 43: 2022-06-22

52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a Belgotex Floors

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01509 22: 2021-12-09 23:

43: 2022-06-22

52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a Belgotex Floors

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01510 22: 2021-12-09 23:

43: 2022-06-22

52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a Belgotex Floors

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01511 22: 2021-12-09 23: 43: 2022-06-22

52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a **Belaotex Floors**

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01512 22: 2021-12-09 23: 43: 2022-06-22

52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a **Belgotex Floors**

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01513 22: 2021-12-09 23: 43: 2022-06-22

52: Class 25 24: Part F 71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a

Belgotex Floors

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01514 22: 2021-12-09 23: 43: 2022-06-22

52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a **Belaotex Floors**

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01515 22: 2021-12-09 23:

- 43: 2022-06-22
- 52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a **Belgotex Floors**

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01516 22: 2021-12-09 23:

- 43: 2022-06-22
- 52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a Belgotex Floors

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01517 22: 2021-12-09 23: 43: 2022-06-22

52: Class 25 24: Part F

71: BELGOTEX FLOORCOVERINGS (PTY) LTD t/a Belgotex Floors

54: A TILE

57: The features of this design for which protection are claimed include the shape and configuration of a tile substantially as illustrated in the accompanying representations.



21: F2021/01520 22: 2021-12-13 23:

- 43: 2022-06-24
- 52: Class 25 24: Part F
- 71: PRAESIDIAD HOLDING BVBA

54: FENCE POST CLAMP

57: The design is applied to a fence post clamp. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the fence post clamp, substantially as illustrated in the accompanying representations.



21: F2021/01522 22: 2021-12-13 23:

- 43: 2022-06-24
- 52: Class 25 24: Part F
- 71: PRAESIDIAD HOLDING BVBA

54: FENCE POST CLAMP

57: The design is applied to a fence post clamp. The features of the design for which protection is claimed are those of the shape and/or configuration and/or

pattern of the fence post clamp, substantially as illustrated in the accompanying representations.



21: F2021/01530 22: 2021-12-15 23: 43: 2022-06-24

- 52: Class 03 24: Part F
- 71: VODAFONE GROUP SERVICES LIMITED
- 33: EU 31: 008672042-0001 32: 2021-09-03

54: HOLDER FOR A LOCATING DEVICE

57: The design is applied to a holder for a locating device. The features of the design for which protection is claimed are those of the shape and/or configuration of the holder for a locating device, substantially as illustrated in the accompanying representation.



21: F2021/01531 22: 2021-12-15 23:
43: 2022-07-06
52: Class 03 24: Part F
71: VODAFONE GROUP SERVICES LIMITED
33: EU 31: 008672042-0002 32: 2021-09-03
54: HOLDER FOR A LOCATING DEVICE

57: The design is applied to a holder for a locating device. The features of the design for which protection is claimed are those of the shape and/or configuration of the holder for a locating device, substantially as illustrated in the accompanying representation.



- 21: F2021/01533 22: 2021-12-15 23:
- 43: 2022-06-24
- 52: Class 31 24: Part F
- 71: KRIGE, Grove

54: A FOOD PROCESSING MACHINE

57: The design is applied to a food processing machine. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the food processing machine, substantially as illustrated in the accompanying representation. Features of the food processing machine shown in broken lines do not form part of the design and are disclaimed.



- 21: F2021/01535 22: 2021-12-17 23: 43: 2022-06-24
- 52: Class 24 24: Part F
- 71: Medtrade Products Limited
- 33: GB 31: 6143593 32: 2021-06-18

54: WOUND DRESSING

57: The features of the design for which protection is claimed include the pattern and/or shape and/or configuration of a wound dressing (or part thereof) substantially as illustrated in the accompanying representations.



- 21: F2021/01547 22: 2021-12-21 23:
- 43: 2022-06-24
- 52: Class 14 24: Part F

71: POYNTING ANTENNAS (PTY) LIMITED 54: RADIATOR ASSEMBLY FOR A SIGNAL DISTRIBUTION SYSTEM

57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of a radiator assembly (shown shaded) on a substrate A as illustrated in the accompanying representations, irrespective of the shape of the substrate A.



- 21: F2021/01559 22: 2021-12-22 23:
- 43: 2022-06-24
- 52: Class 21 24: Part F
- 71: VAN NIEROP, Simon

54: ROOFTOP TENT STRUCTURE FOR VEHICLE

57: The design is for a rooftop tent structure for a vehicle, that has a sliding attachment mechanism for fitting on top of the vehicle.



21: F2022/00020 22: 2022-01-06 23:
43: 2022-07-18
52: Class 13 24: Part F
71: FLENDER GMBH
33: EU 31: 008606982-0001 32: 2021-07-08
54: GEAR FOR AN ELECTRICAL MOTOR
57: The design is applied to a gear for an electrical

motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gear for an electrical motor, substantially as illustrated in the accompanying representation.



43: 2022-07-18

52: Class 13 24: Part F 71: FLENDER GMBH 33: EU 31: 008606982-0002 32: 2021-07-08 54: GEAR FOR AN ELECTRICAL MOTOR

57: The design is applied to a gear for an electrical motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gear for an electrical motor, substantially as illustrated in the accompanying representation.



- 21: F2022/00024 22: 2022-01-06 23:
- 43: 2022-07-18
- 52: Class 13 24: Part F
- 71: FLENDER GMBH

33: EU 31: 008606982-0003 32: 2021-07-08 54: GEAR FOR AN ELECTRICAL MOTOR

57: The design is applied to a gear for an electrical motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gear for an electrical motor, substantially as illustrated in the accompanying representation.

21: F2022/00022 22: 2022-01-06 23:



- 21: F2022/00025 22: 2022-01-06 23:
- 43: 2022-07-18
- 52: Class 13 24: Part F
- 71: FLENDER GMBH

33: EU 31: 008606982-0004 32: 2021-07-08

54: GEAR FOR AN ELECTRICAL MOTOR

57: The design is applied to a gear for an electrical motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gear for an electrical motor, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2022/00027 22: 2022-01-06 23: 43: 2022-07-18 52: Class 13 24: Part F

71: FLENDER GMBH

33: EU 31: 008606982-0005 32: 2021-07-08 54: GEAR FOR AN ELECTRICAL MOTOR

57: The design is applied to a gear for an electrical motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gear for an electrical motor, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



- 21: F2022/00030 22: 2022-01-07 23:
- 43: 2022-07-18

52: Class 13 24: Part F

71: JJ Govender

54: THE SOLAR CAPSULE AND HYDROGEN POD SHIP ISLANDS

57: A: The Ship Islands are designed with 3 hulls, the main hull and two side hulls to support the weight of the solar panels. Hull 1 being the mail hull hosts most of the ships mechanics (engines, turbines etc) Hull 1 hosts the Captain's deck as well, it hosts a mast. The amount of mast is determined by the country/company. Hull 1 (main hull) hosts the CSP-PV Hybrid Plant as well. The main hull (hull 1) hosts the daisy flower, including the hydrogen pods. B & C: Hull 2 & 3, these two hulls stores additional hydrogen pods and solar capsules (batteries), both hulls are designed to host 2 anchors and a centered propeller, the reason for this is, should a rogue wave hit the ship island on either side, the hull on the same side as the rogue wave will release it's anchors and the propeller blades will spin in an downward motion taking the "solar wing" into the rogue wave (turning the ship on it's side). The opposite hull will use it's propeller blades to spin with an upward motion, and will not release it's anchors. When the wave hits the opposite winged hull, the ship will be balanced out. D: Captain viewing deck, control room, sleeping guarters etc... E: The CSP-PV Hybrid Plant main core F: Hydrogen Pods -

these hydrogen pods are storage vessels for the manufactured hydrogen, these pods will be lifted of the ship when docked at the harbour and be transported to the necessary regions for usage. G: A parabolic trough daisy petal H: A solar paneled daisy petal plus the solar capsules I: Ship rear (tail)



21: F2022/00140 22: 2022-02-11 23:
43: 2022-08-18
52: Class 13 24: Part F
71: SMA Solar Technology AG
33: EU 31: 008686950-0011 32: 2021-09-16
54: BATTERY CHARGER
57: The features of the design for which protection is

claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



43: 2022-08-18
52: Class 13 24: Part F
71: SMA Solar Technology AG
33: EU 31: 008686950-0015 32: 2021-09-16
54: BATTERY CHARGER
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

21: F2022/00144 22: 2022-02-11 23:

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: (21) Official application number. (22) Date of application. (43) Date of acceptance. (24) Date(s) and place(s) at which cinematograph films was made. (25) Date and place of first publication. (71) Name (s) of all applicant (s). (75) Name of author. (76) Name of producer (77) Name of director (54) Title of cinematograph film. (78) Name(s) of principal players or narrator. (26) Places at which cinematograph film may be viewed and conditions. (55) Specimen lodged/Not lodged. (56) Preview requested/Not requested. (57) Abstract (Storyline). (58) Category.

21: 2022/00038. 22: 2022/08/05. 43: 2022/08/05 24: 2021/10/25 to 2021/10/31; Durban 25: 2022/07/21; Durban International Film Festival 71: Dragon Productions 104 Berriedale Road, Durban, 4001, South Africa 75: Dragon Productions104 Berriedale Road, Durban, ZA, 4001, Phone: 0829598924, Email: Razdada@gmail.com; 76: Dragon Productions; Razeen Dada; Nazruddin Sheik Adrus; Jyothika Persadh: Fatima Zahra Dada 77: Siphakamiso Mafuleka 54: Identity 78: Razeen Dada; Nazruddin Sheik Adrus; Fatima Zahra Dada; Meghan Oberholzer; Daniel Dinnie; Zime Ndlovu 26: All South laws of South Africa were observed and adhered to. 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: A man suffering from Schizophrenia undergoes an unorthodox therapy procedure that makes him revisit his distorted memories to find out what happened to his missing girlfriend.

58: DR

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

The trade mark under application number **2017/15067** was advertised in the **May 2022** journal incorrectly as **Q CONTRAST.** The whole publication should have appeared as the one below however the publication date will remain **25/05/2022.**

2017/15067 in Class 09: Television sets; Television receivers; Display panel for television; Monitors for commercial purpose. in the name of SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea. Address for service: Von Seidels, 1 Park Close, Central Park, Century City, 7441, SOUTH AFRICA

Q Contrast

Registration of this trade mark shall give no right to the exclusive use of the word "CONTRAST", separately and apart from the mark. Priority is claimed by virtue of trade mark no: 016126211 filed in EU on 2016-12-01 FILED: 2017-05-31

PATENT CORRECTION NOTICES

The patent application no: 2020/01880 was advertised in the June 2022 journal with an incorrect sequence of the priority information which appeared as 33: US 31: 62/559,113 32: 2017-09-15 33: US 31: 62/658,758 32: 2018-04-17 33: US 31: 62/584,343 32: 2017-11-10, should read. 33: US 31: 62/559,113 32: 2017-09-15 33: US 31: 62/584,343 32: 2017-11-10 33: US 31: 62/658,758 32: 2018-04-17" and the entire publication should have appeared as the one below, however the publication will remain the 29/06/2022.

21: 2020/01880. 22: 2020/03/24. 43: 2022/04/07

51: C07D

71: AZEVAN PHARMACEUTICALS, INC.

72: BROWNSTEIN, Michael, J.

33: US 31: 62/559,113 32: 2017-09-15

33: US 31: 62/584,343 32: 2017-11-10

33: US 31: 62/658,758 32: 2018-04-17

54: COMPOSITIONS AND METHODS FOR TREATING BRAIN INJURY

00: -

Compounds, and compositions, methods, and uses thereof, are described herein for treating brain injuries.

AUGUST 2022

2 CIPC PATENT JOURNAL



The patent application no: 2020/03579 was advertised in the June 2022 journal with an incorrect sequence of the priority information which appeared as 33: 33: EP 31: 18172075.6 32: 2018-05-14 33: EP 31: 18152728.4 32: 2018-01-22 33: NO 31: 20171870 32: 2017-11-22, should read. 33: NO 31: 20171870 32: 2017-11-22 33: EP 31: 18152728.4 32: 2018-01-22 33: EP 31: 18172075.6 32: 2018-05-14 " and the entire publication should have appeared as the one below, however the publication will remain the 29/06/2022.

21: 2020/03579. 22: 2020/06/15. 43: 2022/04/07

51: A01K

71: NORWEGIAN INNOVATION TECHNOLOGY GROUP AS

72: TOFTEN, Richard, Johan, MORANA, Hans, Christian, KOBBELTVEDT, Rolf

33: NO 31: 20171870 32: 2017-11-22

33: EP 31: 18152728.4 32: 2018-01-22

33: EP 31: 18172075.6 32: 2018-05-14

54: IMPROVED UNDERWATER HARVESTING SYSTEM

00: -

The present invention relates to a harvesting system (11, 12, 13, 14, 24, 28) for harvesting zooplankton or mesopelagic fishes, said system comprising: - an underwater device (1, 4, 7, 16, 23, 29) for being lowered and towed into the sea, said underwater device comprising a housing provided with one or more inlets (30) adapted to receive a zooplankton or mesopelagic fishes-containing fluid, wherein said housing comprises one or more manifolds (2); said underwater device further comprising one or more sources of light (26, 27) facilitating schooling of zooplankton towards an illuminated area; - a fluidic connection (21) fluidically connecting said underwater device to a surface vessel; wherein said one or more inlets are inlets to said one or more manifolds and said one or more manifolds converge into said fluidic connection, wherein said one or more sources of light are located within said one or more inlets.



DESIGNS CORRECTION NOTICES

No records available

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for August 2022

Number of Advertised Patents: 1241

Application Number	Patent Title	Filing Date
2008/10802	POLYCRYSTALLINE ULTRA-HARD CONSTRUCTIONS WITH MULTIPLE SUPPORT MEMBERS	2008/12/22
2010/07778	PRESSURE DIFFERENTIAL METERING DEVICE	2010/11/01
2010/08603	LINER COUPLING PIN	2010/11/30
2011/04368	METHODS OF DIAGNOSIS AND TREATING WOUNDS AND SCREENING FOR ELECTRICAL MARKERS FOR WOUNDS PROGNOSIS	2011/06/13
2011/05106	APPARATUS FOR DISPENSING MADE-TO-ORDER FROZEN BEVERAGE	2011/07/12
2011/06178	PRESSURE MANAGEMENT HYDRAULIC CONTROL VALVE	2011/08/23
2012/02141	OPPOSITE RADIAL ROTARY-PISTON ENGINE OF CHORONSKI	2012/03/23
2012/03872	IRRIGATION SYSTEM	2012/05/11
2013/01622	ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES, AND METHODS OF USING SAME FOR INREASING NITROGEN USE EFFICIENCY, YIELD, GROWTH RATE.VIGOR, BIOMASS.OIL CONTENT, AND/OR ABIOTIC STRESS TOLERANCE	2013/03/04
2013/03945	PROTECTIVE HOUSING	2013/05/29
2013/09174	POLYPEPTIDES	2013/12/05
2014/02815	METHOD FOR PRODUCING SYNTHESIS GAS BY GASIFYING A BIOMASS IN A FLUIDIZED BED	2014/04/16
2014/05501	EXTERNAL FILES FOR DISTRIBUTION OF MOLECULAR DIAGNOSTIC TESTS AND DETERMINATION OF COMPATIBILITY BETWEEN TESTS	2014/07/25
2014/06672	THERMAL INSULATION LAYER AND PRESSURE TRANSFER MEDIUM FOR HIGH-PRESSURE HIGH- TEMPERATURE CELL	2014/09/11
2014/07254	REFLEX TESTING OF SAMPLES USING RESIDUAL MATERIALS FROM A PRIOR TEST	2014/10/07
2014/07913	TELECOMMUNICATIONS ENCLOSURE AND ORGANIZER	2014/10/30
2015/05281	METHOD AND APPARATUS FOR SEQUESTERING CARBON DIOXIDE FROM A SPENT GAS	2015/07/22
2015/05483	TEMPERATURE SHIFT FOR HIGH YIELD EXPRESSION OF POLYPEPTIDES IN YEAST AND OTHER TRANSFORMED CELLS	2015/07/30
2015/06432	PROCESS FOR PREPARING A BORON CONTAINING ZEOLITIC MATERIAL HAVING MWW FRAMEWORK STRUCTURE	2015/09/02
2015/06511	COMPOSITIONS AND METHODS FOR IMMUNOTHERAPY	2015/09/04
2015/07657	PYRIDIN-4-YL DERIVATIVES	2015/10/14
2015/08327	INFLUENZA VIRUS-LIKE PARTICLE PRODUCTION IN PLANTS	2015/10/26
Application Number	Patent Title	Filing Date
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2015/08812	SHUT-OFF VALVE FOR OSCILLATING WATER COLUMN TURBINES	2015/12/02
2016/01051	THERMALLY STABLE POLYCRYSTALLINE DIAMOND AND METHODS OF MAKING THE SAME	2016/02/16
2016/01963	METHODS AND COMPOSITIONS FOR TREATMENT OF CARTILAGE AND DISC TISSUE PATHOLOGIES	2016/03/22
2016/02043	NOVEL IMMUNOTHERAPEUTIC COMPOSITION AND USES THEREOF	2016/03/29
2016/04874	RNA-GUIDED GENE DRIVES	2016/07/14
2016/05437	CPMV ENHANCER ELEMENTS	2016/08/05
2016/05495	IMMUNOSTIMULATORY PLASMIDS	2016/08/08
2016/06275	CYCLOPROPYLAMINES AS LSD1 INHIBITORS	2016/09/09
2016/06799	THE PRODUCTION OF HIGH-GRADE SYNTHETIC RUTILE FROM LOW-GRADE TITANIUM-BEARING ORES	2016/10/03
2016/07175	IMPROVED METHODS FOR MANUFACTURING ADOPTIVE CELL THERAPIES	2016/10/18
2016/08325	CONNECTOR	2016/12/02
2016/08327	CURCUMIN-PEPTIDE CONJUGATES AND FORMULATIONS THEREOF	2016/12/05
2016/08501	FROZEN AERATED PRODUCTS	2016/12/09
2017/00867	MODIFYING PROTEIN PRODUCTION IN PLANTS	2017/02/03
2017/00882	PROCESS FOR CONTROLLING THE POROSITY OF CARBON BLACKS	2017/02/03
2017/01599	A BUILDING ELEMENT	2017/03/06
2017/02640	ELICITOR PEPTIDES HAVING DISRUPTED HYPERSENSITIVE RESPONSE BOX AND USE THEREOF	2017/04/12
2017/02641	HYPERSENSITIVE RESPONSE ELICITOR PEPTIDES AND USE THEREOF	2017/04/12
2017/03791	COMPOUNDS AND USES THEREOF FOR THE MODULATION OF HEMOGLOBIN	2017/06/02
2017/04814	DRILLING ACCESSORY	2017/07/17
2017/05698	APPARATUS FOR MANUFACTURING AN EXTRUDED FOOD PRODUCT	2017/08/22
2017/05901	A CONVERSION ARRANGEMENT	2017/08/30
2017/06160	A ROCK DRILL BUTTON	2017/09/11
2017/06223	POLYCRYSTALLINE DIAMOND BODIES INCORPORATING FRACTIONATED DISTRIBUTION OF DIAMOND PARTICLES OF DIFFERENT MORPHOLOGIES	2017/09/13
2017/06345	EXHAUST GAS TREATMENT SYSTEM	2017/09/20
2017/06604	AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL	2017/10/02
2017/06711	MEDICAL DETECTOR AND ANTIDIFFUSION GRID FOR MEDICAL IMAGING DEVICE	2017/10/05
2017/07904	COMPOSITIONS AND METHODS FOR CONTROLLING PLANT PESTS	2017/11/21
2017/07974	METHOD FOR PREVENTING TRANSPLANT FAILURE IN A HOST.	2017/11/23
2017/08004	ETHER COMPOUNDS AND RELATED COMPOSITIONS	2017/11/24
2017/08160	STABLE BASIC ELECTROLYTE MATERIAL AND SOLVENT MATERIAL CONTAINING SAME	2017/11/30

Application Number	Patent Title	Filing Date
2017/08344	SELF-SUPPORTING, SYNTHETIC POLYMER WATERPROOF MEMBRANE WITH SELF-HEALING ABILITY	2017/12/08
2017/08418	PROCESS CONTROL SYSTEM FOR REGULATING AND CONTROLLING A MODULAR PLANT FOR MANUFACTURING BIOPHARMACEUTICAL AND BIOLOGICAL MACROMOLECULAR PRODUCTS	2017/12/12
2017/08603	AN INFLATABLE ROCK BOLT	2017/12/18
2017/08615	AN INFLATABLE ROCK BOLT	2017/12/18
2018/00559	ELECTRONIC CONTROLLER FOR HOUSEHOLD ENERGY CONTROL BASED ON TIMING AND TARIFF DATA	2018/01/26
2018/00563	POLYCYCLIC AMIDE DERIVATIVES AS CDK9 INHIBITORS	2018/01/26
2018/00580	NITROUS OXIDE REMOVAL CATALYSTS FOR EXHAUST SYSTEMS	2018/01/29
2018/00638	FUCOSIDASE INHIBITORS	2018/01/30
2018/00650	DEVELOPMENT OF AN ASPARAGINE-REDUCING YEAST BY ADAPTIVE EVOLUTION AND USES THEREOF TO REDUCE ACRYLAMIDE FORMATION	2018/01/31
2018/00878	FORMULATION FOR SOFT ANTICHOLINERGIC ANALOGS	2018/02/09
2018/00896	SPRING ASSEMBLY WITH A PROTECTED ATTACHMENT SITE	2018/02/12
2018/01033	OPTICAL CONCENTRATION SYSTEM FOR A SOLAR ENERGY ASSEMBLY AND SAME	2018/02/15
2018/01119	THERAPEUTIC HPV18 VACCINES	2018/02/19
2018/01123	A METHOD OF FORMING GROUPS OF SMOKING ARTICLES	2018/02/19
2018/01260	ROTARY PARTS FOR A SLURRY PUMP	2018/02/23
2018/01265	A NEW SUBPOPULATION OF CD8+CD45RCLOW TREGS AND USES THEREOF	2018/02/23
2018/01396	METHOD FOR DETERMINING AN ACTUAL VOLUME OF AN INJECTION-MOULDABLE COMPOUND IN AN INJECTION-MOULDING PROCESS	2018/02/28
2018/01543	IN-LINE NASAL DELIVERY DEVICE	2018/03/06
2018/01716	COMPOSITIONS AND METHODS FOR DIAGNOSING LYME DISEASE AND FOR PREDICTING LYME DISEASE SPIROCHETE ELIMINATION AFTER TREATMENT	2018/03/13
2018/01947	COMPOUNDS AS DNA PROBES, METHODS AND APPLICATIONS THEREOF	2018/03/23
2018/02665	METHODS FOR ENHANCING TOPICAL APPLICATION OF A BENEFIT AGENT	2018/04/20
2018/02870	OXYGENATE REDUCTION CATALYST AND PROCESS	2018/05/02
2018/03059	ANTI-REGURGITATION COMPOSITION MAINTAINING GUT MOTILITY	2018/05/10
2018/03358	REACTIVE GAS GENERATION SYSTEM AND METHOD OF TREATMENT USING REACTIVE GAS	2018/05/21
2018/03899	TEMPLE FOR A PAIR OF GLASSES	2018/06/12
2018/04117	PEPTIDE COMPOUNDS AND PEPTIDE CONJUGATES FOR THE TREATMENT OF CANCER THROUGH RECEPTOR-MEDIATED CHEMOTHERAPY	2018/06/20
2018/04137	COMPOUNDS USEFUL AS KINASE INHIBITORS	2018/06/20

Application Number	Patent Title	Filing Date
2018/05141	FUEL ADDITIVES	2018/07/31
2018/05509	SMOKE FILTERING DEVICE	2018/08/17
2018/06904	DETACHABLE DISPOSABLE ABSORBENT ARTICLE	2018/10/16
2018/06932	CRUSHER COMPRISING REPLACEABLE PROTECTIVE	2018/10/17
	LINERS	
2018/06952	EMBEDDED ANCHOR	2018/10/18
2018/07052	EXERCISE CHAIR UTILIZING AN ADJUSTABLE	2018/10/23
	RESISTANCE BAND SYSTEM	
2018/07082	PROCESS FOR PRODUCING A POLYACRYLAMIDE	2018/10/24
	SOLUTION WITH INCREASED VISCOSITY	
2018/07153	THERAPEUTIC ANTIBODIES AND THEIR USES	2018/10/26
2018/07299	A METHOD AND SYSTEM FOR VERIFYING INTEGRITY	2018/10/31
	OF A DIGITAL ASSET USING A DISTRIBUTED HASH	
	TABLE AND A PEER-TO-PEER DISTRIBUTED LEDGER	
2018/07303	NON-AQUEOUS, NON-OIL LIVE MICROBIAL	2018/10/31
	COMPOSITIONS	
2018/07616	BALLASTED SOLIDS TREATMENT SYSTEM AND	2018/11/13
2018/07694	REAL-TIME DATA ACQUISITION AND RECORDING	2018/11/15
0040/07000		0040/44/04
2018/07869	PEPTIDES AND NANOPARTICLES FOR INTRACELLULAR	2018/11/21
0040/00470		0040/40/44
2018/08470		2018/12/14
2018/08507		2018/12/18
2019/00111		2019/01/08
2010/00103		2010/01/10
2019/00193	THEREOF	2019/01/10
2019/00410	ARRANGEMENT FOR INLUNE HOLOGRAPHY	2019/01/21
2013/00410	MICROSCOPY	2013/01/21
2019/00411	DETECTING MICROSCOPIC OBJECTS IN FLUIDS	2019/01/21
2019/00542	ISOTONIC CRYSTALLOID AQUEOUS SOLUTION	2019/01/25
2019/00692	ULTRAPORTABLE SYSTEM FOR INTRAOPERATIVE	2019/02/01
	ISOLATIVE AND REGULATION OF SURGICAL SITE	
	ENVIRONMENTS	
2019/00712	HEATED AIRLOCK FEEDER UNIT	2019/02/04
2019/00820	ANTIBODY-DRUG CONJUGATE	2019/02/08
2019/00867	ANIMAL INTRANASAL ADMINISTRATION DEVICE,	2019/02/11
	SYSTEMS, AND ASSOCIATED METHODS	
2019/00927	UHMWPE FIBER, YARN AND ARTICLES THEREOF	2019/02/13
2019/00958	LATEX COATING COMPOSITION HAVING REDUCED	2019/02/14
	FLAVOR SCALPING PROPERTIES	
2019/01097	AMINO PYRIMIDINE SSAO INHIBITORS	2019/02/20
2019/01387	PROCESS FOR ACTIVATION AND OPERATION OF A	2019/03/05
	HYDROCARBON UPGRADING CATALYST	
2019/01397	METHOD AND APPARATUS FOR CONTROLLING SEMI-	2019/03/06
	PERSISTENT SCHEDULING	
2019/01493	SYSTEM AND METHOD FOR POWER PRODUCTION	2019/03/11
0040/04700		0040/00/00
2019/01/39		2019/03/20
	USE INEKEFUK	

Application Number	Patent Title	Filing Date
2019/01903	METHOD FOR MARKING AND AUTHENTICATING DIAMONDS AND PRECIOUS STONES	2019/03/27
2019/01928	HEATING APPLIANCE	2019/03/28
2019/01974	A SYSTEM FOR REAL TIME DETERMINATION OF PARAMETERS OF AN AIRCRAFT	2019/03/29
2019/02286	IMPROVED METHODS FOR MANUFACTURING ADOPTIVE CELL THERAPIES	2019/04/11
2019/02742	SPIRAL CONVEYOR SYSTEM	2019/05/02
2019/02939	ANTI-GITR ANTIGEN-BINDING PROTEINS AND METHODS OF USE THEREOF	2019/05/10
2019/03432	ORAL CARE COMPOSITIONS AND METHODS OF USE	2019/05/29
2019/03986	A HYDROKINETIC POWER GENERATOR	2019/06/19
2019/04121	NOVEL BICYCLIC NUCLEOSIDES AND OLIGOMERS PREPARED THEREFROM	2019/06/25
2019/04216	THERMAL COLLECTING FILM FOR SOLAR THERMAL POWER GENERATION AND MANUFACTURING METHOD FOR SAME	2019/06/27
2019/04639	SANITARY SHOWER DEVICE	2019/07/16
2019/04694	MEDICAL DEVICE FOR THE TREATMENT OF HPV CUTANEOUS INFECTIONS	2019/07/17
2019/04717	THERAPEUTIC HPV18 VACCINES	2019/07/18
2019/04795	PROCESS FOR OLIGOMERIZATION OF BUTENE WITH DETERMINATION OF THE PROPORTION OF ACIDIC CATALYSIS	2019/07/22
2019/04956	BITUMINIOUS EMULSIONS CONTAINING STEROL ADDITIVE FOR ASPHALT PAVEMENT	2019/07/29
2019/05214	A HYDROSTATICALLY COMPENSATED COMPRESSED GAS ENERGY STORAGE SYSTEM	2019/08/07
2019/05435	METHOD FOR PURIFYING WATER	2019/08/16
2019/05641	AN INTEGRATED BOLT ROTATOR AND GROUT NOZZLE DEVICE FOR USE IN A MECHANISED BOLTING APPLICATION	2019/08/27
2019/05788	NOISE CANCELLATION USING SEGMENTED, FREQUENCY-DEPENDENT PHASE CANCELLATION	2019/09/02
2019/05887	CONTAINER WITH CORRUGATIONS	2019/09/06
2019/05952	NOZZLE FOR SPRAYING LIQUID POLYMER PREPARATIONS AND SPRAYING METHOD UTILIZING THE NOZZLE	2019/09/10
2019/06465	COMPOSITIONS AND METHODS FOR TREATING DRY EYE DISEASES	2019/10/01
2019/07212	A SWIVEL REAR SEAT ASSEMBLY FOR VEHICLES	2019/11/01
2019/07297	COMPOSITE RESINS CONTAINING SILVER NANOPARTICLES	2019/11/04
2019/07356	TUBULAR NUT FOR A ROCK BOLT	2019/11/06
2019/07636	REAL-TIME DATA ACQUISITION AND RECORDING SYSTEM VIEWER	2019/11/14
2019/07661	PHARMACEUTICAL FORMULATIONS OF A BRUTON'S TYROSINE KINASE INHIBITOR	2019/11/19
2019/07861	PACK OF TOBACCO INDUSTRY PRODUCTS	2019/11/27
2019/08004	DOWNLINE WIRE	2019/12/02
2019/08140	TOE-BOARD MOUNT FOR SCAFFOLDING	2019/12/09

Application Number	Patent Title	Filing Date
2019/08236	MIP3a-FGFR1-PD1/Fc FUSION PROTEIN AND NUCLEIC ACID MOLECULE AND APPLICATION THEREOF MIP3a- FGFR1-PD1/Fc	2019/12/11
2019/08447	BACITRACIN AND/OR DAPTOMYCIN COMBINED WITH CANNABIDIOL FOR TREATMENT OF BACTERIAL INFECTIONS	2019/12/18
2020/00526	BED DEVICE	2020/01/27
2020/00560	POLYETHER DERIVATIVES, USES, AND METHODS OF MAKING THE SAME	2020/01/28
2020/00599	FOLDED INDIVIDUAL ARTICLE IN A CIRCULAR PACKAGE	2020/01/29
2020/00619	NON-AQUEOUS, NON-OIL LIVE MICROBIAL COMPOSITIONS	2020/01/30
2020/01108	PCT AND PRO-ADM AS MARKERS FOR MONITORING ANTIBIOTIC TREATMENT	2020/02/21
2020/01339	METHOD AND APPARATUS FOR GROWING VEGETATION	2020/03/02
2020/01581	FORMULATIONS AND METHODS FOR TREATING PHOTOSYNTHETIC ORGANISMS AND ENHANCING QUALITIES AND QUANTITIES OF YIELDS WITH GLYCAN COMPOSITE FORMULATIONS	2020/03/13
2020/01695	PROCESS CONTROL SYSTEMS AND METHODS FOR USE WITH FILTERS AND FILTRATION PROCESSES	2020/03/18
2020/02044	MONOCLONAL ANTIBODY TO IL-5R?	2020/05/04
2020/02047	ANTIBODIES SPECIFIC TO CD47 AND PD-L1	2020/05/04
2020/02354	COMBINED LOW-COGGING-FORCE PERMANENT MAGNET LINEAR MOTOR AND IMPLEMENTATION METHOD THEREOF	2020/05/04
2020/02512	SHAPED FENCE	2020/05/07
2020/02517	COMPOUNDS AND METHODS FOR REDUCING SNCA EXPRESSION	2020/05/07
2020/02874	A METHOD OF FORMING GROUPS OF SMOKING ARTICLES	2020/05/18
2020/03174	CRUSHER COMPRISING REPLACEABLE PROTECTIVE LINERS	2020/05/28
2020/03175	ANIMAL INTRANASAL ADMINISTRATION DEVICE, SYSTEMS, AND ASSOCIATED METHODS	2020/05/28
2020/03464	GRILL ACCESSORY	2020/06/09
2020/03612	ENGINEERED IMMUNOGLOBULINS WITH ALTERED FCRN BINDING	2020/06/17
2020/03641	ANTIBODIES BINDING CTLA-4 AND USES THEREOF	2020/06/17
2020/03643	COMPOSITION AND METHOD FOR CONFERRING AND/OR ENHANCING TOLERANCE AGAINST HERBICIDES BY USING VARIANTS OF PPO	2020/06/17
2020/03661	A PUBLICLY ACCESSIBLE URBAN BEACH ENTERTAINMENT COMPLEX WITH A CENTERPIECE MAN-MADE TROPICAL-STYLE LAGOON AND METHOD FOR PROVIDING EFFICIENT UTILIZATION OF LIMITED USE LAND	2020/06/18
2020/03662	PPAR AGONISTS, COMPOUNDS, PHARMACEUTICAL COMPOSITIONS, AND METHODS OF USE THEREOF	2020/06/18

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2020/03663	PPAR AGONISTS, COMPOUNDS, PHARMACEUTICAL COMPOSITIONS, AND METHODS OF USE THEREOF	2020/06/18
2020/03664	PPAR AGONISTS, COMPOUNDS, PHARMACEUTICAL COMPOSITIONS, AND METHODS OF USE THEREOF	2020/06/18
2020/03686	ELECTRODE FOR ELECTROCHLORINATION PROCESSES	2020/06/18
2020/03742	ANTI-LAG3 ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS	2020/06/22
2020/04116	A CONCRETE STARTER BAR RETENTION AND LOCATING DEVICE, SYSTEMS AND METHODS COMPRISING THE SAME	2020/07/06
2020/04231	GOLF ACCESSORY	2020/07/10
2020/04654	WIRE COIL AND INNERSPRING SYSTEM	2020/07/27
2020/04707	SYSTEMS, METHODS AND APPARATUS FOR STEERING OF ENERGY DEPOSITION IN DEEP REGIONAL HYPERTHERMIA	2020/07/29
2020/04757	IMPROVED IMMUNOGLOBULIN VARIABLE DOMAINS	2020/07/31
2020/04758	IMPROVED IMMUNOGLOBULIN VARIABLE DOMAINS	2020/07/31
2020/04759	IMPROVED IMMUNOGLOBULIN VARIABLE DOMAINS	2020/07/31
2020/04893	MATERIALS	2020/08/07
2020/04938	A METHOD AND AN APPARATUS FOR SEARCHING OR COMPARING SITES USING ROUTES OR ROUTE LENGTHS BETWEEN SITES AND PLACES WITHIN A TRANSPORTATION SYSTEM	2020/08/11
2020/05133	DEVICE AND SYSTEM FOR GENERATING POWER BY MEANS OF WAVE ENERGY	2020/08/19
2020/05145	METHOD AND SYSTEM FOR PRODUCING MARKET PULP AND PRODUCTS THEREOF	2020/08/19
2020/05191	BABY MONITOR ASSEMBLY	2020/08/20
2020/05222	HAIR TREATMENT COMPOSITIONS COMPRISING REDUCING AGENTS	2020/08/21
2020/05372	PAYMENT SYSTEM AND METHOD	2020/08/28
2020/05389	VARIABLE AIR FILTER ASSEMBLIES	2020/08/28
2020/05485	COMBINED MEASURING DEVICE FOR LOAD-FREE EXPANSION RATE AND EXPANSIVE FORCE OF EXPANSIVE SOIL	2020/09/02
2020/05649	SPRUNG COUPLING	2020/09/11
2020/05650	SPRUNG COUPLING	2020/09/11
2020/05652	SPRUNG COUPLING	2020/09/11
2020/05655	SANITISER	2020/09/11
2020/05981	INSECTICIDAL PROTEINS FROM PLANTS AND METHODS FOR THEIR USE	2020/09/28
2020/05982	INSECTICIDAL PROTEINS FROM PLANTS AND METHODS FOR THEIR USE	2020/09/28
2020/06156	MICRO-INTERFACE STRENGTHENING REACTION SYSTEM AND METHOD FOR PREPARING SHIP FUEL BY MEANS OF HEAVY OIL HYDROGENATION	2020/10/05
2020/06157	PHARMACEUTICAL COMPOSITION OF KOR RECEPTOR AGONIST	2020/10/05
2020/06445	METHOD FOR SEPARATING A COMPONENT MIXTURE AND SEPARATING DEVICE	2020/10/16

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2020/06544	ROLLER BEARING SEAL ASSEMBLY AND A COMPONENT THEREOF	2020/10/21
2020/06582	DRILLING FLUIDS AND USES THEREOF	2020/10/22
2020/06610	COMPOSITIONS FOR THE TREATMENT OF SKIN CONDITIONS	2020/10/23
2020/06703	KIT AND METHOD FOR MODIFYING A LOCOMOTIVE	2020/10/28
2020/06704	PROCEDURE AND INSTALLATION FOR LOADING BOREHOLES WITH BULK WATER-BASED SUSPENSION OR WATERGEL TYPE EXPLOSIVES	2020/10/28
2020/06749	NOVEL WETTING COMPOSITION	2020/10/29
2020/06762	IMPROVED WETTING COMPOSITION	2020/10/29
2020/06802	SYSTEM AND METHOD FOR MANUFACTURING FITTINGS AND CONNECTIONS FOR BIAXIALLY- ORIENTED PLASTIC PIPES	2020/10/30
2020/07027	NOVEL MODULATOR OF METABOTROPIC AND IONOTROPIC TRANSMEMBRANE RECEPTORS AND USE THEREOF	2020/11/11
2020/07055	COMPOSITIONS FOR THE TREATMENT OF SKIN CONDITIONS	2020/11/12
2020/07301	GLAND SERVICE REGULATOR	2020/11/24
2020/07317	METHODS OF TREATING PATIENTS AT RISK FOR RENAL INJURY AND RENAL FAILURE	2020/11/24
2020/07341	OPERATOR VEHICLE WITH ASSISTED CENTRING DEVICE	2020/11/25
2020/07618	METHOD FOR TESTING INTERFACIAL STRENGTH OF BROKEN COAL MASS REINFORCED BY GROUTING	2020/12/07
2020/07670	DEVICE FOR DISPLAYING IMAGES FOR STANDS OR STAIRWAYS	2020/12/09
2020/07744	CONVEYOR BELT STRIPPING DEVICE AND DISPLACEMENT GUIDE FOR THE SAME	2020/12/11
2020/07865	STABILIZED WATER FLOW CONTROL GROUND COVER	2020/12/17
2020/07918	ANTI-CD123 ANTIBODIES AND CONJUGATES AND DERIVATIVES THEREOF	2020/12/18
2020/07989	FUNGICIDES TO PREVENT AND CONTROL FUNGAL PATHOGENS	2020/12/21
2020/08030	COMBINATION OF FACTOR VII AND A BISPECIFIC ANTI- FACTOR IX AND X ANTIBODY	2020/12/22
2021/00020	COVER FOR BOTTLE, BOTTLE COMPRISING COVER AND METHODS	2021/01/04
2021/00069	SORBENT COMPOSITION FOR AN ELECTROSTATIC PRECIPITATOR	2021/01/05
2021/00077	CARTRIDGE MONITORING SYSTEM	2021/01/05
2021/00085	COMPOSITION AND METHOD FOR INCREASING THE CONTENT OF GLUCOSINOLATES IN ADULT PLANTS OF THE GENUS BRASSICA	2021/01/06
2021/00096	SAVOURY LIQUID CONCENTRATE	2021/01/06
2021/00099	RANDOM FOREST INTEGRATION METHOD BASED ON FEATURE MAPPING LAYER AND ENHANCEMENT LAYER STRUCTURES	2021/01/06
2021/00106	METHODS OF TREATING AND/OR PREVENTING ACTINIC KERATOSIS	2021/01/07

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2021/00111	SYSTEM FOR DETERMINING THE STATUS OF A GAS CYLINDER	2021/01/07
2021/00116	METHOD AND DEVICE FOR DETERMINING THE PARTICLE EMISSION COEFFICIENT AND POTENTIAL OF A MATERIAL, AND METHOD FOR CONTROLLING A FLOW PATH	2021/01/07
2021/00117	METHODS AND COMPOSITIONS FOR RECOVERY OF LITHIUM FROM LIQUID SOLUTIONS WITH NANOPARTICLES	2021/01/07
2021/00126	HYBRID CATALYSTS COMPRISING A MIXED METAL OXIDE COMPONENT FOR PRODUCTION OF C2 AND C3 HYDROCARBONS	2021/01/07
2021/00194	EXPANDABLE FIRE-FIGHTING FOAM SYSTEM, COMPOSITION, AND METHOD OF MANUFACTURE	2021/01/12
2021/00195	PURINONE COMPOUNDS AND THEIR USE IN TREATING CANCER	2021/01/12
2021/00204	COLOR STABILIZATION OF MONOMERS AND OTHER REACTANTS FOR FORMING BIO-BASED POLYMERS	2021/01/12
2021/00206	GRINDER FOR GRINDING MATERIAL TO BE GROUND	2021/01/12
2021/00207	BENEFIT AGENT DELIVERY PARTICLES	2021/01/12
2021/00222	PREFABRICATED WALL AND ASSEMBLY STRUCTURE FOR PREFABRICATED BUILDING, AND CONSTRUCTION METHOD THEREFOR	2021/01/13
2021/00232	RIPPER SHANK POCKET WITH WEAR INSERTS	2021/01/13
2021/00269	LOW ENDOTOXIN FUCAN COMPOSITIONS, SYSTEMS AND METHODS	2021/01/14
2021/00270	HIGH-MOLECULAR-WEIGHT FUCANS FOR TREATING FIBROUS ADHESIONS AND OTHER DISEASES AND CONDITIONS	2021/01/14
2021/00271	HIGHLY SULFATED FUCANS FOR THE TREATMENT OF FIBROUS ADHESIONS	2021/01/14
2021/00272	HIGHLY PURIFIED FUCANS FOR THE TREATMENT OF FIBROUS ADHESIONS	2021/01/14
2021/00273	METHOD FOR PREDICTING A MOLECULAR WEIGHT DISTRIBUTION OF A BIOPOLYMER BLEND	2021/01/14
2021/00274	SYSTEMS AND METHODS FOR TANGENTIAL FLOW FILTRATION OF VISCOUS COMPOSITIONS	2021/01/14
2021/00275	HIGHLY PURIFIED AND/OR MODIFIED FUCAN COMPOSITIONS FOR THE TREATMENT OF FIBROUS ADHESIONS	2021/01/14
2021/00294	BALL AND CUP IMPACTORS FOR IMPLANTING A HIP PROSTHESIS	2021/01/15
2021/00295	BALL AND CUP IMPACTORS FOR IMPLANTING A HIP PROSTHESIS	2021/01/15
2021/00322	POLYTUNNEL STRUCTURE	2021/01/15
2021/00325	BODY SUPPORT CUSHION WITH VENTILATION SYSTEM	2021/01/15
2021/00326	NEGATIVE ELECTRODES FOR ELECTROCHEMICAL CELLS	2021/01/15
2021/00340	A RECONFIGURABLE FIXTURE, A RECONFIGURABLE FIXTURE SYSTEM, AND A METHOD OF OPERATING A RECONFIGURABLE FIXTURE SYSTEM	2021/01/18

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2021/00341	A RECONFIGURABLE FIXTURE, A RECONFIGURABLE FIXTURE SYSTEM, AND A METHOD OF OPERATING A RECONFIGURABLE FIXTURE SYSTEM	2021/01/18
2021/00351	ANODE FOR ELECTROLYTIC EVOLUTION OF CHLORINE	2021/01/18
2021/00353	TREATMENT METHOD AND APPARATUS WITH A SYSTEM FOR CONTROLLING THE FLOW OF THE GASEOUS MEDIUM	2021/01/18
2021/00388	AN EXHAUST SYSTEM	2021/01/19
2021/00389	CLOSE PROXIMITY NOZZLE SYSTEM	2021/01/19
2021/00392	A SUTURE MEMBER, SUTURING NEEDLE AND SUTURING DEVICE	2021/01/19
2021/00393	VEHICLE TELEMATICS OF VEHICLE CRASHES	2021/01/19
2021/00424	COLLOIDAL BARRIER MATERIALS AND METHODS OF MAKING AND USING THE SAME	2021/01/20
2021/00428	AN EXERCISE APPARATUS AND METHOD THEREOF	2021/01/20
2021/00429	UE AND COMMUNICATION METHOD FOR SAME	2021/01/20
2021/00437	PLANT SUBSTRATE GROWING MEDIUM	2021/01/21
2021/00442	BICYCLIC PEPTIDE LIGANDS SPECIFIC FOR NECTIN-4	2021/01/21
2021/00480	LUMA INTRA MODE SIGNALING	2021/01/22
2021/00484	CRYSTAL OF BENZOXAZOLE DERIVATIVE	2021/01/22
2021/00527	INFUSION BAG	2021/01/25
2021/00528	ACID GAS TREATMENT	2021/01/25
2021/00531	A NON-DETONATING CARTRIDGE	2021/01/25
2021/00532	HEAT AND MATERIAL EXCHANGER	2021/01/25
2021/00547	NOVEL CLOVE-CONTAINING AEROSOL-GENERATING SUBSTRATE	2021/01/26
2021/00572	USER TERMINAL	2021/01/26
2021/00573	HAIR CLEANSING COMPOSITION	2021/01/26
2021/00603	ENHANCED MOISTURIZER DEPOSITION IN CLEANSING LIQUIDS CONTAINING HYDROPHOBICALLY OR NON- HYDROPHOBICALLY MODIFIED ANIONIC POLYMERS	2021/01/27
2021/00605	THERMOCLINE CONTROL METHOD	2021/01/27
2021/00628	WEAR SENSING LINER	2021/01/28
2021/00630	FUNCTIONALIZED INORGANICS FOR IMPROVED DELIVERY OF BENEFIT AGENTS TO A FABRIC	2021/01/28
2021/00646	GENETICALLY ENGINEERED BACTERIUM COMPRISING ENERGY-GENERATING FERMENTATION PATHWAY	2021/01/29
2021/00649	STERILE CHROMATOGRAPHY RESIN AND USE THEREOF IN MANUFACTURING PROCESSES	2021/01/29
2021/00703	COMPOSITIONS AND METHODS FOR TREATING INFLAMMASOME RELATED DISEASES OR CONDITIONS	2021/02/01
2021/00719	MULTISIGNAL AUDIO CODING USING SIGNAL WHITENING AS PREPROCESSING	2021/02/02
2021/00722	HIGHLY POROUS LUBRICANT CONDITIONING AND REMEDIATION MEDIA	2021/02/02
2021/00729	BIDIRECTIONAL WIRELESS DETONATOR SYSTEM	2021/02/02
2021/00762	ENERGY STORAGE SYSTEM AND METHOD	2021/02/03
2021/00764	DISTRIBUTED HEATING AND COOLING NETWORK	2021/02/03
2021/00765	CRYSTALLINE EPINEPHRINE MALONATE SALT	2021/02/03
2021/00792	DETERGENT	2021/02/04

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2021/00793	CONTOUR-FORMING WELDING TOOL FOR PULSE WELDING AND CONTOUR-FORMING PULSE WELDING METHOD FOR A MEDICAL PACK FORMED AS A BAG	2021/02/04
2021/00794	LATE SV40 FACTOR (LSF) INHIBITORS	2021/02/04
2021/00815	APPARATUS AND METHOD FOR CONTROLLED ALUMINA SUPPLY	2021/02/05
2021/00843	CONJUGATE FOR TREATING CANCER	2021/02/08
2021/00976	A GABAA RECEPTOR LIGAND	2021/02/12
2021/01006	PROCESS FOR THE PREPARATION OF METHYL 6-(2,4- DICHLOROPHENYL)-5-[4-[(3S)-1-(3- FLUOROPROPYL)PYRROLIDIN-3-YL]OXYPHENYL]-8,9- DIHYDRO-7H-BENZO[7]ANNULENE-2-CARBOXYLATE	2021/02/15
2021/01051	ANTIBODIES BINDING TO CITRULLINATED HISTONE 2A AND/OR 4	2021/02/16
2021/01080	METHOD OF INDUCING SELECTIVE PROSTATE GLANDULAR PHARMACO-ABLATION WITH SPARING OF NERVES AND PRESERVATION OF SEXUAL FUNCTION	2021/02/17
2021/01187	METHODS AND APPARATUS FOR WIRELESS TRANSMIT/RECEIVE UNIT (WTRU) POWER CONTROL	2021/02/22
2021/01418	EXTERNAL GROUTING COMPENSATORY STRUCTURE OF HOLE SEALING AND METHOD FOR GAS EXTRACTION BOREHOLES	2021/03/02
2021/01424	USER TERMINAL AND RADIO COMMUNICATION METHOD	2021/03/02
2021/01434	TPMS TRANSMITTER FIXING STRUCTURE AND ASSEMBLING STRUCTURE	2021/03/02
2021/01438	HYDRAULIC CUTTING DRILL HOLE CINDER CONVEYING AND SEPARATING DEVICE	2021/03/03
2021/01442	FUSED OVERLAY PLATE AND METHOD	2021/03/03
2021/01458	NON-VOLATILE RESISTIVE RANDOM ACCESS MEMORY AND A MANUFACTURING METHOD THEREFOR	2021/03/03
2021/01459	LACTAM COATED TEXTILE	2021/03/03
2021/01460	AN ANTIPERSPIRANT COMPOSITION	2021/03/03
2021/01463	WIPE	2021/03/03
2021/01464	MOUSSE COMPOSITION	2021/03/03
2021/01474	TRACK JOINT ASSEMBLY AND TRACK LINK HAVING WEAR BAND STRUCTURED FOR ANTI-SCALLOPING	2021/03/03
2021/01490	1-METHYL-4-[(4- PHENYLPHENYL)SULFONYLMETHYL]CYCLOHEXYANOL AND 1-METHYL-4-[[4-(2- PYRIDYL)PHENYL]SULFONYLMETHYL]CYCLOHEXANOL COMPOUNDS AND THEIR THERAPEUTIC USE	2021/03/04
2021/01520	COMPOUND CONTAINING OXADIAZOLE, AND PHARMACEUTICAL COMPOSITION CONTAINING SAME	2021/03/05
2021/01544	IMPROVED DESIGN OF AN ETHYLENE OLIGOMERIZATION/TRIMERIZATION/TETRAMERIZATION REACTOR	2021/03/08
2021/01563	A METHOD AND AN APPARATUS FOR CLEANING THE AIR	2021/03/08
2021/01564	RED COLORANT FREE OF COCHINEAL RED AND COMPOSITIONS COMPRISING THE SAME	2021/03/08

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2021/01566	COSMETIC COMPOSITIONS COMPRISING LOW MOLECULAR WEIGHT SILK FIBROIN	2021/03/08
2021/01567	CONNECTION SYSTEM FOR A MARINE DRILLING RISER	2021/03/08
2021/01569	IMAGE ENCODING/DECODING METHOD AND DEVICE USING INTRA PREDICTION	2021/03/08
2021/01586	FUEL COMPOSITIONS	2021/03/09
2021/01626	A HYBRID ACCOMMODATING INTRA-OCULAR LENS AND METHOD OF USE THEREOF	2021/03/10
2021/01629	MONO ROLLER GRINDING MILL	2021/03/10
2021/01632	IMAGE COMPONENT PREDICTION METHOD, ENCODER, DECODER, AND STORAGE MEDIUM	2021/03/10
2021/01633	LIP SEAL	2021/03/10
2021/01634	TRACK LINK FOR A TRACK JOINT ASSEMBLY HAVING WEAR BAND WITH LENGTHWISE-VARIED HARDNESS	2021/03/10
2021/01680	DIRECT ENHANCED VIEW OPTIC	2021/03/12
2021/01694	PALLET CONSISTING OF PLASTIC WITH A TOP, A LOWER PART AND REINFORCEMENT MEMBERS	2021/03/12
2021/01758	METHODS FOR SYTHESIS OF OXYPICOLINAMIDES	2021/03/16
2021/01790	BEAM -CONTROLLED SPECTRAL-SELECTIVE ARCHITECTURE FOR A RADIATIVE COOLER	2021/03/17
2021/01797	HAIR TREATMENT COMPOSITIONS, METHODS, AND KITS FOR TREATING HAIR	2021/03/17
2021/01822	BORON CONTAINING PDE4 INHIBITORS	2021/03/18
2021/01836	COMPOSITIONS CONTAINING LINOLEIC ACID	2021/03/18
2021/01843	COMMUNICATION METHOD AND RELATED DEVICE	2021/03/18
2021/01867	MODIFIED LIGAND-GATED ION CHANNELS AND METHODS OF USE	2021/03/19
2021/01890	DECODING METHOD AND DECODING APPARATUS FOR PREDICTING MOTION INFORMATION	2021/03/19
2021/01894	ANTI-PD-1 AND ANTI-VEGFA BIFUNCTIONAL ANTIBODY, PHARMACEUTICAL COMPOSITION THEREOF AND USE THEREOF	2021/03/19
2021/01895	METHOD AND SYSTEM FOR ELECTRONIC WARFARE OBSCURATION AND SUPPRESSION OF ENEMY DEFENSES	2021/03/19
2021/01900	COSMETIC TREATMENT PROCESS	2021/03/19
2021/01901	BACILLUS AMYLOLIQUEFACIENS FCC1256 COMPOSITIONS AND METHODS OF CONTROLLING PLANT PATHOGENS	2021/03/19
2021/01923	ELECTRICITY METER THERMAL PERFORMANCE MONITORING	2021/03/23
2021/01927	INJECTION SPRING FOR AGED PREFILLED SYRINGE AND AUTO INJECTOR	2021/03/23
2021/02025	A REACTOR ASSEMBLY	2021/03/25
2021/02039	PHARMACEUTICAL COMPOSITIONS COMPRISING RPL554 IN HFA-134A FOR ADMINISTRATION BY INHALATION	2021/03/25
2021/02057	VILLANOVA ULTRA EFFICIENT VERTICAL WINDMILL SYSTEM AND METHOD	2021/03/26
2021/02065	SOLID COMPOSITION FOR AGRICULTURAL AND VETERINARY USE	2021/03/26

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2021/02069	METHOD FOR PEAK TO AVERAGE POWER REDUCTION OF DM-RS SIGNALS	2021/03/26
2021/02072	CLASSIFYING VIBRATIONS	2021/03/26
2021/02080	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	2021/03/26
2021/02091	METHOD AND SYSTEM FOR EQUALIZING IN VISIBLE LIGHT COMMUNICATION BASED ON SPARSE BAYESIAN LEARNING	2021/03/29
2021/02092	PHARMACEUTICAL COMPOSITION COMPRISING RIVAROXABAN AND METHOD OF PREPARATION THEREOF	2021/03/29
2021/02104	DOUBLE-STRANDED RIBONUCLEIC ACID INHIBITING EXPRESSION OF COMPLEMENT C5	2021/03/29
2021/02109	IMPROVED PLANT FOR THE TREATMENT OF VEGETABLE PRODUCTS	2021/03/29
2021/02142	OPTICAL NETWORK TERMINATION BOX	2021/03/30
2021/02147	A SYSTEM FOR REMOVING FLOATING DEBRIS IN AN OPEN WATER CHANNEL	2021/03/30
2021/02182	IMPROVED LIGHT FOR UNDERGROUND MINING AND SYSTEM FOR TRACKING UNDERGROUND ASSETS	2021/03/31
2021/02193	METHOD AND SYSTEM FOR CONTROLLING SUCTION OF OFF-GASES FROM ELECTROLYSIS CELLS	2021/03/31
2021/02230	FIRE COLUMN	2021/04/01
2021/02262	AN ELECTRIC POWER GENERATOR COMPRISING TWO STATORS AND A ROTOR	2021/04/06
2021/02263	ORAL FORMULATIONS OF KAPPA OPIOID RECEPTOR AGONISTS	2021/04/06
2021/02353	CONJUGATION LINKERS CONTAINING 2,3- DIAMINOSUCCINYL GROUP	2021/04/09
2021/02381	MACROPHAGE CAPABLE OF TARGETING TUMOR CELL AND PREPARATION METHOD THEREOF	2021/04/12
2021/02405	BELLOW	2021/04/13
2021/02420	METHOD FOR MEASURING GEOMETRIC DISCREPANCIES BETWEEN THE CURVED SURFACES OF A PLURALITY OF MATERIALS THAT ARE TO BE EVALUATED AND A CURVED SURFACE OF A REFERENCE MATERIAL	2021/04/13
2021/02436	DOWNHOLE DEVICE DELIVERY AND ASSOCIATED DRIVE TRANSFER SYSTEM AND METHOD OF DELIVERING A DEVICE DOWN A HOLE	2021/04/14
2021/02441	FIRE SUPPRESSION FLUID CONTAINING A CARBOXYLATE SALT	2021/04/07
2021/02445	VEHICULAR GLASS MODULE	2021/04/14
2021/02543	PROSTHETIC HEART VALVE HAVING NON- CYLINDRICAL FRAME	2021/04/16
2021/02603	METHOD FOR CERTIFYING DELIVERY OF ELECTRONIC MESSAGES	2021/04/20
2021/02607	METHOD FOR CERTIFYING AN ELECTRONIC MAIL COMPRISING A TRUSTED DIGITAL SIGNATURE BY A TELECOMMUNICATIONS OPERATOR	2021/04/20

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2021/02608	IMPROVED FOAMING BEHAVIOUR OF POLYMER COMPOSITIONS USING BLOWING AGENT AND NUCLEATION AGENT	2021/04/20
2021/02663	A METHOD AND EQUIPMENT FOR STORING AND TRANSPORTING HOT GAS EMITTING COMPONENTS	2021/04/21
2021/02678	A SYSTEM AND METHOD FOR IMPUTING MISSING DATA IN A DATASET, A METHOD AND SYSTEM FOR DETERMINING A HEALTH CONDITION OF A PERSON, AND A METHOD AND SYSTEM OF CALCULATING AN INSURANCE PREMIUM	2021/04/21
2021/02686	GENERATION OF REPRESENTATIVE DATA TO PRESERVE MEMBERSHIP PRIVACY	2021/04/22
2021/02689	DISPOSABLE PROTECTIVE GEAR	2021/04/22
2021/02705	ANTI-OXIDATION HEAT-RESISTANT ALLOY AND PREPARATION METHOD	2021/04/22
2021/02706	PUMP ASSEMBLY	2021/04/22
2021/02725	GENERATIVE ONTOLOGY LEARNING AND NATURAL LANGUAGE PROCESSING WITH PREDICTIVE LANGUAGE MODELS	2021/04/23
2021/02726	A WALL AND METHOD OF MANUFACTURING SAME	2021/04/23
2021/02731	IMPROVED FOAMING BEHAVIOUR OF POLYMER COMPOSITIONS USING PASSIVE NUCLEATION	2021/04/23
2021/02761	MEDIAHUB FOR CONTROLLING AND MONITORING THE DISTRIBUTION OF TARGETED ASSETS	2021/04/23
2021/02774	ACTIVATION OF GROUND GRANULATED BLAST FURNACE SLAG	2021/04/26
2021/02798	FILTERABLE DUOCARMYCIN-CONTAINING ANTIBODY- DRUG CONJUGATE COMPOSITIONS AND RELATED METHODS	2021/04/26
2021/02807	Door Assembly	2021/04/28
2021/02826	ENZYMATIC PRODUCTION OF HEXOSES	2021/04/28
2021/02872	OPHTHALMIC COMPOSITIONS AND METHODS FOR THE TREATMENT OF SKIN DISEASES AND EYE DISEASES	2021/04/29
2021/02889	METHOD FOR THE ADDITIVE MANUFACTURING OF A COMPONENT	2021/04/29
2021/02893	MULTI-DIRECTIONALLY AND FLEXIBLY BENDING AND LOCKING OPERATION APPARATUS	2021/04/29
2021/02894	PARAQUAT FORMULATION	2021/04/29
2021/02946	CARTRIDGE AMMUNITION AND METHOD OF MANUFACTURING SAME	2021/04/30
2021/02964	APPARATUS, METHOD AND PROCESS FOR THE RECOVERY OF MINERALS	2021/05/03
2021/02965	ENZYME COMPLEX-PRODUCING BACILLUS SUBTILIS (B. SUBTILIS) STRAIN Q3, AND CULTIVATION METHOD AND USE THEREOF	2021/05/03
2021/02969	MULTI-FUNCTIONAL BEAM FOR FORMWORK, SUPPORT WORK AND SCAFFOLDING RELATED APPLICATIONS	2021/05/03
2021/02972	PROSTHETIC HEART VALVE HAVING COMMISSURE SUPPORT ELEMENT	2021/05/03
2021/02991	SILICIC ACIDS FOR USE IN THE TREATMENT OF PERIODONTITIS	2021/05/04

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2021/03006	SURGICAL ROBOT BASED ON BALL AND SOCKET JOINT AND TACTILE FEEDBACK, AND CONTROL DEVICE THEREOF	2021/04/30
2021/03015	A COMPUTER IMPLEMENTED SYSTEM FOR PROVIDING AN AUTOMATED COMPARATIVE INSURANCE QUOTE TO A USER	2021/05/05
2021/03017	PUMPING ASSEMBLY AND PUMP INCLUDING SUCH ASSEMBLY	2021/05/05
2021/03024	METHOD AND APPARATUS FOR SUPPORTING EVENT MONITORING	2021/05/05
2021/03033	SCOPOLAMINE PRODUCTION	2021/05/05
2021/03053	RIBBED COAL SLEEVE	2021/05/06
2021/03077	ELECTRONIC DEVICE IDENTIFICATION	2021/05/03
2021/03096	MINE ROOF SUPPORT	2021/05/07
2021/03102	ELECTROSTATIC SPRAY DRYER SYSTEM	2021/05/07
2021/03124	INSULATING HOLDER AND METHOD FOR TRANSPORTING BEVERAGES	2021/05/10
2021/03140	A BIODEGRADABLE POLYMERIC SUBSTRATE AND A METHOD OF PRODUCING THE SUBSTRATE	2021/05/10
2021/03156	EFFICIENT SEPARATION, RECYCLING TREATMENT AND CYCLIC UTILIZATION TEST METHOD FOR COAL- WATER-GAS MIXTURE	2021/05/10
2021/03176	INSECT POWDER FOR PREVENTING SKELETAL DEFORMITIES IN FISH AND/OR INCREASING THE STRENGTH OF A FISH BONE DURING FARMING	2021/05/11
2021/03189	GUSSETED FLEXIBLE CONTAINER	2021/05/11
2021/03191	METHOD FOR PREPARING CELLULOSE NANOCRYSTALS BASED ON MICROFLUIDIC CHIP	2021/05/11
2021/03206	OPTIMIZING CAPACITY AND LEARNING OF WEIGHTED REAL-VALUED LOGIC	2021/05/12
2021/03208	A MEDICAL APPARATUS FOR A MOBILE DEVICE AND A KIT FOR A MOBILE DEVICE	2021/05/12
2021/03210	USE AND METHOD TO REDUCE DEPOSITS IN COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES	2021/05/12
2021/03213	RECYCLING OR PROCESSING OF LAYERED PACKAGING MATERIALS	2021/05/12
2021/03224	SYSTEMS, METHODS, AND AN APPARATUS FOR CONTROLLING A SLEEP ENVIRONMENT AND WAKING A SLEEPING PERSON	2021/05/12
2021/03252	ADVANCEMENT OF EXHAUSTION, MIGRATION, ADSORPTION AND FIXATION OF DYESTUFF TO THE CELLULOSE MATERIALS	2021/05/13
2021/03259	MODIFIED CAS9 PROTEIN, AND USE THEREOF	2021/05/13
2021/03278	CRYSTAL FORM OF MALEATE OF TYROSINE KINASE INHIBITOR AND PREPARATION METHOD THEREFOR	2021/05/14
2021/03282	VIDEO SIGNAL ENCODING AND DECODING METHOD, AND APPARATUS THEREFOR	2021/05/14
2021/03309	PHARMACEUTICAL COMPOSITION COMPRISING A COMBINATION OF SITAGLIPTIN AND METFORMIN AND METHOD OF PREPARATION THEREOF	2021/05/17

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2021/03317	AUTOMATED GENERATION OF MACHINE LEARNING MODELS	2021/05/17
2021/03347	THE METHOD OF EFFICIENT SIGNALLING OF CBF FLAGS	2021/05/18
2021/03350	ANTI-IGF-I RECEPTOR HUMANIZED ANTIBODY	2021/05/18
2021/03385	COMPUTER ENHANCEMENTS FOR INCREASING SERVICE GROWTH SPEED	2021/05/19
2021/03389	LIFTER BAR	2021/05/19
2021/03391	A CIRCUIT CHIP AND A METHOD OF OPERATING IT	2021/05/19
2021/03393	METHOD FOR PREPARING READILY PROCESSABLE, THERMALLY-STABLE, PHOSPHORUS-CONTAINING FLAME RETARDANT MATERIAL	2021/05/19
2021/03426	CYCLONIC AIR FILTRATION EQUIPMENT	2021/05/20
2021/03455	SPATIAL GUIDANCE SYSTEM FOR VISUALLY IMPAIRED INDIVIDUALS	2021/05/21
2021/03461	ROLLER SHAFT WITH A REINFORCEMENT	2021/05/21
2021/03521	COTTON-BASED ELASTICISED YARNS TO MAKE ENVIRONMENT-FRIENDLY ELASTICISED FABRICS	2021/05/24
2021/03541	CROP INPUT APPLICATION SYSTEMS, METHODS, AND APPARATUS	2021/05/25
2021/03571	AI-ASSISTED DETECTION AND PREVENTION OF UNWANTED NOISE	2021/05/26
2021/03572	MACHINE LEARNING MODELS OF LIVESTOCK VALUE CHAIN	2021/05/26
2021/03580	AMINOPEPTIDASE A INHIBITORS AND PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME	2021/05/26
2021/03581	NOVEL AMINOPHOSPHINIC DERIVATIVES AS AMINOPEPTIDASE A INHIBITORS	2021/05/26
2021/03599	PROCESS FOR PREPARING A COBALT-CONTAINING CATALYST PRECURSOR AND PROCESS FOR HYDROCARBON SYNTHESIS	2021/05/26
2021/03624	MULTIVARIATE AND OTHER METAL-ORGANIC FRAMEWORKS, AND USES THEREOF	2021/05/27
2021/03640	MECHANICAL PRODUCT FORMING AND PROOFING 3D PRINTER	2021/05/27
2021/03663	MULTICONFIGURATION DEVICE	2021/05/28
2021/03679	A BATTERY PACK AND A METHOD OF MANUFACTURING A BATTERY PACK	2021/05/28
2021/03758	METHOD OF VALIDATING A SHOCK TUBE EVENT	2021/06/01
2021/03759	ELECTRICAL SENSOR ASSEMBLY	2021/06/01
2021/03762	METHOD FOR PICTURE DECODING, DECODER, AND COMPUTER STORAGE MEDIUM	2021/06/01
2021/03771	A CRUSHER	2021/06/01
2021/03809	DRAINAGE GULLY SURROUND	2021/06/03
2021/03821	LANGUAGE AND COMPILER THAT GENERATE SYNCHRONOUS DIGITAL CIRCUITS THAT MAINTAIN THREAD EXECUTION ORDER	2021/06/03
2021/03822	FABRICATION OF A QUANTUM DEVICE	2021/06/03
2021/03905	METHOD OF DETERMINING RESPONSIVENESS TO CELL THERAPY IN DILATED CARDIOMYOPATHY	2021/06/07

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2021/03925	MOLECULAR MARKER FOR IDENTIFYING FUSARIUM CROWN AND ROOT ROT OF TOMATO AND USE THEREOF	2021/06/08
2021/03963	HOT-EXTRACTION PAPER	2021/06/09
2021/03998	LUBRICATION OF A WHEEL SUPPORT	2021/06/10
2021/04000	ORGANOPHOSPHORUS-SUBSTITUTED COMPOUNDS AS C-MET INHIBITORS AND THERAPEUTIC USES THEREOF	2021/06/10
2021/04013	QUINT-FOCAL DIFFRACTIVE INTRAOCULAR LENS	2021/06/10
2021/04025	EPOXY RESIN FLAME-RETARDED NANOCOMPOSITES AND PREPARATION METHOD THEREOF	2021/06/11
2021/04026	COTTON APHID MONITORING METHOD AND SYSTEM BASED ON SPECTRAL IMAGING AND DEEP LEARNING	2021/06/11
2021/04032	STABLE SOLID DISPERSION OF A B-RAF KINASE DIMER INHIBITOR, METHODS OF PREPARATION, AND USES THEREFORE	2021/06/11
2021/04071	MANUFACTURING METHODS FOR LONG-TERM STABILIZATION IN OVERALL THERMAL CONDUCTION OF BLOCK COOLERS WITH CAST-IN COOLANT PIPES	2021/06/14
2021/04135	LUBRICATING DEVICE FOR BEARINGS OF GEARBOX	2021/06/17
2021/04155	LOADING ARM ARRANGEMENT FOR A SWAP BODY VEHICLE FOR LOADING TRANSPORT CONTAINERS WITH A HOOK	2021/06/17
2021/04193	CARBON NANOMATERIAL FOR USE AS A CATALYST	2021/06/18
2021/04204	METHOD AND APPARATUS FOR CHROMA INTRA PREDICTION IN VIDEO CODING	2021/06/18
2021/04226	A MULTIPURPOSE GARMENT	2021/06/21
2021/04232	DUAL AXIS SOLAR TRACKING SYSTEM	2021/06/21
2021/04261	COMBINATION PHARMACEUTICAL COMPOSITIONS AND METHODS THEREOF	2021/06/21
2021/04279	SALIVARY PROTEOMIC BIOMARKERS FOR TUBERCULOSIS	2021/06/22
2021/04299	LOW DENSITY IRIDIUM AND LOW DENSITY STACKS OF IRIDIUM DISKS	2021/06/22
2021/04300	METHOD FOR MANUFACTURING AN INSULATION PRODUCT BASED ON MINERAL WOOL	2021/06/22
2021/04323	METHODS FOR SEPARATING REFERENCE SYMBOLS AND USER DATA IN A LOWER LAYER SPLIT	2021/06/23
2021/04394	PAPER-BASED GEL THREAD, PREPARATION METHOD THEREFOR AND CIGARETTE CONTAINING SAME	2021/06/25
2021/04401	TYROSINE INHIBITORS WITH IMMUNOSUPPRESSIVE ACTIVITY IN HUMAN NEONATAL KERATINOCYTE PROGENITORS	2021/06/25
2021/04477	LOCOMOTIVE MONOBLOCK WHEEL AND DESIGN METHOD THEREOF	2021/06/28
2021/04502	TRANSPORT AND RAIL INFRASTRUCTURE MONITORING SYSTEM	2021/06/29
2021/04596	APPARATUS FOR SECURING DEVICE TO TRANSMISSION LINES	2021/07/01
2021/04606	VITAMIN D MICRO-EMULSIONS AND USES THEREOF	2021/07/01
2021/04661	DEVICE FOR WINDING A FLEXIBLE TUBE	2021/07/05

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2021/04671	DISPOSABLE INHALATION DEVICE THAT RELEASES SMOKE WHICH IS NOT DIRECTLY INHALED	2021/07/05
2021/04732	WINE FILTRATION METHOD AND APPARATUS	2021/07/07
2021/04758	CABLE FEEDER AND DRILL RIG	2021/07/07
2021/04778	SUPER LARGE CORE FIBER OPTICAL CABLE FOR 5G	2021/07/08
2021/04841	LUBRICANT COMPOSITION FOR E-AXLE APPLICATIONS	2021/07/12
2021/04863	DEVICE FOR MEASURING THE CIRCUMFERENCE OF AN OBJECT, IN PARTICULAR A BODY LIMB	2021/07/12
2021/04911	RAPIDLY DEPLOYABLE MODULAR SHELTER SYSTEM	2021/07/13
2021/04917	GROUND STATION FOR ANALYSING AN OPTICAL DATA COMMUNICATION BEAM EMANATING FROM A SATELLITE	2021/07/13
2021/04923	SOIL STABILIZING COMPOSITIONS	2021/07/13
2021/04943	PERCUTANEOUS ABSORPTION PREPARATION COMPRISING STABILIZED DONEPEZIL	2021/07/14
2021/04956	AN APPARATUS FOR MAKING TEXTURE CONTROLLED EDIBLE ICE PRODUCTS INSTANTLY	2021/07/14
2021/04999	GENERAL-PURPOSE PROCESSOR INSTRUCTION TO PERFORM COMPRESSION/DECOMPRESSION OPERATIONS	2021/07/15
2021/05074	MINERAL-OIL-FREE LUBRICANT AND METHOD FOR PRODUCING A MINERAL-OIL-FREE LUBRICANT	2021/07/19
2021/05086	A PORTABLE AND RECHARGEABLE BLENDER	2021/07/19
2021/05178	DOME COVER	2021/07/22
2021/05188	BALLISTIC-RESISTANT ARTICLE BASED ON FILMS PROVIDED WITH MATRIX	2021/07/22
2021/05193	BOOST PUMP	2021/07/22
2021/05219	Manhole Accessory	2021/07/23
2021/05250	A BIN	2021/07/26
2021/05277	COMPOSITIONS COMPRISING AMINO ACIDS FOR USE AND TREATMENT OF CENTRAL NERVOUS SYSTEM INJURIES	2021/07/26
2021/05290	CROP SEED SCREENING DEVICE WITH DUST REMOVAL DEVICE	2021/07/27
2021/05338	IMIDAZO[2,1-F][1,2,4]TRIAZIN-4-AMINE DERIVATIVES AS TLR7 AGONIST	2021/07/28
2021/05345	TREATMENT METHOD AND DEVICE FOR DEPOSITING A BARRIER-EFFECT COATING	2021/07/28
2021/05346	METHOD AND APPARATUS OF CROSS-COMPONENT LINEAR MODELING FOR INTRA PREDICTION	2021/07/28
2021/05349	A CONJUGATE OF AN AMANITA TOXIN WITH BRANCHED LINKERS	2021/07/28
2021/05352	HERBICIDAL COMPOSITIONS	2021/07/28
2021/05392	INJECTION FLUIDS COMPRISING ALKOXYLATED ALCOHOLS AND THE USE OF SUCH FLUIDS IN OIL RECOVERY PROCESSES	2021/07/29
2021/05397	DEFLATION SAFETY SYSTEM AND SYSTEM INCLUDING SAME	2021/07/29
2021/05399	USE OF SPIROPIDION	2021/07/29
2021/05428	MOBILE DEVICE FOR HEATING A RAIL OF A	2021/07/30
	PERMANENT WAY USING INFRARED-RADIATION	

ELECTRIC LAMPS, AND ASSOCIATED HEATING METHOD 2021/05496 SPORT PRACTICE DEVICE 2021/08/03 2021/05507 HARVESTING, THRESHING AND IMPURITY REMOVING DEVICE FOR FIBER CROPS 2021/08/03 2021/05508 AIRFLOW CHANNELING APPARATUS 2021/08/03 2021/05508 AIRFLOW CHANNELING APPARATUS 2021/08/03 2021/05508 SOUNDING REFERENCE SIGNAL FOR UPLINK-BASED 2021/08/03 2021/05509 SOUNDING REFERENCE SIGNAL FOR UPLINK-BASED 2021/08/06 2021/05544 DRILL STEEL RETRIEVAL 2021/08/06 2021/05619 ATOMIZER DEVICE 2021/08/10 2021/05627 PANEL AND FLOOR COVERING 2021/08/10 2021/05628 FLOOR PANEL AND FLOOR COVERING COMPRISING THE 2021/08/10 2021/05629 COAL GEOTHERMAL ENERGY COLLABORATIVE 2021/08/10 2021/05629 COAL GEOTHERMAL ENERGY COLLABORATIVE 2021/08/10 2021/05631 FATS, OIL AND GREASE COLLECTION 2021/08/10 2021/05634 PANEL AND COVERING COLLECTION 2021/08/10 2021/05637 PLANEL AND COVERING COLLECTION 2021/08/10 2021/05631 FATS, OIL AND GREASE COL	Application Number	Patent Title	Filing Date
2021/056496 SPORT PRACTICE DEVICE 2021/05/03 2021/05505 Multiport Valve 2021/05/03 2021/05507 HARVESTING, THRESHING AND IMPURITY REMOVING 2021/08/03 2021/05508 AIRFLOW CHANNELING APPARATUS 2021/08/03 2021/05509 SOUNDING REFERENCE SIGNAL FOR UPLINK-BASED 2021/08/03 2021/05508 AIRFLOW CHANNELING APPARATUS 2021/08/03 2021/05509 SOUNDING REFERENCE SIGNAL FOR UPLINK-BASED 2021/08/03 2021/05504 DRILL STEEL RETRIEVAL 2021/08/03 2021/05617 CONSTRUCTION PROCESS OF LONG AUGER DRILLING AND GROUTING PILE IN ANHYDROUS THICK SAND GRAVEL STRATUM 2021/08/10 2021/05625 FLOOR PANEL AND FLOOR COVERING 2021/08/10 2021/05628 A FLOORING PANEL AND A FLOOR COVERING WITH 2021/08/10 2021/05629 COAL-GEOTHERMAL ENERGY COLLABORATIVE 2021/08/10 2021/05631 FATSO, OUL AND GREASE COLLECTION 2021/08/10 2021/05634 PANEL AND COVERING COMPRISING THE SAME 2021/08/10 2021/05678 DR LAN DERGES COLLECTION 2021/08/10 2021/05679 FLAX THRESHER CAPABLE OF AUTOMATICALLY 2		ELECTRIC LAMPS, AND ASSOCIATED HEATING METHOD	
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	2021/05755	VIBRATING STATIONARY EXERCISE MACHINE	2021/08/04
2021/05756 METHODS OF JET MILLING AND SYSTEMS 2021/08/04	2021/05756	METHODS OF JET MILLING AND SYSTEMS	2021/08/04
2021/05778 PALM ACTIVATED DRUG DELIVERY DEVICE 2021/08/13	2021/05778	PALM ACTIVATED DRUG DELIVERY DEVICE	2021/08/13

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2021/05786	CARBON NANOTUBES AND METHOD OF PRODUCING CARBON NANOTUBES	2021/08/13
2021/05832	FORMULATIONS CONTAINING ACTIVE OXYGEN COMPOUNDS AND DEVICES FOR APPLICATION THEREOF	2021/08/16
2021/05836	COSMETIC COMPOSITION	2021/08/16
2021/05885	MULTIVALENT PD-L1 BINDING COMPOUNDS FOR TREATING CANCER	2021/08/17
2021/05893	AXLE FIXATION FOR A VEHICLE AXLE, AND AXLE PLATE FOR SAME	2021/08/17
2021/05896	OBTAINING DATA FROM A MOVING PARTICULATE PRODUCT	2021/08/17
2021/05898	SATIETY INDUCING FOOD PRODUCTS AND PREPARATION THEREOF	2021/08/17
2021/05899	FILTRATION APPARATUS AND METHOD	2021/08/17
2021/05900	DEVICE FOR CHECKING LACK OF VOLTAGE IN AN ELECTRIC CIRCUIT	2021/08/04
2021/05956	GAS STRUT, METHOD FOR PRODUCING THE GAS STRUT, DRIVE FOR A FLAP WITH THE GAS STRUT	2021/08/19
2021/05967	DEVICE AND METHOD TO COMPENSATE FOR AIR LEAK FROM AN ANESTHESIA CIRCLE CIRCUIT	2021/08/19
2021/05995	TESTER FOR TESTING HUMAN DYNAMIC BALANCE AND TEST METHOD	2021/08/20
2021/06003	MIXING MACHINE FOR PRECISELY APPLYING MULTIPLE FERTILIZERS TO CROPS	2021/08/20
2021/06004	AUTOMATIC CROP FURROWING AND LAND LEVELING DEVICE	2021/08/20
2021/06148	A LABEL	2021/08/25
2021/06177	OBJECT TRACKING FOR WORK MACHINES	2021/08/26
2021/06187	SCREENING DEVICE FOR FIBER CROP SEEDS BEFORE SOWING	2021/08/26
2021/06192	FUSED TRICYCLIC COMPOUNDS USEFUL AS ANTICANCER AGENTS	2021/08/26
2021/06194	FUNGICIDAL COMPOUNDS	2021/08/26
2021/06230	MAGNETIC FLOORING SYSTEM ADHESIVE COMPOSITION	2021/08/27
2021/06287	SCREENING DEVICE	2021/08/30
2021/06292	PROCESS FOR THE PRODUCTION OF AN IMPROVED DIESEL FUEL	2021/08/30
2021/06471	FILTER COMPRISING COMMUNICATION MEANS	2021/09/03
2021/06511	JAK INHIBITOR COMPOUND AND USE THEREOF	2021/09/06
2021/06512	CRUSHER	2021/09/06
2021/06520	A PROCESS FOR RECOVERING GOLD FROM ORES	2021/09/06
2021/06550	FILTER SEAL ASSEMBLY AND SYSTEM	2021/09/07
2021/06553	EXPANDED FOODSTUFF- OR ANIMAL FEED EXTRUDATE	2021/09/07
2021/06587	DELIVERY TRAY AND PACKAGING SYSTEM FOR MEDICAL ITEMS	2021/09/08
2021/06599	FLUIDIZED BED DEHYDROGENATION PROCESS FOR LIGHT OLEFIN PRODUCTION	2021/09/08
2021/06611	ANTI-AGING COSMETIC COMPOSITION	2021/09/08

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2021/06612	COMPOUNDS AND CONJUGATES THEREOF	2021/09/08
2021/06708	FUEL NOZZLE HAVING EXPANSION SLITS FOR A PULVERIZED-COAL BURNER	2021/09/10
2021/06710	WIRELESS TIME-SENSITIVE NETWORKING	2021/09/10
2021/06711	6-OXO-1,6-DIHYDROPYRIDAZINE PRODRUG DERIVATIVE, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF IN MEDICINE	2021/09/10
2021/06716	METHOD AND MEANS FOR PROCESSING BEVERAGES	2021/09/10
2021/06755	BENEFICIATION OF Cr-BEARING ORE	2021/09/13
2021/06756	AN INTEGRATED OXIDATIVE ALKANE DEHYDROGENATION AND HYDROGEN GENERATION PROCESS	2021/09/13
2021/06761	METHOD AND APPARATUS FOR GROUP CONTENT DELIVERY	2021/09/13
2021/06762	BEAM INFORMATION IN EARLY MEASUREMENTS	2021/09/13
2021/06764	CONGESTION CONTROL IN AMF AND SMF	2021/09/13
2021/06801	FREQUENCY DOMAIN-BASED DETERMINATION OF CURRENTS FOR INJECTION INTO A POWER NETWORK	2021/09/14
2021/06854	REGIONALIZED CLIMATE MODELS USING PHYSICS- INFORMED NEURAL NETWORKS	2021/09/17
2021/06874	NONHORMONAL UNISEX CONTRACEPTIVES	2021/09/17
2021/06892	METHODS AND APPARATUSES FOR CONNECTION ESTABLISHMENT	2021/09/17
2021/06921	VACUUM TUBE RAILWAY SYSTEM	2021/09/17
2021/06928	PACKET FOR CIGARETTE INDUSTRY PRODUCTS, AND METHOD FOR PRODUCING SAME	2021/09/17
2021/06938	ENCAPSULATED COMPOSITION	2021/09/17
2021/06942	AN ENCODER, A DECODER AND CORRESPONDING METHODS OF INTRA PREDICTION	2021/09/17
2021/07023	A MEDIUM FOR INCREASED SURFACE AREA	2021/09/21
2021/07051	APPARATUS, METHOD AND KIT FOR DETECTION OF VON WILLEBRAND FACTOR AND FACTOR VIII	2021/09/21
2021/07068	STARCH-SOLUBLE DIETARY FIBRE NANOCOMPOSITE	2021/09/22
2021/07082	SUN PROTECTANT FOR CROP PLANTS	2021/09/22
2021/07115	A FIBRE RELAY UNIT	2021/09/23
2021/07117	NUTRITION	2021/09/23
2021/07120	INSULATING ELEMENT, IN PARTICULAR STRIP, METHOD OF INSPECTION OF WELDS AND MELTING OF INSULATING ELEMENTS AND CONTROL SYSTEM OF WELDS AND MELTING OF INSULATING ELEMENTS	2021/09/23
2021/07125	SYSTEM FOR NON-INVASIVE EXAMINATION OF BLOOD ENVIRONMENT PARAMETERS	2021/09/23
2021/07126	ELECTROMAGNETIC RELEASE HOPPING ROBOT, BADMINTON ROBOT AND ELECTROMAGNETIC RELEASE HOPPING MECHANISM	2021/09/23
2021/07222	ELECTROLYSIS SYSTEM WITH CONTROLLED THERMAL PROFILE	2021/09/27
2021/07225	METHOD FOR STERILIZING AND DECONTAMINATING POST-CONSUMER ABSORBENT SANITARY PRODUCTS POLLUTED WITH ORGANIC COMPOUNDS DERIVED FROM HUMAN METABOLISM	2021/09/27

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2021/07226	SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION	2021/09/27
2021/07227	DATA STORAGE APPARATUS AND METHOD, AND READABLE STORAGE MEDIUM	2021/09/27
2021/07256	VIDEO CODING METHOD AND APPARATUS	2021/09/28
2021/07296	A SYSTEM AND METHOD FOR EFFECTING A	2021/09/28
	TRANSACTION USING A MOBILE COMMUNICATIONS DEVICE ASSOCIATED WITH A RECEIVER OF TRANSACTION INFORMATION	
2021/07321	DNA METHYLATION DATA PROCESSING PLATFORM AND METHOD FOR PATIENTS WITH CARDIOVASCULAR DISEASES	2021/09/29
2021/07327	DOWNMIXER AND METHOD OF DOWNMIXING	2021/09/29
2021/07328	DISC TUMBLER CYLINDER AND KEY COMBINATION	2021/09/29
2021/07329	METHOD AND DEVICE FOR DISINFECTING CLEAN ROOMS	2021/09/29
2021/07330	MICROORGANISM PRODUCING L-AMINO ACID AND METHOD FOR PRODUCING L-AMINO ACID BY USING SAME	2021/09/29
2021/07331	THERAPEUTIC USE, FOR LIVER DISEASE, OF TRIPLE AGONIST HAVING ACTIVITY WITH RESPECT TO ALL OF GLUCAGON, GLP-1, AND GIP RECEPTORS, OR CONJUGATE THEREOF	2021/09/29
2021/07343	DEVICE AND METHOD FOR WELDING CYLINDRICAL SECTIONS OF A CASING	2021/09/29
2021/07370	PACKAGING SIZING TEMPLATE	2021/09/30
2021/07371	AUTOMATED COOKING APPARATUS AND METHOD	2021/09/30
2021/07378	METHOD AND APPARATUS FOR RECONDITIONING ORGANS	2021/09/30
2021/07381	MYCORRHIZAE AND/OR BACILLUS AMYLOLIQUEFACIENS LIQUID FERTILIZER COMPATIBLE FORMULATIONS	2021/09/30
2021/07476	ELECTROCHEMICAL PRODUCTION OF POLYMERS	2021/10/05
2021/07510	RAPIDLY DEPLOYABLE MODULAR SHELTER SYSTEM	2021/10/06
2021/07534	STAGED FLUID CATALYTIC CRACKING PROCESSES INCORPORATING A SOLIDS SEPARATION DEVICE FOR UPGRADING NAPHTHA RANGE MATERIAL	2021/10/06
2021/07542	PERSONAL ATTENDANCE MONITORING SYSTEM	2021/10/07
2021/07544	PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE	2021/10/07
2021/07595	METAL FOAM FOR WATER PURIFICATION	2021/10/08
2021/07662	COEFFICIENT DOMAIN BLOCK DIFFERENTIAL PULSE- CODE MODULATION IN VIDEO CODING	2021/10/11
2021/07721	SYSTEM, METHOD AND APPARATUS FOR PROVIDING VARIABLE RATE APPLICATION OF APPLICANTS TO DISCRETE FIELD LOCATIONS	2021/10/12
2021/07727	DRAINAGE FITTING	2021/10/13
2021/07757	MODULAR ROOF MOUNTED COOLING SYSTEM AND METHOD FOR DATA CENTER	2021/10/13
2021/07784	CABLE RETRACTING DEVICE AND SYSTEM	2021/10/14

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2021/07810	CRYSTAL FORM OF PHOSPHODIESTERASE INHIBITOR, PREPARATION METHOD THEREFOR AND USE THEREOF	2021/10/14
2021/07811	TREATMENT ASSEMBLY FOR TREATING THE SURFACE OF A BODY WITH A DIELECTRICALLY LIMITED PLASMA	2021/10/14
2021/07832	PYRROLE AMIDOPYRIDONE COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF	2021/10/14
2021/07833	SEALED CONNECTION DEVICE BETWEEN TWO ENCLOSED VOLUMES WITH IMPROVED SECURITY	2021/10/14
2021/07914	A HUMIDITY DETECTION EQUIPMENT OF A STRIP	2021/10/18
2021/07933	BLAST MOVEMENT MONITOR, SYSTEM AND METHOD	2021/10/18
2021/07943	COSMETIC INGREDIENT COMPRISING RETINOL IN MULTILAYER CRYSTALLINE MICROCAPSULES	2021/10/18
2021/07987	BACTERICIDAL AGENT FOR AGRICULTURAL OR HORTICULTURAL USE, PLANT DISEASE CONTROL METHOD, AND PRODUCT FOR PLANT DISEASE CONTROL USE	2021/10/19
2021/08012	RESISTANCE EXERCISE APPARATUS	2021/10/19
2021/08062	INSERT	2021/10/21
2021/08076	AN IMPROVED PEDESTRIAN ATTRIBUTE MONITORING AND RECOGNITION METHOD	2021/10/21
2021/08087	LIPID COMPOUND AND THE COMPOSITION THEREOF	2021/10/21
2021/08100	COLD ROLLED AND COATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF	2021/10/21
2021/08149	PLANTER ADAPTATION FOR NARROW WIDTH TRANSPORT AND ACCESSIBILITY	2021/10/22
2021/08202	QUANTUM-RESISTANT SIM CARD	2021/10/25
2021/08224	A MANUFACTURED SEED POD, A COMPOSITION FOR A MANUFACTURED SEED POD AND A METHOD FOR MANUFACTURING A SEED POD	2021/10/25
2021/08255	COLD ROLLED AND COATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF	2021/10/26
2021/08294	WARP KNITTING TOOL BAR FOR A WARP KNITTING MACHINE	2021/10/27
2021/08295	A COLD ROLLED MARTENSITIC STEEL AND A METHOD OF MARTENSITIC STEEL THEREOF	2021/10/27
2021/08352	TRANSPORT ARRANGEMENT	2021/10/28
2021/08361	PROCESS FOR MODIFYING THE SURFACE POLARITY OF RUBBER SUBSTRATES	2021/10/28
2021/08414	FLAMEPROOF JUNCTION BOX	2021/10/29
2021/08426	ADJUSTMENT DEVICE AND METHOD FOR FLEXIBLE WALL SURFACE UNDER DROPLET IMPACTION	2021/10/29
2021/08680	METHOD AND APPLICATOR FOR CONTINUOUS SEQUENTIAL APPLICATION OF TWO OR MORE VISCOUS MATERIALS OR FLUIDS	2021/11/05
2021/08684	A SYSTEM FOR ELIMINATING BAD-SMELLING EMISSIONS FROM INDUSTRIAL PROCESSES	2021/11/05
2021/08698	AIRFLOW MANAGEMENT	2021/11/08
2021/08761	SYSTEM FOR STERILISING STERILISATION UNITS AND METHOD FOR OPERATING SUCH A SYSTEM	2021/11/08
2021/08891	WINDLASS TOURNIQUET	2021/11/10

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2021/08900	MIC THERAPY FOR SPECIFIC IMMUNOSUPPRESSION IN TRANSPLANTATION	2021/11/10
2021/08941	HELICAL ANTENNA	2021/11/11
2021/08956	DEVICE AND METHOD FOR MEASURING DEFORMATION IN METALLIC BARS	2021/11/11
2021/08996	VIRAL VECTOR	2021/11/12
2021/09005	OXALAMIDO-SUBSTITUTED TRICYCLIC INHIBITORS OF HEPATITIS B VIRUS	2021/11/12
2021/09007	METHOD OF DETERMINING A CONCENTRATION OF AN ANALYTE IN A BODILY FLUID AND MOBILE DEVICE CONFIGURED FOR DETERMINING A CONCENTRATION OF AN ANALYTE IN A BODILY FLUID	2021/11/12
2021/09008	LOUVER ASSEMBLY	2021/11/12
2021/09021	APPARATUS AND METHODS FOR THE MANUFACTURE OF SYNTHETIC DIAMONDS	2021/11/12
2021/09057	CURRENCY TRACKING AND ACCOUNTING SYSTEMS	2021/11/15
2021/09065	STRUCTURES AND TECHNIQUES FOR SOLAR COLLECTORS	2021/11/15
2021/09069	MESOTHELIN CARS AND USES THEREOF	2021/11/15
2021/09176	BRAKE EQUIPMENT WEAR MONITORING FOR REMAINING USEFUL LIFE	2021/11/17
2021/09183	NOVEL COMPOUNDS FOR INHIBITION OF JANUS KINASE 1	2021/11/17
2021/09328	AN ADJUSTABLE FLOAT-CONTROLLED VALVE	2021/11/22
2021/09329	METHOD FOR REPAIRING OR IMPROVING ABSORBER TUBES WITH A LOSS OF THERMAL INSULATION OF OR FOR SOLAR THERMAL INSTALLATIONS	2021/11/22
2021/09367	ELECTROSTATICALLY DISSIPATING PROTECTIVE GLOVE	2021/11/22
2021/09373	ARC FURNACE POWER SUPPLY WITH CONVERTER CIRCUIT	2021/11/22
2021/09389	IMAGE PREDICTION METHOD AND DEVICE	2021/11/23
2021/09419	HETEROAROMATIC INHIBITORS OF ASTACIN PROTEINASES	2021/11/23
2021/09439	METHOD AND SYSTEM FOR VISUALISING COLOCALISED FLUORESCENCE SIGNALS	2021/11/23
2021/09440	IMPROVED PROCESS FOR PRODUCING A LIQUID POTATO PRODUCT	2021/11/23
2021/09441	LIQUIFIED POTATO PRODUCT AND PROCESS	2021/11/23
2021/09442	METHOD OF DEPOLYMERISING PHENOLIC POLYMERS	2021/11/23
2021/09444	TENDON CONNECTORS AND SYSTEM FOR USE	2021/11/23
2021/09508	PROCESS AND DEVICE FOR SECONDARY TREATMENT OF PYROLYTIC CARBON BLACK	2021/11/24
2021/09509	MULTI-STAGED COOLING AND PURIFYING DEVICE FOR CRACKING OIL AND GAS	2021/11/24
2021/09510	DEVICE FOR TREATING ILMENITE ORE BY USING PYROLYSIS PRODUCTS OF SOLID WASTES	2021/11/24
2021/09511	METHOD AND DEVICE FOR TESTING THE CONTENT OF RESIDUAL CARBON DIOXIDE GAS IN CARBON DIOXIDE- CURED RECYCLED AGGREGATE	2021/11/24
2021/09638	FLEXIBLE PRODUCTION OF GASOLINE AND JET FUEL IN ALKYLATION REACTOR	2021/11/26

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2021/09656	RECOMBINANT ONCOLYTIC VIRUS, PREPARATION METHOD THEREFOR, USE THEREOF AND MEDICINE THEREOF	2021/11/26
2021/09658	CHROMOSOME CONFORMATION MARKERS OF PROSTATE CANCER AND LYMPHOMA	2021/11/26
2021/09712	VARIANT DIHYDRODIPICOLINATE REDUCTASE POLYPEPTIDE AND METHOD OF PRODUCING L- THREONINE USING THE SAME	2021/11/29
2021/09727	SYSTEM AND METHOD FOR RESCUING WHALES BASED ON BIG DATA	2021/11/29
2021/09777	COOKING POUCH	2021/11/30
2021/09798	PACKET LOSS CONCEALMENT FOR DIRAC BASED SPATIAL AUDIO CODING	2021/11/30
2021/09848	FOREST OPERATING TROLLEY	2021/12/01
2021/09849	SYSTEM AND METHOD FOR DETECTING AND REMOVING DEFLECTION STRESSES FROM IRRIGATION MACHINE SPANS	2021/12/01
2021/09850	WOODS TRANSPORTING SYSTEM FOR FOREST WOODS AND ITS METHODS THEREOF	2021/12/01
2021/09897	A FLAME RETARDANT AND WEAR RESISTANT ANTIMICROBIAL YARN AND ITS PRODUCTION PROCESS.	2021/12/02
2021/09967	DUAL BEVEL GEAR DEVICE ON WINDMILL	2021/12/03
2021/10000	BRAKE ASSEMBLY	2021/12/06
2021/10051	PRINTING DEVICE FOR A COUPLING MACHINE	2021/12/06
2021/10118	GREASE RECOVERY UNIT	2021/12/07
2021/10159	SINGLE-CHANNEL SEQUENCING METHOD BASED ON SELF-LUMINESCENCE	2021/12/08
2021/10210	A SYSTEM FOR REMOTE MONITORING AND ASSESSMENT OF HEALTH VITALS AND A WEARABLE DEVICE THEREOF	2021/12/09
2021/10236	ANTIBODY CAPABLE OF BINDING TO THYMIC STROMAL LYMPHOPOIETIN AND USE THEREOF	2021/12/09
2021/10275	THERMOLYSIS SYSTEM AND METHOD FOR OBTAINING RECOVERED CARBON BLACK AND FUEL FROM DISUSED TYRES	2021/12/10
2021/10293	PARAMETER ENCODING AND DECODING	2021/12/10
2021/10350	2-PHENOXY-PYRIMIDINE DERIVATIVES AS HERBICIDAL COMPOUNDS	2021/12/13
2021/10352	NEW HETEROCYCLIC COMPOUNDS	2021/12/13
2021/10465	PRESSURE TESTING	2021/12/15
2021/10579	COMPOSITION FOR PREVENTING THE FORMATION OF SEEDS IN FRUIT	2021/12/17
2021/10605	DEVICE FOR INSTALLATION OF THE OUTER HEAT INSULATION OF A NUCLEAR REACTOR VESSEL	2021/12/17
2021/10606	OUTER NUCLEAR REACTOR VESSEL HEAT INSULATION AND INSTALLATION SYSTEM FOR THE OUTER NUCLEAR REACTOR VESSEL HEAT INSULATION	2021/12/17
2021/10607	GUIDE ASSEMBLY OF THE CORIUM LOCALIZING AND COOLING SYSTEM OF A NUCLEAR REACTOR	2021/12/17

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2021/10608	CORIUM LOCALIZING AND COOLING SYSTEM OF A NUCLEAR REACTOR	2021/12/17
2021/10622	LICENSE MANAGEMENT SYSTEM	2021/12/20
2021/10702	FLUX-FREE BRAZING METHOD FOR CARBIDE-TIPPED TOOLS	2021/12/21
2021/10703	BRAZING SHEET AND BRAZING METHOD	2021/12/21
2021/10856	SURGICAL DEVICE	2021/12/23
2021/10948	PHARMACEUTICAL DOSAGE FORMS AND METHODS FOR THEIR PRODUCTION	2021/12/24
2022/00137	A NOVEL TELESCOPIC PEDAL	2022/01/03
2022/00145	POLYSILICATE ALUMINUM-CATIONIC STARCH COMPOSITE FLOCCULANT AND PREPARATION METHOD THEREOF	2022/01/03
2022/00162	CONSTRUCTION METHOD OF REGULATORY ELEMENT HAVING DUAL FUNCTIONS OF PROMOTION AND TERMINATION, AND BIFUNCTIONAL ELEMENT LIBRARY	2022/01/03
2022/00290	STARCH-BASED AND STEADY-STATE VEGETABLE OIL COMPLEX AND PREPARATION METHOD THEREOF	2022/01/05
2022/00292	METHOD FOR PREPARING PHYTOSTEROL-STABILIZED WATER-IN-OIL PICKERING EMULSION	2022/01/05
2022/00294	COMPOSITION FOR PREVENTING AND TREATING BACTERIAL LEAF STREAK, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2022/01/05
2022/00295	NESTED-PCR PRIMER, KIT AND METHOD FOR DETECTING NUCLEOPOLYHEDROVIRUS CARRIED BY SPODOPTERA LITURA ADULTS	2022/01/05
2022/00393	ENCRYPTED IMAGE RESTORATION-BASED MEDICAL IMAGE PRIVACY PROTECTION METHOD	2022/01/07
2022/00583	AGRICULTURAL FENCING	2022/01/12
2022/00601	EXPERIMENTAL POSITIONING DEVICE AND METHOD FOR MAGNETOMETER SENSOR	2022/01/12
2022/00603	INFLATABLE DILATATION DEVICE	2022/01/12
2022/00659	STIRRING DEVICE FOR TESTING PROPERTIES OF MINERAL MATERIAL	2022/01/13
2022/00723	COMPOUND FOR COMBINATION TREATMENT	2022/01/14
2022/00726	"METHOD FOR PREPARING A REGENERATED CELLULOSE FIBER SPINNING DOPE BY A SOLVWENT METHOD"	2022/01/14
2022/00728	DEVICE FOR CLASSIFYING A LIGHT SOURCE	2022/01/14
2022/00729	CAPSULE FOR PREPARING A BEVERAGE	2022/01/14
2022/00955	WATER BALANCE IMPROVEMENT IN AN EFFLUENT TREATMENT PROCESS FOR SULPHATE REMOVAL	2022/01/20
2022/00964	SALTS OF A COMPOUND, CRYSTAL FORMS OF THE SALTS AND PREPARATION METHOD AND USE THEREOF	2022/01/20
2022/01019	SYNERGISTIC STABLE NITROGEN FERTILIZER AND PREPARATION METHOD	2022/01/21
2022/01156	STRUCTURAL WALL PANEL SYSTEM	2022/01/25
2022/01183	AN ANTI-THEFT INVENTORY DELIVERY AND COLLECTION MANAGEMENT SYSTEM	2022/01/26
2022/01243	COMPOSITE VOLTAGE TESTING DEVICE FOR DC-LINK CAPACITOR	2022/01/26

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2022/01354	CHAIN CONVEYOR AND LINK FOR SAME	2022/01/28
2022/01798	MECHANISM AND METHOD FOR SEPARATING WELDING LUGS	2022/02/10
2022/02183	FLUID CONTAINER	2022/02/21
2022/02635	METHOD FOR MEASUREMENT AND FATIGUE TEST OF ULTIMATE STRENGTH OF STIFFENED PANEL	2022/03/04
2022/02911	DEVICE FOR MONITORING FLUCTUATIONS IN DPN SEVERITY THROUGH AUTOMATED MEASUREMENT OF NERVE CONDUCTION PARAMETERS	2022/03/10
2022/03336	AN INDEX FOR GRADING EXTRINSIC STAINS IN TEETH	2022/03/22
2022/03337	A SYSTEM FOR POROUS FLOW APPROACH TO MODELLING MIXED TRAFFIC	2022/03/22
2022/03338	A VENUS FLY TRAP OPTIMIZATION TECHNIQUE	2022/03/22
2022/03599	ATORVASTATIN ETHOSOMES TOPICAL GEL BASED DRUG DELIVERY SYSTEM	2022/03/29
2022/03608	AGCL CUBIC/POROUS CARBON NANOTUBE COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF	2022/03/29
2022/03609	FORMULATION OF CURCUMIN LOADED TOPICAL GEL USING SODIUM SALICYLATE HYDROTROPE	2022/03/29
2022/03698	FILTRATION DEVICE WITH COMBINED FILTER TANKS FOR REFRIGERATION COMPRESSOR	2022/03/31
2022/03728	A HYGIENE ARTICLE	2022/03/31
2022/04362	METHODOLOGY FOR IMPROVED COYOTE OPTIMIZATION BASED CLASSIFICATION (ICOAC) FOR BIG DATASET TO ENLARGE THE EMERGENCE OF HETEROGENEOUS DISTRIBUTED CIRCUMSTANCES	2022/04/19
2022/04535	METHODS AND SYSTEMS FOR PROVIDING ELECTRIC ENERGY PRODUCTION AND STORAGE	2022/04/22
2022/04540	METHOD AND SYSTEM FOR AUTOMATICALLY CONTROLLING ELECTRICAL POWER SUPPLY BASED ON PAYMENT STATUS	2022/04/22
2022/04764	AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL	2016/03/07
2022/04765	AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL	2016/03/07
2022/04766	AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL	2016/03/07
2022/04767	AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL	2016/03/07
2022/04768	AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL	2016/03/07
2022/04837	A METHOD FOR EMPLOYEES' SATISFACTION THAT REDUCES TURNOVER INTENTION OF EMPLOYEES AND LEADERSHIP	2022/05/03
2022/04838	A NOVEL IOT BASED INDIGENOUS NANO FILTER EARTHEN AIR CONDITIONING SYSTEM	2022/05/03

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2022/04841	A MULTI-FAN TURBULENCE WIND TUNNEL	2022/05/03
2022/04847	LIQUID FUEL LAMP	2022/05/03
2022/04848	AN IOT BASED DOOR ACCESS CONTROL SYSTEM	2022/05/03
2022/04849	IOT BASED SELF SUSTAINABLE OPTIMISED FLUSHING MECHANISM FOR MICROMACHINING SYSTEM	2022/05/03
2022/04856	CARRYING DEVICE AND STRAP FOR THE CARRYING DEVICE	2022/05/03
2022/04879	AN ARTIFICIAL INTELLIGENCE BASED SYSTEM FOR DEVELOPMENT OF MARKETING MANAGEMENT TOOL	2022/05/04
2022/04918	DEVICE FOR CLEANING FALLEN LEAVES OF ARCHITECTURAL LANDSCAPE	2022/05/05
2022/04919	CONNECTING SYSTEM AND CONNECTING METHOD FOR PRECAST COMPOSITE FOUNDATION AND PRECAST CONCRETE COLUMN	2022/05/05
2022/04920	A LUNG CANCER BIOPSY PUNCTURE POSITIONING DEVICE	2022/05/05
2022/04921	INVERSION EVALUATION METHOD OF ATMOSPHERIC PCO2 AND SEAWATER CHEMICAL COMPOSITION	2022/05/05
2022/04922	INTELLIGENT DETECTION METHOD FOR DYNAMIC FRACTURES IN FAILURE PROCESS OF COMPLEX FRACTURED ROCK MASS	2022/05/05
2022/04923	HIGH-EFFICIENCY AND ENVIRONMENT-FRIENDLY MODIFIED ALCOHOL-BASED COMPOSITE FUEL AND PREPARATION METHOD THEREOF	2022/05/05
2022/04924	DYNAMIC SCHEDULING METHOD FOR TWO-STEP PROCESSING OF FAULT-FREE RGV INTELLIGENT SYSTEM	2022/05/05
2022/04925	FIBER-OPTIC CURRENT TRANSFORMER BASED ON NITROGEN-VACANCY (NV) CENTERS IN DIAMOND, AND MEASUREMENT METHOD	2022/05/05
2022/04926	INTEGRATED FLOATING DOMESTICATION DEVICE FOR FISHES	2022/05/05
2022/04927	SPRAY DISINFECTION DEVICE FOR PERSONAL PROTECTIVE ARTICLES OF RESPIRATORY TRACT PATHOGEN	2022/05/05
2022/04963	CATALYST FOR PRODUCING LOW-CARBON ALKENE BY CATALYTIC CRACKING OF WASTE PLASTICS AND PREPARATION METHOD THEREOF	2022/05/06
2022/04964	EXPRESSION, PURIFICATION METHOD AND APPLICATION OF 19-201AA AT THE N-END OF RECOMBINANT HUMAN RETINOL-BINDING PROTEIN 4	2022/05/06
2022/04965	CULTURE MEDIUM FOR TISSUE CULTURE OF LONICERA FRAGRANTISSIMA	2022/05/06
2022/04966	SLOPE PROTECTION MATERIAL AND PREPARATION METHOD THEREOF	2022/05/06
2022/04967	INTERCROPPING METHOD FOR IMPROVING SOIL NUTRIENT AND ENZYME ACTIVITY OF CAMELLIA OLEIFERA	2022/05/06
2022/04969	METHOD FOR ACCELARATING THE OVERWINTERING BUD SPROUTING OF PARIS POLYPHYLLA VAR. YUNNANENSIS	2022/05/06

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2022/04970	A FLOWER AND GRASS SPRAYING IRRIGATION DEVICE ON BOTH SIDES OF GARDEN ROAD	2022/05/06
2022/04971	A HYDRAULIC LOCK FOR AVIATION SEAT	2022/05/06
2022/04972	METHOD FOR PREPARING RESISTANT STARCH FROM VERMICELLI BYPRODUCTS	2022/05/06
2022/04973	RHODIUM-IRON BIMETALLIC HYDROGENATION CATALYST, PREPARATION METHOD AND APPLICATION	2022/05/06
2022/04974	FERTILIZATION METHOD WITH PRIORITY TO APPLE QUALITY	2022/05/06
2022/04975	A CHINESE MEDICINAL COMPOSITION FOR TREATING INFECTIOUS FEVER, AND ITS PREPARATION METHOD	2022/05/06
2022/04976	A PREPARATION METHOD OF ROOTING REAGENT FOR BALCONY VEGETABLE PLANTING AND ITS APPLICATION	2022/05/06
2022/04977	BOREHOLE GAS BLOWOUT PREVENTION AND COLLECTION DEVICE	2022/05/06
2022/05045	COMPOSITE FEED ATTRACTANT FOR IMPROVING FOOD INTAKE OF TRACHINOTUS OVATUS AND PREPARATION METHOD THEREOF	2022/05/09
2022/05046	PUFFED COMPOUND FEED FOR IMPROVING GROWTH, FOOD INTAKE AND SURVIVAL OF MIDDLE-ADULT FISH OF TRACHINOTUS OVATUS	2022/05/09
2022/05047	DEDICATED COMPOUND FEED FOR TRACHINOTUS OVATUS DURING LOW TEMPERATURE PERIOD	2022/05/09
2022/05048	A CONCRETE COLUMN MOISTURIZING DEVICE FOR BUILDING CONSTRUCTION	2022/05/09
2022/05049	GOLD ORE PRETREATMENT METHOD	2022/05/09
2022/05050	A CUTTING DEVICE FOR PRESTRESSED STEEL STRAND	2022/05/09
2022/05051	BENEFICIATION METHOD OF GOLD ORE	2022/05/09
2022/05052	FEED FORMULA FOR IMPROVING PRODUCTION PERFORMANCE AND ECONOMIC BENEFITS OF LIVESTOCK OR POULTRY AND PREPARATION METHOD THEREOF	2022/05/09
2022/05053	STEPWISE MULTIPLE REGRESSION ANALYSIS METHOD FOR VEGETATION GROWTH CHANGE COUPLED WITH CLIMATE ACCUMULATIVE EFFECTS	2022/05/09
2022/05054	BREEDING METHOD OF LODGING-RESISTANT CONVENTIONAL JAPONICA RICE	2022/05/09
2022/05055	APPLICATION OF PUERARIN IN PREPARATION OF DRUG FOR PREVENTING AND TREATING MYOCARDIAL HYPERTROPHY	2022/05/09
2022/05056	WINDING REINFORCED FIBRE, FIBRE REINFORCED COMPOSITE MATERIAL AND PREPARATION METHOD THEREFOR	2022/05/09
2022/05057	VERTICAL ROTARY RAKE	2022/05/09
2022/05058	A METHOD FOR ANNEALING INDUCED CONTROL FOR NON COVALENT FUNCTIONALIZATION OF SINGLE WALLED CARBON NANOTUBES MATRIX AND APPLICATION THEREOF	2022/05/09
2022/05060	ELECTRIC AUTOMATIC PLATE CUTTING EQUIPMENT	2022/05/09

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2022/05061	AUTOMATED EQUIPMENT FOR DEPOSITION OF THIN FILM BY DIP COATING AND SUCCESSIVE IONIC LAYER ADSORPTION AND REACTION AND METHODS FOR THE SAME	2022/05/09
2022/05062	MULTIFUNCTIONAL ELECTRIC AUTOMATIC CONSOLE	2022/05/09
2022/05063	ENVIRONMENTALLY-FRIENDLY AND ENERGY-SAVING ELECTROMECHANICAL DEVICE	2022/05/09
2022/05065	PREPARATION METHOD FOR ENVIRONMENTAL- FRIENDLY CASTING MATERIAL	2022/05/09
2022/05067	NOVEL VAGINA OPENER FOR SHEEP	2022/05/09
2022/05068	CONTROL AND DETECTION APPARATUS FOR ECOLOGICALLY RESTORING SOIL HEAVY METAL POLLUTION IN COMPREHENSIVE PLANTING AND BREEDING TECHNOLOGY OF PADDY FIELDS	2022/05/09
2022/05069	FORMULA OF BIOLOGICAL SOAKING LIQUID FOR EXTERNAL USE AND PREPARATION METHOD AND EFFECT THEREOF	2022/05/09
2022/05080	AN AUXILIARY DEVICE FOR ONE-HANDED BRASSIERE WEARING	2022/05/09
2022/05082	DETECTOR CAPABLE OF DETECTING BEARING FAULTS IN ADVANCE	2022/05/09
2022/05122	EXTERNAL WALL HANGING STRUCTURE FOR BUILDING DECORATION	2022/05/10
2022/05123	SIZE MEASURING DEVICE FOR LANDSCAPE DESIGN	2022/05/10
2022/05124	CAMELLIA OLEIFERA SELF-INCOMPATIBILITY GENE S- RNASE AND SINGLE-NUCLEOTIDE POLYMORPHISM (SNP) SITES, AND APPLICATION	2022/05/10
2022/05125	EXPERIMENTAL DEVICE FOR ENRICH ENVIRONMENT OF SMALL ANIMALS WITH RECORDING AND TRACKING FUNCTION	2022/05/10
2022/05126	LAPAROSCOPIC ELECTRIC HOOK DEVICE CAPABLE OF EXPANDING OPERATION SPACE	2022/05/10
2022/05127	FLUORESCENT PROBE FOR DETECTING S2- IN FOOD- BORNE WATER, PREPARATION METHOD AND APPLICATION THEREOF	2022/05/10
2022/05128	DUAL-TARGETED CD19/CD20 CHIMERIC ANTIGEN RECEPTOR T CELL, PREPARATION METHOD AND USE THEREOF	2022/05/10
2022/05129	A HIGH EFFICIENCY TENNIS COLLECTION DEVICE BASED ON TENNIS TRAINING	2022/05/10
2022/05130	MECHANICAL CUTTING TECHNOLOGY FOR PREVENTING AND CONTROLLING HARM OF AMBROSIA TRIFIDA	2022/05/10
2022/05131	MONITORING SYSTEM AND METHOD FOR MOMENT OF INERTIA OF POWER SYSTEM	2022/05/10
2022/05132	OXYTETRACYCLINE-DEGRADING ENZYME, AND ENCODING GENE AND USE THEREOF	2022/05/10
2022/05144	ARTIFICIAL BREEDING METHOD OF LEICASSIS CRASSILABRUS GÜNTHER	2022/05/10
2022/05145	TEACHING INTERACTION AUDIO-VISUAL ACQUISTION DEVICE BRACKET FOR LIVE BROADCAST OF ONLINE CLASS	2022/05/10

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2022/05160	METHOD FOR RAPID PREDICTION OF DYNAMIC MODULUS OF RESILIENCE OF GRADED CRUSHED STONE CONSIDERING PARTICLE CRUSHIN	2022/05/10
2022/05161	RAPID REPAIR STRUCTURE FOR SECOND-LEVEL OR HIGHER SOIL SLOPE SHALLOW LANDSLIDE, AND CONSTRUCTION METHOD THEREFOR	2022/05/10
2022/05182	A PRECISE EVALUATION MODEL AND METHOD OF PHENOTYPE GROUP OF MANGO FRUIT QUALITY TRAITS	2022/05/11
2022/05183	ASSEMBLY STRUCTURE HOISTING CONTROL MANAGEMENT SYSTEM	2022/05/11
2022/05184	METHOD FOR SYNTHESIZING 2-TERT-BUTYL-4- ETHYLPHENOL	2022/05/11
2022/05185	PREPARATION METHOD OF POROUS OXYGEN CONTAINING GROUPS-ADHERED GRAPHENE DISPERSION SOLUTION	2022/05/11
2022/05186	LIQUID STEEL SLAG GAS QUENCHING AND GRANULATING DEVICE	2022/05/11
2022/05187	DISPOSABLE MEDICAL MASK WITH ADJUSTABLE SIZE	2022/05/11
2022/05188	A KIND OF MODULAR BUILDING	2022/05/11
2022/05189	LIGHT FIELD IMAGE ANGULAR SUPER-RESOLUTION METHOD BY FUSING SUB-APERTURE IMAGE AND MACRO-PIXEL IMAGE	2022/05/11
2022/05190	METHOD FOR DETECTING ANTIVIRAL FUNCTION OF CHINESE HERBAL MEDICINE	2022/05/11
2022/05191	ELECTRIC CERVICAL VERTEBRA TRACTION DEVICE BASED ON ISOTONIC TRACTION	2022/05/11
2022/05192	SEEDER FOR SMALL SEEDS	2022/05/11
2022/05193	DOUBLE-LAYER ALUMINUM CATHODE ENERGY- SAVING ALUMINUM ELECTROLYTIC CELL	2022/05/11
2022/05194	PREFABRICATED BUILDING SYSTEM AND CONSTRUCTION TECHNOLOGY THEREOF	2022/05/11
2022/05196	MINE TOTAL RETURN AIR GROUND SHAFT TOWER DUST REMOVAL SYSTEM	2022/05/11
2022/05197	METHOD AND DEVICE FOR IMPROVING DUST REMOVAL EFFECT AND EXPLOSION-PROOF PERFORMANCE OF DUST REMOVER	2022/05/11
2022/05198	POSITIVE AND NEGATIVE PRESSURE COLLABORATIVE PULSE DUST REMOVING DEVICE WITH EXPLOSION SUPPRESSION FUNCTION	2022/05/11
2022/05199	PREPARATION METHOD OF HIGH TEMPERATURE RESISTANT METAL FIBER MEMBRANE FILTER MATERIAL	2022/05/11
2022/05200	PRODUCT DEVELOPMENT AND PRODUCTION METHODS OF A KIND OF WILD VITIS DAVIDII FOEX HEALTH TEA	2022/05/11
2022/05201	SILICON CARBIDE SUPPORT FOR ZEOLITE MEMBRANES AND APPLICATION THEREOF IN ZEOLITE MEMBRANE	2022/05/11
2022/05236	AN ELECTRODE STRUCTURE OF DC LINK CAPACITOR	2022/05/11
2022/05241	THEMATIC APPLICATION PLATFORM FOR ZERO-CODE ASSEMBLY TECHNOLOGY	2022/05/12

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2022/05242	PREPARATION METHOD OF LONG-LIFE AND HIGH- RATE AL-NI CO-DOPED LITHIUM MANGANATE CATHODE MATERIAL	2022/05/12
2022/05243	METHOD FOR RAPIDLY MAKING ORNAMENTAL POTTED LANDSCAPE FOR SCENIC SPOTS	2022/05/12
2022/05244	DEVICE FOR TESTING THE UNDERCUTTING OF SILT- FINE SAND STRUCTURAL LAYER UNDER THE ACTION OF TEMPERATURE AND LOAD	2022/05/12
2022/05245	STEP CLEANING METHOD FOR CLAY SOIL POLLUTED BY HIGHLY DISPERSED PETROLEUM HYDROCARBON	2022/05/12
2022/05246	APPLICATION OF COMPOUND SWEETENER, SUGAR- REDUCED FREEZE-DRIED CANDIED JUJUBE AND PREPARATION PROCESS OF SUGAR-REDUCED FREEZE-DRIED CANDIED JUJUBE	2022/05/12
2022/05247	METHOD FOR DETERMINING THE SEGMENTATION THRESHOLD OF DIGITAL IMAGES BY USING GRADIENT INFORMATION	2022/05/12
2022/05249	A COLLOIDAL GOLD BASED LATERAL FLOW TEST STRIP FOR DETECTION OF BREAST CANCER AND A COLLOIDAL GOLD BASED LATERAL FLOW TEST STRIP FOR SIMULTANEOUS DETECTION OF BREAST CANCER AND CERVICAL CANCER	2022/05/12
2022/05250	BRAZIER TYPE GASIFICATION AND CARBONIZATION FURNACE	2022/05/12
2022/05251	EXPERIMENTAL DEVICE AND METHOD OF SIMULATING POLLUTANT TRANSPORT IN ROCK MASS FRACTURE NETWORK SYSTEM	2022/05/12
2022/05252	LAMP DETECTION METHOD OF AEROMONAS HYDROPHILA IN SHRIMP CULTURE	2022/05/12
2022/05253	ENZYME-LINKED IMMUNOSORBENT ASSAY KIT FOR BLOOD CELLS OF PORTUNUS TRITUBERCULATUS AND PREPARATION METHOD THEREOF	2022/05/12
2022/05254	PREPARATION METHOD OF HIGH-TEMPERATURE LONG-CYCLE NICKEL-COBALT CO-DOPED LITHIUM MANGANATE CATHODE MATERIAL	2022/05/12
2022/05255	A MEASUREMENT METHOD AND APPARATUS FOR THE RAPID DETERMINATION OF THE SIZE DISTRIBUTION OF RAIN DROPS	2022/05/12
2022/05256	MODULAR BUILDING HOISTING SYSTEM AND HOISTING METHOD THEREOF	2022/05/12
2022/05257	WELDING PROCESS FOR FILTER	2022/05/12
2022/05258	FLUORESCENCE IMMUNOASSAY EQUIPMENT	2022/05/12
2022/05259	CHEMICAL HERBICIDE COMPOSITION AND APPLICATION THEREOF	2022/05/12
2022/05262	METHOD FOR PREPARING AND CALIBRATING METALLIZED GERMANIUM TELLURIDE UNDER NON- HYDROSTATIC PRESSURE	2022/05/12
2022/05267	MULTIPURPOSE DRONE INTEGRATED WITH A SELF- DRIVEN ACTION TAKING ROBOT	2022/05/12
2022/05268	IOT BASED AUTOMATIC BIRD FEEDER	2022/05/12
2022/05269	A COMPOSITION TO PREPARE HYBRID COMPOUND CONTAINED 1,3 OXAZIN AND COUMARIN RING	2022/05/12

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2022/05270	A DEVICE AND A METHOD FOR DESIGNING REVERSIBLE REALIZATION OF 2:4 DECODER CIRCUIT	2022/05/12
2022/05310	METHOD FOR IMPROVING ACIDITY AND FERTILIZING OF TOBACCO PLANTING SOIL BY RECONSTRUCTING PLOUGH LAYER AND DOUBLE SYNCHRONIZATION	2022/05/13
2022/05311	MANAGEMENT SYSTEM BASED ON ACOUSTIC CHARACTERISTICS FOR PREVENTING BIRD DAMAGES IN THE ORCHARD	2022/05/13
2022/05312	FILM-COVERED OXYGEN-INCREASING FERMENTATION TOWER FOR CONTINUOUSLY AND RAPIDLY PRODUCING ORGANIC FERTILIZERS FROM DOMESTIC GARBAGE	2022/05/13
2022/05313	SOLAR PREFABRICATED WALL AND ITS MODULAR BUILDING UNIT	2022/05/13
2022/05315	LIDAR SAFETY CONTROL DEVICE	2022/05/13
2022/05316	MODULAR UNIT TRANSVERSE CONNECTION STRUCTURE AND CONSTRUCTION TECHNOLOGY THEREOF	2022/05/13
2022/05317	METHOD FOR EXTRACTING DRY SALT FLAT BASED ON SENTINEL-1 DATA	2022/05/13
2022/05318	METHOD FOR QUICKLY BREAKING AND DISMANTLING MASONRY ARCH BRIDGE BY RELEASING BRIDGE DECK CONSTRAINTS	2022/05/13
2022/05319	GIS SPATIAL INTERPOLATION SIMULATION METHOD FOR ESTIMATING SOIL ORGANIC CARBON STORAGE IN KARST AREA	2022/05/13
2022/05320	NEW COLD PROOF SYSTEM FOR METAL ENCLOSED SWITCH	2022/05/13
2022/05321	METHOD AND EQUIPMENT FOR DETECTING INSULATION PERFORMANCE OF COMBINED ELECTRIC APPLIANCE BASED ON PHOTOELECTRIC JOINT TECHNOLOGY	2022/05/13
2022/05327	METHOD FOR PREPARING SINGLE-CRYSTAL LOW- TITANIUM DRY FORSTERITE UNDER HIGH- TEMPERATURE AND HIGH-PRESSURE CONDITION	2022/05/13
2022/05328	METHOD FOR PREPARING SINGLE-CRYSTAL HIGH- TITANIUM HIGH-WATER MAFIC OLIVINE	2022/05/13
2022/05329	METHOD FOR PREPARING SINGLE-CRYSTAL HIGH- CHROMIUM HIGH-WATER COBALT OLIVINE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION	2022/05/13
2022/05330	METHOD FOR PREPARING SINGLE-CRYSTAL HIGH- VANADIUM HIGH-TITANIUM HIGH-WATER MANGANESS OLIVINE	2022/05/13
2022/05333	IMPROVED VOLUTE CASING HAVING OPTIMAL SEALED STRUCTURE	2022/05/13
2022/05334	SLIDING-BLOCK ENERGY-RELEASING STRUCTURE FOR BRIDGE PIER AND COMPUTING METHOD	2022/05/13
2022/05335	BRIDGE PIER PROTECTION STRUCTURE AND POSITION AND ANGLE CALCULATION METHOD THEREFOR	2022/05/13

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2022/05385	AIRPLANE SEAT BACKREST WITH LIFESAVING FUNCTION	2022/05/16
2022/05402	COMPLEX BACKGROUND SMALL-TARGET TRACKING DEVICE BASED ON MACHINE AND DEEP LEARNING	2022/05/16
2022/05404	METHOD FOR REGULATING SULFIDE ORE FLOTATION BY DISSOLVED OXYGEN CONTENT IN PULP	2022/05/17
2022/05405	AN ECOLOGICAL RESTORATION EQUIPMENT FOR HABITAT WATER BODY	2022/05/17
2022/05406	METHOD FOR IMPROVING TEA GARDEN SOIL IN PLATEAU MOUNTAINOUS AREA	2022/05/17
2022/05407	A METHOD AND A DEVICE FOR PREPARING A COPPER- ALUMINUM LAYERED COMPOSITE MATERIAL	2022/05/17
2022/05408	MICROBIAL DEGRADATION METHOD OF DEOXYNIVALENOL	2022/05/17
2022/05409	APPLICATION OF CINNAMIC ACID IN DIAPORTHE CITRI PREVENTION AND TREATMENT	2022/05/17
2022/05410	DIATOMITE-LOADED NITROGEN-DOPED NANO TITANIUM DIOXIDE ENVIRONMENTAL FUNCTIONAL MATERIAL	2022/05/17
2022/05412	KASP MARKER RELATED TO SOUTHERN CORN RUST RESISTANCE AND ITS APPLICATION	2022/05/17
2022/05413	DCAPS MOLECULAR MARKER BASED ON GENOME RE- SEQUENCING SNP AND ITS APPLICATION IN AEGILOPS-SEARSII	2022/05/17
2022/05414	BRIDGE STRUCTURE WITH DEICING AND ANTIFREEZING FUNCTIONS	2022/05/17
2022/05415	GLASSES FOR DETECTING MYOPIA DEGREE AND METHOD FOR DETECTING MYOPIA DEGREE	2022/05/17
2022/05416	PREPARATION METHOD OF CANNED SOUR FISH	2022/05/17
2022/05417	PREPARATION METHOD OF CANNED FISH WITH WINE FLAVOR	2022/05/17
2022/05418	A DATA RECORDER FOR LAKE BIOLOGICAL INVESTIGATION	2022/05/17
2022/05421	METHOD FOR PREPARING HIGH-TITANIUM, HIGH- VANADIUM, HIGH-CHROMIUM AND HIGH-WATER SINGLE-CRYSTAL MONTICELLITE	2022/05/17
2022/05427	INSPECTION METHOD FOR METALLIZED POLYPROPYLENE FILM FOR DC LINK CAPACITOR	2022/05/17
2022/05449	MULTI-ROPE HOISTING SYSTEM FOR ULTRA-DEEP VERTICAL SHAFTS	2022/05/17
2022/05461	APPLICATION OF FLUDIOXONIL COMBINED WITH CHITOSAN OLIGOSACCHARIDE IN CONTROLLING STORAGE DISEASES OF FRUITS AND VEGETABLES	2022/05/18
2022/05462	IMPROVED FACILITY FOR HYDROGEN PRODUCTION FROM NATURAL GAS	2022/05/18
2022/05465	DEPTH-ADJUSTABLE SOIL CARBON DIOXIDE COLLECTING DEVICE AND USING METHOD THEREOF	2022/05/18
2022/05466	ROBUST IMAGE SPARSE MATCHING METHOD FOR HIGH-PRECISION AERIAL SURVEY, STORAGE MEDIUM AND UNMANNED AERIAL VEHICLE	2022/05/18
2022/05467	COMBINE EQUIPMENT FOR CULTURE DISSEMINATION AND TEACHING	2022/05/18

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2022/05468	A DOPING METHOD OF HIGH-DENSITY POZZOLANIC CONCRETE AND POZZOLAN	2022/05/18
2022/05469	BLOCKCHAIN-BASED CROSS-BORDER TRADE LOGISTICS BUSINESS PROCESSING METHOD AND APPARATUS USING THE	2022/05/18
2022/05470	AN AIR-DRYING TRAY WITH A MICRO-VENTILATION SYSTEM THAT CAN BE FOLDED TO ACCOMMODATE SOIL SAMPLES	2022/05/18
2022/05471	ROCK BURST TENDENCY PREDICTION METHOD CONSIDERING THE PLASTIC ZONE AND RADIAL STRESS OF TUNNEL	2022/05/18
2022/05472	A HYDROGEL OF EUMOF COATED WITH AGAROSE AND ITS PREPARATION AND APPLICATION	2022/05/18
2022/05473	SPHERICAL IN-LINE INSPECTION SYSTEM FOR GAS PIPELINE	2022/05/18
2022/05474	METHOD FOR PREPARING HIGH-CALCIUM, HIGH- MANGANESE AND HIGH-WATER SINGLE-CRYSTAL ENSTATITE	2022/05/18
2022/05475	METHOD FOR PREPARING HIGH-TITANIUM, HIGH- VANADIUM AND HIGH-WATER SINGLE-CRYSTAL HYPERSTHENE	2022/05/18
2022/05476	5G COMMUNICATION TOWER WITH HIGH SAFETY MAINTENANCE	2022/05/18
2022/05477	INTELLIGENT METHOD AND SYSTEM FOR CONSTRUCTING ARTIFICIAL LEG PARTITIONEDLY	2022/05/18
2022/05481	ANTI-STRESS PET HEALTH FOOD AND PREPARATION METHOD THEREOF	2022/05/18
2022/05483	INDOOR ENVIRONMENT HEALTH DEGREE REGULATING METHOD AND SYSTEM BASED ON MACHINE VISION	2022/05/18
2022/05490	METHOD FOR INTRODUCING A GAS, AND GASSING DEVICE	2022/05/18
2022/05642	METHOD FOR PREPARING HIGH-NICKEL, HIGH-ZINC AND HIGH-WATER SINGLE-CRYSTAL DIOPSIDE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION	2022/05/23
2022/05643	METHOD FOR PREPARING HIGH-SCANDIUM, HIGH- ZIRCONIUM AND HIGH-WATER SINGLE-CRYSTAL HEDENBERGITE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION	2022/05/23
2022/05684	METHOD FOR CROSSBREEDING PELTEOBAGRUS FULVIDRACO AND LEIOCASSIS CRASSILABRIS	2022/05/24
2022/05685	GREENHOUSE	2022/05/24
2022/05686	SAMPLING DEVICE FOR SOIL MONITORING	2022/05/24
2022/05687	REINFORCEMENT METHOD OF EXISTING PILE FOUNDATION BASED ON GROUT CONTROL	2022/05/24
2022/05688	HEALTH-PRESERVING BLENDED WINE PREPARED FROM HERBA DENDROBII AND POLYGONATI RHIZOMA AND PREPARATION METHOD THEREOF	2022/05/24
2022/05689	LIQUID COMPOUND MICROBIAL BACTERIAL FERTILIZER AND PREPARATION METHOD THEREOF	2022/05/24

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2022/05690	APPLICATION OF TROPHININ-ASSOCIATED PROTEIN (TROAP) IN PREPARATION OF PROGNOSIS PRODUCTS AND THERAPEUTIC DRUGS FOR RENAL CELL CARCINOMA	2022/05/24
2022/05691	CERAMIC MOLDING EQUIPMENT BASED ON 3D PRINTING TECHNOLOGY	2022/05/24
2022/05693	SOLAR DEWATERING DRYER FOR COOKED VEGETABLES AND FRUITS	2022/05/24
2022/05697	SEPARATION AND PURIFICATION METHOD FOR CORDYCEPS CICADAE POLYSACCHARIDE WITH ANTI- RADIATION EFFECT	2022/05/24
2022/05698	ALFALFA-TYPE COMPLETE PELLET FEED CAPABLE OF REDUCING CHOLESTEROL CONTENT IN EGGS OF LAYING HEN	2022/05/24
2022/05699	HEALTH-PRESERVING TEA COMPOSITION FOR REDUCING BLOOD SUGAR AND BLOOD FAT	2022/05/24
2022/05700	PRIMER COMBINATION FOR C-KIT GENE MUTATION DETECTION AND APPLICATION THEREOF	2022/05/24
2022/05701	FLAT-BED MECHANICAL PRECISE COMBINED SEED AND FERTILIZER DRILL FOR TRADITIONAL CHINESE MEDICINAL MATERIALS	2022/05/24
2022/05702	PREPARATION METHOD OF PREMIXED PUMPING CONCRETE BY USING COAL GASIFICATION SLAG BASED LOW-CARBON CEMENTING MATERIAL	2022/05/24
2022/05703	HIGH-TEMPERATURE RESISTANT PREPARATION FOR DRY AND HOT WIND OF WHEAT	2022/05/24
2022/05704	COLD-PROOF AGENT FOR WHEAT COLD IN LATE SPRING	2022/05/24
2022/05705	REAL-TIME FAULT DETECTION SYSTEM AND METHOD OF VIBRATING SCREEN	2022/05/24
2022/05706	PREPARATION METHOD OF MOLYBDENUM PLANAR SPUTTERING TARGET MATERIAL	2022/05/24
2022/05712	A COMPOUND PIEZOELECTRIC ACTUATOR FOR VIBRATION SUPPRESSION OF BEAM STRUCTURE	2022/05/24
2022/05713	NEW FINAL DECISION-MAKING METHOD OF CLASSIFICATION RESULTS FROM MULTI-CLASS SUPPORT VECTOR MACHINE	2022/05/24
2022/05718	DESIGN AND PROCESSING PLATFORM FOR MECHANICAL PARTS	2022/05/24
2022/05767	PLEUROTUS OSTREATUS CULTIVATION SUBSTRATE AND PREPARATION METHOD THEREOF	2022/05/25
2022/05768	MULTI-DIMENSIONAL AND MULTI-SUBSET DATA AGGREGATION METHOD AGAINST RECONSTRUCTION ATTACK FOR SMART GRID	2022/05/25
2022/05769	VERTICAL ROTARY WEDM MACHINE TOOL	2022/05/25
2022/05770	NOVEL FFA1 AGONIST, ITS PREPARATION METHOD AND APPLICATION AS MEDICINE	2022/05/25
2022/05771	METHOD FOR INDUCING SPAWNING OF SINGLE INDIVIDUALS OF PARENT APOSTICHOPUS JAPONICUS	2022/05/25
2022/05772	HIGH-PERFORMANCE LOW-NOISE ASPHALT PAVEMENT MAINTENANCE MATERIAL AND PREPARATION METHOD THEREOF	2022/05/25

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2022/05773	A GUAIANE-TYPE SESQUITERPENE COMPOUND, PREPARATION METHOD AND ITS APPLICATION	2022/05/25
2022/05775	A PREPARATION METHOD OF PAPER-SUPPORTED BISMUTH TELLURIDE BASED NANOWIRES FLEXIBLE THERMOELECTRIC COUPLE TEMPERATURE SENSOR	2022/05/25
2022/05776	MULTIFUNCTIONAL FOOD DETECTION PLATFORM	2022/05/25
2022/05777	A THIN-SHELLED PECAN SEEDLING GROWTH INDUCER COMPOSITION AND ITS PREPARATION AND APPLICATION	2022/05/25
2022/05778	A HYPERMETROPIC CONVOLUTIONAL NEURAL NETWORK DEVICE FOR SMALL SIZE OBJECT DETECTION AND A METHOD THEREOF	2022/05/25
2022/05779	METHOD FOR PRODUCING CALCIUM CARBIDE RAW MATERIALS THROUGH CARBIDE SLAG	2022/05/25
2022/05780	MEASUREMENT METHOD OF STRESS CONCENTRATION FACTORS AND FATIGUE NOTCH FACTORS FOR TWO-DIMENSIONAL SURFACE TOPOGRAPHY	2022/05/25
2022/05781	TEST PLATFORM FOR FOUR-WHEEL INDEPENDENT DRIVE INDEPENDENT STEERING ELECTRIC SPRAYER WORKING VEHICLE	2022/05/25
2022/05782	NOVEL TRANSPLANTING MACHINE AUTOMATIC FEEDING DEVICE	2022/05/25
2022/05783	NUMERICAL SIMULATION AND OPTIMIZATION METHOD FOR PARAMETERS OF SOLID-SOLID SEPARATION HYDRO-CYCLONES	2022/05/25
2022/05784	BIOMASS ENGINEERING MATERIAL TRUSS	2022/05/25
2022/05791	DEVELOPMENT AND EXPERIMENT PLATFORM FOR ELECTRONIC PRODUCTS	2022/05/25
2022/05792	EFFICIENT PLASTIC PLATE PRINTING DEVICE CONVENIENT TO OPERATE	2022/05/25
2022/05808	TAMPER-RESISTANT GATE LOCK	2022/05/25
2022/05818	MAGNESIUM OXYCHLORIDE CEMENT ADDITIVE FOR 3D PRINTING AND APPLICATION THEREOF	2022/05/26
2022/05819	A RICE PLANTING METHOD THAT SAVES WATER AND FERTILIZER	2022/05/26
2022/05820	PLEUROTUS GEESTERANUS CULTIVATION SUBSTRATE AND PREPARATION METHOD THEREOF	2022/05/26
2022/05821	GRINDING EQUIPMENT WITH LIQUID CO2 AS SOLVENT	2022/05/26
2022/05823	PREPARATION METHOD OF GRAPHENE MODIFIED ASPHALT	2022/05/26
2022/05829	INTELLIGENT CONSTRUCTION MANAGEMENT METHOD AND DEVICE FOR STADIUM CABLE-NET STRUCTURE	2022/05/26
2022/05830	NOVEL INTERACTION MACHINE INTEGRATED WITH INTELLIGENT LANGUAGE PROCESSING	2022/05/26
2022/05832	NOVEL WALL-FIXING ANTI-COLLAPSE COMPOSITE SLURRY FOR UNDERGROUND DRILLING AND PREPARATION METHOD THEREOF	2022/05/26
2022/05835	A SYSTEM FOR DISTRIBUTED DENIAL OF SERVICE ATTACK DETECTION AND MITIGATION USING FOG NODES IN IOT ENVIRONMENT	2022/05/26
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2022/05837	A DEVICE OF DEVELOPING A BIS (SULFANYLIDENE)TUNGSTEN AND A SPIRO-OMETAD BASED EFFICIENT PEROVSKITE SOLAR CELL	2022/05/26
2022/05887	TELESCOPIC HEADER	2022/05/27
2022/05888	BREED METHOD OF MUTTON SHEEP NEW STRAIN	2022/05/27
2022/05889	APPLICATION OF EXOSOME MIRNA BIOMARKER AND KIT FOR RAPIDLY DIAGNOSING TUBERCULOSIS	2022/05/27
2022/05890	A HIGH FLUORESCENCE INTENSITY SILICON DOPED CARBON QUANTUM DOT AND ITS PHOTOCHEMICAL SYNTHESIS METHOD AND APPLICATION	2022/05/27
2022/05891	FLAME-RETARDANT EPOXY RESIN COMPOSITE MATERIAL AND ITS PREPARATION METHOD	2022/05/27
2022/05892	POLYETHYLENE TEREPHTHALATE COMPOSITE AND ITS PREPARATION METHOD	2022/05/27
2022/05894	POLYURETHANE FLAME-RETARDANT COMPOSITE MATERIAL AND ITS PREPARATION METHOD	2022/05/27
2022/05895	POLICYLENE TEREPHTHALATE FLAME RETARDANT COMPOUND AND ITS PREPARATION METHOD	2022/05/27
2022/05896	NOVEL LINEAR POLYURETHANE AND ITS SYNTHESIS METHOD	2022/05/27
2022/05897	NEW CROSS-LINKED POLYURETHANE AND ITS SYNTHESIS METHOD	2022/05/27
2022/05907	AI-ASSISTED SYSTEM FOR AUTO DIAGNOSIS AND DETECTION OF EPILEPTIC SEIZURE TO AVOID FUTURE RECURRENCE	2022/05/27
2022/05908	INTERNET OF THINGS BASED MULTI PARAMETER MEASURING AND DATA PROCESSING SYSTEM	2022/05/27
2022/05909	INBUILT TWO TIER JACK ASSEMBLY FOR VEHICLE	2022/05/27
2022/05963	METAL LITHIUM NEGATIVE ELECTRODE AND PREPARATION METHOD THEREOF	2022/05/30
2022/05964	COAL MINE ROCK BURST PREVENTION TUNNELING METHOD BASED ON FAULT RICH CONFINED WATER FREEZING METHOD	2022/05/30
2022/05965	EVALUATION METHOD OF URBAN LOW-CARBON PASSENGER TRAFFIC STRUCTURE BASED ON GAME COMBINATION WEIGHTING	2022/05/30
2022/05966	A METHOD OF REJUVENATION OF NON-IRRIGATION HALOXYLON AMMODENDRON PLANTATION DEGRADATION IN ARID AREA	2022/05/30
2022/05967	A METHOD OF SOWING HERBACEOUS PLANTS WITH SNOW WATER ON THE SLOPE OF ARID AREAS	2022/05/30
2022/05970	TRICHOSANTHES KIRILOWI SEED BEVERAGE AND PREPARATION METHOD THEREFOR	2022/05/30
2022/05971	MACA BEVERAGE AND PROCESSING METHOD THEREFOR	2022/05/30
2022/05972	A NOVEL OUTSOURCED FUZZY KEYWORDS ENABLED RANKED SEARCHABLE CP-ABE SCHEME IN CLOUD ENVIRONMENTS	2022/05/30
2022/05973	A COMPOUND SODIUM BUTYRATE PLANT ESSENTIAL OIL MICROCAPSULE AND ITS PREPARATION METHOD	2022/05/30

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2022/05974	A NOVEL PROTECTION METHOD OF CONTINUOUS LOCATION SHARING BASED ON LOCAL DIFFERENTIAL PRIVACY AND CONDITIONAL RANDOM FIELD	2022/05/30
2022/05975	MEDICAL DEVICE FOR PREVENTING PRICKING WOUND OF DENTAL MEDICAL STAFF	2022/05/30
2022/05976	AUTOMATIC CLAMP FOR OPTICAL GLASS COATING	2022/05/30
2022/05977	BBFAD: A NOVEL BACKDOOR DETECTION ALGORITHM BASED ON INPUT ACTIVATION	2022/05/30
2022/05978	METHOD FOR PREPARING LIAL0.04MN1.96O4 CATHODE MATERIAL	2022/05/30
2022/05979	METHOD FOR PREPARING INTERFACE LAYER ON SOLID ELECTROLYTE/LITHIUM NEGATIVE ELECTRODE	2022/05/30
2022/05980	ASPERGILLUS BRUNNEOVIOLACEUS STRAIN AND USE THEREOF	2022/05/30
2022/05981	A WETLAND HEALTH EVALUATION METHOD BASED ON PSR-BP NEURAL NETWORK	2022/05/30
2022/05982	ENVIRONMENTAL MAPPING METHOD FOR SELF- ELEVATING DRILLING PLATFORM	2022/05/30
2022/05983	METHOD FOR MONITORING DATA OF RUNNING MOVEMENT	2022/05/30
2022/05993	FUSION COVERT CHANNEL CONSTRUCTION METHOD AND SYSTEM	2022/05/30
2022/05994	REVERSIBLE THERMAL WARNING AND ENVIRONMENTAL PROTECTION FLAME-RETARDANT PROTECTIVE SHEATH	2022/05/30
2022/06105	A METHOD FOR CALCULATING DISTANCE FROM GOLF YARDAGE POINT TO HOLE CUP AND RELATED PRODUCTS	2022/06/01
2022/06189	METHOD FOR PREPARING GEOPOLYMER CONCRETE USING COAL-FIRED SULFUR-FIXING ASH SLAG	2022/06/03
2022/06191	A METHOD FOR PREPARING AND EVALUATING BIOACTIVE LUPEOL FOR MANAGING FUNCTIONAL GASTROINTESTINAL DISORDERS	2022/06/03
2022/06226	A SYSTEM AND A METHOD FOR DEVNAGARI SIGN LANGUAGE RECOGNITION	2022/06/06
2022/06227	STEERING MECHANISM AND GIRDER TRANSPORTING VEHICLE	2022/06/06
2022/06228	HETEROGENEOUS PERSULFATE CATALYST, PREPARATION AND APPLICATION THEREOF	2022/06/06
2022/06229	PLASMA STERILIZING DEVICE	2022/06/06
2022/06230	A HYDRODYNAMIC MODEL FOR EFFECT ANALYSIS OF URBAN FLOOD RESILIENCE FACILITIES	2022/06/06
2022/06231	SILICON CARBIDE WHISKER/ALUMINIUM OXIDE CERAMIC COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF	2022/06/06
2022/06232	DETECTION METHOD FOR HIGH-DIMENSIONAL BIG DATA OUTLIER	2022/06/06
2022/06233	PREDICTION METHOD OF BUS ARRIVAL TIME BASED ON PARTICLE SWARM OPTIMIZATION	2022/06/06
2022/06234	METHOD FOR CONSTRUCTING FINGERPRINT SPECTRUM OF LYCII FRUCTUS	2022/06/06

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2022/06235	MULTI-RELATIONSHIP FUSION METHOD AND SMART MULTI-RELATIONSHIP FUSION SYSTEM FOR COVERT- LINKING-BASED KNOWLEDGE DISCOVERY	2022/06/06
2022/06236	METHOD FOR PREPARING HIGH-PERFORMANCE LITHIUM MANGANATE CATHODE MATERIAL BY DOPING NICKEL	2022/06/06
2022/06241	WALKING STICK CAPABLE OF AUTOMATICALLY STANDING UP	2022/06/06
2022/06244	METHOD FOR PREPARING C/SIOX COMPOSITE LITHIUM BATTERY NEGATIVE ELECTRODE MATERIAL FROM LIQUID WASTES OBTAINED BY ALKALI TREATMENT OF NON-WOOD PAPERMAKING MATERIALS	2022/06/06
2022/06402	AN INTERVENTIONAL DEVICE FOR NURSING	2022/06/09
2022/06403	A CLEANING DEVICE	2022/06/09
2022/06404	METHOD FOR CULTURING LARVAE OF MACROBRACHIUM ROSENBERGII	2022/06/09
2022/06405	HIGH-YIELD STRAIN OF DALBAVANCIN PRECURSOR A40926B0 AND ITS APPLICATION	2022/06/09
2022/06406	CONSTRUCTION METHOD OF SEMI-CYLINDRICAL PILE FOR CUT-AND-COVER STATION	2022/06/09
2022/06407	WATER RESOURCE ASSET ACCOUNTING APPARATUS	2022/06/09
2022/06408	AN ENCRYPTION SYSTEM BASED ON AUTOMATIC TEXT SELECTION	2022/06/09
2022/06409	ELECTRIC FLOWER STAND FOR BALCONY PLANTING	2022/06/09
2022/06410	LEV GRAVITATIONAL POTENTIAL ENERGY SELF- PRESSURIZATION TYPE POWER GENERATION METHOD	2022/06/09
2022/06411	SELF-DEBUGGING GENERATOR BASE ON GRAVITATIONAL POTENTIAL ENERGY	2022/06/09
2022/06412	MULTI-CHANNEL ON-SITE IDENTIFICATION DEVICE FOR PRECURSOR CHEMICALS AND DETECTION METHOD THEREOF	2022/06/09
2022/06417	LORA-BASED LOW-POWER ENVIRONMENT MONITORING DISPLAY NODE AND USE METHOD THEREOF	2022/06/09
2022/06421	GRAVE PROTECTION MATERIAL AND PREPARATION METHOD THEREOF	2022/06/09
2022/06422	COMBINED TREATMENT METHOD AND SYSTEM FOR RIVER WATER QUALITY IMPROVEMENT AND ESTUARY WETLAND RESTORATION	2022/06/09
2022/06424	ONE-COMPONENT ALKALI ALUMINOSILICATE CEMENT	2022/06/09
2022/06452	MIXED SOWING PLANTING TECHNOLOGY OF PANICUM VIRGATUM L. AND WILD GLYCINE MAX (LINN.) MERR. IN SALINE-ALKALI LAND	2022/06/10
2022/06453	CONSTRUCTION METHOD FOR STRENGTHENING COLUMN MEMBER WITH PRESTRESSED HIGH- STRENGTH FIBER CLOTH	2022/06/10
2022/06454	INDUCER AND INDUCTION METHOD FOR IMPROVING THE PERFORMANCE OF PEAR NECTAR COLLECTION BY BEES	2022/06/10

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2022/06455	METHOD FOR PREPARING HIGH-DESULFURIZATION- ACTIVITY HYDROTREATING CATALYST CARRIER AND CATALYST	2022/06/10
2022/06456	ANALYSIS METHOD OF FLOATING AMOUNT OF SINGLE SEGMENT UNDER SYNERGISTIC EFFECT OF GROUP FORCES	2022/06/10
2022/06457	RAPID GRINDING DEVICE FOR CAST CONCRETE IN WET JOINT	2022/06/10
2022/06458	PRIMER COMBINATION FOR DETECTING PURITY OF MINI-WATERMELON HYBRID CITRULLUS LANATUS CV. QIONGLI AND METHOD AND USE THEREOF	2022/06/10
2022/06459	A PRECISE MEDICATED DIET PRODUCT FOR RHEUMATOID ARTHRITIS AND A PREPARATION METHOD THEREOF	2022/06/10
2022/06460	A PRECISE MEDICATIVE DIET FOR FOOD THERAPY FOR PREVENTING AND TREATING FUNCTIONAL DYSPEPSIA AND ITS PREPARATION METHOD	2022/06/10
2022/06461	EVALUATION METHOD OF TUNNELING SPEEDS OF TBM-EPB SHIELD MACHINES BASED ON GA-BP NEURAL NETWORK	2022/06/10
2022/06462	EVALUATION METHOD OF BUILDING DAMAGES CAUSED BY SYNERGISM OF DISTURBANCE STRESSES IN SHIELD TUNNELING	2022/06/10
2022/06465	ULTRA-SHORT BASELINE UNDERWATER ACOUSTIC POSITIONING SYSTEM FOR SIMULATION BASED ON DIGITIZED MODELS AND DEBUGGING METHOD	2022/06/10
2022/06466	CONDITIONING DEVICE FOR AQUATIC FEED PRODUCTION	2022/06/10
2022/06469	FOLIAR FERTILIZER FOR REDUCING CADMIUM CONTENT IN PEANUT, PREPARATION METHOD AND USE THEREOF	2022/06/10
2022/06476	BARBED WIND EROSION DRILL ROD WITH LEVELING FUNCTION	2022/06/10
2022/06503	A PRECISE MEDICATED DIET AND FOOD THERAPY PRODUCT FOR CHRONIC HEPATITIS AND A PREPARATION METHOD THEREOF	2022/06/13
2022/06504	DETERMINATION METHOD AND DETERMINATION SYSTEM OF THREE-DIMENSIONAL (3D) LANDSCAPE INDEX OF GREEN SPACE	2022/06/13
2022/06505	CONSTANT TEMPERATURE WATER BATH COAGULATION TEST AGITATOR	2022/06/13
2022/06506	HEIGHT ADJUSTABLE HEAT DISSIPATION APPARATUS	2022/06/13
2022/06508	STABILIZATION AUXILIARY DEVICE FOR STEEL BAR CUTTER	2022/06/13
2022/06509	PURIFICATION DEVICE FOR GROUNDWATER CIRCULATION WELL AND USAGE METHOD	2022/06/13
2022/06510	METHOD FOR IMPROVING GEL CHARACTERISTICS OF LOW-SALT MINCED MEAT BY MEANS OF STRAW MUSHROOM LIPOXYGENASE	2022/06/13
2022/06512	ANTI-WHITENING STONE-LIKE PAINT FOR EXTERIOR WALLS AND ITS PREPARATION METHOD	2022/06/13

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2022/06514	UPWARD HORIZONTAL SLICING ALONG-STRIKE DRIFT STEP-BY-STEP MINING METHOD	2022/06/13
2022/06515	TROUSERS FOR LOWER LIMB REHABILITATION OF CHILD WITH CEREBRAL PALSY	2022/06/13
2022/06516	FUNCTIONAL POSTPARTUM BED	2022/06/13
2022/06517	A FLYING POTHOLE SURVEILLANCE SYSTEM	2022/06/13
2022/06519	AN UNMANNED AERIAL VEHICLE FOR HIGH-END PRECISION AGRICULTURE USING AUTOPILOT TECHNOLOGY	2022/06/13
2022/06528	PUMP PERFORMANCE DATA TREATMENT AND MANAGEMENT SYSTEM AND MANAGEMENT METHOD	2022/06/13
2022/06602	A DATA ACQUISITION SYSTEM AND A METHOD THEREOF	2022/06/15
2022/06604	SOILLESS CULTURE SUBSTRATE FOR MELON AND FRUIT VEGETABLES AND APPLICATION THEREOF	2022/06/15
2022/06605	ELECTRIC PEANUT SHELLER	2022/06/15
2022/06606	PEANUT PICKING MACHINE CAPABLE OF QUICKLY PICKING PEANUTS	2022/06/15
2022/06607	SOILLESS CULTURE SUBSTRATE FOR LEAFY VEGETABLES AND APPLICATION THEREOF	2022/06/15
2022/06608	KNEE JOINT REHABILITATION APPARATUS	2022/06/15
2022/06609	A CALCULATION METHOD OF GLACIER MELTING WATER IN ARID AREA CONSIDERING GLACIER DYNAMIC CHANGES	2022/06/15
2022/06610	ZEOLITE MEMBRANE SUPPORT AND PREPARATION METHOD THEREOF	2022/06/15
2022/06611	STATOR SEGMENTED DISLOCATION TYPE OUTER ROTOR DIRECT-DRIVE PERMANENT MAGNET MOTOR FOR BELT CONVEYOR	2022/06/15
2022/06612	SYNERGISTIC REDUCED PESTICIDE COMPOSITION CONTAINING ENESTROBURIN	2022/06/15
2022/06613	UNIVERSAL PROTOCOL CONVERSION DEVICE AND METHOD	2022/06/15
2022/06614	COLD-HEAT PROOF BRIDGE NODE FOR CANTILEVER SLAB COMPONENTS AND ITS BUILDINGS	2022/06/15
2022/06615	FLEXIBLE JOINT CONNECTION STRUCTURE FOR STEEL STRUCTURE BRIDGE DECK AND CONSTRUCTION METHOD THEREOF	2022/06/15
2022/06616	REINFORCING DEVICE AND REINFORCING EFFECT COMPUTING AND ANALYZING METHOD FOR SELF- SUPPORTING TUBULAR STRUCTURE	2022/06/15
2022/06617	UNSUPPORTED TIRE FRAME UNIVERSAL DEVICE FOR CONSTRUCTION OF SPECIAL-SHAPED SPACE TRUSS AND ITS CONSTRUCTING METHOD	2022/06/15
2022/06618	NOVEL IOT BASED SOLUTION FOR GARBAGE LEVEL DETECTION	2022/06/15
2022/06619	TECHNOLOGY FOR EVALUATING AND PREDICTING FULL LIFE CYCLE OF CLASTIC ROCK RESERVOIR	2022/06/15
2022/06620	A INTELLIGENT MOBILE BATTERY-CHANGING STATION	2022/06/15
2022/06621	A CLEANING ROBOT AND AN INTELLIGENT CLEANING	2022/06/15
	AND TRANSPORTATION SYSTEM	

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2022/06623	DETECTION DEVICE FOR CONCENTRATION OF HYDROCARBON CONTAINED IN DRILLING LIQUID	2022/06/15
2022/06624	DSA EXAMINATION ROOM INTELLIGENT OPERATION CABINET	2022/06/15
2022/06625	HIGH-SPEED PHYSICAL RANDOM NUMBER GENERATOR BASED ON CHAOTIC LASER ENTROPY SOURCE	2022/06/15
2022/06626	DOWNHOLE EQUIPMENT WHILE-DRILLING SAMPLE POOL FOR LOGGING WHILE DRILLING	2022/06/15
2022/06627	A CLEANING MODULE AND ITS PRINTING MACHINE	2022/06/15
2022/06628	RICE MILLING MACHINE FOR PROCESSING RICE	2022/06/15
2022/06629	FERMENT FRUIT WINE JELLY FOR ASSISTING SLEEP AND PREPARATION METHOD THEREOF	2022/06/15
2022/06630	A TRACTOR AND BUILDING WASTE INTELLIGENT CLEANING AND TRANSPORTATION SYSTEM	2022/06/15
2022/06631	A BUILDING WASTE INTELLIGENT CLEANING AND TRANSPORTATION SYSTEM	2022/06/15
2022/06632	A STORAGE STATION AND BUILDING WASTE INTELLIGENT CLEANING AND TRANSPORTATION SYSTEM	2022/06/15
2022/06633	A GLUE REMOVING MECHANISM AND ITS PRINTING MACHINE	2022/06/15
2022/06634	A GRINDING FIXTURE FOR GEAR GENERATOR CYLINDER SLEEVE TOOTH-SHAPING PROCESSING	2022/06/15
2022/06681	A FACIAL EXPRESSION RECOGNITION METHOD BASED ON DEEP SPATIOTEMPORAL FEATURES	2022/06/17
2022/06682	A HIGH-CONSISTENCY NEURAL CRYPTOGRAPHY	2022/06/17
2022/06683	ERBIUM-CONTAINING ALUMINUM MAGNESIUM WIRE AND MANUFACTURING METHOD THEREOF	2022/06/17
2022/06684	ALUMINUM-MAGNESIUM-YTTRIUM MASTER ALLOY PREPARED WITH MAGNESIOTHERMIC REDUCTION PROCESS, AND PREPARATION METHOD THEREOF	2022/06/17
2022/06686	METHOD FOR PREPARING GRAPHENE REINFORCED NONMETAL MATRIX COMPOSITE BY STEPWISE FEEDING BALL MILLING AND HOT PRESSING SINTERING	2022/06/17
2022/06687	IN-SITU MEASUREMENT SYSTEM AND METHOD FOR MEDIUM- AND LOW-FREQUENCY ACOUSTIC PROPERTIES OF SEAFLOOR SEDIMENTS	2022/06/17
2022/06689	AUTOMATIC CONTROL SYSTEM OF GRAIN DRYER	2022/06/17
2022/06690	WIRE-CUT ELECTRICAL DISCHARGE MACHINING (WEDM) DEVICE WITH CONVEX TOOTH STRUCTURE, AND WIRE ELECTRODE	2022/06/17
2022/06691	REFLECTIVE MEMORY CARD, REFLECTIVE MEMORY NET AND ACCESS METHOD OF REFLECTIVE MEMORY CARD	2022/06/17
2022/06692	FOUR-LEVEL SAFETY PROTECTION METHOD FOR ULTRA-HIGH PRESSURE WATER JET DEVICE	2022/06/17
2022/06693	INFRARED POLARIZED FACE RECOGNITION METHOD BASED ON RGB COLOR SPACE	2022/06/17
2022/06694	METHOD FOR ACCELERATING MATURATION OF MONOSTROMA ALGEA	2022/06/17

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2022/06700	DRUG-NAMED ENTITY RECOGNITION AND ENTITY NORMALIZATION METHOD	2022/06/17
2022/06704	CONCRETE SULFURATION TEST SIMULATION SYSTEM AND ITS SIMULATION METHOD	2022/06/17
2022/06706	FOREST RESOURCE INFORMATION COLLECTION SYSTEM	2022/06/17
2022/06707	FOREST TREE INFORMATION INVESTIGATION SYSTEM AND METHOD	2022/06/17
2022/06712	KLUYVERA ASCORBATA AND APPLICATION THEREOF	2022/06/17
2022/06713	METHOD OF VIRUS-FREE BY ENCAPSULATION- VITRIFICATION THERAPY OF ALPINE POTATO IN HUAIYU MOUNTAIN	2022/06/17
2022/06715	DEVICE FOR IMPROVING CHILDREN'S INTELLIGENCE THROUGH DIRECT CURRENT STIMULATION	2022/06/17
2022/06716	LUFFAH SPONGE FILLER FOR BIOLOGICAL PRETREATMENT OF SLIGHTLY POLLUTED SOURCE WATER AND PRETREATMENT METHOD THEREOF	2022/06/17
2022/06717	A METHOD FOR SCREENING ANIMAL DISEASE RESISTANCE BREEDING	2022/06/17
2022/06718	TRANSCRANIAL ELECTRIC STIMULATION HEADGEAR	2022/06/17
2022/06720	ROOM TEMPERATURE CONTROL SYSTEM FOR INTELLIGENT HEATING BASED ON MACHINE LEARNING ALGORITHM	2022/06/17
2022/06721	MACHINE LEARNING ALGORITHM-BASED INDOOR TEMPERATURE SOFT SENSING SYSTEM	2022/06/17
2022/06722	HIGH-OXYGEN-CONTAINING CARBON BLACK DISPERSION SOLUTION AND PREPARATION METHOD FOR CARBON-BLACK-LOADED IRON OXIDE	2022/06/17
2022/06723	A PROTECTIVE CONSIGNMENT ROBOT FOR INTELLIGENT FACTORY BASED ON 5G	2022/06/17
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2022/06733	A MEDICAL CRYOGENIC STORAGE BOX WITH DOUBLE EVAPORATORS	2022/06/17

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2022/06773	FINTECH AND FINANCIAL INCLUSION SYSTEM FOR TESTING THE MEDIATING EFFECT OF DIGITAL FINANCIAL LITERACY	2022/06/20
2022/06774	CONSTRUCTION METHOD FOR FOUNDATION PIT SUPPORT BY USING SPARSE PILES AND CURVED- FACE PLATE SHELLS	2022/06/20
2022/06775	REINFORCEMENT METHOD FOR GRID STRUCTURE ROD PIECE	2022/06/20
2022/06776	A RAPID PREPARATION AND DRYING METHOD OF GYPSUM BOARD FOR LABORATORY	2022/06/20
2022/06777	PGJMT1 GENE FOR REGULATING METHYL JASMONATE SYNTHESIS IN GINSENG AND ITS APPLICATION	2022/06/20
2022/06779	A METHOD FOR SEPARATING AND IDENTIFYING DUCK CIRCOVIRUS BY LMH CELLS IN VITRO	2022/06/20
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2022/06781	A METHOD FOR PREPARING BIGEMINAL INACTIVATED VACCINE OF NEWCASTLE DISEASE VIRUS (GENE TYPEVII) AND AVIAN INFLUENZA VIRUS (H9 SUBTYPE)	2022/06/20
2022/06782	PREPARATION AND USE OF RECOMBINANT STRONGYLOCENTROTUS INTERMEDIUS LYSOZYME PREPARATION USING PICHIA PASTORIS	2022/06/20
2022/06785	AUTOMATIC SPRINKLER SYSTEM FOR BUILDING OUTER WALLS	2022/06/20
2022/06787	A MULTI-REGRESSION GRAPE WEIGHT PREDICTION SYSTEM AND A METHOD THEREOF	2022/06/20
2022/06791	MUDRA PRABHA	2022/06/20
2022/06796	PLACEMENT AND WITHDRAWAL DEVICE FOR INTERNAL DETECTOR OF PIPELINE, PLACEMENT AND WITHDRAWAL METHOD, AND INTERNAL DETECTOR	2022/06/20
2022/06798	MULTI-SECTION SPHERICAL INTERNAL DETECTOR FOR PIPELINE	2022/06/20
2022/06800	ONE-STEP MOLDING PROCESS FOR MINING VEHICLE CAB COVER	2022/06/20
2022/06801	A CLOUD DETECTION METHOD BASED ON LANDSAT 8 SNOW-CONTAINING IMAGES	2022/06/20
2022/06908	A FRUIT SHAPE DEVELOPMENT-RELATED PROTEIN AND ITS CODING GENE AND APPLICATION	2022/06/22
2022/06909	METHOD FOR TETRASTIGMA HEMSLEYANUM DIELS ET GILG FROM HUAIYU MOUNTAIN VIRUS-FREE BY CRYOTHERAPY OF VITRIFICATION	2022/06/22
2022/06910	QUADRUPLE RT-PCR SPECIFIC AMPLIFICATION PRIMER SET AND QUADRUPLE RT-PCR METHOD FOR SYNCHRONOUSLY DETECTING FOUR PITAYA VIRUSES	2022/06/22
2022/06911	INTERACTIVE VR DISPLAY ROBOT	2022/06/22
2022/06912	PACKING METHOD FOR ADSORPTION COLUMN DURING GOLD ENRICHMENT OF GOLD ORE SAMPLE	2022/06/22
2022/06913	FLOTATION PROCESS FOR OXIDATIVELY ALTERED HIGH-CARBON AND LOW-SULFUR FINE-GRAINED- ULTRAFINE-GRAINED DISSEMINATED GOLD ORE	2022/06/22

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2022/06915	AUTOMATIC ORE CHUTE ON TAILINGS DAM	2022/06/22
2022/06916	METHOD FOR ASEXUAL PROPAGATION OF GF677 PEACH ROOTSTOCK	2022/06/22
2022/06918	MESH BELT FURNACE DEVICE FOR SHAFT WORKPIECE HEAT TREATMENT PROCESS	2022/06/22
2022/06919	METHOD FOR REMOVING LOW-CONCENTRATION SO2 BY ULTRASONIC ATOMIZATION CATALYTIC OXIDATION	2022/06/22
2022/06920	AN EVALUATION METHOD OF HELIUM GENERATION POTENTIAL OF DIFFERENT TYPES OF ROCKS	2022/06/22
2022/06921	KIT FOR RAPID ASSAY OF PROBIOTIC ACTIVITY AND ASSAY METHOD THEREOF	2022/06/22
2022/06927	INTELLIGENT IOT TECHNIQUE FOR HEALTH MONITORING USING SMART BRACELET	2022/06/22
2022/06928	SINOMENINE DERIVATIVE AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF	2022/06/22
2022/06929	METHOD FOR PREPARING PHENAZOCINE THROUGH MICROBIAL FERMENTATION AND STRAIN THEREOF	2022/06/22
2022/06930	KIT FOR HELPING TO DETECT TUBERCULOSIS	2022/06/22
2022/06931	COMPOUND FOR PROMOTING A BELTA GATHERING AND PREPARATION METHOD AND APPLICATION THEREOF	2022/06/22
2022/06974	APPLICATION OF TOMATO SLSPS GENE TO IMPROVE THE PLANT THERMOTOLERANCE	2022/06/23
2022/06975	VIRTUAL SIMULATION SURGICAL TRAINING SYSTEM	2022/06/23
2022/06976	PREPARATION METHOD OF BAMBOO FIBRIL WOVEN BAG	2022/06/23
2022/06977	METHOD FOR RECOGNIZING EMOTIONAL STATES BY DIGITAL WRITING	2022/06/23
2022/06978	METHOD FOR EVALUATING DEGREE OF MUMMIFICATION OF BOMBYX BATRYTICATUS BASED ON HPLC FINGERPRINT	2022/06/23
2022/06979	COMBINED SUPPOSITORY BASE AND PREPARATION METHOD THEREOF	2022/06/23
2022/06980	TRANSLATION MODEL FOR SIGN LANGUAGE DIALECTS IN INDIA	2022/06/23
2022/06981	GENE EDITING VECTOR LOADED WITH PORIA COCOS ENDOGENOUS SEQUENCE, EDITING SYSTEM AND USE THEREOF	2022/06/23
2022/06982	METHOD FOR QUICKLY IDENTIFYING HYBRID OFFSPRING OF PITAYA BY SHORTENING JUVENILE PHASE	2022/06/23
2022/06987	NOVEL APPLICATION OF 5,2',3'-TRIHYDROXY- 6,7-METHYLENEDIOXY-FLAVANONE COMPOUND	2022/06/23
2022/07016	SLIP DEVICE CONFIGURED FOR STEEL STRUCTURE AND SLIP METHOD THEREOF	2022/06/24
2022/07091	METHOD FOR PROMOTING EARLY CULTIVATION OF ASPARAGUS IN WINTER AND SPRING BY APPLYING DEGRADABLE MEMBRANE	2022/06/27

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2022/07151	ELECTROCHEMICAL PREPARATION METHOD FOR CUFEO2 PHOTOELECTRODE	2022/06/28
2022/07161	ENVIRONMENT-FRIENDLY AND ENERGY-SAVING INJECTION MOLDING MACHINE AND OPERATION METHOD THEREOF	2022/06/28
2022/07162	DEVICE FOR AUTOMATICALLY MOUNTING REINFORCING RINGS	2022/06/28
2022/07163	MULTI-NOZZLE INJECTION MOLDING MACHINE CAPABLE OF MIXING INJECTION MOLDING MATERIALS OF DIFFERENT COLORS AND OPERATION METHOD THEREOF	2022/06/28
2022/07188	LIQUID TASIMELTEON FORMULATIONS AND METHODS OF USE THEREOF	2022/06/29
2022/07191	ANTARCTIC KRILL PEPTIDE-POLYPHENOL COMPOUND AND APPLICATION THEREOF	2022/06/29
2022/07192	SMART REHABILITATION NURSING BED	2022/06/29
2022/07204	SLIDING WINDOW FOR LIVESTOCK-HOUSE	2022/06/29
2022/07205	A MEASUREMENT METHOD OF SNOW MELTING RATE BASED ON AIR TEMPERATURE CHANGE	2022/06/29
2022/07206	NICHE-BASED ALLOCATION METHOD OF ECOLOGICAL RESTORATION VEGETATION IN OPEN PIT MINING AREA	2022/06/29
2022/07244	AUTOMATIC CRAB SORTING MACHINE	2022/06/29
2022/07245	ELECTROMAGNETIC SHIELDING CHAMBER	2022/06/29
2022/07299	METHOD FOR SUPPRESSING WIRELESS COMMUNICATION RECEIVING NOISE	2022/07/01
2022/07325	HUMANIZED ANTI-GLYCOPROTEIN IB ALPHA (GPIBALPHA) ANTIBODIES	2022/07/01
2022/07403	LARGE-POROSITY ASPHALT MIXTURE DRAINAGE PERFORMANCE ATTENUATION BEHAVIOR LABORATORY ACCELERATION SIMULATION APPARATUS AND METHOD	2022/07/05
2022/07473	AUTOMATIC PACKAGING METHOD FOR SPRING BAR PRODUCTION	2022/07/06
2022/07523	METHOD FOR PREPARING BAMBOO TUBE FIBER FILAMENTS CELEBRATION HANDICRAFTS	2022/07/07
2022/07524	WATER PURIFICATION MODULE FOR URBAN WETLAND PARK BASED ON ECOLOGICAL RESTORATION	2022/07/07
2022/07525	GAS CHROMATOGRAPHIC ANALYSIS METHOD FOR RAPID DETECTION OF PROCHLORAZ	2022/07/07
2022/07526	SMALL PORTABLE NUMERICAL CONTROL CUTTING MACHINE FOR CLOSED ADSORPTION GASKET	2022/07/07
2022/07527	CRAWLER-TYPE MOBILE DISCHARGING VEHICLE	2022/07/07
2022/07542	FATTY ACID COMPOSITION FOR ADJUVANT TREATMENT OF ESSENTIAL TREMOR AND PREPARATION METHOD THEREFOR	2022/07/07
2022/07561	ASSEMBLED EXTERNAL WALL TRANSITION STRUCTURE	2022/07/08
2022/07562	SUPPORT ROD AND KEEL SUPPORTING SYSTEM FOR A PREFABRICATED BUILDING WALL BODY	2022/07/08

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2022/07652	FOUR-JAW SYNCHRONOUS ELASTIC CLAMPING DEVICE FOR SEED POTATO CUTTING OF POTATOES	2022/07/11
2022/07913	A HYPERPARAMETER OPTIMIZATION METHOD FOR DEEP LEARNING ALGORITHM BASED ON SPARSE RESPONSE SURFACE	2022/07/15
2022/07958	IRRIGATION METHOD AND SYSTEM FOR COASTAL REGIONS	2022/07/18
2022/08017	AUTOMOBILE HUB FIXTURE, MACHINING DEVICE, AND PRODUCTION LINE	2022/07/19
2022/08025	AN INJECTION MOLD	2022/07/19
2022/08052	METHODS AND KIT FOR DETECTION OF ANALYTES	2022/07/19
2022/08161	UPSTREAM REGULATORY FACTOR IBEBF2 AND USES THEREOF IN REGULATING THE IBBHLH2 EXPRESSION IN PURPLE SWEET POTATO	2022/07/21
2022/08162	A METHOD FOR PROCESSING NUTRITIONAL BLACK VINEGAR	2022/07/21
2022/08163	HIGH-PRECISION SELF-CORRECTION ULTRASONIC FLOWMETER FOR COALBED METHANE IN EXTRACTION PIPE NETWORK	2022/07/21
2022/08190	AN IONIC RARE EARTH MINE TAILINGS LAND IMPROVER AND VEGETATION RECLAMATION METHOD	2022/07/22
2022/08206	AN HERBAL COMPOSITION AND ITS USE IN THE PREPARATION OF PRODUCTS FOR THE TREATMENT OF INFLAMMATORY GYNECOLOGICAL DISEASES	2022/07/22
2022/08208	THE USE OF CENTELLA ASIATICA EXTRACT IN THE PREPARATION OF OVARIAN NOURISHING HERBAL PRODUCTS	2022/07/22
2022/08327	METAL POWDER TRANSPORTATION APPARATUS AND LASER SELECTIVE MELTING DEVICE	2022/07/26
2022/08362	METHOD FOR RAPIDLY MAKING PINUS THUNBERGII STUB POTTED LANDSCAPE	2022/07/27
2022/08431	A COPPER-CHROMIUM-BASED TGR-TITANIUM MEMBRANE THREADED TUBULAR AIR PREHEATER AND TUBE MEMBRANE COMPOSITION	2022/07/28
2022/08432	A MANUFACTURING PROCESS OF COPPER-CHROMIUM BASED TGR-TITANIUM FILM SPIRAL AIR PREHEATER	2022/07/28
2022/08512	NOISE REDUCTION CONSTRUCTION STRUCTURE WITH EQUIPMENT ROOM	2022/07/29
2022/08513	WATERPROOF STRUCTURE OF CONSTRUCTION EXPANSION JOINT	2022/07/29
2022/08514	SLOPE REINFORCING DEVICE FOR FOUNDATION CONSTRUCTIONAL ENGINEERING	2022/07/29
2022/08515	A LIFTABLE LARGE TRUCK MUD COVER	2022/07/29
2022/08539	A HEAVY-DUTY TRUSS ROBOT RACK AND PINION CLEARANCE ADJUSTMENT DEVICE	2022/07/29
2022/08540	A HEAVY-DUTY TRUSS MANIPULATOR AND MES SYSTEM INTERACTION METHOD	2022/07/29
2022/08580	A BRIDGE BEARING WITH STABLE INSTALLATION AND STABLE STRUCTURE	2022/08/01
2022/08582	ALLYL DISULFIDE TEST BASE WITH ANTI-TOPPLING	2022/08/01

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2022/08583	PREPARATION METHOD AND APPLICATION OF THE COD PEPTIDE CHELATED FERROUS HYDROGEL	2022/08/01
2022/08674	A METHOD AND DEVICE FOR EXTRACTING OIL-BASED DRILLINGCUTTINGS	2022/08/03
2022/08769	A HIGH-YIELD, WIDELY-ADAPTED AND DISEASE- RESISTANT WHEAT VARIETY BREEDING METHOD	2022/08/05
2022/08770	A DIRECT-DRIVE WIND TURBINE GENERATOR GRID- CONNECTED SYSTEM AND METHOD	2022/08/05
2022/08771	A FIXED AND ADJUSTABLE BRACKET	2022/08/05
2022/08772	A PHOTOVOLTAIC MODULE FIXING BRACKET	2022/08/05
2022/08838	A MODIFIED MRS-BASED MEDIUM SPECIALIZED FOR LACTIC ACID BACTERIA ISOLATION FROM LIVESTOCK AND POULTRY FECES	2022/08/08
2022/08840	EXPLORATION AND BLOCKING METHOD FOR GROUNDWATER CONTAMINATION CHANNEL OF COAL MINE GOAF ROOF	2022/08/08
2022/08920	A BRIDGE STRUCTURE DYNAMICS TESTING DEVICE	2022/08/10
2022/09167	A LACTOBACILLUS PLANTARUM CAPABLE OF EFFECTIVELY RELIEVING DIABETES	2022/08/16
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2022/09199	PRODUCTION AND DUST REMOVING DEVICE FOR BUILDING INSULATION BOARD	2022/08/17
2022/09200	CABLE PAY-OFF DEVICE FOR BUILDING CONSTRUCTION	2022/08/17
2022/09201	BUILDING CONSTRUCTION DEVICE	2022/08/17
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DESIGNS

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A2020/01516	STORAGE SYSTEM	2020/11/24
A2021/00285	RESPIRATORY APPARATUS	2021/03/23
A2021/00286	RESPIRATORY APPARATUS	2021/03/23
A2021/00289	RESPIRATORY APPARATUS	2021/03/23
A2021/00290	RESPIRATORY APPARATUS	2021/03/23
A2021/00291	RESPIRATORY APPARATUS	2021/03/23
A2021/00292	RESPIRATORY APPARATUS	2021/03/23
A2021/00487	FACE MASK (G-MASK)	2021/04/21
A2021/00550	SAMKELO NYAKAMBI	2021/05/21
A2021/00782	TYRE TREAD	2021/07/05
A2021/01388	CUTTING TOOL HANDLING	2021/11/05
	ASSEMBLY	

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A2021/01412	CONTAINERS	2021/11/12
A2021/01413	CONTAINERS	2021/11/12
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A2021/01415	Automobile	2021/11/12
A2021/01419	Sneakers	2021/11/12
A2021/01428	Optical Scanner	2021/11/16
A2021/01429	Optical Scanner	2021/11/16
A2021/01433	Container	2021/11/17
A2021/01434	Container	2021/11/17
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A2021/01437	Case with Earphones	2021/11/18
A2021/01440	PERSONAL MASSAGER	2021/11/19
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A2021/01442	HEATING EQUIPMENT	2021/11/19
A2021/01447	Oral Care Implements	2021/11/19
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A2021/01449	Oral Care Implements	2021/11/19
A2021/01454	PRODUCT CONTAINER,	2021/11/19
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A2021/01468	GLOVE ACCESSORY	2021/11/23
A2021/01469	HANDLE FOR RECEIVING A BRUSH	2021/11/24
A2021/01474	Control Button for a Laparoscopic Surgery Instrument	2021/11/24
A2021/01475	Rotation Knob for a Laparoscopic Surgery Instrument	2021/11/24
A2021/01479	Fishing Sinkers	2021/11/26
A2021/01480	Fishing Sinkers	2021/11/26
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A2021/01484	Telescope	2021/11/26
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A2021/01502	Car	2021/12/08
A2021/01503	Vehicle Wheel Rim	2021/12/08
A2021/01504	Toy Car	2021/12/08
A2021/01525	DOMESTIC SODA-WATER PREPARING DEVICES	2021/12/15
A2021/01526	RAZOR	2021/12/15
A2021/01527	Base for a Bed	2021/12/15
A2021/01528	HOLDER FOR A LOCATING DEVICE	2021/12/15
A2021/01529	HOLDER FOR A LOCATING DEVICE	2021/12/15
A2021/01534	WOUND DRESSING	2021/12/17
A2021/01536	WOUND DRESSING	2021/12/17
A2021/01546	COFFEE MACHINES	2021/12/20
A2021/01549	Foldably Constructed Reinforceable Pallet Bottom	2021/12/21
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A2021/01552	Clasp for a Watch Bracelet	2021/12/22

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A2021/01556	VESTS	2021/12/22
A2022/00019	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
A2022/00023	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
A2022/00026	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
A2022/00028	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
A2022/00029	THE HYDROGEN AND SOLAR	2022/01/07
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A2022/00115	BOARD GAME	2022/02/03
F2019/00185	BABY CARRIER	2019/02/01
F2021/00095	ENTRANCE GUARDS	2021/02/05
F2021/00481	FACE MASK (G-MASK)	2021/04/21
F2021/01389	CUTTING TOOL HANDLING ASSEMBLY	2021/11/05
F2021/01410	A FENCING LANYARD	2021/11/12
F2021/01443	HEATING EQUIPMENT	2021/11/19
F2021/01445	BICYCLE SPARE WHEEL MOUNTS	2021/11/19
F2021/01455	PRODUCT CONTAINER, DISPENSER OR APPLICATOR	2021/11/19
F2021/01456	BELT	2021/11/22
F2021/01461	FLUID CONNECTOR	2021/11/23
F2021/01462	FLUID CONNECTOR	2021/11/23
F2021/01463	FLUID CONNECTOR	2021/11/23
F2021/01464	FLUID CONNECTOR	2021/11/23
F2021/01465	FLUID CONNECTOR	2021/11/23
F2021/01466	FLUID CONNECTOR	2021/11/23
F2021/01485	Packing seals for reciprocating water	2021/11/29
	pumps	
F2021/01486	Protection sleeves for reciprocating water pump rods	2021/11/29
F2021/01507	ATILE	2021/12/09
F2021/01508	A TILE	2021/12/09
F2021/01509	ATILE	2021/12/09
F2021/01510	A TILE	2021/12/09
F2021/01511	A TILE	2021/12/09
F2021/01512	A TILE	2021/12/09
F2021/01513	A TILE	2021/12/09
F2021/01514	A TILE	2021/12/09
F2021/01515	A TILE	2021/12/09
F2021/01516	A TILE	2021/12/09
F2021/01517	A TILE	2021/12/09
F2021/01520	FENCE POST CLAMP	2021/12/13
F2021/01522	FENCE POST CLAMP	2021/12/13
F2021/01530	HOLDER FOR A LOCATING DEVICE	2021/12/15
F2021/01531	HOLDER FOR A LOCATING DEVICE	2021/12/15
F2021/01533	A FOOD PROCESSING MACHINE	2021/12/15
F2021/01535	WOUND DRESSING	2021/12/17
F2021/01547	RADIATOR ASSEMBLY FOR A SIGNAL DISTRIBUTION SYSTEM	2021/12/21

Application Number	Design Articles	Filing Date
F2021/01559	ROOFTOP TENT STRUCTURE FOR VEHICLE	2021/12/22
F2022/00020	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
F2022/00022	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
F2022/00024	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
F2022/00025	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
F2022/00027	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
F2022/00030	THE SOLAR CAPSULE AND HYDROGEN POD SHIP ISLANDS	2022/01/07
F2022/00140	BATTERY CHARGER	2022/02/11
F2022/00144	BATTERY CHARGER	2022/02/11