

## PATENT JOURNAL

## INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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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:

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 2024/02/26 -

2024/01648 ~ Complete ~54:PYRIDINE DERIVATIVES AND THEIR USE AS SODIUM CHANNEL ACTIVATORS ~71:XENON PHARMACEUTICALS INC., 200-3650 Gilmore Way, Burnaby, British Columbia, V5G 4W8, Canada ~72: HELEN CLEMENT;JAN FELIX SCHOLTES;JULIETTE SABBATANI;JUNG YUN KIM;KRISTEN BURFORD;PAUL CHARIFSON;SHAOYI SUN;SHAWN JOHNSTONE;VERNER LOFSTRAND;WEI ZHANG~ 33:US ~31:63/248,330 ~32:24/09/2021

2024/01637 ~ Complete ~54:CLOUD COMPUTING-BASED NETWORK RESOURCE MANAGEMENT SYSTEM ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: CHANG, Lei~

2024/01635 ~ Complete ~54:SILICA TO HIGH PURITY SILICON PRODUCTION PROCESS ~71:HPQ-SILICON RESOURCES INC., 3000 Omer-Lavallée Street, Canada ~72: CARABIN, Pierre;SHAHVERDI, Ali~ 33:US ~31:62/202,452 ~32:07/08/2015

2024/01624 ~ Provisional ~54:SINGLE CONTINUOUS FLEXIBLE STRAP FOR SANDAL UPPER ~71:terome naidoo, 25 joubert place, South Africa ~72: terome naidoo~

2024/01644 ~ Complete ~54:GENETICALLY MODIFIED PRIMARY CELLS FOR ALLOGENEIC CELL THERAPY ~71:SANA BIOTECHNOLOGY, INC., 188 East Blaine Street, Suite 400, Seattle, Washington, 98102, United States of America ~72: SONJA SCHREPFER;XIAOMENG HU~ 33:US ~31:63/232,161 ~32:11/08/2021;33:US ~31:63/297,694 ~32:07/01/2022;33:US ~31:63/344,502 ~32:20/05/2022;33:US ~31:63/348,990 ~32:03/06/2022;33:US ~31:63/353,531 ~32:17/06/2022

2024/01630 ~ Complete ~54:ORE DISSOLUTION AND IRON CONVERSION SYSTEM ~71:ELECTRASTEEL, INC., 6400 Lookout Rd., United States of America ~72: ALVAREZ, Adolfredo;FATUR, Steven;NIJHAWAN, Sandeep;PHAM, Ai Quoc~ 33:US ~31:63/165,502 ~32:24/03/2021

2024/01625 ~ Provisional ~54:STUDY GENIUS ~71:Thekiso Ncheka, 17 Dr Herman van Schalkwyk , Panorama East , Bethlehem , Free State , 9701, South Africa ~72: Thekiso Ncheka~

2024/01628 ~ Complete ~54:2-STEP IRON CONVERSION SYSTEM ~71:ELECTRASTEEL, INC., 6400 Lookout Rd., United States of America ~72: ALVAREZ, Adolfredo;FATUR, Steven;NIJHAWAN, Sandeep;PHAM, Ai Quoc;WALLACE, Colleen~ 33:US ~31:63/165,502 ~32:24/03/2021

2024/01632 ~ Complete ~54:SUBSTITUTED PYRIDOTRIAZINE COMPOUNDS AND USES THEREOF ~71:GILEAD SCIENCES, INC., 333 LAKESIDE DRIVE, FOSTER CITY, United States of America ~72: CHU, HANG;GONZALEZ BUENROSTRO, ANA Z.;GUO, HONGYAN;HAN, XIAOCHUN;HURTLEY, ANNA E.;JIANG, LAN;LI, JIAYAO;LIN, DAVID W.;MITCHELL, MICHAEL L.;NADUTHAMBI, DEVAN;SCHWARZWALDER, GREGG

M.;SZEWCZYK, SUZANNE M.;VON BARGEN, MATTHEW J.;WU, QIAOYIN;YANG, HONG;ZHANG, JENNIFER R.~ 33:US ~31:63/139,237 ~32:19/01/2019;33:US ~31:63/190,461 ~32:19/05/2019

2024/01640 ~ Complete ~54:STABILISED COMPOSITIONS ~71:RUMIN8 PTY LTD, C/O ENDEAVOUR CORPORATE, SUITE 8, 7 THE ESPLANADE, MOUNT PLEASANT, WESTERN AUSTRALIA 6153, AUSTRALIA, Australia ~72: CALLAHAN, Matthew;SCADDING, Cameron, Jay~ 33:AU ~31:2021902391 ~32:03/08/2021

2024/01641 ~ Complete ~54:COMBINATION THERAPIES ~71:Versanis Bio, Inc., 1111 Broadway, Suite 1300, OAKLAND 94607, CA, USA, United States of America ~72: KLICKSTEIN, Lloyd Berl;MACHACEK, Matthias ~ 33:US ~31:63/238,068 ~32:27/08/2021;33:US ~31:63/301,012 ~32:19/01/2022;33:US ~31:63/333,351 ~32:21/04/2022

2024/01639 ~ Complete ~54:SMALL MOLECULE INHIBITORS FOR ANTI-CANCER COMBINATION THERAPY ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, South Africa ~72: CHI, Ru-pin Alicia;LEANER, Virna Drucille;VAN DER WATT, Pauline Janet~

2024/01646 ~ Complete ~54:INDUCIBLE SYSTEMS FOR ALTERING GENE EXPRESSION IN HYPOIMMUNOGENIC CELLS ~71:SANA BIOTECHNOLOGY, INC., 188 East Blaine Street, Suite 400, Seattle, Washington, 98102, United States of America ~72: ELEONORE THAM;REBECA RAMOS-ZAYAS;SONJA SCHREPFER;WILLIAM DOWDLE~ 33:US ~31:63/232,141 ~32:11/08/2021;33:US ~31:63/270,454 ~32:21/10/2021

2024/01626 ~ Provisional ~54:ELECTRICAL GENERATOR ~71:STOREY, Jacques, 68 Dennis Shepstone Drive, South Africa ~72: STOREY, Jacques~

2024/01629 ~ Complete ~54:IMPURITY REMOVAL IN AN IRON CONVERSION SYSTEM ~71:ELECTRASTEEL, INC., 6400 Lookout Rd., United States of America ~72: ALVAREZ, Adolfredo;FATUR, Steven;NIJHAWAN, Sandeep;PHAM, Ai Quoc~ 33:US ~31:63/165,502 ~32:24/03/2021

2024/01633 ~ Complete ~54:SAMPLE ADDING DEVICE OF ELECTRONIC BALANCE FOR TESTING ~71:Tai'an Institute for Food and Drug Control (Tai'an Fiber Inspection Institute), No.2666, Fengtian Road, Tai'an High-Tech Industrial Development Zone, Tai'an, Shandong, 271001, People's Republic of China ~72: Ding Fujuan;Liu Bin;Wu Xue;Yuan Yanfei;Zhang Junpeng;Zhou Haiyan~ 33:CN ~31:202311103593.X ~32:30/08/2023

2024/01650 ~ Complete ~54:PYRIDINYL DERIVATIVES AS SODIUM CHANNEL ACTIVATORS ~71:XENON PHARMACEUTICALS INC., 200-3650 Gilmore Way, Burnaby, British Columbia, V5G 4W8, Canada ~72: HELEN CLEMENT;JUNG YUN KIM;KRISTEN BURFORD;MICHAEL CLARK;PAUL CHARIFSON;VERNER LOFSTRAND~ 33:US ~31:63/248,341 ~32:24/09/2021

2024/01653 ~ Complete ~54:REDUCING AND NON-BLAST FURNACE SMELTING METHOD OF ALKALINE VANADIUM-TITANIUM PELLETS AND HOT-PRESSED CARBON-CONTAINING VANADIUM-TITANIUM PELLETS ~71:PANGANG GROUP PANZHIHUA IRON & STEEL RESEARCH INSTITUTE CO., LTD., No.90, Taoyuan Street, East District, Panzhihua, People's Republic of China ~72: CHEN, Mao;TANG, Wenbo;WU, Ning;ZHU, Fengxiang~ 33:CN ~31:202211429564.8 ~32:15/11/2022

2024/01631 ~ Complete ~54:A PRINTING PLATFORM ADJUSTING STRUCTURE OF A 3D PRINTER ~71:Central South University, No. 932, LuShan South Road, Yuelu District, Changsha City, Hunan Province, 410083, People's Republic of China ~72: Hao Pan;Xinna Bai~

2024/01634 ~ Complete ~54:DEVICE FOR SCANNING LOGISTICS PACKAGE BASED ON BIG DATA ~71:East China Jiaotong University, No. 808, Shuanggang East Street, Changbei, Nanchang City, Jiangxi Province, 330013, People's Republic of China;Xinyu University, No. 2666, Yangguang Avenue, Yushui District, Xinyu City, Jiangxi Province, 338025, People's Republic of China ~72: Feng Daoming;Huang Yulong;Liu Kai;Pan Cheng;Wu Guangsheng~

2024/01645 ~ Complete ~54:USE OF AN ACID WHEY TO STIMULATE THE GERMINATION OF A PLANT POLLEN GRAIN ~71:AGRO INNOVATION INTERNATIONAL, 18 Avenue, Franklin Roosevelt, 35400, Saint-Malo, France;UNIVERSITE DE ROUEN-NORMANDIE, 1 rue Thomas Becket 76821, Mont-Saint-Aignan Cedex, France ~72: ARNAUD LEHNER;EMMANUEL ERIC NGUEMA-ONA;FLORENCE CRUZ;FRANK JAMOIS;JEAN-CLAUDE MOLLET;SYLVAIN PLUCHON~ 33:FR ~31:FR2108546 ~32:06/08/2021

2024/01649 ~ Complete ~54:PYRIDINYLACETAMIDE DERIVATIVES AS SODIUM CHANNEL ACTIVATORS ~71:XENON PHARMACEUTICALS INC., 200-3650 Gilmore Way, Burnaby, British Columbia, V5G 4W8, Canada ~72: HELEN CLEMENT;JAN FELIX SCHOLTES;JULIETTE SABBATANI;JUNG YUN KIM;KRISTEN BURFORD;MICHAEL CLARK;PAUL CHARIFSON;RAMKUMAR RAJAMANI;RAVI MUNUGANTI;SHAOYI SUN;SHAWN JOHNSTONE;STEVE WESOLOWSKI;VERNER LOFSTRAND;WEI ZHANG~ 33:US ~31:63/248,334 ~32:24/09/2021

2024/01638 ~ Complete ~54:MULTILAYER NONWOVEN STRUCTURE ~71:BOREALIS AG, Trabrennstrasse 6-8, Austria ~72: Anita LUYTEN;Gustaf TOBIESON;Henk VAN PARIDON;Jingbo WANG;Klaus BERNREITNER;Markus GAHLEITNER;Onur UZUN;Pascal WUST;Wilhelmus Henricus Adolf SARS~ 33:EP ~31:21189680.8 ~32:04/08/2021

2024/01627 ~ Provisional ~54:UNIVERSAL MOUNTING BRACKET ~71:VAN ROOYEN, Gert Thomas, No. 12 Mimosapark, Buffelfontein Road, South Africa ~72: VAN ROOYEN, Gert Thomas~

2024/01636 ~ Complete ~54:COMPUTER NETWORK SECURITY EARLY WARNING DEVICE ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: CHANG, Lei~

2024/01643 ~ Complete ~54:PROVIDING CONTROL INFORMATION ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: HANSKI, Sami;KORVA, Timo;PESOLA, Mikko;VIINIKAINEN, Mikko;VÄLIVAARA, Johannes~ 33:EP ~31:21195601.6 ~32:08/09/2021

2024/01651 ~ Complete ~54:ANCHORING AND PROTECTING VEHICLE ~71:CHINA COAL TECHNOLOGY AND ENGINEERING GROUP TAIYUAN INSTITUTE, No.1 Kehui Road, Technology Innovation City, Demonstration Area, Shanxi, Taiyuan, People's Republic of China;SHANXI TIANDI COAL MINING MACHINERY CO., LTD., No.1 Dianzi Street, Demonstration Area, Shanxi, Taiyuan, People's Republic of China ~72: AN, Siyuan;JIA, Yunhong;JIN, Jiang;KANG, Peng;LAN, Huimin;LV, Jishuang;MA, Zhaoning;MI, Haoding;MI, Xiongwei;REN, Xiaowen;SONG, Mingjiang;TIAN, Yuan;YAN, Jinbao;ZHANG, Dongbao;ZHANG, Licai;ZHANG, Yunbo;ZHOU, Xu~ 33:CN ~31:202111416873.7 ~32:25/11/2021

2024/01692 ~ Provisional ~54:SA FOR PALESTINE ~71:Sizwe Goodwill Mahlangu, 2235 Mbuyisa Street, South Africa ~72: Sizwe Goodwill Mahlangu~

2024/01647 ~ Complete ~54:COMBINATION DRUG ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-machi, Chiyoda-ku, Tokyo, 1018535, Japan ~72: HIROKI AKAMINE;HIRONORI MATSUYAMA;KEISUKE TAZURU;MASAYUKI SONE;TOSHIKI SUDO;YOSUKE KOGUE~ 33:JP ~31:2021-135138 ~32:20/08/2021

2024/01642 ~ Complete ~54:WOUND IRON CORE ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2chome, Chiyoda-ku, TOKYO 100-8071, JAPAN, Japan ~72: MIZUMURA, Takahito;MOGI, Hisashi;TAKAHASHI, Masaru~ 33:JP ~31:2021-163557 ~32:04/10/2021

2024/01652 ~ Complete ~54:DOUBLE-BOX SWITCHING TYPE ROOF BOLTER ~71:CHINA COAL TECHNOLOGY AND ENGINEERING GROUP TAIYUAN INSTITUTE, No.1 Kehui Road, Technology Innovation City, Demonstration Area, Shanxi, Taiyuan, People's Republic of China;SHANXI TIANDI COAL MINING MACHINERY CO., LTD., No.1 Dianzi Street, Demonstration Area, Shanxi, Taiyuan, People's Republic of China ~72: AN, Siyuan;BAI, Xuefeng;BI, Yueqi;DU, Yuxiang;KANG, Peng;LAN, Huimin;PANG, Yu;YAN, Jinbao;YAN, Zhen;YANG, Xiaofeng;ZHANG, Dongbao;ZHANG, Fuxiang;ZHANG, Licai;ZHANG, Yunbo;ZHU, Zhentian~ 33:CN ~31:202110997093.X ~32:27/08/2021

- APPLIED ON 2024/02/27 -

2024/01675 ~ Complete ~54:6-AZA-QUINOLINE DERIVATIVES AND RELATED USES ~71:BLACK DIAMOND THERAPEUTICS, INC., One Main Street, 10th Floor, United States of America ~72: JEWETT, Ivan;NG, Pui Yee;PADILLA, Fernando~ 33:US ~31:63/242,845 ~32:10/09/2021;33:US ~31:63/351,158 ~32:10/06/2022

2024/01680 ~ Complete ~54:ANTIGEN-BINDING MOLECULES AND USES THEREOF ~71:Scout Bio, Inc., 100 N. 18th Street, Suite 300, PHILADELPHIA 19103, PA, USA, United States of America ~72: BUSFIELD, Samantha J.;WILSON, Matthew J.~ 33:US ~31:63/239,054 ~32:31/08/2021

2024/01690 ~ Complete ~54:AIR COOLED SIFTING DEVICE ~71:ORENDA AUTOMATION TECHNOLOGIES INC., 165 Steelcase Road, East Markham, Ontario, L3R 1G1, Canada ~72: HRISTOS LEFAS;MALCOLM LAWRENCE BAIRD~ 33:US ~31:17/490,169 ~32:30/09/2021

2024/01664 ~ Complete ~54:VIBRATION RESISTANCE TESTING APPARATUS AND METHOD FOR INLET GUIDE VANE ELECTRO HYDRAULIC SERVO SYSTEM ~71:Hangzhou Dianzi University Information Engineering College, No.1 Hangdian Road, Qingshanhu Science and Technology City, Lin'an District, Hangzhou City, Zhejiang Province, 311305, People's Republic of China ~72: FENG, Junwei;LIU, Xiangqi;MENG, Zhen;SHAO, Yanhong;SUI, Yongfeng;TU, Tianxing;XU, Yunbin;ZHENG, Jiansheng;ZHOU, Lvmin;ZHU, Zefei~

2024/01676 ~ Complete ~54:SYSTEMS AND METHODS FOR GENERATION OF HYDROGEN BY IN-SITU (SUBSURFACE) SERPENTINIZATION AND CARBONIZATION OF MAFIC OR ULTRAMAFIC ROCK ~71:OHIO STATE INNOVATION FOUNDATION, 1524 North High Street, Columbus, Ohio, 43201, United States of America ~72: DARRAH, Thomas;RAO, Vikram;WHYTE, Colin~ 33:US ~31:63/203,815 ~32:30/07/2021;33:US ~31:17/815,903 ~32:28/07/2022

2024/01689 ~ Complete ~54:MOLECULAR DEGRADERS OF EXTRACELLULAR PROTEINS ~71:YALE UNIVERSITY, Two Whitney Avenue, New Haven, Connecticut, 06510, United States of America ~72: DAVID CAIANIELLO;DAVID SPIEGEL;EDWARD DERAMON~ 33:US ~31:63/237,627 ~32:27/08/2021;33:US ~31:63/319,957 ~32:15/03/2022

2024/01662 ~ Complete ~54:DEEP LEARNING BASED METHOD AND DEVICE FOR INTELLIGENTLY MONITORING SUB-HEALTH STATE OF INDUSTRIAL APPARATUS ~71:Zhuhai City Polytechnic, 680 Decheng Road, Jinwan District, Zhuhai City, Guangdong Province, 519090, People's Republic of China ~72: CHEN, Cong;LIU, Xiangjun;LUN, Zhiguo;YANG, Lin;ZHU, Leping;ZHU, Shaoping~

2024/01663 ~ Complete ~54:METHOD FOR TESTING ANTIFUNGAL ACTIVITY OF ANTIBACTERIAL CERAMICS ~71:Comprehensive Technical Service Center of Tangshan Customs, No. 35, Beixin West Road, Tangshan City, Hebei Province, 063000, People's Republic of China;Taizhou Institute of Product Quality and

Safety inspection, No. 788, East Section of Kaifa Avenue, Taizhou City, Zhejiang Province, 318000, People's Republic of China ~72: CUI, Zongyan;HONG, Wei;HUANG, Huichao;LI, Wenjie;LIU, Xiaohui;SUN, Jizan;WENG, Xiaowei;ZHANG, Yihan;ZHANG, Yiqin~

2024/01668 ~ Complete ~54:DEVICE FOR RADIATING HEAT OF 3D PRINTER SPRAY HEAD ~71:Jiangsu College Of Safety Technology, Dongdianzi, Dongjiao, Yunlong District, Xuzhou City, Jiangsu Province, 221001, People's Republic of China ~72: Chen Hairong;Zhang Jiguang;Zhang Xing~ 33:CN ~31:202311029330.9 ~32:16/08/2023

2024/01672 ~ Complete ~54:ANTI-4-1BB NANOBODIES ~71:LANOVA MEDICINES LIMITED, 2889 Jinke Road, Building 10, Room 318, Chamtime Plaza, People's Republic of China ~72: HUANG, WENTAO;LI, RUNSHENG~ 33:CN ~31:PCT/CN2021/115621 ~32:31/08/2021

2024/01673 ~ Complete ~54:DUPLEXBODIES ~71:AFFIMED GMBH, KOROS building, Gottlieb-Daimler-Strasse 2, Germany ~72: KOCH, Joachim;REUSCH, Uwe~ 33:EP ~31:21188905.0 ~32:30/07/2021

2024/01678 ~ Complete ~54:COMBUSTION BOILER CONTROL METHOD, COMBUSTION BOILER AND BOILER COMPUTATION SYSTEM ~71:Sumitomo SHI FW Energia Oy, Metsänneidonkuja 10, ESPOO 02130, FINLAND, Finland ~72: KETTUNEN, Ari;MIETTINEN, Jouni~

2024/01688 ~ Complete ~54:POWER SYSTEM AND TRAVELING POWER STATION ~71:EPIROC (NANJING) CONSTRUCTION & MINING EQUIPMENT LTD., No.2 Hengtai Road, Economic & Technological Development Zone, Nanjing, Jiangsu, 210038, People's Republic of China ~72: BUYAN TANG;CHENGYUN ZHU;GUANGBIN TAN;HONGHAO CAI;JIAWEI HAN;JIE ZHAO;MIN YANG;SHANFEI FENG;SHAOZHONG WANG;XIANGWEI ZHAO~ 33:CN ~31:202110867574.9 ~32:28/07/2021

2024/01691 ~ Provisional ~54:PARK ALIGNMENT CAMERA AND SCREEN ~71:ROBERT MOORE BRUWER, 35A GERALD DREYER STREET, Namibia ~72: ROBERT MOORE BRUWER~

2024/01654 ~ Provisional ~54:NOVEL SURFACTANT COMPOUNDS ~71:NORTH-WEST UNIVERSITY, 1 Hoffman Street, Joon van Rooy Building, South Africa ~72: MARX, Frans Thomas Ignatius;VENTER, David;VOSLOO, Hermanus, Cornelius, Moolman;YOUNG, Desmond Austin~

2024/01657 ~ Provisional ~54:THE PERFUME SCENT SAMPLE ON THE CONTAINER ~71:Kwebu Jonas Mofokeng, A1623 Bereng Street,, South Africa ~72: Kwebu Jonas Mofokeng~

2024/01659 ~ Complete ~54:METHOD FOR SIMPLE AND RAPID SEPARATION AND PURIFICATION OF SIGA FROM BOVINE COLOSTRUM ~71:Jiangsu Tianmeijian Nature Bioengineering Co., Ltd., No. 31, Hengjing Road, Qixia District, Nanjing City, Jiangsu Province, 210046, People's Republic of China;Nanjing Normal University, No.1, Wenyuan Road, Qixia District, Nanjing City, Jiangsu Province, 210023, People's Republic of China ~72: CHEN, Chao;CHEN, Fei;CHENG, Guangyu;GE, Wenjin;GUO, Benzhao;JIANG, Hechun;LI, Ling;LU, Qingguo;REN, Yong;SUN, Zhongwei;TAO, Mingxuan;WANG, Rongchang;WANG, Xiaojun;YANG, Zhou;ZHANG, Zi'ang~ 33:CN ~31:202310905991.7 ~32:24/07/2023

2024/01671 ~ Complete ~54:ROW UNIT COMPRISING A COVERING DEVICE AND METHODS OF PLANTING SEEDS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HODEL, Jeremy~ 33:US ~31:63/262,441 ~32:12/10/2021

2024/01789 ~ Provisional ~54:IN-VEHICLE & OCCUPANT SURVEILLANCE & SECURITY SYSTEM ~71:Funda Mpanza, 457 marni Street, Waterkloof Glen, Waterkloof Glen, South Africa ~72: Funda Mpanza~

2024/01656 ~ Provisional ~54:BARRIER ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: TBA~

2024/01658 ~ Provisional ~54:A TRAIN AND METHOD OF ADAPTING/OPERATING A TRAIN ~71:ROBERT PHILLIP BRIGDEN, 20 Oranje Avenue, Gallo Manor, Sandton, 2052, South Africa ~72: ROBERT PHILLIP BRIGDEN~

2024/01669 ~ Complete ~54:SYSTEMS FOR AUTOMATED BLAST DESIGN PLANNING AND METHODS RELATED THERETO ~71:DYNO NOBEL INC., 6440 S. Millrock Drive, Suite 150, Salt Lake City, Utah, 84121, United States of America ~72: JEFFREY AVERETT;JOSEPH NAWROCKI JR.;RUFUS E FLINCHUM;SCOTT GILTNER~ 33:US ~31:62/801,312 ~32:05/02/2019

2024/01681 ~ Complete ~54:SHARDED MERKLE TREE ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: GRAHAM, Alexander;PAUNOIU, Alexandru;WRIGHT, Craig Steven~ 33:GB ~31:2115522.1 ~32:28/10/2021

2024/01655 ~ Provisional ~54:NOVEL USES OF NOVEL SURFACTANT COMPOUNDS ~71:NORTH-WEST UNIVERSITY, 1 Hoffman Street, Joon van Rooy Building, South Africa ~72: MARX, Frans Thomas Ignatius;OTTO, Daniel Petrus;SMIT, Frans Johannes;VOSLOO, Hermanus Cornelius Moolman;WIESE, Ettiene Hugo~

2024/01674 ~ Complete ~54:SCALLOP SELENIUM-ENRICHED COMPOSITE PROTEIN POWDER AND PREPARATION PROCESS THEREOF ~71:Guangdong Ocean University, No.1, Haida Road, Mazhang District, Zhanjiang, Guangdong, 524088, People's Republic of China ~72: CAO Wenhong;CHEN Zhongqin;GAO Jialong;QIN Xiaoming;WANG Renjia;ZHENG Huina~ 33:CN ~31:2022108974162 ~32:28/07/2022

2024/01679 ~ Complete ~54:SYSTEMS AND METHODS FOR DETERMINING GUI INTERACTION INFORMATION FOR AN END USER DEVICE ~71:Blue Prism Limited, 2 Cinnamon Park, Crab Lane, Fearnhead, WARRINGTON WA2 0XP, UNITED KINGDOM, United Kingdom ~72: AKTAS, Ümit Rusen;CARR, Benjamin Michael;CHILES, Thomas Alexander;DUBBA, Krishna Sandeep Reddy~ 33:GB ~31:2111831.0 ~32:18/08/2021

2024/01661 ~ Complete ~54:A PREPARATION METHOD FOR THE OUTER BOX OF LOW TEMPERATURE HIGH IMPACT RUBBER MODIFIED POLYOLEFIN AIRDROP BOX ~71:Taiyuan University of Technology, No.79 Yingzexi Street, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Jiahao SHEN;Jiayi WANG;Ruimiao LIANG;Wenwen YU;Yi Zhang;Zhiyi ZHANG~ 33:CN ~31:2023116797107 ~32:08/12/2023

2024/01665 ~ Complete ~54:DELIVERY SYSTEM FOR FUNCTIONAL NUCLEASES ~71:President and Fellows of Harvard College, 17 Quincy Street, CAMBRIDGE 02138, MA, USA, United States of America ~72: LIU, David R.;THOMPSON, David B.;ZURIS, John Anthony~ 33:US ~31:61/874,746 ~32:06/09/2013;33:US ~31:14/462,163 ~32:18/08/2014;33:US ~31:14/462,189 ~32:18/08/2014

2024/01667 ~ Complete ~54:FEEDING DEVICE AND FEEDING METHOD FOR SHEEP HOUSE FOR LIVESTOCK BREEDING ~71:Xinjiang Academy of Agricultural and Reclamation Sciences, No. 221 Wuyi Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832000, People's Republic of China ~72: Chen Ping;Lin Zhenghui;Wang Gang;Yang Hua;Yang Yonglin;Yu Qian;Zhang Delin;Zhang Wenzhe~

2024/01682 ~ Complete ~54:ANTI-CD3 ANTIBODIES ~71:Adimab, LLC, 7 Lucent Drive, LEBANON 03766, NH, USA, United States of America ~72: BATTLES, Michael Benjamin;LIU, Catherine Yue~ 33:US ~31:63/245,499 ~32:17/09/2021

2024/01687 ~ Complete ~54:SUBSTITUTED TRICYCLIC COMPOUNDS AS PARP INHIBITORS AND USE THEREOF ~71:IMPACT THERAPEUTICS (SHANGHAI), INC., Room 603, No.3 Building, 111 Xiangke Road, China (Shanghai), Pilot Free Trade Zone, Shanghai, 201210, People's Republic of China ~72: SUI XIONG CAI;XIAOZHU WANG;YE EDWARD TIAN~ 33:CN ~31:202111000443.7 ~32:27/08/2021;33:CN ~31:202111447991.4 ~32:30/11/2021;33:CN ~31:202210274490.9 ~32:18/03/2022

2024/01660 ~ Complete ~54:COMPOSITIONS COMPRISING CURONS AND USES THEREOF ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: DIAZ, Fernando, Martin;KAHVEJIAN, Avak;LEBO, Kevin, James;NAWANDAR, Dhananjay, Maniklal;PLUGIS, Nicholas, McCartney;WEINSTEIN, Erica, Gabrielle~ 33:US ~31:62/518,898 ~32:13/06/2017;33:US ~31:62/597,387 ~32:11/12/2017;33:US ~31:62/676,730 ~32:25/05/2018

2024/01670 ~ Complete ~54:SOLID FORMS OF BCL-2 INHIBITORS, METHOD OF PREPARATION, AND USE THEREOF ~71:BEIGENE SWITZERLAND GMBH, Aeschengraben 27, Switzerland;BEIGENE, LTD., C/o Mourant Governance Services (Cayman) Limited, 94 Solaris Avenue, Cayman Islands ~72: GUO, Yunhang;SHI, Gongyin;XUE, Hai;YU, Desheng~ 33:CN ~31:PCT/CN2021/115718 ~32:31/08/2021

2024/01677 ~ Complete ~54:AQP1 GENE THERAPY TO PREVENT RADIATION INDUCED SALIVARY HYPOFUNCTION ~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, United States of America ~72: CHIORINI, John A.;HOFFMAN, Matthew P.~ 33:US ~31:63/229,279 ~32:04/08/2021;33:US ~31:63/297,342 ~32:07/01/2022

2024/01684 ~ Complete ~54:NOVEL PARP7 INHIBITOR AND USE THEREOF ~71:SHANGHAI QILU PHARMACEUTICAL RESEARCH AND DEVELOPMENT CENTRE LTD., Building 1, No. 576 Li Bing Road, No. 56 Faraday Road, China (Shanghai), Pilot Free Trade Zone Shanghai, 201203, People's Republic of China ~72: DAQING SUN;GUANXIN HUANG;WEI JU;XIAOXIA YAN~ 33:CN ~31:202110862671.9 ~32:29/07/2021;33:CN ~31:202210208759.3 ~32:03/03/2022;33:CN ~31:202210839712.7 ~32:15/07/2022

2024/01685 ~ Complete ~54:CRYSTALLIZATION PROCESS FOR THE SEPARATION OF METALS ~71:UMICORE, Rue du Marais 31, 1000, Brussels, Belgium ~72: PIETER VERHEES~ 33:EP ~31:21188417.6 ~32:29/07/2021

2024/01666 ~ Complete ~54:AEROSOL SOURCE FOR A VAPOUR PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ANGELL, Terry Lee;SIMPSON, Alex~ 33:GB ~31:1704674.9 ~32:24/03/2017

2024/01683 ~ Complete ~54:DATA OBFUSCATION ~71:Blue Prism Limited, 2 Cinnamon Park, Crab Lane, Fearnhead, WARRINGTON WA2 0XP, UNITED KINGDOM, United Kingdom ~72: DUBBA, Krishna Sandeep Reddy;ZHANG, De~ 33:EP ~31:21189837.4 ~32:05/08/2021

2024/01686 ~ Complete ~54:A LOW PRESSURE WATER REACTOR AND A METHOD FOR CONTROLLING A LOW PRESSURE WATER REACTOR ~71:AZRUDI BIN MUSTAPHA @ PA, Unit 1-1 Suria 7, Cyber Heights Villa, Jalan Cyber Suria, 63000, Cyberjaya, Malaysia;KEITH HENRY ARDRON, Portway Pharos, High Street, Upton St Leonards, Gloucester, Gloucestershire, GL4 8DL, United Kingdom ~72: AZRUDI BIN MUSTAPHA @ PA;KEITH HENRY ARDRON~ 33:EP ~31:21189257.5 ~32:03/08/2021

- APPLIED ON 2024/02/28 -

2024/01697 ~ Complete ~54:ORGANIC SELENIUM FEED ADDITIVE AND PREPARATION METHOD THEREFOR ~71:Ganzhou Animal Husbandry And Fisheries Research Institute, No. 203 Tangan Road, Tandong

Town, Rongjiang New District, Ganzhou City, Jiangxi Province, 341000, People's Republic of China ~72: DING, Wuyi;GUO, Xiaobo;HU, Yan;HUANG, Jifa;LIAN, Hai;LIN, Xiaocui;LIU, Ruiping;SHI, Humin;ZHONG, Ruyi~

2024/01725 ~ Complete ~54:5-HYDROXYTRYPTOPHAN GASTRORETENTIVE DOSAGE FORMS ~71:Evecxia Therapeutics, Inc., 2 Davis Drive, RESEARCH TRIANGLE PARK 27709, NC, USA, United States of America ~72: BERNER, Bret; JACOBSEN, Jacob Pade Ramsoe; LIN, Wu; TAY, Ching Sieu~ 33:US ~31:63/227,915 ~32:30/07/2021

2024/01732 ~ Complete ~54:HUMAN MONOCARBOXYLATE TRANSPORTER 1 ANTIBODIES AND USES THEREOF ~71:Immunometabolism Development Company, LLC, 1 Medical Center Drive, LEBANON 03756, NH, USA, United States of America ~72: DORSEY, Frank Charles;GRANGER, Joseph Benjamin;RUBTSOVA, Kira Vladimirovna;SCHROEDER, Oliver;WANG, Wei~ 33:US ~31:63/261,177 ~32:14/09/2021;33:US ~31:63/272,903 ~32:28/10/2021

2024/01739 ~ Complete ~54:MULTI-SPLIT CENTRAL AIR CONDITIONING SYSTEM FOR SIMULTANEOUS COOLING AND HEATING ~71:JINGKELUN REFRIGERATION EQUIPMENT CO., LTD., No. 352, Second Street, Jinmayuan Gaoliying Town, People's Republic of China ~72: KANG, Jianhui;WANG, Quanjiang;XIE, Weibo;YANG, Jianguo;ZHOU, Chengjun~ 33:CN ~31:202111361573.3 ~32:17/11/2021

2024/01705 ~ Complete ~54:DISPLAY DEVICE FOR CUSTOMS DECLARATION AND INSPECTION PROCESSES IN INTERNATIONAL TRADE ~71:Xinyu University, No. 2666, sunshine Avenue, high tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: Huang Renjing;Li Xiaoyong;Li Xuezhu;Lin Zhi;Xie lianping;Zeng Xiaorong~

2024/01714 ~ Complete ~54:METHODS AND COMPOSITIONS COMPRISING ANTI-CD3 ANTIBODIES AND DYRK1A INHIBITORS FOR TREATING DIABETES ~71:PROVENTION BIO, INC., 55 Broad Street, 2nd Floor Red Bank, United States of America ~72: LEON, Francisco~ 33:US ~31:63/243,666 ~32:13/09/2021;33:US ~31:63/318,363 ~32:09/03/2022

2024/01845 ~ Provisional ~54:MUTHI GRINDER MACHINE ~71:Tinyiko Masinge, 2896 Luvhuvu Street, Diepkloof, Zone 2, South Africa;Tinyiko Masinge, 2896 Luvhuvu Street, Diepkloof, Zone 2, South Africa ~72: Tinyiko Masinge~ 33:ZA ~31:890928 ~32:15/02/2024

2024/01693 ~ Provisional ~54:MASS ELECTRICITY DEMAND MANAGEMENT SYSTEM AND METHOD ~71:BLUE POT HOLDINGS (PTY) LTD, Studio 3, Wechmarshof Farm, South Africa ~72: BENEKE, John Raymond;LABUSCHAGNE, Jean;LOUBSER, Jacques Bjorn;MARALACK, Lourens Phillip Edward~

2024/01701 ~ Complete ~54:ANTI-VIBRATION JOINT STRUCTURE FOR SELF-RESETTING PREFABRICATED BEAM COLUMN ~71:Bengbu University, No. 1866 Caoshan Road, Bengbu City, Anhui Province, 233030, People's Republic of China ~72: CHEN, Lingling~

2024/01718 ~ Complete ~54:MICRO-VIBRATION TERMINAL, PLUG-IN STRUCTURE, AND MOTOR VEHICLE ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District Changchun, Jilin 130000, People's Republic of China ~72: CHAO WANG~ 33:CN ~31:202110945331.2 ~32:17/08/2021

2024/01722 ~ Complete ~54:RAM SYSTEM AND KNOCK-OUT RAM ASSEMBLY FOR PROCESSING CONTAINERS ~71:BELVAC PRODUCTION MACHINERY, INC., 237 Graves Mill Road, Lynchburg, Virginia, 24502-4203, United States of America ~72: JEFFREY LEE SHORTRIDGE;LARRY D MCKINNEY~ 33:US ~31:63/229,887 ~32:05/08/2021

2024/01728 ~ Complete ~54:REDUCED GRAPHENE OXIDE DECORATED WITH ZINC AND COPPER OXIDES, METHOD OF PREPARATION THEREOF, AND USE THEREOF ~71:Mendelova univerzita v Brne, Zemedelska 1665/1, BRNO 61300, CZECH REPUBLIC, Czech Republic ~72: BYTESNIKOVA, Zuzana;CECHOVA, Jana;EICHMEIER, Ales;PECENKA, Jakub;RICHTERA, Lukas;TEKIELSKA, Dorota;VOJTECH, Adam~ 33:CZ ~31:PV 2021-392 ~32:24/08/2021

2024/01735 ~ Complete ~54:GPR52 MODULATOR COMPOUNDS ~71:Heptares Therapeutics Limited, Granta Park, Great Abington, Cambridge, CAMBRIDGESHIRE CB21 6DG, UNITED KINGDOM, United Kingdom ~72: O'BRIEN, Michael Alistair;SWAIN, Nigel Alan;WATSON, Stephen Paul~ 33:GB ~31:2113186.7 ~32:15/09/2021

2024/01742 ~ Complete ~54:INTERMITTENT DOSING OF GLUCOCORTICOID RECEPTOR MODULATORS FOR THE TREATMENT OF OVARIAN AND OTHER CANCERS ~71:CORCEPT THERAPEUTICS INCORPORATED, 149 Commonwealth Drive, United States of America ~72: BELANOFF, Joseph K.;SHEPHERD, Stacie~ 33:US ~31:63/244,825 ~32:16/09/2021;33:US ~31:PCT/US2021/050617 ~32:16/09/2021;33:US ~31:63/324,873 ~32:29/03/2022;33:US ~31:63/345,682 ~32:25/05/2022

2024/01710 ~ Complete ~54:PIPELINE TRANSPORTATION SYSTEM AND TRANSPORTATION METHOD WITH POWER OPTIMIZATION ~71:Chenxi Zhang, 19-6-601, No.868 Laomancheng Street, Shayibak District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China;Chenyu Zhang, 19-6-601, No.868 Laomancheng Street, Shayibak District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China;Luguo Zhang, 19-6-601, No.868 Laomancheng Street, Shayibak District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China;Luguo Zhang, 19-6-601, No.868 Laomancheng Street, Shayibak District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China;Luguo Zhang, 19-6-601, No.868 Laomancheng Street, Shayibak District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China;Luguo Zhang, People's Republic of China ~72: Chenxi Zhang;Chenyu Zhang;Luguo Zhang~

2024/01737 ~ Complete ~54:SPRAYABLE FORMULATION COMPRISING VIABLE AND/OR STABLE BACTERIA ~71:UNIVERSITEIT ANTWERPEN, Prinsstraat 13, Belgium;YUN NV, Galileilaan 15, Belgium ~72: CLAES, Ingmar;DE BOECK, Ilke;GAMGAMI, Imane;HENKENS, Tim;LEBEER, Sarah;SIMONS, Alix;SPACOVA, Irina~ 33:BE ~31:2021/5643 ~32:12/08/2021

2024/01712 ~ Complete ~54:PROBIOTIC EGG WASH ~71:AGRITX, LLC, 617 Sullivan Road, Statesville, United States of America ~72: SLOAN, Gina~ 33:US ~31:63/236,399 ~32:24/08/2021;33:US ~31:17/818,182 ~32:08/08/2022

2024/01702 ~ Complete ~54:INTELLIGENT DETECTION METHOD AND DEVICE FOR NETWORK INFORMATION SECURITY ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Chunfang Gao;Wenhong Xiao~ 33:CN ~31:202310809816.8 ~32:04/07/2023

2024/01695 ~ Provisional ~54:ORGANIZATIONAL AND GOVERNMENT ONLINE-RECRUITMENT SYSTEM ~71:BGKS PROJECTS AND BUSINESS SOULUTIONS, 608 C, South Africa;BONOLO SAMUEL SETLHAPO, 608 C, South Africa ~72: BONOLO SAMUEL SETLHAPO~

2024/01699 ~ Complete ~54:MULTIFUNCTIONAL DIFFUSELY-REFLECTING INTERIOR WALL COATING CAPABLE OF PREVENTING MYOPIA ~71:Hunan Guocai New Material Co., Ltd., Jiangbian Road, Dongkou Economic Development Zone, Dongkou County, Shaoyang City, Hunan Province, 422399, People's Republic of China ~72: CHEN, Wei;HE, Lindao;LIU, Heng~

2024/01707 ~ Complete ~54:CRYSTALLINE POLYMORPHS OF THE FREE BASE OF 2-HYDROXY-6-((2-(1-ISOPROPYL-1H-PYRAZOL-5-YL)PYRIDIN-3-YL)METHOXY)BENZALDEHYDE ~71:Global Blood Therapeutics, Inc., 400 East Jamie Court, Suite 101, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: HOUSTON, Travis;LI, Zhe;PARENT, Stephan D.~ 33:US ~31:61/937,393 ~32:07/02/2014;33:US ~31:61/937,404 ~32:07/02/2014 2024/01720 ~ Complete ~54:INDOLE COMPOUNDS AND METHODS OF USE ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, Massachusetts, 02141, United States of America ~72: ALEXANDRE GROSS;ANATOLY RUVINSKY;ANDREW GOOD;BRADFORD HIRTH;CLAUDE BARBERIS;DAVID BORCHERDING;GREGORY HURLBUT;JINYU LIU;JUNKAI LIAO;MARK MUNSON;MARKUS METZ;MATTHIEU BARRAGUE;ROY VAZ;SUKANTHINI THURAIRATNAM;TIMOTHY ALAN GILLESPY;YI LI;ZHONGLI GAO~ 33:US ~31:63/240,765 ~32:03/09/2021

2024/01729 ~ Complete ~54:A POWERTRAIN SUPPORT ARRANGEMENT, AND A MOBILE UNDERGROUND MINING MACHINE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: AHTIAINEN, Jouni;ILJIN, Tuomas;KITULA, Mikko;LAIHONEN, Esko~ 33:EP ~31:21209967.5 ~32:23/11/2021

2024/01696 ~ Provisional ~54:PROCESS FOR THE CARBOTHERMIC SMELTING OF A METALLIFEROUS FEEDSTOCK MATERIAL USING A HOT OXIDISING GAS ~71:AFRICAN RAINBOW MINERALS LIMITED, 24 Impala Road, Chislehurston, South Africa ~72: BOUWER, Petrus, Hendrik, Ferreira~

2024/01706 ~ Complete ~54:COMPOUNDS FOR TREATING CERTAIN LEUKEMIAS ~71:TERNS, INC., 1065 E. Hillsdale Blvd, Suite 100, Foster City, California, 94404, United States of America ~72: F. ANTHONY ROMERO;RANDALL HALCOMB;THORSTEN A KIRSCHBERG;YINGZI XU~ 33:US ~31:62/733,029 ~32:18/09/2018;33:US ~31:62/816,637 ~32:11/03/2019;33:US ~31:62/889,929 ~32:21/08/2019

2024/01708 ~ Complete ~54:MODULATORS OF MAS-RELATED G-PROTEIN RECEPTOR X4 AND RELATED PRODUCTS AND METHODS ~71:Escient Pharmaceuticals, Inc., 10578 Science Center Drive, Suite 250, SAN DIEGO 92121, CA, USA, United States of America ~72: BOEHM, Marcus;HUANG, Liming;MARTINBOROUGH, Esther;SAINZ, Marcos;SELFRIDGE, Brandon;YEAGER, Adam~ 33:US ~31:62/825,741 ~32:28/03/2019;33:US ~31:62/849,095 ~32:16/05/2019;33:US ~31:62/864,306 ~32:20/06/2019;33:US ~31:62/938,277 ~32:20/11/2019;33:US ~31:62/955,967 ~32:31/12/2019;33:US ~31:62/959,799 ~32:10/01/2020

2024/01715 ~ Complete ~54:RADIOPHARMACEUTICALS BASED ON ((R)-1-((6-HYDRAZINYLNICOTINOYL)-DALANYL) PYRROLIDIN-2-YL)BORONIC ACID (HYNIC-IFAP) FOR DETECTING THE OVEREXPRESSION OF FIBROBLAST ACTIVATION PROTEIN ~71:INSTITUTO NACIONAL DE INVESTIGACIONES NUCLEARES, CARRETERA MÉXICO TOLUCA S/N, Mexico ~72: Blanca Elí OCAMPO-GARCÍA;Clara Leticia SANTOS-CUEVAS;Erika Patricia AZORIN-VEGA;Guillermina FERRO-FLORES;Myrna Alejandra LUNA-GUTIÉRREZ;Nallely Patricia JIMÉNEZ-MANCILLA~ 33:MX ~31:MX/a/2021/005089 ~32:30/04/2021

2024/01717 ~ Complete ~54:PLUG TERMINAL, PLUG STRUCTURE AND MOTOR VEHICLE ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District Changchun, Jilin 130000, People's Republic of China ~72: CHAO WANG~ 33:CN ~31:202110944154.6 ~32:17/08/2021

2024/01711 ~ Complete ~54:APPARATUS AND METHOD FOR SIMULTANEOUSLY TREATING DIFFERENT FLUCTUATING GAS FLOWS ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: PRISKE, Markus~ 33:EP ~31:21189420.9 ~32:03/08/2021

2024/01721 ~ Complete ~54:SEMI-AUTOMATIC OR AUTOMATIC CONTROL OF DRILLING TOOL CHANGING SYSTEM ~71:EPIROC DRILLING SOLUTIONS, LLC, 2100 North First Street, Garland, Texas, 75040, United States of America ~72: GAVIN MAESTAS;LUKE BENDER;MATTHEW FOSLER;SAMYUKTHA PERICHARLA;TAYLOR WILKIN;TYLER BERENS~ 33:US ~31:63/235,855 ~32:23/08/2021

2024/01727 ~ Complete ~54:CRYSTALLINE FORMS OF QUINAZOLINE DERIVATIVES, PREPARATION, COMPOSITION AND USE THEREOF ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070,

SWITZERLAND, Switzerland ~72: CHENG, Ziqiang;WANG, Zheng;ZHOU, Ding~ 33:IB ~31:2021/125016 ~32:20/10/2021

2024/01734 ~ Complete ~54:DRY POWDER MEDICAMENT INHALER ~71:Norton (Waterford) Limited, Unit 301 IDA Industrial Park, Cork Road, WATERFORD X91 WK68, IRELAND, Ireland ~72: BUCK, Daniel;CROWLEY, Peter John;GOTTESMAN, Josh;HAZENBERG, Jan Geert~ 33:GB ~31:2111658.7 ~32:13/08/2021

2024/01741 ~ 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

2024/01713 ~ Complete ~54:PROBIOTIC COMPOSITION TO REDUCE PATHOGENESIS IN POULTRY AND METHODS FOR USE THEREOF ~71:AGRITX, LLC, 617 Sullivan Road, Statesville, United States of America ~72: SLOAN, Gina~ 33:US ~31:63/236,399 ~32:24/08/2021;33:US ~31:17/818,182 ~32:08/08/2022;33:US ~31:17/818,591 ~32:09/08/2022

2024/01698 ~ Complete ~54:INTELLIGENT CLEANING ROBOT FISH FOR OFFSHORE CAGE ~71:SHANGHAI OCEAN UNIVERSITY, Huchenghuan Road 999, Pudong New District, Shanghai, 201306, People's Republic of China ~72: CHU Wenhua;WANG Yibo;YAN Jifeng;ZHAO Zijing~ 33:CN ~31:2023235447000 ~32:25/12/2023

2024/01704 ~ Complete ~54:AN ARTIFICIAL INTELLIGENCE BASED EXPLAINABLE CROP RECOMMENDATION SYSTEM ~71:Aruna Varanasi, Professor & HOD, CSE, Sreenidhi Institute Of Science & Technology, Yamnampet, Ghatkesar, Hyderabad, Telangana, 501301, India;Saroj Kumar Biswas, Associate Professor, CSE, National Institute of Technology, Silchar, Cachar, Assam, 788010, India;Yaganteeswarudu Akkem, Ph.D. Scholar, CSE, National Institute of Technology, Silchar, Cachar, Assam, 788010, India;Yaganteeswarudu Varanasi;Saroj Kumar Biswas;Yaganteeswarudu Akkem~

2024/01709 ~ Complete ~54:GPU RESOURCE ALLOCATION METHOD AND SYSTEM ~71:WEIFANG UNIVERSITY, No. 5147, Dongfeng East Street, High-tech Development Zone, Weifang, People's Republic of China ~72: ZHANG, Huihui~

2024/01694 ~ Provisional ~54:SCENT SAMPLE ON THE DEODORANT CONTAINER ~71:Kwebu Jonas Mofokeng, A1623 Bereng Street, South Africa ~72: Kwebu Jonas Mofokeng~

2024/01700 ~ Complete ~54:MAGNETIC FIELD GENERATOR BASED ON MAGNETIC FLUID ATOMIZATION LUBRICATION ~71:Ningbo Polytechnic, NO.1069 Xindalu, Beilun District, Ningbo City, Zhejiang Province, 315800, People's Republic of China ~72: Tao Lv~

2024/01703 ~ Complete ~54:AUTOMATIC PICKING DEVICE AND PICKING METHOD SUITABLE FOR LENTINULA EDODES ~71:Xinyu University, No. 2666, sunshine Avenue, high tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: Huang Xiaohua;Li Xiaojun;Li Xuezhu;Xie Lianping;Zeng Xiaorong;Zhan Xingxin;Zhang Haitao~

2024/01716 ~ Complete ~54:PHARMACEUTICAL COMPOSITION, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD., Room 402, No. 223 West Huanshi Road, Nansha District, Guangzhou, Guangdong, 511400, People's Republic of China;OCUSUN OPHTHALMIC PHARMACEUTICAL (GUANGZHOU) CO., LTD., Floor 1-3, Block A, Building 203, No. 2 Tongfa Road, Wanqingsha Town, Nansha District, Guangzhou, Guangdong, 511400, People's Republic of China ~72: CAO, Chen;SU, Yingxue;WANG, Yandong;WU, Meirong;XUE, Yaping;YU, Chuiliang;ZHOU, Sheng'an~ 33:CN ~31:202110951364.8 ~32:18/08/2021

2024/01719 ~ Complete ~54:COMPOSITE WEAR COMPONENT ~71:MAGOTTEAUX INTERNATIONAL S.A., Rue Adolphe Dumont, 4051, Vaux-sous-Chèvremont, Belgium ~72: STÉPHANE DESILES~ 33:EP ~31:21198590.8 ~32:23/09/2021

2024/01730 ~ Complete ~54:ANTI-PD-1 ANTIBODY PHARMACEUTICAL COMPOSITION AND USE THEREOF ~71:Shanghai Junshi Biosciences Co., Ltd., Floor 13, Building 2, Nos. 36 and 58, Haiqu Road, Pilot Free Trade Zone, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: DU, Xiaojie;FENG, Hui;LIU, Hongchuan;LIU, Hui;LIU, Peixiang;MENG, Qin~ 33:CN ~31:202110863978.0 ~32:29/07/2021

2024/01726 ~ Complete ~54:TUBERCULOSIS VACCINES ~71:Vir Biotechnology, Inc., 1800 Owens Street, Suite 900, SAN FRANCISCO 94158, CA, USA, United States of America ~72: ARVIN, Ann M.;DI IULIO, Julia;DOUGLAS, Janet L.;MARSHALL, Emily;SORIAGA, Leah B.;VIRGIN, Herbert W.~ 33:US ~31:63/239,278 ~32:31/08/2021;33:US ~31:63/392,778 ~32:27/07/2022

2024/01731 ~ Complete ~54:IL-13 INHIBITORS FOR THE TREATMENT OF PRURIGO NODULARIS ~71:Dermira, Inc., Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: LIMA, Renata Gontijo;SIU, Kimberly Mung Chee~ 33:US ~31:63/244,427 ~32:15/09/2021

2024/01738 ~ Complete ~54:A COMPOSITE SYSTEM FOR AGRICULTURE ~71:UPL LIMITED, CTS No 610 B/2, Behind Off Western Express Highway, Teacher's Colony, India ~72: SHARMA, Shiv Kumar;SHIRSAT, Rajan Ramakant;WAGH, Pradip Dattatray~ 33:IN ~31:202121034512 ~32:30/07/2021

2024/01724 ~ Complete ~54:BIOPOLYMER COMPOSITIONS INCORPORATING POLY(3-HYDROXYPROPIONATE) ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard Bainbridge, Georgia, 39817, United States of America ~72: MICHAEL MANG;PHILLIP VAN TRUMP~ 33:US ~31:63/226,813 ~32:29/07/2021

2024/01733 ~ Complete ~54:ANTIMICROBIAL PEPTIDOMIMETICS ~71:Basilea Pharmaceutica International AG, Allschwil, Hegenheimermattweg 167b, ALLSCHWIL 4123, SWITZERLAND, Switzerland;Universität Zürich, Rämistrasse 71, ZÜRICH 8006, SWITZERLAND, Switzerland ~72: BRABET, Emile;DESJONQUERES, Nicolas;JUNG, Françoise;LUTHER, Anatol;MÖHLE, Kerstin;OBRECHT, Daniel;UPERT, Grégory;ZBINDEN, Peter;ZERBE, Oliver~ 33:EP ~31:21020401.2 ~32:05/08/2021

2024/01740 ~ 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

2024/01723 ~ Complete ~54:PRODUCTION OF BIMODAL MOLECULAR WEIGHT POLY(HYDROXYALKANOATES) ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard Bainbridge, Georgia, 39817, United States of America ~72: MICHAEL MANG;PHILLIP VAN TRUMP~ 33:US ~31:63/226,826 ~32:29/07/2021

2024/01736 ~ Complete ~54:IMPLANTS, INSTRUMENTS, SYSTEMS, AND METHODS OF USING ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: BRINKER, Laura Zagrocki;DACOSTA, Albert;GILL, Sean;KARAS, Kaitlin;MAJORS, Benjamin~ 33:US ~31:63/203,852 ~32:02/08/2021

- APPLIED ON 2024/02/29 -

2024/01746 ~ Provisional ~54:DUAL SMART CARD ~71:Ijere Joshua Izuchukwu, No 155 old Onitsha Road Nnewi, Nigeria ~72: Ijere Joshua Izuchukwu~

2024/01759 ~ Complete ~54:ADAPTER FOR A WORK IMPLEMENT WITH THRU-HOLE AND RAIL ~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: JURA, Jason G.;SERRURIER, Douglas C.;SINN, Eric T.;WELLS, Corey M.~ 33:US ~31:17/464,793 ~32:02/09/2021

2024/01774 ~ Complete ~54:EXCITER APPARATUS ~71:FLSmidth A/S, Vigerslev Alle 77, VALBY 2500, DENMARK, Denmark ~72: ALHASSAN, Shanoon;GARDINER, Michael;HALANI, Tejas;ONG, Gordon;SADLER, Byron;SEYMOUR, Clayton~ 33:DK ~31:PA202101001 ~32:20/10/2021

2024/01775 ~ Complete ~54:METHOD OF OPERATING A HEAT RELEASING REACTOR, A HEAT RELEASING REACTOR AND COMPUTATION SYSTEM FOR A HEAT RELEASING REACTOR ~71:Sumitomo SHI FW Energia Oy, Metsänneidonkuja 10, ESPOO 02130, FINLAND, Finland ~72: KETTUNEN, Ari;MIETTINEN, Jouni~ 33:IB ~31:2021/074838 ~32:09/09/2021

2024/01778 ~ Complete ~54:EXCITER WITH SEPARATE HOUSING AND MOUNTING PLATE ~71:Sandvik Rock Processing Australia Pty Limited, 65 Epping Road, NORTH RYDE 2113, NEW SOUTH WALES, AUSTRALIA, Australia ~72: COOK, Tim Stanton;MANN, Simon;TEYHAN, Douglas Robert;WIELTSCH, Andreas~ 33:AU ~31:2021903046 ~32:22/09/2021

2024/01744 ~ Provisional ~54:KEY CONTROL SYSTEM AND METHOD ~71:W.T.F.M INVESTMENTS (PTY) LTD., 93 Turffontein Road, Stafford, TURFFONTEIN, Johannesburg 2140, Gauteng, SOUTH AFRICA, South Africa ~72: ANGELOS, Komninos George~

2024/01758 ~ Complete ~54:RNA-GUIDED GENOME RECOMBINEERING AT KILOBASE SCALE ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Office of the General Counsel Building 170, 3rd Floor, Main Quad, P.O. Box 20386, United States of America ~72: CONG, Le~ 33:US ~31:63/239,732 ~32:01/09/2021

2024/01762 ~ Complete ~54:THROTTLE-COOLED INFRARED DETECTOR, INTELLIGENT MOLD AND INJECTION COMPRESSION MOLDING METHOD ~71:PAN, Yong, Unit 301, Unit 1, Building 63, Baiyangxin Village, Dongcheng Street, Huangyan District,, Taizhou, Zhejiang, 318020, People's Republic of China ~72: PAN, Yong~

2024/01777 ~ Complete ~54:SYSTEMS AND METHODS FOR FLUID FLOW BASED RENEWABLE ENERGY GENERATION ~71:Aeromine Technologies, Inc., 3833 Dunlavy Street #851, HOUSTON 77006, TX, USA, United States of America ~72: WESTERGAARD, Carsten Hein~ 33:US ~31:17/458,106 ~32:26/08/2021

2024/01780 ~ Complete ~54:EXCITER LUBRICATION SYSTEM ~71:Sandvik Rock Processing Australia Pty Limited, 65 Epping Road, NORTH RYDE 2113, NEW SOUTH WALES, AUSTRALIA, Australia ~72: COOK, Tim Stanton;MANN, Simon;TEYHAN, Douglas Robert;WIELTSCH, Andreas~ 33:AU ~31:2021903046 ~32:22/09/2021

2024/01783 ~ Complete ~54:DOSAGE REGIME ~71:ZEALAND PHARMA A/S, Sydmarken 11 2860 Søborg, Denmark ~72: MIKKEL ASKJÆR AGERSNAP~ 33:EP ~31:21194879.9 ~32:03/09/2021;33:EP ~31:22160234.5 ~32:04/03/2022

2024/01745 ~ Provisional ~54:SHORT-RANGE WIRELESS NETWORK MUSIC HAIRBRUSH BUILT-IN HANDS-FREE WITH MICROPHONE AND LOUDSPEAKER ~71:AHMED WASEEF SAIB, 24 Park Avenue, Desainager, South Africa ~72: AHMED WASEEF SAIB~

2024/01747 ~ Complete ~54:ELECTRONIC DEVICE FOR ESTIMATING FOREST CARBON STORAGE ~71:Research Institute of Forest Resource Information Techniques, Chinese Academy of Forestry, No.1

Dongxiaofu, Qinglongqiao Street, Xiangshan Road, Haidian District, Beijing, 100091, People's Republic of China ~72: HE, Chenrui;LI, Xiaoyao;PANG, Lifeng;TAN, Bingxiang~

2024/01750 ~ Complete ~54:A HEAT DISSIPATION DEVICE FOR BIG DATA SERVER ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Kun Liu;Lei Liu~

2024/01767 ~ Complete ~54:SOTORASIB AND AN EGFR ANTIBODY FOR TREATING CANCER COMPRISING A KRAS G12C MUTATION ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: CHAN, Emily;DUTTA, Sandeep;FRIBERG, Gregory;HENARY, Haby;HOUK, Brett E.;MATHER, Omar;NGARMCHAMNANRITH, Gataree~ 33:US ~31:63/241,601 ~32:08/09/2021;33:US ~31:63/298,747 ~32:12/01/2022;33:US ~31:63/374,012 ~32:31/08/2022

2024/01769 ~ Complete ~54:ANTI- TGFB1,2,3 ANTIBODIES AND THERAPEUTIC USES THEREOF ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: BERGERON, Lisa Marie;CAMPOS, Henry Luis~ 33:US ~31:63/248,679 ~32:27/09/2021

2024/01782 ~ Complete ~54:NITROGEN-CONTAINING HETEROCYCLIC DERIVATIVE INHIBITOR, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 2, No.3728 Jinke Road, Zhangjiang, Hi-Tech Park, Shanghai, 201203, People's Republic of China ~72: FENGCHANG CHENG;GUANGJUN SUN;PENG GAO;WENHUA XIU;WENSHENG YU~ 33:CN ~31:202110995982.2 ~32:27/08/2021;33:CN ~31:202111334040.6 ~32:11/11/2021;33:CN ~31:202111663528.3 ~32:31/12/2021

2024/01749 ~ Complete ~54:A FABRICATION METHOD AND APPLICATION METHOD OF NONLINEAR GUIDED WAVE DETECTION COMBINED TRANSDUCER ~71:Changsha Aeronautical Vocational and Technical College, Tiaoma Town, Yuhua District, Changsha City, Hunan Province, 410124, People's Republic of China;Nanchang Hangkong University, No.696 Fenghe South Avenue, Nanchang City, Jiangxi Province, 330063, People's Republic of China;National University of Defense Technology, No.109 Deya Road, Changsha City, Hunan Province, 410073, People's Republic of China ~72: Dongbao GAO;Haofang OUYANG;Jie WANG;Kaifeng HAN;Minwang FU;Xianke PENG;Xiaohu TANG;Xingxing YU;Ying ZHU~

2024/01757 ~ Complete ~54:RNA MOLECULES ~71:PFIZER INC., 66 Hudson Boulevard East, New York, United States of America ~72: BENNETT, Eric Matthew;DIAZ, Fernando Martin;DORMITZER, Philip Ralph;JANSEN, Kathrin Ute;MUNOZ-MORENO, Raquel;SOLORZANO QUIJANO, Alicia~ 33:US ~31:63/256,283 ~32:15/10/2021;33:US ~31:63/293,220 ~32:23/12/2021;33:US ~31:63/373,539 ~32:25/08/2022

2024/01761 ~ Complete ~54:SPINNING FORMING APPARATUS AND METHOD FOR ALUMINUM INNER CONTAINER OF HIGH-PRESSURE HYDROGEN CYLINDER ~71:SINOMA SCIENCE AND TECHNOLOGY (SUZHOU) CO., LTD., No. 68, Changyang Street, Suzhou Industrial Park, Jiangsu, 215021, People's Republic of China ~72: MI, Kuan;WANG, Jun;WANG, Yanhui~ 33:CN ~31:202111030213.5 ~32:03/09/2021

2024/01766 ~ Complete ~54:CLIP AND CLIP INSTALLATION APPARATUS ~71:EVA-LAST HONG KONG LIMITED, 12/FTOWER 3, 33 CANTON RD, TSIMSHATSUI, Hong Kong ~72: CHAPMAN, Gareth Wade Gadsby;CHAPMAN, Wesley Raymond;COLLENDER, Caitlynne Gail;MINNE, Marc Peter~ 33:ZA ~31:2021/00799 ~32:01/08/2021;33:IB ~31:PCT/IB2022/057064 ~32:29/07/2022

2024/01752 ~ Complete ~54:A SOLAR MOVABLE REFRIGERATION HOUSE ~71:Suzhou Santuo Cold Chain Technology Co.,Ltd, Room 808, Building 11, University Science Park, No. 20, Jianxiong Road, Science and

Education New Town, Taicang, Suzhou, Jiangsu, 215400, People's Republic of China ~72: Haibing Du;Ruiqiu Du~ 33:CN ~31:202323410240.2 ~32:14/12/2023

2024/01756 ~ Complete ~54:HIGH STRENGTH PRESS HARDENED STEEL PART AND METHOD OF MANUFACTURING THE SAME ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Alice DUMONT;Pascal DIETSCH;Sebastian COBO;Stéphanie MICHAUT~ 33:IB ~31:PCT/IB2021/058358 ~32:14/09/2021

2024/01787 ~ Complete ~54:METHODS OF TREATING CANCER WITH ANTI-HER2 BIPARATOPIC ANTIBODIES ~71:ZYMEWORKS BC INC., 114 East 4th Avenue, Suite 800, Vancouver, British Columbia, V5T 1G4, Canada ~72: JEFFREY RYAN PROCTOR;NEIL C JOSEPHSON;RUPERT H DAVIES~ 33:US ~31:63/244,690 ~32:15/09/2021

2024/01755 ~ Complete ~54:APPLICATION OF STEROID COMPOUND IN PREPARATION OF DRUG FOR PREVENTING AND/OR TREATING EYE FLOATERS ~71:GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD., Room 402, No. 223 West Huanshi Road, Nansha District, Guangzhou, Guangdong, 511400, People's Republic of China;OCUSUN OPHTHALMIC PHARMACEUTICAL (GUANGZHOU) CO., LTD., Floor 1-3, Block A, Building 203, No. 2 Tongfa Road, Wanqingsha Town, Nansha District, Guangzhou, Guangdong, 511400, People's Republic of China ~72: CAO, Chen;SU, Yingxue;WANG, Yandong;WU, Meirong;XUE, Yaping;YU, Chuiliang~ 33:CN ~31:202110951369.0 ~32:18/08/2021

2024/01764 ~ Complete ~54:PART ENCAPSULATION DEVICE FOR ELECTRONIC EQUIPMENT MANUFACTURING ~71:Wuhu Super Machinery R & D Technology Co. , Ltd., Building 415, Commercial Building 1, South District, Longhu New City, Longhu Street, Sanshan Economic Development Zone, Wuhu City, People's Republic of China ~72: Chen Xiaodong~

2024/01748 ~ Complete ~54:SECURITY MONITORING PROBE BASED ON INTELLIGENT IMAGE RECOGNITION ~71:Hebei Tangxun Information Technology Co., Ltd., 4th Floor, Software Building, No. 9 Ruining Road, Luquan Economic Development Zone, Shijiazhuang, Hebei, 050000, People's Republic of China ~72: WANG Yujiang;ZHOU Xiangji~ 33:CN ~31:202410112144X ~32:26/01/2024

2024/01772 ~ Complete ~54:METHOD AND DEVICE FOR TESTING A VOLTAGE CONVERTER ~71:OMICRON electronics GmbH, Oberes Ried 1, KLAUS 6833, AUSTRIA, Austria ~72: GOPP, David~ 33:AT ~31:A50676/2021 ~32:20/08/2021

2024/01768 ~ Complete ~54:IMMUNOMODULATING AZALIDES ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: COX, Mark R.;EWIN, Richard A.;HOT, Imelda;MADDUX, Todd M.;RESPONDEK, Tomasz~ 33:US ~31:63/241,126 ~32:07/09/2021

2024/01779 ~ Complete ~54:COOLING VIBRATION EXCITER APPARATUS ~71:Sandvik Rock Processing Australia Pty Limited, 65 Epping Road, North Ryde, NEW SOUTH WALES 2113, AUSTRALIA, Australia ~72: MANN, Simon;WIELTSCH, Andreas~ 33:AU ~31:2021903046 ~32:22/09/2021

2024/01786 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING POST-COVID CONDITIONS OF FATIGUE ~71:AIM IMMUNOTECH INC., 2117 SW Highway, 484, Ocala, Florida, 34473, United States of America ~72: DAVID R STRAYER;THOMAS K EQUELS~ 33:US ~31:63/235,388 ~32:20/08/2021;33:US ~31:63/342,562 ~32:16/05/2022

2024/01770 ~ Complete ~54:ADAPTATION OF PLATFORM HOSTS TO IGF<sup>-</sup> MEDIA ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320, CA, USA, United States of America ~72: DARIS, Kristine Marie;GISLASON, Eric;LE, Huong Thi Ngoc;MUNRO, Trent Phillilp~ 33:US ~31:63/242,623 ~32:10/09/2021

2024/01781 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING EXPRESSION OF ANGIOPOIETIN-LIKE 3 (ANGPTL3) PROTEIN ~71:SHANGHAI ARGO BIOPHARMACEUTICAL CO., LTD., 337 Shahe Road, J2026, Room 1\_203, People's Republic of China ~72: SHAO, Pengcheng Patrick;SHU, Dongxu~ 33:CN ~31:PCT/CN2021/119734 ~32:23/09/2021

2024/01785 ~ Complete ~54:DOSING OF MUSCLE TARGETING COMPLEXES FOR TREATING DYSTROPHINOPATHIES ~71:DYNE THERAPEUTICS, INC., 1560 Trapelo Road Waltham, Massachusetts, 02451, United States of America ~72: BRENDAN QUINN;CHRIS MIX;CODY A DESJARDINS;JOHN DAVIS;JOHN NAJIM;KIM TANG;MOHAMMED T QATANANI;OXANA BESKROVNAYA;PEIYI SHEN;ROMESH R SUBRAMANIAN;SCOTT HILDERBRAND;SEAN SPRING;TIMOTHY WEEDEN~ 33:US ~31:63/245,162 ~32:16/09/2021;33:US ~31:63/250,177 ~32:29/09/2021;33:US ~31:63/293,619 ~32:23/12/2021;33:US ~31:63/348,876 ~32:03/06/2022

2024/01743 ~ Provisional ~54:SCOOTER DELIVERY BOX ~71:EASY DISPLAY ADS (PTY) LTD., 12467 Evaton West Ext 7, 1984, Gauteng, SOUTH AFRICA, South Africa ~72: DLAMINI, Siphiwe~

2024/01753 ~ Complete ~54:COMPOSITE GROOVE PANEL, DOOR AND METHOD OF CONSTRUCTION ~71:AFRICA TIMBER MARKETING CC, Plot 365, R104 Road, Donkerhoek, Pretoria East, South Africa ~72: SERVAAS JACOBUS BADENHORST~ 33:ZA ~31:2022/12981 ~32:30/11/2022

2024/01754 ~ Complete ~54:COMBINATIONS OF TRIAZOLINONE HERBICIDES WITH SAFENERS ~71:UPL CORPORATION LIMITED, 6th Floor, Suite 157B Harbor Front Building President John Kennedy Street, Mauritius;UPL EUROPE LTD, The Centre, 1st Floor Birchwood Park Warrington, United Kingdom;UPL MAURITIUS LIMITED, 6th Floor, Suite 157B Harbor Front Building President John Kennedy Street, Mauritius ~72: LENZ, Giuvan;POLLET, Jean-Phillipe;RAO, Ganesh~ 33:EP ~31:21306085.8 ~32:03/08/2021

2024/01760 ~ Complete ~54:TIP WITH THRU-HOLE AND PIN RETAINING GEOMETRY ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: JURA, Jason G.;SERRURIER, Douglas C.;SINN, Eric T.;WELLS, Corey M.~ 33:US ~31:17/464,838 ~32:02/09/2021

2024/01771 ~ Complete ~54:METHOD FOR THE TREATMENT OF A FIBROUS RAW MATERIAL ~71:Infinited Fiber Company Oy, Tekniikantie 14, ESPOO 02150, FINLAND, Finland ~72: SIREN, Sakari;STJERNBERG, Martin~ 33:FI ~31:20215949 ~32:09/09/2021

2024/01773 ~ Complete ~54:INJECTABLE HIGH CONCENTRATION PHARMACEUTICAL FORMULATIONS AND METHODS OF MANUFACTURING AND USE THEREOF ~71:Xeris Pharmaceuticals, Inc., 1375 West Fulton Street, Suite 1300, CHICAGO 60607, IL, USA, United States of America ~72: BOWMAN, Diana;COLEMAN, Scott;DONOVAN, Martin;FITCH, Richard;PRESTRELSKI, Steven;SLOAT, Brian~ 33:US ~31:63/242,405 ~32:09/09/2021;33:US ~31:63/351,786 ~32:13/06/2022

2024/01776 ~ Complete ~54:ELECTRIC STOVE ~71:Paul Wurth S.A., 32, rue d'Alsace, LUXEMBOURG 1122, LUXEMBOURG, Luxembourg ~72: BRUNI, Davide;CASTELLI, Andrea;GAROFALO, Federico~ 33:LU ~31:500686 ~32:24/09/2021

2024/01784 ~ Complete ~54:OXADIAZASPIRO COMPOUNDS FOR USE IN THE TREATMENT OF MOTONEURON DEGENERATION OR IN NEUROPROTECTION ~71:ESTEVE PHARMACEUTICALS, S.A., Passeig de la Zona Franca, 109, 4ª Planta, 08038, Barcelona, Spain ~72: JOSE-MIGUEL VELA-HERNANDEZ;MANUEL MERLOS-ROCA;MIREIA HERRANDO-GRABULOSA;XAVIER NAVARRO-ACEBES~ 33:EP ~31:EP21382845 ~32:20/09/2021 2024/01788 ~ Complete ~54:ONE-MACHINE, MULTI-POINT DRIVE MECHANISM FOR RAILWAY SWITCH ~71:CHINA RAILWAY BAOJI BRIDGE GROUP CO., LTD, No. 80 Qingjiang Road, Weibin District, Baoji City, People's Republic of China ~72: LEI, Jie;LI, Chunqiang;SHI, Longbo;SHI, Qingfeng;YAN, Yuqing~ 33:CN ~31:202111061348.8 ~32:10/09/2021

2024/01751 ~ Complete ~54:A WATERLOGGING WATER MONITORING SYSTEM FOR URBAN PHYSICAL EXAMINATION PLATFORM ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Kun Liu;Lei Liu~

2024/01763 ~ Complete ~54:EMULSIFIER COMPOSITIONS ~71:GLENSOL (PTY) LIMITED, 3 Erlswoldway, Saxonwold, South Africa ~72: GREUB, Fritz~ 33:ZA ~31:2021/06400 ~32:02/09/2021

2024/01765 ~ Complete ~54:AN IMAGING SYSTEM WITH A SCANNING MIRROR ~71:EUROPEAN SPACE AGENCY, Technology Transfer Programme Office, Keplerlaan 1, Netherlands;OHB SYSTEM AG, Manfred-Fuchs-Str. 1, Germany ~72: DEIML, Michael;ERHARD, Markus;MARESI, Luca~

- APPLIED ON 2024/03/01 -

2024/01803 ~ Complete ~54:LECTIN-DRUG CONJUGATES ~71:UNICHEM LABORATORIES LIMITED, Unichem Bhavan, Prabhat Estate, Off. S. V. Road, Jogeshwari (W), Mumbai, Maharashtra, 400102, India ~72: BAKSHI, Gautam;IYAPPAN, Saravanakumar;PATIL, Ganesh;SATHE, Dhananjay~ 33:IN ~31:202121044592 ~32:01/10/2021

2024/01815 ~ Complete ~54:VEHICLE MONITORING SYSTEM ~71:YAZAKI CORPORATION, 8-15, Konan 1-Chome, Minato-ku, Tokyo, 1080075, Japan ~72: KOSUKE KOGO;MUNEHIKO KAWAMOTO~ 33:JP ~31:2021-163631 ~32:04/10/2021

2024/01817 ~ Complete ~54:FACE IMAGE CLUSTERING METHOD AND SYSTEM BASED ON LOCALIZED SIMPLE MULTIPLE KERNEL K-MEANS ~71:ZHEJIANG NORMAL UNIVERSITY, 688 Yingbin Road, Jinhua, People's Republic of China ~72: LI, Miaomiao;XU, Huiying;YIN, Jianping;ZHANG, Yi;ZHU, Xinzhong~ 33:CN ~31:202110940777.6 ~32:17/08/2021

2024/01820 ~ Complete ~54:METHOD AND APPARATUS FOR ULTRASONIC MEASUREMENT OF TEMPERATURE FIELD INSIDE CABLE ~71:XI'AN UNIVERSITY OF TECHNOLOGY, No. 5, Jinhua South Road, Beilin District, Xi'an, People's Republic of China ~72: LIAN, Huan;LIU, Rui;QIN, Sichen;WANG, Qian;WANG, Tao;ZHA, Junwei;ZHANG, Jiawei~ 33:CN ~31:202111047779.9 ~32:08/09/2021

2024/01807 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING HLA FUSION PROTEINS ~71:IMMUNOS THERAPEUTICS AG, Wagistrasse 14, Switzerland ~72: KUMAR, Anil;MARROQUIN BELAUNZARAN, Osiris;RAFIEI, Anahita;RENNER, Christoph~ 33:EP ~31:21190004.8 ~32:05/08/2021;33:EP ~31:21190005.5 ~32:05/08/2021;33:EP ~31:21207324.1 ~32:09/11/2021

2024/01797 ~ Complete ~54:HEALTH DATA MANAGEMENT METHOD BASED ON EDGE COMPUTING ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, Nansha District, Dongyong Town, Dongshen Village No. 5 factory floor, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG, Shengxiang;YANG, Dingguang~

2024/01809 ~ Complete ~54:POLYPEPTIDES ~71:DJS Antibodies Ltd, Wood Centre For Innovation, Quarry Road, Headington, OXFORD OX3 8SB, UNITED KINGDOM, United Kingdom ~72: ILLINGWORTH, Joseph;INGHAM, Megan;LLEWELLYN, David;STEWARD, Michael~ 33:EP ~31:21194607.4 ~32:02/09/2021;33:EP ~31:22155472.8 ~32:07/02/2022

2024/01796 ~ Complete ~54:SYSTEM FOR AND METHOD OF LOCATING LOST PETS/ANIMALS ~71:COMMUNITY PETS (PTY) LTD., Unit 9, Norma Jean Square, 244 Jean Avenue, Centurion, Gauteng, 0157, South Africa ~72: JOHANNES WILLEM PRETORIUS~

2024/01805 ~ Complete ~54:RECOMBINANT GLYCAN BINDING PROTEINS AND ITS USE ~71:UNICHEM LABORATORIES LIMITED, Unichem Bhavan, Prabhat Estate, Off. S. V. Road, Jogeshwari (W), Mumbai, Maharashtra, 400102, India ~72: BAKSHI, Gautam;IYAPPAN, Saravanakumar;PATIL, Ganesh;SATHE, Dhananjay~ 33:IN ~31:202121044592 ~32:01/10/2021

2024/01819 ~ Complete ~54:MULTI-VIEW TEXT CLUSTERING METHOD AND SYSTEM BASED ON ONE-STEP LATE FUSION ~71:DONGGUAN UNIVERSITY OF TECHNOLOGY, No. 1, University Road, Songshan Lake District, Dongguan City, People's Republic of China;ZHEJIANG NORMAL UNIVERSITY, 688 Yingbin Road, Jinhua, People's Republic of China ~72: LI, Miaomiao;LIU, Xinwang;XU, Huiying;YIN, Jianping;ZHANG, Yi;ZHU, Xinzhong~ 33:CN ~31:202110940783.1 ~32:17/08/2021

2024/01812 ~ Complete ~54:USE OF COMPOSITIONS WITH ETHOFUMESATE AND BIXLOZONE IN WHEAT CROPS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: AULER, Thomas;TOSSENS, Herve~ 33:EP ~31:21189245.0 ~32:02/08/2021

2024/01814 ~ Complete ~54:COMBINATION MEDICAMENTS COMPRISING HLA FUSION PROTEINS ~71:IMMUNOS THERAPEUTICS AG, Wagistrasse 14, Switzerland ~72: GUALANDI, Marco;MARROQUIN BELAUNZARAN, Osiris;RAFIEI, Anahita~ 33:EP ~31:21190003.0 ~32:05/08/2021

2024/01806 ~ Complete ~54:A MODIFIED HLA-B57 WITH INCREASED EXPRESSION LEVELS ~71:IMMUNOS THERAPEUTICS AG, Wagistrasse 14, Switzerland ~72: MARROQUIN BELAUNZARAN, Osiris;RENNER, Christoph;VOGT, Lorenz~ 33:EP ~31:21190004.8 ~32:05/08/2021;33:EP ~31:21190005.5 ~32:05/08/2021;33:EP ~31:21207324.1 ~32:09/11/2021

2024/01818 ~ Complete ~54:KNOWLEDGE GRAPH RECOMMENDATION METHOD AND SYSTEM BASED ON IMPROVED KGAT MODEL ~71:ZHEJIANG NORMAL UNIVERSITY, 688 Yingbin Road, Jinhua, People's Republic of China ~72: JIN, Lintong;XU, Huiying;ZHU, Xinzhong~ 33:CN ~31:202111457641.6 ~32:01/12/2021

2024/01795 ~ Complete ~54:REINFORCED COVERAGE SYSTEM ~71:SPAMER, Hendrik Jacobus Venter, 16 Castle Pine Crescent, Silver Lakes Golf Estate, South Africa ~72: SPAMER, Hendrik Jacobus Venter~ 33:ZA ~31:2022/13070 ~32:02/12/2022

2024/01802 ~ Complete ~54:SYSTEM AND METHOD FOR GOLF COURSE MANAGEMENT ~71:TRAN, Van Nam, 19th Floor, Viwaseen Tower Office Building, No. 48, To Huu Street, Trung Van Ward, Nam Tu Liem District, Viet Nam ~72: TRAN, Van Nam~ 33:VN ~31:1-2021-05032 ~32:16/08/2021

2024/01816 ~ Complete ~54:A DESICCANT DEHUMIDIFIER ~71:MUNTERS EUROPE AKTIEBOLAG, Box 1150, 164 26, Kista, Sweden ~72: URBAN GUNNARSSON~ 33:SE ~31:2151015-1 ~32:23/08/2021

2024/01791 ~ Provisional ~54:INDUCTIVE THUMB STICK ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;BRUWER, Frederick Johannes Jnr~

2024/01800 ~ Complete ~54:V-TYPE FILTER FOR DEEP PURIFICATION TREATMENT OF MUNICIPALWASTEWATER ~71:SUZHOU MUNICIPAL ENGINEERING DESIGN INSTITUTE CO., LTD, NO.111, Shuyuan Lane, Suzhou, Jiangsu, 215000, People's Republic of China ~72: CHEN, Minhao;HU, Xinghua;LI,

Haoran;LV, Gang;MENG, Fanru;SHEN, Hua;SU, Xiang;WANG, Ruoyun;WANG, Zhihong;XIA, Xu;XU, Jingcheng~ 33:CN ~31:202222389231.9 ~32:08/09/2022

2024/01793 ~ Complete ~54:DEVICE AND METHOD FOR DETECTING LEAKAGE POINT OF VERTICALLY LAID HIGH-RESISTANCE IMPERMEABLE MEMBRANE ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No.1 Daxue Road, Quanshan District, Xuzhou City, Jiangsu Province, 221116, People's Republic of China;North China Engineering Investigation Institute Co., Ltd, NO.39 Huitong Road, Yuhua District, Shijiazhuang City, Hebei Province, 050021, People's Republic of China ~72: HAN Guilei;YE Sizhe;YIN Qian;YUAN Shengchao;ZHANG Qiang~ 33:CN ~31:2023104415188 ~32:23/04/2023

2024/01799 ~ Complete ~54:METHOD FOR PRODUCING A PLASTIC GRANULATE ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, Austria ~72: Andreas WEBER;Patrik KARRER;Wibke BECKER~ 33:CH ~31:70154/2021 ~32:11/08/2021

2024/01801 ~ Complete ~54:ENVIRONMENTAL-FRIENDLY CIGARETTE TIPPING PAPER AND PREPARATION SYSTEM THEREOF ~71:Anhui Tianxiang high-tech Special Packing Material Group Co., Ltd., 1 Tengyun Road, Yuexi County Economic Development Zone, Anqing, Anhui, 246699, People's Republic of China ~72: LIU Hanqiao;LIU Shaobin;YU Liugen;YU Tianxiang~ 33:CN ~31:202210983926.1 ~32:17/08/2022

2024/01808 ~ Complete ~54:RNA EDITING VIA RECRUITMENT OF SPLICEOSOME COMPONENTS ~71:Tacit Therapeutics, Inc., 329 Oyster Point Blvd, JLABS, 3rd Floor, U1 Bio, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: NELLES, David A.~ 33:US ~31:63/240,428 ~32:03/09/2021;33:US ~31:63/345,660 ~32:25/05/2022

2024/01813 ~ Complete ~54:FUSION PROTEIN CONTAINING ANTI-TIGIT ANTIBODY AND TGF-BR, AND PHARMACEUTICAL COMPOSITION AND USE THEREOF ~71:Akeso Biopharma, Inc., 6 Shennong Road, Torch Development Zone, ZHONGSHAN 528437, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: LI, Baiyong;WANG, Zhongmin;XIA, Yu;ZHANG, Peng~ 33:CN ~31:202110961038.5 ~32:20/08/2021

2024/01792 ~ Provisional ~54:A SYSTEM AND METHOD FOR DETERMINING A RELEVANCE INDICATOR ~71:MAVEN (PTY) LTD, 6 Grey Street, Trichardt, South Africa ~72: REYNEKE, Josef René;REYNEKE, Petrus Josef;VAN HEERDEN, Tania~

2024/01794 ~ Complete ~54:FULL-FACE GROUTING-BASED CRD CONSTRUCTION METHOD FOR EXCAVATING TUNNEL UNDERNEATH BRIDGE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHEN, Ruoxi;GE, Xiaohan;LI, Yuwei;REN, Shengnan;SHEN, Yuzhe;SUN, Yankun;YAO, Jiahui;YUAN, Yanzhao;ZHAI, Juyun;ZHAI, Weimeng;ZHU, Hanyu~

2024/01790 ~ Provisional ~54:BENEFICIARY BENEFITS AND ASSETS NOTIFICATION SYSTEM ~71:Theobald Ayatolla Mbadaliga, 43 Waterbessie Street, South Africa ~72: Theobald Ayatolla Mbadaliga~

2024/01804 ~ Complete ~54:NOVEL OMEGA 3 CARRIER PREPARATIONS FOR INHALATION DRUG DELIVERY FOR TREATING LUNG INFLAMMATION ~71:LEIUTIS PHARMACEUTICALS LLP, Plot No.: 23, TIE 1st Phase, Balanagar, India ~72: AKULA, Srinath;BANDA, Nagaraju;BRENNA, James Thomas;KOCHERLAKOTA, Chandrashekhar;KOTHAPALLI, Sesha Durga Kumar;NARALA, Arjun~ 33:IN ~31:202141035170 ~32:04/08/2021;33:IN ~31:202141053853 ~32:23/11/2021

2024/01798 ~ Complete ~54:METHOD FOR MANAGING HEALTH BASED ON PASSIVE INTERNET OF THINGS ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, Nansha District, Dongyong Town,

Dongshen Village No. 5 factory floor, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG, Shengxiang;YANG, Dingguang~

2024/01810 ~ Complete ~54:PERSONAL CASE COMPOSITION BASED ON ANIONIC SURFACTANT, AMPHOTERIC SURFACTANT AND ALKYL GLUCOSIDE ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: CHEN, Changlong;DENG, Yanjun;HUANG, Dong Yao;SHEN, Hongwei;ZENG, Yuyan~ 33:CN ~31:202111054705.8 ~32:09/09/2021

2024/01811 ~ Complete ~54:PERSONAL CARE COMPOSITIONS BASED ON AMINOACIDS AND SKIN PENETRATION ENHANCER ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BOYD, Thomas;CHENG, Shujiang;GOSWAMI, Sayantani;NAMKOONG, Jin;SOLIMAN, Nadia;WU, Qiang~ 33:US ~31:63/242,704 ~32:10/09/2021

- APPLIED ON 2024/03/04 -

2024/01826 ~ Complete ~54:A DEVICE FOR REAL-TIMELY DETECTING THE APPARENT VISCOSITY OF ASPHALT IN DIFFERENT STATES ~71:Guangxi Zhongtie Nanheng Expressway Co., Ltd., No.3 Jingchun Road, Liujing Industrial Park, Nanning City, Guangxi Zhuang Autonomous Region, 530313, People's Republic of China ~72: Aimin FAN;Anbin SHEN;Pan RAN;Shifeng ZHU;Wanbo ZHONG;Xing ZHENG;Yao WANG;Yunya PING~ 33:CN ~31:2024200629597 ~32:10/01/2024

2024/01830 ~ Complete ~54:HBB-MODULATING COMPOSITIONS AND METHODS ~71:FLAGSHIP PIONEERING INNOVATIONS VI, LLC, 55 Cambridge Parkway, Suite 800E, United States of America ~72: ABERNATHY, Daniel Gene;ALTSHULER, Robert Charles;APPONI, Luciano Henrique;BOTHMER, Anne Helen;CHEE, Daniel Raymond;CITORIK, Robert James;COTTA-RAMUSINO, Cecilia Giovanna Silvia;FU, Yanfang;HOLMES, Michael Christopher;KIM, Kyusik;KOTLAR, Randi Michelle;MCALLISTER, Gregory David;QUERBES, William;RAY, Ananya;ROQUET, Nathaniel;SALOMON, William Edward;SANCHEZ, Carlos;STEINBERG, Barrett Ethan;WANG, Zhan~ 33:US ~31:63/241,994 ~32:08/09/2021;33:US ~31:63/250,143 ~32:29/09/2021;33:US ~31:63/303,900 ~32:27/01/2022

2024/01837 ~ Complete ~54:DEVICE FOR CONVERSION OF WAVE ENERGY INTO ELECTRICAL ENERGY ~71:DRAGIC, Mile, 11 Makedonska, ZRENJANIN 23000, SERBIA, Russia Serbia ~72: DRAGIC, Mile~ 33:RS ~31:P-2021/1153 ~32:17/09/2021

2024/01843 ~ Complete ~54:A WIND TURBINE ~71:ORFANOS, Vasileios, 18 Karinari Str, Chalandri, Greece ~72: ORFANOS, Vasileios~ 33:GR ~31:20210100536 ~32:05/08/2021

2024/01831 ~ Complete ~54:TRACKING DEVICE FOR SOLAR PANELS ~71:IDEEMATEC DEUTSCHLAND GMBH, Neusling 9c, Germany ~72: HIMMETER, Tobias;KUFNER, Johann~ 33:EP ~31:21198057.8 ~32:21/09/2021

2024/01832 ~ Complete ~54:LEVELLER CALIBRATION DEVICE ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Florent SPONEM;Jean-Marc HEMMEN;Mounir AMOURAK;Olivier MADELAINE-DUPUICH;Pierre GAUJE~

2024/01836 ~ Complete ~54:PROPAGATING LOCKING SCRIPTS ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: COUGHLAN, Steven Patrick;PETTIT, Michaella~ 33:GB ~31:2113977.9 ~32:30/09/2021

2024/01839 ~ Complete ~54:RISK PROBABILITY ASSESSMENT FOR CARGO SHIPMENT OPERATIONS AND METHODS OF USE THEREOF ~71:REDKIK OY, Länsikatu 15, Joensuu, 80110, Finland ~72: CHRIS KALINSKI~ 33:US ~31:63/185,593 ~32:07/05/2021

2024/01823 ~ Provisional ~54:DUTY CYCLE CONTROLLER AND CIRCUIT FOR SWITCHING DIRECT CURRENT FOR USE WITH ALTERNATING CURRENT SWITCHES ~71:Neill Human, 15 Lobelia Street, South Africa ~72: Neill Human~

2024/01827 ~ Complete ~54:SYSTEM FOR ESTIMATING FOREST CARBON STORAGE ON BASIS OF OPTIMAL FEATURE VALUE ~71:Research Institute of Forest Resource Information Techniques, Chinese Academy of Forestry, No.1, Dongxiaofu, Qinglongqiao Street, Xiangshan Road, Haidian District, Beijing, 100091, People's Republic of China ~72: HE, Chenrui;LI, Xiaoyao;PANG, Lifeng;TAN, Bingxiang~

2024/01834 ~ Complete ~54:WORD MEMORY BOARD FOR ENGLISH TEACHING WITH SHIELDING STRUCTURE ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: LI, Yinjuan~

2024/01841 ~ Complete ~54:PYRIDO RING COMPOUND, PREPARATION METHOD THEREFOR, INTERMEDIATE, COMPOSITION, AND APPLICATION ~71:YIYOU BIOTECH (SHANGHAI) CO., LTD., Building 10, 860 Xinyang Highway, Lin-gang Special Area of China (Shanghai) Pilot Free Trade Zone Fengxian District, Shanghai, 201413, People's Republic of China ~72: JINLEI BIAN;JUBO WANG;PEI SHEN;PENGFEI XU;TIAN JING;XI XU;ZHIXIA QIU;ZHIYU LI~

2024/01828 ~ Complete ~54:LARGE INDUCTION ELECTRIC FURNACE ~71:Zhuzhou Torch Industrial Furnace Co., Ltd., No. 2, North Renmin Road, Shifeng District, Zhuzhou City, Hunan Province, 412000, People's Republic of China ~72: DENG Feifei;;LI Yong;LIU Enqing;SUN Yangchun;TANG Wenyuan~ 33:CN ~31:2023117463936 ~32:19/12/2023

2024/02102 ~ Provisional ~54:WILSON NOVEL 4X4 SYSTEM ~71:Vernon Campion Wilson, 10 Bridge street, South Africa ~72: Vernon Campion Wilson~

2024/01822 ~ Provisional ~54:END-TO-END CLAIM QUANTIFICATION AND FINALISATION ~71:GROUP MANAGEMENT TECHNOLOGY LIMITED, 148 Mitcham Road, United Kingdom ~72: EDWARDS, Wynne Lewis~

2024/01835 ~ Complete ~54:DETERMINING VIRTUAL AUDIO SOURCE POSITIONS ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: KOPPENS, Jeroen Gerardus Henricus~ 33:EP ~31:21189872.1 ~32:05/08/2021

2024/01838 ~ Complete ~54:METHOD OF PRODUCING PROTEIN ISOLATE FROM SUNFLOWER MEAL ~71:TARSHYN&CO LIMITED, 6th Floor 60 Gracechurch Street, EC3V OHR, United Kingdom ~72: TARSHYN, Stanislav Ivanovych;VORONTSOV, Oleksii Ivanovych~ 33:UA ~31:a 2021 04736 ~32:19/08/2021

2024/01842 ~ Complete ~54:REMOVAL OF VIRUSES FROM WATER BY FILTRATION ~71:INSTRACTION GMBH, Carl-Friedrich-Gauß-Ring 5, Germany ~72: LUNGFIEL, Kristian;MEYER, Christian;WELTER, Martin~ 33:ZA ~31:102021120424.0 ~32:05/08/2021

2024/02101 ~ Provisional ~54:WILSON CYCLE FOUR STROKE INTERNAL COMBUSTION ENGINE ~71:Vernon Campion Wilson, 10 Bridge street, South Africa ~72: Vernon Campion Wilson~

2024/01825 ~ Complete ~54:A LAMP PRIMER SET FOR SALMONELLA AND A METHOD FOR DETECTING SALMONELLA IN FRESH MILK ~71:Shihezi University, No.221, Shibei Fourth Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: Baixue He;Chao Shi;Hui Zhang;Jia Guo;Jing

Zhao;Liangbo Liu;Mingqing Wei;Tingting Lyu;Wei Zhang;Xia Zhou;Xingmei Deng;Ying Ding;Zhen Wang;Zhihua Sun~ 33:CN ~31:202410117116.7 ~32:26/01/2024

2024/01821 ~ Provisional ~54:GATE BOGIE ~71:Armando Giuseppe SPAGNOLO;, 12 Lorong Derumun, Bukit Damansara, Malaysia;Ezio Domenico SPAGNOLO, 422 Louis Botha Avenue, Highlands North, South Africa ~72: Armando Giuseppe SPAGNOLO;Ezio Domenico SPAGNOLO~

2024/01824 ~ Provisional ~54:CABLE AND PIPE PROTECTIVE WRAP ~71:DIRK STEENKAMP, 72 Service Road, Rietfontein, South Africa ~72: DIRK STEENKAMP~

2024/01907 ~ Provisional ~54:BRA CENTERPIECE ~71:Magdalena Henrietta Elizabetha Pieters, 145 Loskop Street, South Africa ~72: Magdalena Henrietta Elizabetha Pieters~ 33:ZA ~31:A41C ~32:03/03/2024

2024/01829 ~ Complete ~54:INTELLIGENT TEMPERATURE CONTROL ADHESIVE SOLIDIFYING SYSTEM FOR FRONT WINDSHIELD GLASS OF RAILWAY LOCOMOTIVE AND OPERATING METHOD THEREFOR ~71:CHINA RAILWAY NO. 3 ENGINEERING GROUP CO., LTD., 269, Yingze Street, Yingze District, Taiyuan, People's Republic of China;CHINA RAILWAY NO. 3 ENGINEERING GROUP CO., LTD. THE TRANSPORTATION ENGINEERING BRANCH COMPANY, 269, Yingze Street, Yingze District, Taiyuan, People's Republic of China ~72: CUI, Longlong;DONG, Hao;FENG, Ye;GAO, Yunfei;GUAN, Long;MAO, Mingjian;SHEN, Yanlong;WANG, Fuliang;WANG, Hongqiang;WANG, Pengpeng;WANG, Xiaosong;WANG, Yuan;XUE, Fu;ZHANG, Gang;ZHANG, Jinzhong;ZHANG, Peiqi;ZHAO, Zhilei;ZHU, Xiaodong;ZONG, Hanqing~

2024/01833 ~ Complete ~54:PROCESS FOR MANUFACTURING A STEEL STRIP FOR ELECTRICAL APPLICATIONS AND ASSOCIATED APPARATUS ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Charles HANQUET;Jacques HERNANDEZ;Vincent RUWET;Yves CHARBONNEL~ 33:IB ~31:PCT/IB2021/059204 ~32:07/10/2021

2024/01840 ~ Complete ~54:PERSONALIZED MODULATION THERAPY FOR CANCER ~71:FAETH THERAPEUTICS, INC., 701 Tillery Street, #12 #1010, Austin, Texas, 78702, United States of America ~72: OLIVER D.K MADDOCKS;PETROS TYRAKIS;TODD YOUNG~ 33:US ~31:63/234,507 ~32:18/08/2021;33:US ~31:63/234,517 ~32:18/08/2021;33:US ~31:63/280,792 ~32:18/11/2021

2024/01844 ~ Complete ~54:GLOVE, RIGID GUARD STRUCTURE FOR A GLOVE AND A METHOD OF MANUFACTURING A GLOVE ~71:GLOVE IP (PTY) LTD, 4 East Park, Central Park on Park Lane, South Africa ~72: QUINLAN, Stephen John~ 33:ZA ~31:2021/05661 ~32:05/08/2021

#### - APPLIED ON 2024/03/05 -

2024/01881 ~ Complete ~54:MOVABLE REFRIGERATION HOUSE PROTECTION DEVICE ~71:Suzhou Santuo Cold Chain Technology Co., Ltd, Room 808, Building11, University Science Park, No.20 Jianxiong Road, Taicang, Suzhou, People's Republic of China ~72: Du; Haibing;Du; Ruiqiu~

2024/01860 ~ Complete ~54:PREPARATION METHOD OF ORGANIC FERTILIZER FOR IMPROVING SOIL NUTRIENTS AND ENRICHING SOIL MICROORGANISMS ~71:SHANDONG INSTITUTE OF POMOLOGY, NO. 66, LONGTAN ROAD, People's Republic of China ~72: CHANG, Yuansheng;HE, Ping;HE, Xiaowen;LI, Linguang;WANG, Haibo;WANG, Sen;ZHENG, Wenyan~

2024/01879 ~ Provisional ~54:POTJIE FOUNDATION SPICE INFUSER/STRAINER ~71:LEONARD PETERSEN FAMILY TRUST I/T132/2004, No45-30th Ave Elsies-River, South Africa;VAN ALTENA FAMILY TRUST I/T3027/2005, No24 Romney street Delehaye Bellvile, South Africa ~72: ANTHONE GERHARDES VAN ALTENA;LEONARD PETERSEN~ 2024/01857 ~ Complete ~54:HEALTH MANAGEMENT SYSTEM BASED ON QUANTUM COMMUNICATION ~71:GUIZHOU YOUPIN SLEEP HEALTH INDUSTRY CO., LTD, 4/F, No. 17, Smart Industrial Park, Bijiang District, Tongren City, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG, Shengxiang~

2024/01858 ~ Complete ~54:HEALTH DATA MANAGEMENT SYSTEM BASED ON ARTIFICIAL INTELLIGENCE CHIP ~71:GUIZHOU YOUPIN SLEEP HEALTH INDUSTRY CO., LTD, 4/F, No. 17, Smart Industrial Park, Bijiang District, Tongren City, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG, Shengxiang~

2024/01861 ~ Complete ~54:SEED BOOT ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HODEL, Jeremy;WILDERMUTH, Paul~ 33:US ~31:63/262,415 ~32:12/10/2021

2024/01864 ~ Complete ~54:CONTACTLESS RING-SHAPED SMART CARD ~71:VEGA PAY INFORMATION TECHNOLOGY NETWORK SERVICES LLC, Owned by Fawzia Abdul Razzaq Muhammad Salih Al Kadhim - Al Sufouh 2nd B, Office No. 2, Dubai, AE, United Arab Emirates ~72: GAZIN, Aleksei Vladimirovich;TIMOFEEVA, Elena Aleksandrovna~ 33:RU ~31:2021117422 ~32:16/06/2021

2024/01865 ~ Complete ~54:AUTOMATIC MATERIAL PREPARATION SYSTEM ~71:Anhui Ruilin Precision Technology Co.,Ltd, No.008 Hewan Road Yuexi Economic Development Zone, Anqing, Anhui, 246600, People's Republic of China ~72: CHU Yafei;JIANG Aimin~ 33:CN ~31:2022109890732 ~32:17/08/2022

2024/01867 ~ Complete ~54:ANTI-HLA-G ANTIBODIES ~71:UCB BIOPHARMA SRL, Allée de la Recherche, 60, B-1070, Brussels, Belgium ~72: ANN LOUISE WHITE;CARL BRENDAN DOYLE;CAROLINE BERTEAU;CLARE THOMPSON;DAVID PAUL HUMPHREYS;GAELLE LE FRIEC;KERRY LOUISE TYSON;NEESHA DEDI;RUTH MCELHONE;THOMAS COLLEY;VICTORIA O'DOWD~ 33:GB ~31:2111905.2 ~32:19/08/2021

2024/01870 ~ Complete ~54:A MEDIA HANDLING SYSTEM AND RELATED METHOD ~71:GLOBAL MET TECH PTY LTD, 4 Blackburn Drive, Port Kennedy, Western Australia, 6172, Australia ~72: BEN AMOS-REED;GLYN JONES;GRAEME DEAN;SIMON BAILEY~ 33:AU ~31:2021902816 ~32:30/08/2021

2024/01877 ~ Complete ~54:ENDOSTATIN PEPTIDES FOR THE TREATMENT OF TUMORS, FIBROSIS AND ACUTE LUNG INJURY ~71:MUSC Foundation for Research Development, 135 Cannon Street, Suite 101L, CHARLESTON 29425, SC, USA, United States of America ~72: FEGHALI-BOSTWICK, Carol~ 33:US ~31:63/241,274 ~32:07/09/2021

2024/01851 ~ Complete ~54:A WATER-SOLUBLE HELIUM RESOURCE SAMPLING DEVICE AND SAMPLING METHOD ~71:The Fourth Geological Exploration Institute of Qinghai Province(Key Laboratory of Shale Gas Resources of Qinghai Province), No.24, Shengli Road, Chengxi District, Xining City, Qinghai Province, People's Republic of China ~72: Cai Tingjun;Chao Haide;Chen Jianzhou;Gong Zhiyuan;Li Jiqing;Li Qing;Song Weigang;Wang Fan;Wang Qiwei;Xie Jing;Xu Yongfeng~ 33:CN ~31:2024101823071 ~32:19/02/2024

2024/01863 ~ Complete ~54:COMMON SPATIAL FILTER INDICATION FOR CORESETS IN MULTI-TRANSMISSION RECEPTION POINT SYSTEMS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: GAO, Shiwei;MURUGANATHAN, Siva;NILSSON, Andreas~ 33:US ~31:63/238,282 ~32:30/08/2021

2024/01869 ~ Complete ~54:STATION FOR THE CONVEYANCE AND MEASUREMENT OF HORTICULTURAL PRODUCTS ~71:UNITEC S.P.A., Via Provinciale Cotignola, 20/9, 48022, Lugo, Italy ~72: LUCA BENEDETTI~ 33:IT ~31:102021000021629 ~32:10/08/2021

2024/01906 ~ Provisional ~54:FREE FALL RAILWAY WITH CARRIAGE ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISON, South Africa ~72: HILTON BRIAN THOMAS~

2024/01874 ~ Complete ~54:SUBSTRATE, LIQUID ACCOMMODATION CONTAINER, PRINTING SYSTEM, AND USE OF SUBSTRATE OR LIQUID ACCOMMODATION CONTAINER ~71:Seiko Epson Corporation, 1-6, Shinjuku 4-chome, SHINJUKU-KU 1608801, TOKYO, JAPAN, Japan ~72: KOSUGI, Yasuhiko;NAKANO, Shuichi;SATO, Jun~ 33:JP ~31:2021-214129 ~32:28/12/2021;33:JP ~31:2021-214139 ~32:28/12/2021

2024/01853 ~ Complete ~54:AN IMAGE RECOGNITION AND DETECTION SYSTEM ~71:Shaanxi Institute of International Trade & Commerce, No. 35, TongYi West Road, Fengxi New Town, Xixian New District, Xi'an City, Shaanxi Province, 712046, People's Republic of China ~72: BAI, Junhua;LIU, Yanrong;MA, Wenping;SHANG, Ying;WANG, Lijun;WANG, Xijuan~

2024/01855 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF MICROALGAE-CONTAINING BIOFERTILIZER ~71:GANSU KAIYUAN BIOTECHNOLOGY DEVELOPMENT CENTER CO., LTD, Inside Hexi University, No. 846 Beihuan Road, Ganzhou District, Zhangye City, People's Republic of China;GOLDEN SUNFLOWER SEED INDUSTRY CO., LTD, No. 5 Nanhuan Road, Ganzhou District, Zhangye City, People's Republic of China;HEXI UNIVERSITY, No. 87 Beihuan Road, Ganzhou District, Zhangye City, People's Republic of China ~72: CHEN, Ye;LIU, Haiyan;LUO, Guanghong;WANG, Danxia;YANG, Shenghui;ZHAN, Wen~

2024/01862 ~ Complete ~54:WEDGE ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HODEL, Jeremy;WILDERMUTH, Paul~ 33:US ~31:63/262,417 ~32:12/10/2021

2024/01866 ~ Complete ~54:PARG INHIBITORY COMPOUNDS ~71:FORX THERAPEUTICS AG, Lichtstrasse 35, 4056 Basel, Switzerland ~72: ALENA FREUDENMANN;ANDREAS GOUTOPOULOS;JIN TIAN;LUCA IACOVINO;OLIVIER QUEROLLE;SOTIRIOS SOTIRIOU;ULRICH LUECKING~ 33:US ~31:63/251,916 ~32:04/10/2021;33:EP ~31:21204879.7 ~32:26/10/2021;33:EP ~31:21217026.0 ~32:22/12/2021;33:US ~31:63/321,955 ~32:21/03/2022;33:US ~31:63/390,855 ~32:20/07/2022

2024/01868 ~ Complete ~54:COMPOUNDS TARGETING MUTANT OF P53 ~71:JACOBIO PHARMACEUTICALS CO., LTD., Building 8, No.105 Jinghai 3rd Road, Business Development Area, Tongzhou District, Beijing, 100176, People's Republic of China ~72: AMIN LI;CHAOJIE DANG;QIAN ZHENG;SUJING LI;WEI LONG;XINRUI FAN;YANPING WANG~ 33:CN ~31:PCT/CN2021/111797 ~32:10/08/2021;33:CN ~31:PCT/CN2021/125725 ~32:22/10/2021;33:CN ~31:PCT/CN2021/132409 ~32:23/11/2021;33:CN ~31:PCT/CN2022/073977 ~32:26/01/2022;33:CN ~31:PCT/CN2022/097840 ~32:09/06/2022

2024/01876 ~ Complete ~54:FORMULATIONS OF RADIPRODIL ~71:GRIN Therapeutics, Inc., 101 Main St. Ste 1210, CAMBRIDGE 02142, MA, USA, United States of America ~72: GENIN, Marie;MUGLIA, Pierandrea~ 33:US ~31:63/230,331 ~32:06/08/2021

2024/01847 ~ Provisional ~54:A DIRECTIONAL INDICATOR DEVICE ~71:SMITH, Frederick Willem Coenraad, Plaas Rietvallei, DELMAS 2210, Mpumalanga, SOUTH AFRICA, South Africa ~72: SMITH, Frederick Willem Coenraad~

2024/01849 ~ Provisional ~54:A GASIFIER STOVE ~71:HADLOW, William Albert, 15 Kronendal Street, Dalsig, South Africa ~72: HADLOW, William Albert~

2024/01908 ~ Provisional ~54:ISB APP ~71:Amogelang, Stand nob64, South Africa ~72: Amogelang~ 33:ZA ~31:02 ~32:04/03/2024

2024/01846 ~ Provisional ~54:SG SOLAR PHONE AND DEVICES ~71:MR THABO MAY, 4585 Santho, South Africa ~72: MR THABO MAY~ 33:ZA ~31:1 ~32:27/02/2024

2024/01905 ~ Provisional ~54:STEAM ENGINES AND ELEPHANTS TO PULL CARRIAGES ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISON, South Africa ~72: HILTON BRIAN THOMAS~

2024/01850 ~ Provisional ~54:A MATTRESS ~71:COX, Joshua Martin, 2 Spinnaker Avenue, Lakeside, South Africa ~72: COX, Joshua Martin~

2024/01873 ~ Complete ~54:LORA COMMUNICATION-BASED DISTRIBUTED VARIABLE DAMPING COMPOSITE VIBRATION REDUCTION SYSTEM AND VIBRATION REDUCTION METHOD ~71:China Construction Industrial & Energy Engineering Group Co.,Ltd., No. 6, Wenlan Road, Qixia District, Nanjing, Jiangsu, 210046, People's Republic of China ~72: Changsha LIU;Chaoming ZHANG;Jie LIU;Junsheng QIN;Qing HUANG;Qingjiang XU;Rongrong BAI;Xiangchao WANG;Xiaocheng FEI;Xuanyi CHEN;Yunhua ZHANG;Zhihong SONG~ 33:CN ~31:202210776520.6 ~32:04/07/2022

2024/01852 ~ Complete ~54:PROCESSING METHOD OF YELLOW TEA ~71:Tea Research Institute of Chinese Academy of Agricultural Sciences, No. 9 Meiling South Road, Hangzhou, Zhejiang Province, People's Republic of China ~72: Gensheng CHEN;Heyuan JIANG;Junfeng YIN;Weiwei WANG~ 33:CN ~31:2024101099588 ~32:26/01/2024

2024/01871 ~ Complete ~54:METHODS FOR DETECTION OF MEMBRANE BOUND GLYPICAN-3 ~71:ADICET THERAPEUTICS, INC., 1000 Bridge Pkwy, Redwood City, California, 94065, United States of America ~72: ARUN BHAT;ELIZABETH MAOURA PEREZ;ERIKA L MEADDOUGH;HUI SHAO;JACQUELINE KENNEDY WILDE;JONATHAN TA SHIN WONG;KEVIN NISHIMOTO;MATTHEW IAN HOOPES;MUSTAFA TURKOZ;ORI MALLER;SANDRA M HAYES~ 33:US ~31:63/235,093 ~32:19/08/2021

2024/01872 ~ Complete ~54:UTILIZATION OF MICRO-RNA FOR DOWNREGULATION OF CYTOTOXIC TRANSGENE EXPRESSION BY MODIFIED VACCINIA VIRUS ANKARA (MVA) ~71:BAVARIAN NORDIC A/S, Philip Heymans Alle 3, 2900, Hellerup, Denmark ~72: JÜRGEN HAUSMANN;MARC SCHWENEKER;MARKUS KALLA;MATTHIAS HABJAN~ 33:EP ~31:21194940.9 ~32:03/09/2021

2024/01848 ~ Provisional ~54:FALL ARREST SOLUTION ~71:SASOL SOUTH AFRICA LIMITED, 50 KATHERINE STREET SANDTON, South Africa ~72: LOMBARD, Jacques;REDELINGHUYS, Anton~

2024/01856 ~ Complete ~54:INTEGRATED RAMAN SPECTROMETER CHIP BASED ON OPTICAL WAVEGUIDE ~71:ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY, 318 Liuhe Road, Xihu District, Hangzhou City, People's Republic of China ~72: MA, Xiao~

2024/01909 ~ Provisional ~54:RAPID FOUNDATION ~71:EBEN BOTHMA, Plot 456, Maggiesdal, R40, Barberton Road, South Africa ~72: EBEN BOTHMA~

2024/01854 ~ Complete ~54:NON-RETURN VALVE ~71:COMEC INDUSTRIES (PTY) LTD, 43 10th Street, Voorspoed, South Africa ~72: MORETTI, Gian Mauro~ 33:ZA ~31:2023/05184 ~32:11/05/2023

2024/01859 ~ Complete ~54:STORAGE STERILIZER FOR NURSING INSTRUMENTS ~71:Qingdao Central Hospital, University of Health and Rehabilitation Sciences (Qingdao Central Hospital), No. 127, Siliu South Road, Shibei District, Qingdao, Shandong Province, 266044, People's Republic of China ~72: Wang Xin;Xu Jie~

2024/01875 ~ Complete ~54:DEVICE, SUBSTRATE, LIQUID ACCOMMODATION CONTAINER, PRINTING SYSTEM, AND USAGE OF SUBSTRATE OR LIQUID ACCOMMODATION CONTAINER ~71:Seiko Epson

Corporation, 1-6, Shinjuku 4-chome, SHINJUKU-KU 1608801, TOKYO, JAPAN, Japan ~72: KOSUGI, Yasuhiko;NAKANO, Shuichi;SATO , Jun~ 33:JP ~31:2021-214129 ~32:28/12/2021;33:JP ~31:2021-214139 ~32:28/12/2021

2024/01878 ~ Complete ~54:HIGH-STRENGTH ROAD FOR WATER RESOURCE REGULATION SYSTEM IN RESPONSE TO CLIMATE CHANGE ~71:CHEN, Jui-Wen, No. 23, Lane 123, Junying Street, Shulin District, Taiwan (R.O.C) ~72: CHEN, Jui-Wen~ 33:CN ~31:202111058587.8 ~32:10/09/2021

- APPLIED ON 2024/03/06 -

2024/01894 ~ Complete ~54:DRIVE MEMBER ASSEMBLY FOR A VIBRATORY SCREEN ~71:MIS.CARBONART PTY LTD (A SUBSIDIARY OF MINERAL RESOURCES LIMITED), 20 Walters Drive, Osborne Park, Australia ~72: WECKEND, Carsten~ 33:AU ~31:2021902578 ~32:18/08/2021

2024/01904 ~ Complete ~54:INCREASING GROWTH OF A CO2 FIXING THERMOPHILE BACTERIUM ~71:Danmarks Tekniske Universitet, Anker Engelunds Vej 101, KONGENS LYNGBY 2800, DENMARK, Denmark ~72: AXELSEN, Amalie Melton;BRØNDUM, Sebastian Sven;JENSEN, Torbjørn Ølshøj;NIELSEN, Alex Toftgaard;REDL, Stephanie~ 33:EP ~31:21195239.5 ~32:07/09/2021

2024/01885 ~ Complete ~54:STRESS-INDUCIBLE PROMOTER OF COTTON, PREPARATION METHOD AND USES THEREOF ~71:Huazhong Agricultural University, College of Animal Science & Technology of Huazhong Agricultural University, No.1, Shizishan Street, Hongshan District, Wuhan, 430070, People's Republic of China ~72: Bing ZHANG;Linjie XIA;Longfu ZHU;Xianlong ZHAN;Xiyan YANG~ 33:CN ~31:2023107660340 ~32:27/06/2023

2024/01895 ~ Complete ~54:PROTECTIVE PLATE FOR A VIBRATORY SCREEN ~71:MIS.CARBONART PTY LTD (A SUBSIDIARY OF MINERAL RESOURCES LIMITED), 20 Walters Drive, Osborne Park, Australia ~72: BARNES, Philip~ 33:AU ~31:2021902577 ~32:18/08/2021

2024/01898 ~ Complete ~54:MACROENCAPSULATION DEVICES ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: CHRISTOPHER THANOS;JOHN MILLS;MATTHEW WATSON;NOAH NGUYEN;RAHUL R RAJENDRAN~ 33:US ~31:63/233,667 ~32:16/08/2021

2024/01899 ~ Complete ~54:HOOKAH DEVICE AND IMPROVED CONSUMABLE POD ~71:ADALSIA LIMITED, Arch. Makariou III, 195 Neocleous House 3030, Limassol, Cyprus ~72: JOHN MARK VERNON VERNON;JOHN MICHAEL ELAM;LANCE GORDON HUSSEY;RAVI KUMAR SAWHNEY~ 33:US ~31:63/242,735 ~32:10/09/2021;33:US ~31:63/242,757 ~32:10/09/2021;33:US ~31:63/242,764 ~32:10/09/2021;33:US ~31:63/242,775 ~32:10/09/2021;33:US ~31:63/242,787 ~32:10/09/2021

2024/01897 ~ Complete ~54:SOS1 INHIBITOR AND USE THEREOF ~71:CYRUS THERAPEUTICS INC., 5th floor, 4 Jeongui-ro 8-gil, Songpa-gu, Seoul, 05836, Republic of Korea;KANAPH THERAPEUTICS INC., 5th floor, 3, Itaewon-ro 55ga-gil, Yongsan-gu, Seoul, 04348, Republic of Korea ~72: DOHYUN PARK;DONG HYUK KI;DONGGEON KIM;EUN-JUNG KIM;HA NA YU;JI EUN KIM;JIHYUN YU;JOONWOO NAM;KYEONG JIN YOON;SANG KYUN LIM;WOOSEOK HAN;YOUNG SOOK SHIN (DECEASED)~ 33:KR ~31:10-2021-0108316 ~32:17/08/2021

2024/01883 ~ Complete ~54:SIMULATED PLUSH ANIMAL TOY AND PREPARATION METHOD THEREOF ~71:Beijing Fuhua Hongyuan Technology Co., Ltd, No. 20, Yanhe Section, Yanhe Village, Liqiao Town, Shunyi Dist., Beijing, People's Republic of China ~72: Huaibiao Zhai;Huaizun Zhai~ 33:CN ~31:2024101140239 ~32:27/01/2024

2024/01880 ~ Provisional ~54:ANTI-PHISHING PIN RECOGNITION ~71:DE SWART, Alexandra, Kees Broekmanstraat 118, Netherlands ~72: DE SWART, Alexandra~

2024/01901 ~ Complete ~54:MOBILE ELECTRONIC LOCK ~71:ABUS AUGUST BREMICKER SÖHNE KG, Altenhofer Weg 25 Wetter-Volmarstein, 58300, Germany ~72: CHRISTIAN JOHANNES JERGER;MARTIN BURK~ 33:DE ~31:10 2021 122 250.8 ~32:27/08/2021

2024/01884 ~ Complete ~54:SOIL BALL QUICK WRAPPING ELASTIC NET DEVICE FOR TREE TRANSPLANTING ~71:Zhejiang Institute of Subtropical Crops, 334 Xueshan Road, Ouhai District, Wenzhou, Zhejiang Province, 325005, People's Republic of China ~72: CHEN Qiuxia;JIAO Yulian;LI Xiaowen;LIU Yu;WANG Jinwang~

2024/01891 ~ Complete ~54:SYRINGE WITH MULTIFUNCTIONAL PLUNGER HANDLE ~71:SHAW, Thomas J., 5310 BUENA VISTA DR., FRISCO, TX 75034, USA, United States of America ~72: SHAW, Thomas J.~ 33:US ~31:17/403,385 ~32:16/08/2021

2024/01892 ~ Complete ~54:STRAIN FOR PRODUCING HIGH CONCENTRATION L-GLUTAMIC ACID AND METHOD FOR PRODUCING L-GLUTAMIC ACID USING THE SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: BONG, Hyun-Ju;HEO, Jung Ok;KWON, Nara;LEE, Ah Reum~ 33:KR ~31:10-2021-0125842 ~32:23/09/2021

2024/01882 ~ Complete ~54:METHOD AND SYSTEM FOR IDENTIFYING AND REGISTERING MARK POINTS OF SURGICAL NAVIGATION ROBOT AND DEVICE ~71:The Fourth Medical Center of Chinese People's Liberation Army General Hospital, 51 Fucheng Road, Haidian District, Beijing, 100048, People's Republic of China ~72: FAN, Rui;JIANG, Yu;LIU, Pengyun;WANG, Qianxin;WU, Taoguang;ZHANG, Dong;ZHANG, Gongzi;ZHANG, Lihai;ZHANG, Shuwei~ 33:CN ~31:2023118109262 ~32:26/12/2023

2024/01886 ~ Complete ~54:SELF-CLEANING PHOTOVOLTAIC MODULE BASED ON PHOTOCATALYTIC COATING ~71:Henan University of Urban Construction, Longxiang Avenue Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: BAI Minghua;DANG Liyun;GENG Zihan;LI Shanying;LI Xinyu;LIU Silin;LIU Xiangyun;SU Qing;WEI Yifan;XU Kaidong;YANG Yilong~

2024/01888 ~ Complete ~54:MICROBIAL-BASED PROCESS FOR IMPROVED QUALITY PROTEIN CONCENTRATE ~71:PRAIRIE AQUATECH LLC, 705 32nd Avenue, Brookings, South Dakota, 57006, United States of America ~72: DENNIS HARSTAD;SERGIO F NATES~ 33:US ~31:63/035,797 ~32:07/06/2020;33:US ~31:63/036,274 ~32:08/06/2020;33:US ~31:63/039,694 ~32:16/06/2020;33:US ~31:63/052,745 ~32:16/07/2020;33:US ~31:17/093,557 ~32:09/11/2020

2024/01890 ~ Complete ~54:METHOD FOR PROCESSING PYROLYSIS OILS FROM PLASTICS AND/OR SOLID RECOVERED FUELS, LOADED WITH IMPURITIES ~71:IFP ENERGIES NOUVELLES, 1 et 4 avenue de Bois-Préau, France ~72: DE SOUSA DUARTE, Marisa;NGUYEN-HONG, Duc;WEISS, Wilfried~ 33:FR ~31:FR2111068 ~32:19/10/2021

2024/01893 ~ Complete ~54:ELECTRIC ENERGY TRANSMISSION SYSTEM FOR VEHICLE, AND CHARGING APPARATUS AND ELECTRIC VEHICLE ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District, People's Republic of China ~72: WANG, Chao~ 33:CN ~31:202111028873.X ~32:02/09/2021

2024/01900 ~ Complete ~54:MRNA VACCINES COMPRISING IL-4 AND/OR IL-13 RNA AND USES THEREOF ~71:NEOVACS, 3-5 impasse Reille, 75014, Paris, France ~72: BEATRICE DROUET;BERNARD

FANGET;FLORIAN GAUTHIER;OLIVIER DHELLIN;VINCENT SERRA~ 33:EP ~31:21306131.0 ~32:20/08/2021;33:US ~31:63/235,351 ~32:20/08/2021

2024/01903 ~ Complete ~54:SLUDGE TREATMENT APPARATUS AND EXCRETA TREATMENT APPARATUS INCLUDING SAME ~71:Samsung Electronics Co., Ltd., 129, Samsung-ro, Yeongtong-gu, SUWON-SI 16677, GYEONGGI-DO, REPUBLIC OF KOREA, Republic of Korea ~72: KIM, Ginam;KIM, Yongkwon;SHIN, Hyunsuk~ 33:KR ~31:10-2021-0152572 ~32:08/11/2021

2024/01896 ~ Complete ~54:IMPROVEMENTS IN VIBRATORY SCREENS ~71:MIS.CARBONART PTY LTD (A SUBSIDIARY OF MINERAL RESOURCES LIMITED), 20 Walters Drive, Osborne Park, Australia ~72: BARNES, Philip;DE HAAS, David;VINCAN, Alex;WECKEND, Carsten~ 33:AU ~31:2021902579 ~32:18/08/2021;33:AU ~31:2021902580 ~32:18/08/2021

2024/01887 ~ Complete ~54:POD ASSEMBLY, DISPENSING BODY, AND E-VAPOR APPARATUS INCLUDING THE SAME ~71:ALTRIA CLIENT SERVICES LLC, 6601 West Broad Street, Richmond, Virginia, 23230, United States of America ~72: CRISTIAN POPA;ERIC HAWES;JAMES YORKSHADES;RAYMOND LAU;RYAN NEWCOMB;TERRY BACHE~ 33:US ~31:15/601,365 ~32:22/05/2017

2024/01889 ~ Complete ~54:CHARGING SOCKET, CHARGING SOCKET UPGRADING METHOD AND APPARATUS, DEVICE, AND STORAGE MEDIUM ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District, People's Republic of China ~72: WANG, Chao~ 33:CN ~31:202110985980.5 ~32:26/08/2021

2024/01902 ~ Complete ~54:METHODS FOR THE TREATMENT OF MIGRAINE AND RELATED HEADACHE SYMPTOMS USING TRICAPRYLIN ~71:CERECIN INC., 44 Cook Street, Suite 100-71, Denver, Colorado, 80206, United States of America ~72: JUDITH WALKER;SAMUEL T HENDERSON~ 33:US ~31:63/233,552 ~32:16/08/2021;33:US ~31:63/343,893 ~32:19/05/2022;33:US ~31:63/351,684 ~32:13/06/2022

- APPLIED ON 2024/03/07 -

2024/01919 ~ Complete ~54:METHOD AND DEVICE FOR CONSTRUCTING RAPE AUTOMATIC HYBRIDIZATION MICROSYSTEM ~71:Research Institute of Agricultural Science, Leshan City, No.1268, Changqing Road, Shizhong District, Leshan City, Sichuan Province, 614000, People's Republic of China ~72: Hong Lu;Juan Yang;Mingchao Xu;Xingfan Chen;Xudong Zou;Yanhui Wang;Zhi Zhang~

2024/01950 ~ Complete ~54:CHARGING SYSTEM FOR AN INDUSTRIAL ELECTRIC VEHICLE, METHOD OF CHARGING AN INDUSTRIAL ELECTRIC VEHICLE AND USE OF A CHARGING SYSTEM ~71:ABB Schweiz AG, Bruggerstrasse 66, BADEN 5400, SWITZERLAND, Switzerland ~72: ASHNAGARAN, Mehrzad;BEUTLER, Nic~

2024/01933 ~ Complete ~54:ENERGY STORAGE CONVERTER, CONTROL METHOD AND DEVICE THEREFOR, AND READABLE STORAGE MEDIUM ~71:JINGTSING TECHNOLOGY LTD, Room 1003, 10th Floor, Building 1, Yard 5, Beihuang Muchang North Street, People's Republic of China ~72: GUAN, Eryong;JI, Ruiqiu~ 33:CN ~31:202111413225.6 ~32:25/11/2021

2024/01948 ~ Complete ~54:MILVEXIAN FOR PREVENTION AND TREATMENT OF THROMBOEMBOLIC DISORDERS ~71:Bristol-Myers Squibb Company, Route 206 & Province Line Road, PRINCETON 08543, NJ, USA, United States of America;Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: CHINTALA, Madhu;JONES-BURTON, Charlotte;LI, Danshi;LUETTGEN, Joseph M.;NESSEL, Christopher;PERERA, Liyanage Vidya;PETERS, Gary;SEIFFERT, Dietmar Alfred;STRONY, John~ 33:US ~31:63/245,522 ~32:17/09/2021;33:US ~31:63/278,582 ~32:12/11/2021

2024/01930 ~ Complete ~54:A LOW DEVIATION FLAT TRANSPOSITION WIRE FOR ULTRA-HIGH VOLTAGE AUXILIARY REACTOR ~71:ANHUI SUNWAY CABLE CO., LTD., No. 18 Gaoxin Avenue, Gaogou Industrial Park, Wuwei County, Wuhu City, Anhui Province, 238300, People's Republic of China ~72: Jingcheng Yu;Junyi Qian;Xiaojun Huang;Yinlin Xu;Yunsheng Ding~ 33:CN ~31:202311023303.0 ~32:15/08/2023

2024/01943 ~ Complete ~54:BUTADIENE NITRILE LATEX, LATEX COMPOSITION FOR DIP-MOLDING, AND DIP-MOLDED ARTICLE ~71:PUBLIC JOINT STOCK COMPANY "SIBUR HOLDING" (PJSC "SIBUR HOLDING"), Vostochnyj promyshlennyj rayon, kvartal 1, No. 6, stroenie 30 Tobolsk, Tyumenskaya oblast, 626150, Russian Federation ~72: LUDMILA ANDREEVNA KORYSTINA~ 33:RU ~31:2021128245 ~32:27/09/2021

2024/01952 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING BIOFILM DISORDERS AND INFECTION ~71:AHV INTERNATIONAL B.V., Schokkerweg 10, Netherlands ~72: DE BOER, Lex;KHOKHAR, Shaista Sheroze;SCHUTTEVAAR, Anne Myrthe;STREEFLAND, Gerrit Jan;WRONSKA, Anna Kristina~ 33:NL ~31:2029166 ~32:10/09/2021

2024/01925 ~ Complete ~54:BENDING RESISTANCE DETECTION DEVICE FOR PROCESSING ALLOY MATERIAL ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, People's Republic of China ~72: Chaoyong WANG;Wei LI;Wenjie ZHU;Xingtao MA;Yarui WANG~

2024/01941 ~ Complete ~54:FUCAN AND MODIFIED FUCAN COMPOSITIONS FOR THE TREATMENT OF CONDITIONS RELATED TO CAPSULAR CONTRACTURE AND TO INHIBITING FIBROUS GROWTH AROUND OR ON TRANSPLANTS ~71:ARC MEDICAL INC., Unit 8, 3071 No. 5 Road, Richmond, British Columbia, V6X 2T4, Canada ~72: CHRISTOPHER MICHAEL KEVIN SPRINGATE;HESONG SUN;IAN MILLET~ 33:US ~31:63/235,316 ~32:20/08/2021;33:US ~31:63/354,322 ~32:22/06/2022

2024/01947 ~ Complete ~54:SOLID CLEANSING COMPOSITIONS AND METHODS FOR THE SAME ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BHARDWAJ, Vinay;COHEN, Aaron;MORALES, Sara;ROMERO, Jesus Ivan~ 33:US ~31:63/243,848 ~32:14/09/2021

2024/01929 ~ Complete ~54:AZETIDINE AND PYRROLIDINE PARP1 INHIBITORS AND USES THEREOF ~71:XINTHERA, INC., c/o Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, United States of America ~72: DONG, QING;HOFFMAN, ROBERT L.;KALDOR, STEPHEN W.;TRZOSS, LYNNIE;VA, PORINO JINJO~ 33:US ~31:63/251,469 ~32:01/10/2021;33:US ~31:63/339,597 ~32:09/05/2022;33:US ~31:63/402,835 ~32:31/08/2022

2024/01939 ~ Complete ~54:PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ABRAHAM CHACKO;GIRISH KUMAR;KUNAL SHANKAR PAWAR;NADEEM SHAIKH;SATYENDRA PRASAD SINGH;SHARAVAN KUMAR~ 33:EP ~31:21196805.2 ~32:15/09/2021

2024/01913 ~ Complete ~54:TREE RADIAL GROWTH MONITORING RING AND MEASURING METHOD THEREOF ~71:Zhejiang Institute of Subtropical Crops, 334 Xueshan Road, Ouhai District, Wenzhou, Zhejiang Province, 325005, People's Republic of China ~72: CHEN Qiuxia;JIAO Yulian;LI Xiaowen;LIU Yu;WANG Jinwang~

2024/01936 ~ Complete ~54:FLOOD FORECASTING METHOD BASED ON FLOOD SEASON STAGES ~71:ZHEJIANG UNIVERSITY OF WATER RESOURCES AND ELECTRIC POWER, 508 2nd Street, Qiantang District, Hangzhou, Zhejiang, 310018, People's Republic of China ~72: QIAN, Jinglin;QIAN, Yiqing;QIAN, Zhusheng;WU, Yunxin;XUAN, Weidong;YAN, Qibin~ 33:CN ~31:202310333035.6 ~32:30/03/2023

2024/01918 ~ Complete ~54:EXPERIMENTAL DEVICE AND EXPERIMENTAL METHOD FOR HIGH-CONCENTRATION SEDIMENT ROTARY JET ABRASION AND EROSION ~71:Shaanxi Provincial Dongzhuang Water Conservancy Engineering Co.,Ltd., Jianghe Building, 198 Xiqi Road, Xincheng District, Xi'an, Shaanxi, 713200, People's Republic of China;Xi'an University of Technology, NO.5 South Jinhua Road, Beilin District, Xi'an, Shaanxi, 710048, People's Republic of China ~72: CHEN Meng;GUO Pengcheng;LI Meng;SUN Longgang;SUN Shuaihui;WU Di;WU Pengbo;ZHOU Peng~ 33:CN ~31:202310219643.4 ~32:08/03/2023

2024/01911 ~ Provisional ~54:UNDERGROUND OVERHEAD SAFETY SHIELD ~71:TITAN MINING (PTY) LTD, Plot 67, Vlakplaas 20, Tarlton, KRUGERSDORP 1739, Gauteng, SOUTH AFRICA, South Africa ~72: LAWRENCE, Allen Preston;WHYTE, Shane Rodger~

2024/01921 ~ Complete ~54:SOFTWARE SYSTEM WITH ADJUSTABLE PARAMETERS ~71:HENAN ALPHA TECHNOLOGY CO., LTD, 5th Floor, Unit 2, Building 1, Innovation Park, Henan University Science and Technology Park (East Zone), No. 289 West Third Ring Road, Zhengzhou High tech Industrial Development Zone, People's Republic of China ~72: MINGMING DING;PENGPENG LI~ 33:CN ~31:2023102163159 ~32:08/03/2023

2024/01926 ~ Complete ~54:ALLOY STEEL MATERIAL HARDNESS DETECTION DEVICE ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, People's Republic of China ~72: Chaoyong WANG;Wei LI;Wenjie ZHU;Xingtao MA;Xiuqin YANG~

2024/01932 ~ Complete ~54:VALVE ASSEMBLY ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: SCHWIND, Timothy;SLONEKER, Dillon;STUBER, Luke~ 33:US ~31:63/266,694 ~32:12/01/2022

2024/01917 ~ Complete ~54:APPARATUS AND METHOD FOR PREPARING FLEXIBLE INSERT SAMPLE THAT ACCURATELY CONTROL RANDOM CRACK OPENING ~71:Hainan University, No. 58, Renmin Avenue, Meilan District, Haikou City, Hainan Province, People's Republic of China ~72: Chao LI;Jie CUI;Kaijian CAI;Kuilong WANG;Youliang ZHANG~ 33:CN ~31:2023104451911 ~32:24/04/2023

2024/01922 ~ Complete ~54:CORONAVIRUS VACCINE FORMULATIONS ~71:Novavax, Inc., 21 Firstfield Road, GAITHERSBURG 20878 , MD, USA, United States of America ~72: MASSARE, Michael J.;SMITH, Gale;TIAN, Jing-Hui~ 33:US ~31:62/966,271 ~32:27/01/2020;33:US ~31:62/976,858 ~32:14/02/2020;33:US ~31:62/983,180 ~32:28/02/2020;33:US ~31:63/048,945 ~32:07/07/2020;33:US ~31:63/051,706 ~32:14/07/2020;33:US ~31:63/054,182 ~32:20/07/2020;33:US ~31:16/997,001 ~32:19/08/2020;33:US ~31:63/129,392 ~32:22/12/2020

2024/01949 ~ Complete ~54:LIVER-SPECIFIC EXPRESSION CASSETTES, VECTORS AND USES THEREOF FOR EXPRESSING THERAPEUTIC PROTEINS ~71:Generation Bio Co., 301 Binney Street, 4th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: CAO, Jicong;KEENAN, Jessica Lynn;MAJUMDAR, Elizabeth;MONDS, Russell~ 33:US ~31:63/245,013 ~32:16/09/2021

2024/01916 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF SPINDLE-SHAPED IRON OXIDE NANO SINGLE CRYSTALS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: BAI Minghua;DANG Liyun;GENG Zihan;LI Shanying;LI Xinyu;LIU Silin;LIU Xiangyun;SU Qing;WEI Yifan;XU Kaidong;YANG Yilong~

2024/01923 ~ Complete ~54:A SYSTEM FOR EVALUATING A COPLANAR INTERDIGITATED SENSOR CAPACITANCE FOR 1-N-1 MULTILAYERED STRUCTURE ~71:Anwar Ulla Khan, Department of Electrical Engineering Technology, College of Applied Industrial Technology (CAIT), Jazan University, Jazan 45142, Saudi Arabia;Birendra Kumar, Mechanical Engineering Department, Motihari College of Engineering, Motihari, East

Champaran, Bihar-845401, India;Kanhaiya Kumar, Electrical & Electronics Engineering Department, Motihari College of Engineering, Motihari, East Champaran, Bihar-845401, India;Md Tabrez, Electrical & Electronics Engineering Department, Motihari College of Engineering, Motihari, East Champaran, Bihar-845401, India;Mosarrat Jahan, Electrical engineering department, Government Engineering College, Gopalganj, Bihar-841428, India ~72: Anwar Ulla Khan;Birendra Kumar;Kanhaiya Kumar;Md Tabrez;Mosarrat Jahan~

2024/01942 ~ Complete ~54:BUTADIENE NITRILE LATEX, LATEX COMPOSITION FOR DIP-MOLDING, AND DIP-MOLDED ARTICLE ~71:PUBLIC JOINT STOCK COMPANY "SIBUR HOLDING" (PJSC "SIBUR HOLDING"), Vostochnyj promyshlennyj rayon, kvartal 1, No. 6, stroenie 30 Tobolsk, Tyumenskaya oblast, 626150, Russian Federation ~72: LUDMILA ANDREEVNA KORYSTINA;SERGEJ VIKTOROVICH BAGRYASHOV~ 33:RU ~31:2021128244 ~32:27/09/2021

2024/01910 ~ Provisional ~54:REINFORCED POLYMER FASTENER AND RELATED METHOD OF MANUFACTURE ~71:NIEUWENHUYS, Kathleen, ERF 802, 28 Jay Street, RANT-EN-DAL, Krugersdorp 1751, Gauteng, SOUTH AFRICA, South Africa ~72: NIEUWENHUYS, Kathleen~

2024/01914 ~ Complete ~54:NOVEL WATER-SPRAYING SELF-CLEANING PHOTOVOLTAIC MODULE WITH HYDROPHOBIC COATING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: BAI Minghua;DANG Liyun;GENG Zihan;LI Shanying;LI Xinyu;LIU Silin;LIU Xiangyun;SU Qing;WEI Yifan;XU Kaidong;YANG Yilong~

2024/01927 ~ Complete ~54:DEVICE AND METHOD FOR ANALYZING LASER-INDUCED BREAKDOWN SPECTROSCOPY ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, People's Republic of China ~72: LIU, Zhiqing;WANG, Chaoyong;WANG, Kai;WANG, Yarui;ZHU, wenjie~

2024/01931 ~ Complete ~54:SEED METER WITH SEED RETAINING STRUCTURE ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: FRANK, William;SCHWIND, Timothy;STUBER, Luke~ 33:US ~31:63/262,512 ~32:14/10/2021

2024/01940 ~ Complete ~54:HEAVY OLIGOMER COMPOSITIONS OF A SELECTIVE 1-HEXENE AND 1-OCTENE CATALYST ~71:CHEVRON PHILLIPS CHEMICAL COMPANY LP, 10001 Six Pines Drive, The Woodlands, Texas, 77380, United States of America ~72: ORSON L SYDORA~ 33:US ~31:63/241,121 ~32:07/09/2021

2024/01928 ~ Complete ~54:A MESOSCOPIC SCALE DETERMINATION METHOD AND EXPERIMENTAL DEVICE FOR VISUALISING SPONTANEOUS COMBUSTION OF THE LOOSE COAL BODY ~71:XI'AN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.58, Yanta Middle Road, Yanta District, Xi'an City, People's Republic of China ~72: Chen WANG;Chimin SHU;Gai HANG;Jiajia SONG;Jiaming CHANG;Jingyu ZHAO;Jun DENG;Xiaocheng YANG;Yanni ZHANG;Zhaolong CHI~ 33:CN ~31:2023114656000 ~32:07/11/2023

2024/01938 ~ Complete ~54:SOLUTION CIRCULATIONS IN A PROCESS FOR CALCINATION AND LEACHING OF A LITHIUM-CONTAINING MINERAL ~71:METSO FINLAND OY, Rauhalanpuisto 9 02230 Espoo, Finland ~72: MARIKA TIIHONEN;NIKO ISOMÄKI;TUOMAS HIRSI~

2024/01944 ~ Complete ~54:MAXIMIZING SYNGAS CARBON UTILIZATION AND CONVERSION TO BIOFUEL ~71:ENERKEM INC., 1130 Sherbrooke Street West, Montreal, Québec, H3A 2M8, Canada ~72: JEAN-PIERRE CRETE;JÉRÉMIE GAGNON;LOUIS DENOMME;MAXIME BANVILLE;MAXIME FOUCAULT;MICHEL CHORNET;XENIYA SAVELYEVA~ 33:US ~31:63/237,692 ~32:27/08/2021

2024/01924 ~ Complete ~54:METHOD OF DETERMINING A SOUND ABSORPTION COEFFICIENT OF A TARGET MATERIAL AND SYSTEM THEREFOR ~71:Tshwane University of Technology, Arcadia Campus, 175 Mandela Drive, Arcadia, PRETORIA 0083, Gauteng Province, SOUTH AFRICA, South Africa ~72: DESAI, Dawood Ahmed;DUNNE, Regan Kyle~ 33:ZA ~31:2023/03332 ~32:06/03/2023

2024/01934 ~ Complete ~54:BIDIRECTIONAL ENERGY STORAGE CONVERTER AND ENERGY STORAGE SYSTEM ~71:JINGTSING TECHNOLOGY LTD, Room 1003, 10th Floor, Building 1, Yard 5, Beihuang Muchang North Street, People's Republic of China ~72: GUAN, Eryong;JI, Ruiqiu;WANG, Shien~ 33:CN ~31:202111675730.8 ~32:31/12/2021;33:CN ~31:202123421737.5 ~32:31/12/2021

2024/01953 ~ Complete ~54:ENGINEERED CASX REPRESSOR SYSTEMS ~71:SCRIBE THERAPEUTICS INC., 1150 Marina Village Parkway, United States of America ~72: CHARLES, Emeric Jean Marius;DENNY, Sarah;FERNANDES, Jason;HIGGINS, Sean;OAKES, Benjamin;WHITE, Ross~ 33:US ~31:63/246,543 ~32:21/09/2021;33:US ~31:63/321,517 ~32:18/03/2022

2024/01912 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING HYPEROSTOSIS AND RHEUMATIC ARTHRITIS AND APPLICATION ~71:WU, Zongze, ROOM 401, UNIT 3, BUILDING 6, JINGDU GARDEN, ANYANG STREET, People's Republic of China ~72: WU, Zongze~

2024/01945 ~ Complete ~54:CONDITIONING SHAMPOO COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ARASH MOHAJER MOGHADAM;AXEL HERVE EKANI NKODO;BETHANY REBECCA LOUISE HAMER~ 33:EP ~31:21198036.2 ~32:21/09/2021

2024/01946 ~ Complete ~54:BOVINE EPHEMERAL FEVER AND LUMPY SKIN DISEASE ANTIGENIC CONSTRUCTS ~71:UNIVERSITY OF CAPE TOWN, Bremner Building, Lovers Walk, Rondebosch, Cape Town, 7700, South Africa ~72: ANNA-LISE WILLIAMSON;HENRY MUNYANDUKI;NICOLA JENNIFER DOUGLASS;RUZAIQ OMAR~ 33:GB ~31:2112611.5 ~32:03/09/2021

2024/01920 ~ Complete ~54:FLUOROPHENYL BETA-HYDROXYETHYLAMINES AND THEIR USE IN THE TREATMENT OF HYPERGLYCAEMIA ~71:ATROGI AB, Cardellgatan 1 SE-114 36 Stockholm, Sweden ~72: BENJAMIN PELCMAN;TORE BENGTSSON~ 33:GB ~31:1714734.9 ~32:13/09/2017

2024/01935 ~ Complete ~54:A DRONE FOR USE WITHIN A PIPE ~71:HYPERTUNNEL IP LIMITED, VIEWPOINT, BASING VIEW, BASINGSTOKE HAMPSHIRE RG21 4RG, UNITED KINGDOM, United Kingdom ~72: JORDAN, Steve;MEEKS, Alan~ 33:GB ~31:2113785.6 ~32:27/09/2021

2024/01951 ~ Complete ~54:POLYMORPHS AS ERBB INHIBITORS ~71:BLACK DIAMOND THERAPEUTICS, INC., One Main Street, 10th Floor, United States of America ~72: FOROUGHI, Reza;JIANG, Siyi;LI, Meiqi;SHI, Juanjuan;ZHANG, Wu-Yan~ 33:US ~31:63/246,451 ~32:21/09/2021

2024/01915 ~ Complete ~54:DEVICE FOR CONTINUOUSLY AND REMOTELY MONITORING RADIAL GROWTH OF TREES ~71:Zhejiang Institute of Subtropical Crops, 334 Xueshan Road, Ouhai District, Wenzhou, Zhejiang Province, 325005, People's Republic of China ~72: CHEN Qiuxia;JIAO Yulian;LI Xiaowen;LIU Yu;WANG Jinwang~

2024/01937 ~ Complete ~54:PEPTIDES WITH ANTI-ANGIOGENIC ACTIVITY ~71:CHEIRONTECH S.R.L., Via Agostino Depretis, 51, 80133, Napoli, Italy ~72: ARNALDO CARUSO;FRANCESCA CACCURI~ 33:IT ~31:102021000023357 ~32:09/09/2021

- APPLIED ON 2024/03/08 -
2024/01959 ~ Complete ~54:A PREPARATION METHOD OF A MICRO/NANO PARTICLE STRENGTHENING NEAR ALPHA HIGH TEMPERATURE TITANIUM ALLOY RESISTANT TO 700 DEGREES CELSIUS ~71:Hai 'an & Taiyuan University of Technology Advanced Manufacturing and Intelligent Equipment Industrial Research Institute, Room 510, Zhongke Innovation Square Incubation Base, No.16 Shanghu Avenue, Chengdong Town, Hai'an City, Nantong City, Jiangsu Province, 226601, People's Republic of China;Taiyuan University of Technology, No.79 West Street Yingze, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Changjiang ZHANG;Hang LI;Heqing ZHANG;Jianchao HAN;Liangliang LIU;Min CHENG;Ruipeng GUO;Tao WANG;Zhaoping HOU~ 33:CN ~31:2023116525225 ~32:05/12/2023

2024/01976 ~ Complete ~54:CONTROLLER OF CRUSHING SYSTEM, CRUSHING SYSTEM, AND METHOD OF CONTROLLING THE SAME ~71:KABUSHIKI KAISHA EARTHTECHNICA, 2-4, Kandajinbo-cho, Chiyoda-ku, Tokyo, 1010051, Japan ~72: JUN KOBAYASHI;KEITA YAMAMOTO;KENICHI NAKASHIMA;MORIYUKI SAKAMOTO;MOTOAKI ISHIZAWA;NOBUYUKI KAJITA;TAKASHI KIJIMA~ 33:JP ~31:2021-132812 ~32:17/08/2021

2024/01980 ~ Complete ~54:D3-BINDING MOLECULES AND USES THEREOF ~71:WUXI BIOLOGICS IRELAND LIMITED, Mullagharlin, Dundalk, Co Louth, A91 X56F, Ireland ~72: JIJIE GU;XIA WANG;YONGQING CHENG;YUNYING CHEN~ 33:CN ~31:PCT/CN2021/119011 ~32:17/09/2021

2024/01960 ~ Complete ~54:A SLIP JOINT & EXPANSION JOINT ~71:GAP INVENTIONS (PTY) LTD, 26 Sandhoogte street, South Africa ~72: THEUNIS JACOBUS NEL~

2024/01971 ~ Complete ~54:INCOMBUSTIBLE SOLID WALL FOR EXTERNAL WALL OF ULTRAHIGH-RISE BUILDING AND CONSTRUCTION METHOD ~71:China Construction Third Engineering Bureau Group Co., Ltd, No. 552, Guannanyuan Road, Hongshan District, Wuhan, People's Republic of China;South China University of Technology, Wushan Road, Tianhe District, Guangzhou City, Guangdong Province, People's Republic of China;The Third Construction Co., Ltd Of China Construction Third EngineeringG Bureau, No. 2 Guannanyuan Road, Hongshan District, Wuhan City, Hubei Province, People's Republic of China ~72: Congyue QI;Guowei XU;Hongwei ZHOU;Jifeng WANG;Lijun YUAN;Linkai LIAO;Xinjun LIN;Yingdiao LUO;Yiyun ZHANG;Yongfeng QI;Yuming YANG;Zhihui WANG~ 33:CN ~31:2022111728619 ~32:26/09/2022

2024/01973 ~ Complete ~54:SOLID WASTE PROCESSING APPARATUS ~71:CRANFIELD UNIVERSITY, College Road, Cranfield, Bedfordshire, MK43 0AL, United Kingdom ~72: LEON MATTHEW WILLIAMS~ 33:GB ~31:2112131.4 ~32:24/08/2021

2024/01979 ~ Complete ~54:METHOD FOR DETECTING SENSE AND ANTISENSE STRANDS IN AN OLIGONUCLEOTIDE DUPLEX ~71:MESO SCALE TECHNOLOGIES, LLC., 1601 Research Boulevard, Rockville, Maryland, 20850, United States of America ~72: SETH B HARKINS;TIMOTHY J BREAK~ 33:US ~31:63/242,208 ~32:09/09/2021

2024/01988 ~ Complete ~54:DELIVERY DEVICE AND DELIVERY SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BELL, Sally;GALATI, Rosa;KERSEY, Rob;YIN, Chris~ 33:CN ~31:2021110647465 ~32:10/09/2021;33:GB ~31:2113506.6 ~32:22/09/2021

2024/01992 ~ Complete ~54:SOLAR THERMAL COLLECTOR ~71:SOLAR POLAR LIMITED, 289 Dogsthorpe Road, United Kingdom ~72: REID, Michael Graham~ 33:GB ~31:2111529.0 ~32:11/08/2021

2024/01993 ~ Provisional ~54:VERITAS VETTING SOLUTION ~71:TEZ SOLUTIONS (PTY) LTD, 13 ACACIA AVENUE, THE ORCHARDS, South Africa ~72: ELDRIDGE MOTLHAKE ;TITUS KOTSOE~

2024/01994 ~ Provisional ~54:BICAR ~71:LETSEKO ROBERT SELEKA, 10032 Moong Village Ga-Seleka, South Africa ~72: LETSEKO ROBERT SELEKA~

2024/01990 ~ Complete ~54:LINEAR-ROTARY CAPSULE ACTUATOR FOR NUCLEAR SOURCE HOLDER ~71:Vega Americas, Inc., 3877 Mason Research Parkway, MASON 45036, OH, USA, United States of America ~72: FLOWER, Randall L.~ 33:US ~31:63/242,287 ~32:09/09/2021

2024/01956 ~ Complete ~54:DEVICE WITH DISPOSABLE ELEMENT ~71:BRUIN BIOMETRICS, LLC, 10877 Wilshire Blvd.,, Suite 1600, United States of America ~72: BURNS, Martin, F.;CAMPBELL, Bill;GIUNTOLI, David, M.;RAPTIS, Mark;ROSS, Graham, O.~ 33:US ~31:62/744,513 ~32:11/10/2018;33:US ~31:62/804,095 ~32:11/02/2019

2024/01969 ~ Complete ~54:SWITCHGEAR ARCHITECTURE ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4 D04 Y0C2, IRELAND, Ireland ~72: KONA, Kaushik;PAWAR, Vishal;PINGLE, Mangesh;SOLASE, Rushikesh;WAGHMORE, Minal~ 33:IN ~31:202311016936 ~32:14/03/2023;33:GB ~31:2306483.5 ~32:02/05/2023

2024/01984 ~ Complete ~54:IMPROVED EXECUTION OF AN OPERATION IN A SECURE ELEMENT ~71:IDEMIA France, 2 Place Samuel de Champlain, COURBEVOIE 92400, FRANCE, France ~72: DOS SANTOS, Elder;VUJCIC, Dragan~ 33:FR ~31:2109437 ~32:09/09/2021

2024/01958 ~ Complete ~54:DATA MANAGEMENT SYSTEM FOR CHILDREN IN PEDIATRIC NURSING ~71:The First Affiliated Hospital of Bengbu Medical University, No. 287, Changhuai Road, Bengbu, Anhui Province, People's Republic of China ~72: CHEN Shuang;DONG Xiaoyu;LI Baoguang;LIU Peipei;YAO Ke;ZHANG Ying~

2024/01977 ~ Complete ~54:PHARMACEUTICAL PREPARATION, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:COHERENT BIOPHARMA (SUZHOU) LIMITED, C36-2F, No. 218 Xinghu Street, Industrial Park Suzhou, Jiangsu 215123, People's Republic of China ~72: PEIPEI SHANG;SIXIANG FAN;XIANHUI ZHANG~ 33:CN ~31:202111051190.6 ~32:08/09/2021

2024/01985 ~ Complete ~54:METHOD AND DEVICE FOR OBTAINING HIGH-PURITY HYDROGEN FROM METHANOL OR AMMONIA FOR OPERATING FUEL CELLS ~71:BASF SE, Carl-Bosch-Strasse 38, LUDWIGSHAFEN AM RHEIN 67056, GERMANY, Germany ~72: FUESSL, Andreas;HENSCHEL, Carsten;MACHHAMMER, Otto~ 33:EP ~31:21191316.5 ~32:13/08/2021

2024/01987 ~ Complete ~54:ANTI-ACVR2A ANTIBODIES AND USES THEREOF ~71:Laekna Therapeutics Shanghai Co., Ltd., 5th Floor, 987 Cailun Road, Zhangjiang, Pudong, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: GU, Xiang-Ju Justin;HU, Meijuan;LU, Chris Xiangyang;YANG, Mengxue;ZHANG, Minhua;ZHANG, Ruipeng~ 33:IB ~31:2021/116485 ~32:03/09/2021

2024/01962 ~ Complete ~54:METHOD, DEVICE AND STORAGE MEDIUM FOR BULK CARRIER TIME CHARTER LEVELS BASED ON CONFIDENCE INDEX FORECASTING ~71:COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of China ~72: CHEN, Zejin;LEI, Zhongsuo;ZHANG, Kai~ 33:CN ~31:202410014406.9 ~32:04/01/2024

2024/01968 ~ Complete ~54:DISCONNECTOR AND EARTHING SWITCH WITH TELESCOPIC CONTACT ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4 D04 Y0C2, IRELAND, Ireland ~72: KONA, Kaushik;PAWAR, Vishal;PINGLE, Mangesh;SOLASE, Rushikesh;WAGHMORE, Minal~ 33:IN ~31:202311016938 ~32:14/03/2023;33:GB ~31:2306482.7 ~32:02/05/2023

2024/01975 ~ Complete ~54:HYBRID HIGH STRENGTH LOW ALLOY COLD-ROLLED AND ANNEALED STEEL STRIP AND METHOD FOR PRODUCING IT ~71:TATA STEEL IJMUIDEN B.V., Wenckebachstraat 1, 1951 JZ Velsen-Noord, Netherlands ~72: JEAN JOSEPH CAMPANIELLO~ 33:EP ~31:21202973.0 ~32:15/10/2021

2024/01978 ~ Complete ~54:PRODUCTION AMOUNT DETECTOR, PRODUCTION AMOUNT DETECTION SYSTEM INCLUDING THE SAME, AND PRODUCTION AMOUNT DETECTION METHOD ~71:KABUSHIKI KAISHA EARTHTECHNICA, 2-4, Kandajinbo-cho, Chiyoda-ku, Tokyo, 1010051, Japan ~72: JUN KOBAYASHI;KEITA YAMAMOTO;KENICHI NAKASHIMA;MORIYUKI SAKAMOTO;MOTOAKI ISHIZAWA;NOBUYUKI KAJITA;TAKASHI KIJIMA~ 33:JP ~31:2021-132813 ~32:17/08/2021

2024/01965 ~ Complete ~54:ALPHA-1 ANTITRYPSIN (AAT) RNAI AGENTS, COMPOSITIONS INCLUDING AAT RNAI AGENTS, AND METHODS OF USE ~71:ARROWHEAD PHARMACEUTICALS, INC., 225 South Lake Avenue, Suite 1050, Pasadena, California, 91101, United States of America ~72: CHRISTINE I WOODDELL;RUI ZHU;TAO PEI;ZHEN LI~ 33:US ~31:62/444,452 ~32:10/01/2017;33:US ~31:62/486,720 ~32:18/04/2017;33:US ~31:62/596,232 ~32:08/12/2017

2024/01967 ~ Complete ~54:ACTUATING MECHANISM FOR A DEVICE ~71:Eaton Intelligent Power Limited, 30 Pembroke Road, DUBLIN 4 D04 Y0C2, IRELAND, Ireland ~72: KONA, Kaushik;PAWAR, Vishal;PINGLE, Mangesh;SOLASE, Rushikesh;WAGHMORE, Minal~ 33:IN ~31:202311016937 ~32:14/03/2023;33:GB ~31:2306481.9 ~32:02/05/2023

2024/01957 ~ Complete ~54:DEVICE WITH DISPOSABLE ELEMENT ~71:BRUIN BIOMETRICS, LLC, 10877 Wilshire Blvd.,, Suite 1600, United States of America ~72: BURNS, Martin, F.;CAMPBELL, Bill;GIUNTOLI, David, M.;RAPTIS, Mark;ROSS, Graham, O.~ 33:US ~31:62/744,513 ~32:11/10/2018;33:US ~31:62/804,095 ~32:11/02/2019

2024/01961 ~ Complete ~54:A MULTI-LEVEL RESILIENT GATEWAY COMMAND AGENT MODEL AND DATA ACQUISITION SYSTEM FOR INDUSTRIAL INTERNET ~71:COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of China ~72: LI, Chao;LI, Hongxi;SUN, Zhe;ZHANG, Kai;ZOU, Gaoming~ 33:CN ~31:202410064049.7 ~32:16/01/2024

2024/01954 ~ Provisional ~54:TELECOMMUNICATION ADVERTISING INFRASTRUCTURE AND METHOD ~71:ABRAMS, JONATHAN L., 1619 Trinidad Place, Trinidad Drive, Marina Martinique,, South Africa;CANNINGA, LESTER, 133 Buitenkant Street, Gardens,, South Africa;KARANDUTH, JAINENDRA D., 70 Walker Avenue, Selwyn,, South Africa;MILLNER, SHELTON I., 17 Connaught Avenue, Sandringham,, South Africa;PILLAI, JARED F., 52 Hobart Road, Bryanston,, South Africa ~72: ABRAMS, JONATHAN L.;CANNINGA, LESTER;KARANDUTH, JAINENDRA D.;MILLNER, SHELTON I.;PILLAI, JARED F.~

2024/01955 ~ Complete ~54:DEVICE WITH DISPOSABLE ELEMENT ~71:BRUIN BIOMETRICS, LLC, 10877 Wilshire Blvd.,, Suite 1600, United States of America ~72: BURNS, Martin, F.;CAMPBELL, Bill;GIUNTOLI, David, M.;RAPTIS, Mark;ROSS, Graham, O.~ 33:US ~31:62/744,513 ~32:11/10/2018;33:US ~31:62/804,095 ~32:11/02/2019

2024/01963 ~ Complete ~54:BIOINFORMATICS SYSTEMS, APPARATUS, AND METHODS FOR PERFORMING SECONDARY AND/OR TERTIARY PROCESSING ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: HAHM, Mark;MEHIO, Rami;OJARD, Eric;PTASHEK, Amnon;RUEHLE, Michael;STONE, Gavin;VAN ROOYEN, Pieter~ 33:US ~31:62/347,080 ~32:07/06/2016;33:US ~31:62/399,582 ~32:26/09/2016;33:US ~31:62/414,637 ~32:28/10/2016;33:US ~31:15/404,146 ~32:11/01/2017;33:US ~31:62/462,869 ~32:23/02/2017;33:US ~31:62/469,442 ~32:09/03/2017;33:US ~31:15/497,149 ~32:25/04/2017 2024/01972 ~ Complete ~54:ATHEROSCLEROSIS-TARGETED LIPOSOME NANOCARRIER DELIVERY SYSTEM AND PREPARATION METHOD THEREFOR ~71:BEIJING INNO MEDICINE CO., LTD., Room 101-301, 3rd Floor, No. 9 Building, Zone 4, Xishan Creative Park, Haidian District, Beijing, 100195, People's Republic of China ~72: HUIJING WANG;QIAN MA;TUO DENG;XIAOMING CHEN~ 33:CN ~31:PCT/CN2021/116681 ~32:06/09/2021

2024/01982 ~ Complete ~54:NOVEL PLK1 DEGRADATION INDUCING COMPOUND ~71:Uppthera, Inc., 1-204, 9, Songdomirae-ro, Yeonsu-gu, INCHEON 21988, REPUBLIC OF KOREA, Republic of Korea ~72: CHUNG, So Hyun;KANG, Keum Young;KIM, Sang Youn;KIM, Seong Hoon;LEE, Gibbeum;LEE, Han Kyu;LEE, Jun Kyu;MIN, Im Suk;RYU, Hye Guk;RYU, Soo Hee~ 33:KR ~31:10-2021-0105358 ~32:10/08/2021;33:KR ~31:10-2021-0117389 ~32:03/09/2021;33:KR ~31:10-2021-0126757 ~32:24/09/2021;33:KR ~31:10-2022-0008456 ~32:20/01/2022;33:KR ~31:10-2022-0020996 ~32:17/02/2022;33:KR ~31:10-2022-0054880 ~32:03/05/2022;33:KR ~31:10-2022-0075838 ~32:21/06/2022

2024/01983 ~ Complete ~54:CLDN18.2-TARGETING ANTIBODY, BISPECIFIC ANTIBODY AND USE THEREOF ~71:Harbour Biomed (Shanghai) Co., Ltd, 6F-7F, No. 987, Cailun Road, Pilot Free Trade Zone, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Fei;DING, Yi;JHENG, Ming-Jin;QIN, Beibei;WANG, Yongqiang;WU, Yuetao;YANG, Yunxing;ZHANG, Yun;ZHAO, Chuchu~ 33:CN ~31:202110909032.3 ~32:09/08/2021

2024/01986 ~ Complete ~54:MULTIVALENT PNEUMOCOCCAL VACCINES ~71:Affinivax, Inc., 301 Binney Street, Suite 302, CAMBRIDGE 02142, MA, USA, United States of America ~72: BESIN, Gilles R.;BROERING, Teresa J.;BURKE, Heidi;LU, Yingjie;MALLEY, Richard;MCCOMBS, Janet E.;PUVANESARAJAH, Velupillai;SEBASTIAN, Shite;SHARMA, Onkar;STEVENSON, Taylor C.;YAO, Gang;ZHANG, Fan~ 33:US ~31:63/242,487 ~32:09/09/2021;33:US ~31:63/353,014 ~32:16/06/2022

2024/01964 ~ Complete ~54:MIXING DEVICE FOR PREPARATION OF ANTI-UTERINE AGING DRUGS ~71:Changzhou Maternal and Child Health Hospital, No. 16 Dingxiang Road, Changzhou City, Jiangsu Province, 213000, People's Republic of China ~72: Dai Xiuliang~ 33:CN ~31:202410067894X ~32:17/01/2024

2024/01970 ~ Complete ~54:NEW-TYPE ASSEMBLED FOUNDATION PIT SUPPORT SUITABLE FOR FINE SAND LAYER ~71:China Construction Third Engineering Bureau Group Co., Ltd, No. 552, Guannanyuan Road, Hongshan District, Wuhan, People's Republic of China;Ruiteng Basic Engineering Technology (Beijing) Co., Ltd, 1005, Building 3, Zijin Digital Park, Haidian District, Beijing, People's Republic of China;The Third Construction Co., Ltd Of China Construction Third EngineeringG Bureau, No. 2 Guannanyuan Road, Hongshan District, Wuhan City, Hubei Province, People's Republic of China ~72: Aiwen ZI;Chongxiao WANG;Congyue QI;Hongjing YE;Hongwei ZHOU;Huiling YAN;Jun LE;Lei FENG;Lijun YUAN;Long YANG;Lu YANG;Ning WU;Peiyong SONG;Pengfei ZHOU;Qingquan LI;Rong CHEN;Wentao GONG;Yongfeng QI;Yuehua ZHONG;Zhihui WANG~ 33:CN ~31:2022110162914 ~32:24/08/2022

2024/01974 ~ Complete ~54:WASTE PROCESSING APPARATUS ~71:CRANFIELD UNIVERSITY, College Road, Cranfield, Bedfordshire, MK43 0AL, United Kingdom ~72: LEON MATTHEW WILLIAMS~ 33:GB ~31:2112883.0 ~32:09/09/2021

2024/01981 ~ Complete ~54:CIRCULAR KNITTING MACHINE FOR HOSIERY OR THE LIKE AND METHOD FOR PROVIDING A TUBULAR ITEM ~71:Lonati S.p.A., Via Francesco Lonati, 3, BRESCIA 25124, ITALY, Italy ~72: LONATI, Ettore;LONATI, Fausto;LONATI, Francesco~ 33:IT ~31:102021000023264 ~32:09/09/2021

2024/01991 ~ Complete ~54:SYSTEMS AND METHODS FOR MODIFYING THE FOLDING TRAJECTORY AND FACILITATING FOLDING OF POLYPEPTIDE CHAINS ~71:STRENIC LLC, 10216 Farnham Dr., United States of America ~72: SOROKINA, Irina Nikolaevna~ 33:US ~31:63/244,262 ~32:15/09/2021

2024/01966 ~ Complete ~54:TRANSMISSION METHOD AND APPARATUS FOR MIMO SYSTEM ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: JONGHO OH;JONGHWAN KIM;KILSIK HA;SEIJOON SHIM~ 33:KR ~31:10-2020-0120102 ~32:17/09/2020;33:KR ~31:10-2021-0014497 ~32:02/02/2021

2024/01989 ~ Complete ~54:RADIATION SOURCE HOLDER WITH ORIENTATION-INDEPENDENT INNER EXPANSION VOLUME ~71:Vega Americas Inc., 3877 Mason Research Parkway, MASON 45036, OH, USA, United States of America ~72: AHLERS, Shawn Gregory;FLOWER, Randall L.~ 33:US ~31:63/242,287 ~32:09/09/2021

- APPLIED ON 2024/03/11 -

2024/01995 ~ Complete ~54:NON-HUMAN ANIMALS HAVING A HEXANUCLEOTIDE REPEAT EXPANSION IN A C9ORF72 LOCUS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ALLY, Roxanne;DROGUETT, Gustavo;FRENDEWEY, David;GUO, Chunguang;HESLIN, David;KAJIMURA, Daisuke;LACROIX-FRALISH, Michael;LAI, Ka-Man, Venus;MACDONALD, Lynn;SHARMA-KANNING, Aarti;SIAO, Chia-Jen;VALENZUELA, David, M.~ 33:US ~31:62/402,613 ~32:30/09/2016;33:US ~31:62/452,795 ~32:31/01/2017

2024/01999 ~ Complete ~54:METHOD OF AUTOMATED CARGO CONSOLIDATION, ELECTRONIC EQUIPMENT, COMPUTER STORAGE MEDIA ~71:COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of China ~72: JIANG, Junjie;ZHANG, Kai;ZHAO, Zaigang~ 33:CN ~31:202410157633.7 ~32:04/02/2024

2024/02002 ~ Complete ~54:DRAINAGE DEVICE ~71:Zhongshan City People's Hospital, No.2 Sunwen East Road, Shiqi District, Zhongshan City, Guangdong Province, People's Republic of China ~72: Bo Xu;Jianhang Miao;Linkun Zhong;Shan Jiang~ 33:CN ~31:202310999808.4 ~32:10/08/2023

2024/02012 ~ Complete ~54:COOLING ELEMENT AND A METHOD IN CONNECTION WITH A COOLING ELEMENT ~71:METSO METALS OY, Rauhalanpuisto 9, 02230 Espoo, Finland ~72: AKI LAANINEN;HEIKKI HEINONEN;JAANA ROMPPANEN;PETER BJÖRKLUND;PETRI SOLA;PÄIVI SUIKKANEN;TIINA RANKI;VALTTERI SONNINEN~

2024/01998 ~ Complete ~54:PEDIATRIC NEUROTACTILE DETECTOR ~71:The First Affiliated Hospital of Bengbu Medical University, No. 287, Changhuai Road, Bengbu, Anhui Province, People's Republic of China ~72: DONG Huaifu;DONG Xiaoyu;LI Baoguang;LIU Peipei;QU Sehua;ZHANG Ying~

2024/02000 ~ Complete ~54:ANALYSIS METHOD OF ENVIRONMENTAL AIR POLLUTION SOURCES BASED ON FEATURE BIAS ~71:Beijing Capital Air Environmental Science & Technology Co.,Ltd., Room 201, Building 3, No. 9,Wanyuan Street, Beijing Economic and Technological Development Zone, Beijing, People's Republic of China;Hangzhou Juhuan Chuangyou Technology Development Co., Ltd., Room 704, 7th Floor, Building 2, No. 2468, Keji Avenue, Qingshanhu Street, Lin 'an District, Hangzhou, People's Republic of China;Hubei Bituo New Material Technology Co., Ltd., Chukai Road, circular economy Industrial Park, Xianrendu Town, Laohekou City, Xiangyang, People's Republic of China;Jiangxi Institute of Ecological and Environmental Science Research and Planning, No.1131, Hongdu North Road, Nanchang, People's Republic of China ~72: Fengtao WAN;Ke WANG;Minghai CHEN;Wei DENG;Zhenwei DONG~ 33:CN ~31:2023102432704 ~32:14/03/2023

2024/02007 ~ Complete ~54:METHODS OF EFFECTING A HEMODYNAMIC CHANGE BY ADMINISTERING AN ANTI-NPR1 ANTIBODY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: DUNN, Michael;KITHCART, Aaron;OLENCHOCK, Benjamin, Adam~ 33:US ~31:63/254,447 ~32:11/10/2021

2024/02010 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING SPLICING ~71:REMIX THERAPEUTICS INC., 100 Forge Road Suite 400 Watertown, Massachusetts, 02472, United States of America ~72: ALLEN T HOPPER;ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;GULSEHER SARAH SIRIN;MICHAEL W SEILER;PETER SMITH;STEPAN VYSKOCIL;SUDEEP PRAJAPATI~ 33:US ~31:63/238,424 ~32:30/08/2021;33:US ~31:63/238,687 ~32:30/08/2021;33:US ~31:63/238,693 ~32:30/08/2021;33:US ~31:63/282,902 ~32:24/11/2021;33:US ~31:63/393,202 ~32:28/07/2022

2024/02003 ~ Complete ~54:A SYSTEM FOR PREPARING FLY ASH WATER SLURRY (FAWS) USING BIO-ADDITIVE SOLUTION FROM DIOSCOREA HISPIDA ~71:Dr. DEBADUTTA DAS, Department of Chemistry, BuxiJagabandhuBidyadhar Autonomous College, BJB Nagar, Bhubaneswar, 751014, Odisha, India;Dr. BARADA PRASANA DASH, Department of Chemistry Rajdhani College, Bhubaneswar, Odisha, 751003, India;Dr. NIVA NAYAK, Department of Chemistry N C (Auto) College Jajpur, Dist. Jajpur, 755001, Odisha, India;Dr. TAPAN PANDA, Department of Chemistry Gandhi institute for technology (Autonomous) Bhubaneswar, 752054, Odisha, India;Dr. UMAKANTA BEHERA, Department of Mining Engineering, Government College of Engineering, Keonjhar, 758002, Odisha, India;Prof. PRAMILA KUMARI MISRA, Centre of Studies in Surface Science and Technology, School of Chemistry, Sambalpur University, Jyoti Vihar, 768019, India;SWETASHREE PATTANAIK, Trident Academy of Technology F2/A, Infocity, Chandaka Industrial Estate, Chandrasekharpur, Bhubaneswar,Odisha, 751024, India ~72: Dr. DEBADUTTA DAS;Dr. BARADA PRASANA DASH;Dr. NIVA NAYAK;Dr. TAPAN PANDA;Dr. UMAKANTA BEHERA;Prof. PRAMILA KUMARI MISRA;SWETASHREE PATTANAIK~

2024/02008 ~ Complete ~54:APPARATUS AND SYSTEM BASED ON INTERNET OF THINGS FOR LOGISTICS INFORMATION MANAGEMENT ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: SHI, Yan~

2024/02011 ~ Complete ~54:A METHOD FOR EVENING OUT THE FEEDING OF REACTION GAS WHEN FEEDING REACTION GAS INTO A SUSPENSION SMELTING FURNACE AND A BURNER ~71:METSO METALS OY, Rauhalanpuisto 9, 02230 Espoo, Finland ~72: KAJ EKLUND;PETER BJÖRKLUND~

2024/02018 ~ Complete ~54:RETROGRADE CORONARY VENOUS OR SINUS ADMINISTRATION OF THERAPEUTICS ~71:Renovacor, Inc., 5 Mead Point Drive, GREENWICH 06830, CT, USA, United States of America;Temple University of the Commonwealth System of Higher Education, Broad Street and Montgomery Avenue, PHILADELPHIA 19122, PA, USA, United States of America ~72: BOLOGNA, Marcia;FELDMAN, Arthur M.;MYERS, Valerie~ 33:US ~31:63/260,225 ~32:12/08/2021;33:US ~31:63/263,442 ~32:02/11/2021;33:US ~31:63/343,985 ~32:19/05/2022

2024/02020 ~ Complete ~54:METHOD AND SYSTEM FOR PROVIDING A SITE-SPECIFIC FERTILIZER RECOMMENDATION ~71:YARA INTERNATIONAL ASA, Drammensveien 131 0277, Norway ~72: REUSCH, Stefan~ 33:EP ~31:21194224.8 ~32:02/09/2021

2024/02005 ~ Complete ~54:A VEHICLE WHEEL STEERING MECHANISM AND A METHOD OF OPTIMIZING THE VEHICLE WHEEL STEERING MECHANISM ~71:TECHNICKA UNIVERZITA V LIBERCI, Studentska 1402/2, Czech Republic ~72: Jakub JEZEK;Martin KOLOMAZNIK;Robert VOZENILEK~

2024/02009 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING SPLICING ~71:REMIX THERAPEUTICS INC., 100 Forge Road Suite 400 Watertown, Massachusetts, 02472, United States of America ~72: ALLEN T HOPPER;ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;GULSEHER SARAH SIRIN;MICHAEL W SEILER;PETER SMITH;STEPAN VYSKOCIL;SUDEEP PRAJAPATI~ 33:US ~31:63/238,691 ~32:30/08/2021;33:US ~31:63/238,694 ~32:30/08/2021;33:US ~31:63/282,906

~32:24/11/2021;33:US ~31:63/283,132 ~32:24/11/2021;33:US ~31:63/393,205 ~32:28/07/2022;33:US ~31:63/393,206 ~32:28/07/2022

2024/01997 ~ Complete ~54:A HEAT DISSIPATION DEVICE FOR BIG DATA SERVER ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Lei Liu;Shen Liu~

2024/02006 ~ Complete ~54:METHOD FOR FLUSHING REACTOR ~71:LINDE AG, Klosterhofstrasse 1, Germany;SABIC GLOBAL TECHNOLOGIES B.V., Plasticslaan 1, Netherlands ~72: KADIR, Suprayudi S.;MUTAIRI-AL, Yasser Battal;ZAYDI-AL, Abdullah H.~ 33:EP ~31:21195447.4 ~32:08/09/2021

2024/02004 ~ Complete ~54:A BIG DATA SERVER WITH DUST-PROOF EFFECT ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Lei Liu;Shen Liu~

2024/02015 ~ Complete ~54:METHOD FOR PREPARING PHOSPHORUS PENTAFLUORIDE ~71:FUJIAN LONGDE NEW ENERGY CO., LTD, 30 GONGYE ROAD, PINGPU VILLAGE, People's Republic of China ~72: CHEN, Songmei;LAN, Maowei;YANG, Ruifu~ 33:CN ~31:2023104799690 ~32:28/04/2023

2024/02021 ~ Provisional ~54:FIBROUS COMPOSITE BULLETPROOF LAMINATES ~71:Jan Christoffel Engelbrecht, Grewar Townhouse No 2, 14 Grewar Ave, South Africa;Leon Harmsen, 18 Trevor Street, Wilkoppies,, South Africa ~72: Jan Christoffel Engelbercht;Leon Harmsen~

2024/01996 ~ Complete ~54:A WATERLOGGING WATER MONITORING SYSTEM FOR URBAN PHYSICAL EXAMINATION PLATFORM ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Lei Liu;Shen Liu~

2024/02001 ~ Complete ~54:INJURY-PREVENTING URINARY CATHETER ~71:Haikou People's Hospital, 43 Renmin Avenue, Haidian Island, Haikou City, Hainan Province, 570208, People's Republic of China ~72: CHEN, Yang;HUANG, Denggao;WANG, Chan;ZHANG, Shufang~ 33:CN ~31:2023235144811 ~32:22/12/2023

2024/02019 ~ Complete ~54:PURIFICATION METHOD AND SYSTEM OF ELECTRONIC-GRADE LITHIUM HEXAFLUOROPHOSPHATE ~71:FUJIAN LONGDE NEW ENERGY CO., LTD, 30 GONGYE ROAD, PINGPU VILLAGE, People's Republic of China ~72: LAI, Yuhe;LAN, Jiajian;YANG, Ruifu~ 33:CN ~31:202310584446.2 ~32:23/05/2023

2024/02014 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATMENT OF POLYCYSTIC KIDNEY DISEASE ~71:REGULUS THERAPEUTICS INC., 4224 Campus Point Court, Suite 210, San Diego, California 92121, United States of America ~72: DENIS DRYGIN;EDMUND CHUN YU LEE;GARTH A KINBERGER~ 33:US ~31:63/253,933 ~32:08/10/2021

2024/02017 ~ Complete ~54:COMPLEMENTARY FOOD PREPARATION ~71:FRESU, Antonello, 28 rue d'Olingen, ROODT SUR SYRE L-6914, LUXEMBOURG, Luxembourg;LARRE, Jean Michel, 57 rue des Moulins, BISSEN L-7784, LUXEMBOURG, Luxembourg;MASSON, Eric, 14, cité Aischdall, EISCHEN L-8440, LUXEMBOURG, Luxembourg ~72: FRESU, Antonello;LARRE, Jean Michel;MASSON, Eric~ 33:LU ~31:500531 ~32:12/08/2021

2024/02013 ~ Complete ~54:INHIBIN SUBUNIT BETA E (INHBE) MODULATOR 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: AIMEE M DEATON~ 33:US ~31:63/246,084 ~32:20/09/2021

2024/02016 ~ Complete ~54:A METHOD FOR SCREENING FOR MODIFICATIONS IN THE INFECTIVITY RANGE OF BACTERIOPHAGES DUE TO EPIGENETIC IMPRINTING ~71:Universitat Pompeu Fabra, C. de la Mercè, 12, BARCELONA 08002, SPAIN, Spain ~72: GÜELL CARGOL, Marc;KNÖDLSEDER, Nastassia Johanna~ 33:EP ~31:21382796.7 ~32:03/09/2021

- APPLIED ON 2024/03/12 -

2024/02034 ~ Complete ~54:CAIX TARGETING IL-12 FUSION PROTEINS AND METHODS OF USE THEREOF ~71:BICARA THERAPEUTICS INC., 245 Main Street, Cambridge, Massachusetts, 02142, United States of America ~72: ARVIND VITTAL GOSWAMI;AVANISH K VARSHNEY;HARISH KUMAR TRIPURANA;JAYA BHATNAGAR;PRADIP NAIR;RAMAKRISHNAN MELARKODE SUBBARAMAN;RESHMI NAIR;SENG-LAI TAN;SHIV RAM KRISHN;SRINIVAS REDDY BOREDDY~ 33:US ~31:63/245,523 ~32:17/09/2021

2024/02041 ~ Complete ~54:VISION-BASED SPORTS TIMING AND IDENTIFICATION SYSTEM ~71:MyLaps B.V., Zuiderhoutlaan 4, HAARLEM 2012 PJ, THE NETHERLANDS, Netherlands ~72: PENE, Cosmin Octavian;VERWOERD, Adriaan Klaas~ 33:NL ~31:2029136 ~32:06/09/2021

2024/02025 ~ Provisional ~54:SLUDGE TREATMENT ~71:ERASMUS, Petrus Nicolaas, 257 Wyoming Avenue, Berario, South Africa;VISAGIE, Joseph Cornelius, 257 Wyoming Avenue, Berario, South Africa ~72: ERASMUS, Petrus Nicolaas;VISAGIE, Joseph Cornelius~

2024/02040 ~ Complete ~54:CROSS-LINKED POLYMERIC CHELATORS COMPOSITIONS AND USE THEREOF ~71:The University of Kansas, 245 Strong Hall, 1450 Jayhawk Boulevard, LAWRENCE 66045, KS, USA, United States of America ~72: BERKLAND, Cory;QIAN, Jian~ 33:US ~31:63/233,024 ~32:13/08/2021;33:US ~31:63/316,831 ~32:04/03/2022

2024/02047 ~ Provisional ~54:TO MAKE A MISSING/STOLEN LAPTOP NON-OPERATIONAL BY DE-ACTIVATING UNKNOWN OR NEWLY DIFFERENT SERIAL NUMBERED HARD-DRIVES AND INVALIDATING THEM THROUGH INSTALLING A PROGRAM CODE ON THE ON-BOARD BIOS CHIPSET COMPONENT ~71:Mr Bavon Xikombiso Mhlari, 39a Rabe Street, African Spirit,, South Africa;Mr Thabang Gratitude Makgahlela, 471 Mokwena Street, Tlhabane,, South Africa ~72: Mr Bavon Xikombiso Mhlari;Mr Thabang Gratitude Makgahlela~

2024/02100 ~ Provisional ~54:CARAVAAN GLAMPING ~71:Charles Eugene O'Reilly, Pavilion Heights No 66 Highveld, South Africa ~72: Charles Eugene O'Reilly~

2024/02026 ~ Provisional ~54:METHOD AND SYSTEM FOR DETERMINING A WELLNESS INDICATOR ~71:MOMENTUM METROPOLITAN LIFE LIMITED, 268 West Street, Centurion, South Africa ~72: DEAVALL, Clinton;FRIEDRICH, Wernher;HOLMES, Elaine;IMRAN, Zaidh;JACOBS, Alan;LA GRANGE, Andrew;LUXIMON, Maiyshla;PARK, Joon Soo;VENTER, Arnold;WUNDRAM, Gretel~

2024/02029 ~ Complete ~54:ENGLISH TEACHING BOARD WITH MULTIDIRECTIONAL OVERTURNING STRUCTURE ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: LI, Yinjuan~

2024/02033 ~ Complete ~54:RETICULOCALBIN-3 (RCN3) VARIANTS AND TREATMENT OF ASTHMA WITH INTERLEUKIN-4 RECEPTOR ALPHA (IL4R) ANTAGONISTS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: CHARLES PAULDING;SHAN CHEN~ 33:US ~31:63/250,546 ~32:30/09/2021

2024/02035 ~ Complete ~54:ANTI-SIGLEC-6 ANTIBODIES AND METHODS OF USE THEREOF ~71:ALLAKOS INC., 825 Industrial Road, Suite 500, San Carlos, California, 94070, United States of America ~72: BRADFORD A YOUNGBLOOD;EMILY C BROCK;JOHN LEUNG;JULIA SCHANIN;THUY LUU;WOUTER KORVER~ 33:US ~31:63/245,164 ~32:16/09/2021;33:US ~31:63/310,012 ~32:14/02/2022;33:US ~31:63/352,964 ~32:16/06/2022

2024/02042 ~ Complete ~54:N-SUBSTITUTED FERROPORTIN INHIBITORS ~71:Vifor (International) AG, Rechenstr. 37, ST. GALLEN 9014, SWITZERLAND, Switzerland ~72: ALTERMATT, Patrick;BUHR, Wilm;FLACE, Anna;KALOGERAKIS, Aris;MANOLOVA, Vania;REIM, Stefan;UMLAND, Klaus-Daniel~ 33:EP ~31:21198037.0 ~32:21/09/2021

2024/02043 ~ Complete ~54:EXHAUST SYSTEM AND COMPONENTS THEREOF ~71:ECC TEC MSJ Incorporated, 7420 Avenida Del Mar, Unit 2605, Boca Raton, FLORIDA 33433, USA, United States of America ~72: AKYILDIZ, Saban~ 33:US ~31:63/233,019 ~32:13/08/2021

2024/02046 ~ Complete ~54:ACTIVE COMPOUND COMBINATIONS AND FUNGICIDE COMPOSITIONS COMPRISING THOSE ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: GÖHLICH, Frank;GÖRTZ, Andreas;KLÜKEN, Michael Agostinos~ 33:EP ~31:21191334.8 ~32:13/08/2021

2024/02024 ~ Provisional ~54:SLUDGE THICKENING ~71:ERASMUS, Petrus Nicolaas, 257 Wyoming Avenue, Berario, South Africa;VISAGIE, Joseph Cornelius, 257 Wyoming Avenue, Berario, South Africa ~72: ERASMUS, Petrus Nicolaas;VISAGIE, Joseph Cornelius~

2024/02028 ~ Complete ~54:AIR-COOLED STEAM CONDENSER WITH IMPROVED SECOND STAGE CONDENSER ~71:EVAPCO, INC., 5151 Allendale Lane, Taneytown, Maryland, 21787, United States of America ~72: HUBER, Mark;LIBERT, Jean-Pierre~ 33:US ~31:63/232,970 ~32:13/08/2021;33:US ~31:17/887,711 ~32:15/08/2022

2024/02030 ~ Complete ~54:MONITORING AND DIAGNOSIS SYSTEM FOR NETWORK COMMUNICATION SECURITY ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: WANG, Hui~

2024/02038 ~ Complete ~54:POLYOLEFIN COMPOSITION FOR FILAMENTS OR FIBERS ~71:Basell Polyolefine GmbH, Brühler Straße 60, WESSELING 50389, GERMANY, Germany ~72: MARCHINI, Roberta;MUSACCHI, Gianluca;PERDOMI, Gianni~ 33:EP ~31:21191860.2 ~32:18/08/2021

2024/02023 ~ Provisional ~54:THE VERTICAL POWER AND SMART MICROGRIDS (DUAL-PURPOSE) ~71:JJ Govender, 49 Allen Road, South Africa ~72: JJ Govender~

2024/02027 ~ Complete ~54:DUAL TUBE DRILL STRING COMPONENTS ~71:VERACIO LTD., 2455 South 3600 West, United States of America ~72: BRUBACHER, Adrian;DRENTH, Christopher L.~ 33:US ~31:63/234,950 ~32:19/08/2021

2024/02032 ~ Complete ~54:METADATA-DRIVEN DATA INGESTION ~71:AB INITIO TECHNOLOGY LLC, 201 Spring Street, Lexington, Massachusetts, 02421, United States of America ~72: ADAM WEISS;DUSAN RADIVOJEVIC;JOHN VICKERY;MAJA JANKOVIC;ROBERT PARKS~ 33:US ~31:63/245,244 ~32:17/09/2021;33:US ~31:17/665,109 ~32:04/02/2022

2024/02036 ~ Complete ~54:DRILL STEEL COUPLING, ROD AND DRILL STEEL INCLUDING SAME ~71:PETRUS HENDRIK ROODT, Plot 67, Michael Road, Oaktree, Krugersdorp, Gauteng, 1739, South

Africa;ROBERT CHARLES GRADIDGE, 12 Kleim Street, Carletonville, 2499, South Africa ~72: PETRUS HENDRIK ROODT~ 33:ZA ~31:2021/05770 ~32:13/08/2021

2024/02039 ~ Complete ~54:SMALL-PARTICLE SIZE POLYMERIC CHELATORS ~71:The University of Kansas, 245 Strong Hall, 1450 Jayhawk Boulevard, LAWRENCE 66045, KS, USA, United States of America ~72: BERKLAND, Cory;QIAN, Jian~ 33:US ~31:63/233,022 ~32:13/08/2021;33:US ~31:63/316,810 ~32:04/03/2022

2024/02045 ~ Complete ~54:ANTIBIOTIC PYRAZINOTHIAZINE DERIVATIVES AND PROCESS OF PREPARATION THEREOF ~71:Bugworks Research India Pvt Ltd, Bugworks Research India Pvt. Ltd. EVOMA, 88 Borewell Road, Whitefield, BENGALURU 560066, INDIA, India ~72: BHARATHAM, Nagakumar;KAJIPALYA RANGANATHA RAO, Ranga Rao;KATAGIHALLI MATH, Nainesh;NANDISHAIAH, Radha;PEER MOHAMED, Shahul Hameed;RAMACHANDRAN, Vasanthi;SHARMA, Sreevalli~ 33:IN ~31:202141036833 ~32:13/08/2021

2024/02022 ~ Provisional ~54:A COVER DISPENSER APPARATUS FOR A BEVERAGE CONTAINER ~71:SOLOMON, Malcolm Illya, 6 Princes Place, 66 Princes Road, Harfield Village, CLAREMONT, Cape Town 7708, Western Cape, SOUTH AFRICA, South Africa ~72: SOLOMON, Malcolm Illya~

2024/02031 ~ Complete ~54:THERMAL INVERTER BOX ~71:TI-HOLDINGS B.V., Pietersbergweg 283, Netherlands ~72: Rudolf KOEKKOEK;Terence VECHIK~ 33:AU ~31:2021107333 ~32:25/08/2021;33:AU ~31:2021229172 ~32:25/08/2021

2024/02037 ~ Complete ~54:METHOD FOR CONTROLLING AN AMMONIA PLANT ~71:Casale SA, Via Giulio Pocobelli 6, LUGANO 6900, SWITZERLAND, Switzerland ~72: BIALKOWSKI, Michal Tadeusz;CORBETTA, Michele;FILIPPI, Ermanno;OSTUNI, Raffaele~ 33:EP ~31:21196360.8 ~32:13/09/2021

2024/02044 ~ Complete ~54:ELECTROCHEMICAL CELL DEVICES AND METHODS OF MANUFACTURING ~71:Meso Scale Technologies, LLC., 1601 Research Boulevard, ROCKVILLE 20850, MD, USA, United States of America ~72: BILLADEAU, Mark;CARBONE, Nicholas;CLINTON, Charles;DOWDELL, Scott;FOX-LYON, Nicholas;JEFFREY-COKER, Bandele;KOCHAR, Manish;LEIMKUEHLER, Aaron;PETTINGILL, Jeffrey;SIGAL, George;SPIELES, Gisbert;TABAKIN, Leo;TUCKER-SCHWARTZ, Alexander;VANDERSARL, Jules;WOHLSTADTER, Jacob~ 33:US ~31:63/233,167 ~32:13/08/2021

- APPLIED ON 2024/03/13 -

2024/02053 ~ Complete ~54:MEDICINE FEEDING EQUIPMENT FOR INTENSIVE CARE PATIENTS ~71:Tangshan workers Hospital, No.27 Wenhua Road, Tangshan City, Hebei Province, People's Republic of China ~72: CHEN Yan;DU Yangyang;HAN Jingxin;TIAN Xiaohua;WU Zheng;ZHANG Hui~

2024/02051 ~ Provisional ~54:PRIVACY ENHANCED SYSTEM FOR IDENTIFYING AND PREDICTING CRIME AND RISK ON PRIVATE DATA ~71:PRAELEXIS AI GMBH, RITTER-HILPRAND-STRASSE 9, 82024 TAUFKIRCHEN, GERMANY, Germany ~72: HOFFMANN, McElory~

2024/02088 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING SYNUCLEINOPATHIES ~71:H. LUNDBECK A/S, Ottiliavej 9, 2500 Valby, Denmark ~72: ANNE SOFIE MARKUSSEN;DERRICK SPENCER KATAYAMA;FRANK LARSEN;HENRIK RAJESH KUMAR PARSHAD;JOHN SMITH;JOSEFINE NIELSEN SØDERBERG;LOUISE BUUR;MAGDALENA GAUDEN;MARK CORNELL MANNING;PEKKA KALLUNKI~ 33:EP ~31:EP21197120 ~32:16/09/2021

2024/02052 ~ Complete ~54:APPLICATION OF DOF TRANSCRIPTION FACTOR IN IMPROVEMENT OF DROUGHT TOLERANCE OF TRITICUM AESTIVUM ~71:Shandong Agricultural University, No. 61, Daizong Street, Taishan District, Tai'an City, Shandong Province, 271018, People's Republic of China ~72: BIE,

Xiaomin;CHU, Xiaoli;GAO, Xinqi;YIN, Tianci;ZHANG, Xiansheng;ZHENG, Lecheng~ 33:CN ~31:2023116612952 ~32:06/12/2023

2024/02071 ~ Complete ~54:LYSE VARIANT AND METHOD FOR PRODUCING L-ARGININE BY USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: CHOI, Sun Hyoung;KIM, Hyo Kyung;LEE, Zeewon~ 33:KR ~31:10-2021-0143660 ~32:26/10/2021

2024/02049 ~ Provisional ~54:ASSOCIATION OF WOMEN IN MINING SOUTH AFRICA ~71:MAMOSA MODISE, 3360 TSHEGOFATSO STREET, South Africa ~72: MAMOSA MODISE~

2024/02061 ~ Complete ~54:EXTRACTION DEVICE FOR MICRO PLASTICS FROM FARMLAND SOIL AND EXTRACTION METHOD THEREOF ~71:Baotou Teachers'College of Inner Mongolia University of Science & Technology, No.3, Kexue Road, Qingshan District, Baotou City, Inner Mongolia Autonomous Region, 014030, People's Republic of China ~72: GAO Yuhan;Han Xiufeng;Men Guangyao;Sun Hailian;Xian Feng;Zhang Biao;Zhu Li~

2024/02081 ~ Complete ~54:LIGHTWEIGHT PHOTOVOLTAIC MODULE COMPRISING A GLASS AND POLYMER FRONT LAYER ~71:Commissariat a l'Energie Atomique et aux Energies Alternatives, 25 rue Leblanc Bât le Ponant 75015, PARIS 75015, FRANCE, France ~72: CHAMBION, Bertrand;COMMAULT, Benjamin;FRANCOIS, Jérôme;GAUME, Julien;VESCHETTI, Yannick~ 33:FR ~31:2109635 ~32:14/09/2021

2024/02087 ~ Complete ~54:SEQUENCING POLYNUCLEOTIDES USING NANOPORES ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: JEFFREY MANDELL;JESSICA KILLIAN~ 33:US ~31:63/247,155 ~32:22/09/2021

2024/02098 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF METABOLIC AND LIVER DISORDERS ~71:VIKING THERAPEUTICS, INC., 9920 Pacific Heights Blvd., Suite 350, United States of America ~72: BARKER, Geoffrey E.;BARNES, Maureen;LIAN, Brian;STEVENS, Erland;YAGIZ, Kader~ 33:US ~31:63/244,406 ~32:15/09/2021

2024/02075 ~ Complete ~54:HERBICIDAL MALONAMIDES CONTAINING A CONDENSED RING SYSTEM ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HEINRICH, Marc;KORDES, Markus;KRAEMER, Gerd;NEWTON, Trevor, William;SEISER, Tobias;ZIMMERMANN, Gunther~ 33:EP ~31:21193999.6 ~32:31/08/2021

2024/02078 ~ Complete ~54:AN ELECTRONIC COMPONENT AUTHENTICATION SYSTEM ~71:ADAPTIX LIMITED, BEGBROKE SCIENCE PARK, CENTRE FOR INNOVATION AND ENTERPRISE (CIE), WOODSTOCK ROAD, BEGBROKE, OXFORDSHIRE OX5 1PF, UNITED KINGDOM, United Kingdom ~72: BOWEN, David Keith;EVANS, Mark~ 33:GB ~31:2111847.6 ~32:18/08/2021

2024/02082 ~ Complete ~54:SSTR4 AGONIST SALTS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: COATES, David Andrew;REMICK, David Michael~ 33:US ~31:63/243,785 ~32:14/09/2021

2024/02090 ~ Complete ~54:ANTIBODIES CAPABLE OF BINDING TO CD27, VARIANTS THEREOF AND USES THEREOF ~71:GENMAB A/S, Carl Jacobsens Vej 30, 2500, Valby, Denmark ~72: ALEXANDER MUIK;ANDREEA IOAN;DAVID SATIJN;ESTHER C W BREIJ;FRANK BEURSKENS;FRIEDERIKKE GIESEKE;ISIL ALTINTAS;JANINE SCHUURMAN;KRISTINA SCHÖDEL;PAULINE LINDA DE GOEJE;PETER BORROS;ROB DE JONG;UGUR SAHIN~ 33:EP ~31:21195118.1 ~32:06/09/2021;33:EP ~31:22173126.8 ~32:12/05/2022

2024/02048 ~ Provisional ~54:AIRSPRING WITH INTEGRATED HIGH-RESOLUTION AIR FLOW VALVE WITH NETWORK CONNECTIVITY ~71:JHC Smit, Dahlia street 67, Lindo Park, South Africa ~72: JHC Smit~ 33:ZA ~31:20240311 ~32:11/03/2024

2024/02058 ~ Complete ~54:A MULTIFUNCTIONAL STRETCHER FOR EMERGENCY INTERNAL MEDICINE DEPARTMENT ~71:PEOPLE'S HOSPITAL OF ANSHUN CITY GUIZHOU PROVINCE, No. 140, Huangguoshu Street, Xixiu District, Anshun, Guizhou, People's Republic of China ~72: Deju Li;Hong Fu;Youzhen Chen~

2024/02069 ~ Complete ~54:DEVICE FOR SIMULATION OF A MOVING VEHICLE ~71:TECHNICKA UNIVERZITA V LIBERCI, Studentska 1402/2, Czech Republic ~72: Petr LEPSIK;Rudolf MARTONKA;Vitezslav FLIEGEL~ 33:CZ ~31:PV 2021-39309 ~32:26/10/2021

2024/02094 ~ Complete ~54:SEPARATION SYSTEMS, PIGGYBACKING DETECTION DEVICES, AND RELATED COMPUTER PROGRAM PRODUCTS FOR CONTROLLING ACCESS TO A RESTRICTED AREA AND RELATED METHODS ~71:BOON EDAM, INC., 402 McKinney Pkwy, Lillington, North Carolina, 25746, United States of America ~72: BRADLEY S WHALEY;KURT J MEASOM~ 33:US ~31:63/241,961 ~32:08/09/2021

2024/02055 ~ Complete ~54:A METHOD AND REMEDIAL AGENT FOR ECOLOGICALLY RESTORING BARRIERS TO THE CULTIVATION OF FACILITY ECONOMIC CROPS ~71:Zhejiang province agriculture technology popularizing center, No.198 Shiqiao Road, Hangzhou City, Zhejiang Province, 310000, People's Republic of China;zhejiang academy of agricultural sciences, No.198 Shiqiao Road, Hangzhou City, Zhejiang Province, 310000, People's Republic of China ~72: Dingjian;Hong Chunlai;Wang Weiping;Yao yanlai;Zhu Fengxiang;Zhu Weijing~

2024/02067 ~ Complete ~54:METHOD AND SYSTEM FOR IDENTIFYING EXCELLENT SMALL FLUE-CURED TOBACCO PRODUCTION AREAS ACCORDING TO HIGH-PRECISION DIGITAL SOIL MAP ~71:HONGTA TOBACCO (GROUP) LIMITED LIABILITY COMPANY, 118 Hongta Avenue, Yuxi City, People's Republic of China;INSTITUTE OF SOIL SCIENCE, CHINESE ACADEMY OF SCIENCES, 71 Beijing East Road, Xuanwu District, Nanjing City, People's Republic of China ~72: LI, Xiangwei;LU, Junping;SHI, Xuezheng;SUN, Weixia;TIAN, Yutian;XIE, Xinqiao~ 33:CN ~31:2023106800635 ~32:08/06/2023

2024/02074 ~ Complete ~54:PROVIDING TEMPORARY NETWORK SLICE SERVICES IN A COMMUNICATION SYSTEM ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: BULAKCI, Ömer;CASATI, Alessio;GODIN, Philippe;GÜRSU, Halit Murat;NASEER-UL-ISLAM, Muhammad;NATARAJAN, Rajesh, Babu;WON, Sung Hwan~

2024/02079 ~ Complete ~54:A RESPIRATORY SYSTEM ~71:BORTHAKUR, Manas Pratim, FLAT 3 I, VIJAYA ORCHID APPARTMENT, AJANTA PATH, SURVEY BELTOLA, GUWAHATI 781028, ASSAM, India;KARIM, Habib Md Reazaul, VILLAGE AND PO CHAKLA, DISTRICT BONGAINGOAN, 783392, ASSAM, India;RAJGURU, Shivani, JYOTI NAGAR GOLAGHAT, NEAR 6 DHEKERIPETA L P SCHOOL, BHAGAGAON PO/PS/DISTRICT, GOLAGHAT 785621, ASSAM, India ~72: BORTHAKUR, Manas Pratim;CHOUDHURY, Kaushik;KARIM, Habib Md Reazaul;RAJGURU, Shivani;VERMA, Pradeep Kumar~ 33:IN ~31:202131041443 ~32:14/09/2021

2024/02086 ~ Complete ~54:PRODRUG OF PYRROLIDONE DERIVATIVES AS GLUCOKINASE ACTIVATOR ~71:HUA MEDICINE (SHANGHAI) LTD., 275 Ai Di Sheng Road, Pilot Free Trade Zone, Shanghai, 201203, People's Republic of China ~72: FUXING TANG;GUANGHUA LV;JIN SHE;LI CHEN;XIANGLE JIN~ 33:CN ~31:202111079620.5 ~32:15/09/2021;33:CN ~31:202211093895.9 ~32:08/09/2022

2024/02091 ~ Complete ~54:CRYSTAL FORM OF PYRIMIDINE HETEROCYCLIC COMPOUND AND PREPARATION METHOD THEREFOR ~71:D3 BIO (WUXI) CO., LTD., Room 324, 88 MeiLiang Road, MaShan

Street, BinHu District Wuxi, Jiangsu, 214092, People's Republic of China ~72: JIKUI SUN;SHUHUI CHEN;WENTAO WU;YANG ZHANG;YANGYANG XU~ 33:CN ~31:202111062619.1 ~32:10/09/2021;33:CN ~31:202211034826.0 ~32:26/08/2022

2024/02050 ~ Provisional ~54:ASSOCIATION OF WOMEN IN MINING SOUTH AFRICA ~71:MAMOSA MODISE, 3360 TSHEGOFATSO STREET, South Africa ~72: MAMOSA MODISE~

2024/02072 ~ Complete ~54:HERBICIDEL MALONAMIDES CONTAINING MONOCYCLIC HETEROAROMATIC RINGS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HEINRICH, Marc;KORDES, Markus;KRAEMER, Gerd;NEWTON, Trevor, William;SEISER, Tobias;ZIMMERMANN, Gunther~ 33:EP ~31:21193987.1 ~32:31/08/2021

2024/02077 ~ Complete ~54:OPTIMIZATION METHOD FOR PID CONTROL PARAMETERS OF AUTOMOBILE SEMI-ACTIVE SUSPENSION ~71:Jiangsu University, 301 Xuefu Road, Jingkou District, Zhenjiang, Jiangsu, 212013, People's Republic of China ~72: PAN Gongyu;WU Ke~ 33:CN ~31:2022116186217 ~32:15/12/2022

2024/02083 ~ Complete ~54:SMALL MOLECULE COMPOUNDS HAVING NAPHTHYLAMINE STRUCTURE AND APPLICATION THEREOF ~71:Hangzhou Phecdamed Co., Ltd., Room 301, Building 2, No. 2626 Yuhangtang Road, Yuhang District Hangzhou, ZHEJIANG 311100, CHINA (P.R.C.), People's Republic of China ~72: CEN, Xufeng;FAN, Mengyang;LIU, Dong;TIAN, Zhen;WU, Ronghai;XIA, Hongguang;XU, Xiaoyan~ 33:CN ~31:202111108417.6 ~32:22/09/2021

2024/02099 ~ Complete ~54:IMMUNE CELLS HAVING CO-EXPRESSED SHRNAS AND LOGIC GATE SYSTEMS ~71:ARSENAL BIOSCIENCES, INC., 329 Oyster Point Blvd, United States of America ~72: ALLEN, Nicole;BEZMAN, Natalie;COOPER, Aaron;GAGNON, John;HARRIS, Katherine;KHAN, Omar;LITTERMAN, Adam;MALIK CHAUDHRY, Harbani Kaur;NGUYEN, Michelle;SANTORO, Stephen;WILLIAMS, Jasper;YAO, Anzhi~ 33:US ~31:63/255,887 ~32:14/10/2021;33:US ~31:63/255,889 ~32:14/10/2021;33:US ~31:63/255,891 ~32:14/10/2021;33:US ~31:63/303,422 ~32:26/01/2022

2024/02062 ~ Complete ~54:DEHYDRATION DETECTION DEVICE FOR HEAVY-OIL VISCOSITY REDUCTION REACTION ~71:LiaoNing Petrochemical University, No.1, West Section of Dandong Road, Wanghua District, Fushun City, Liaoning Province, 113001, People's Republic of China ~72: Li Shengke;Liu Hailing;Yang Jiang;Zhao Xiaolong~

2024/02057 ~ Complete ~54:METHOD FOR DRIVING LARGE BIEDS FROM A RICE-FISH CO-CULTURE SYSTEM ~71:Shanghai Academy of Agricultural Sciences, No.1000, Jinqi Road, Fengxian District, Shanghai, 201403, People's Republic of China;Shanghai Ying Tun Agricultural Technology Company, Limited, Room 405, Building 1, Lane 461, Wuyi Road, Shanghai, 200050, People's Republic of China ~72: Hang YANG;Quan YUAN;Shiyang NIE;Weiwei HUANG;Weiwei LV;Wenzong ZHOU~

2024/02063 ~ Complete ~54:EVALUATION SYSTEM FOR FOREIGN TRADE ROUTE LEARNING COMPETITION ~71:Yantai Nanshan University, No. 12, Daxue Road, Donghai Tourist Resort, Longkou, Yantai, Shandong Province, People's Republic of China ~72: Leng Xueyan;Li Ting~

2024/02066 ~ Complete ~54:PIPE COUPLING ~71:JOHANNES ANDREAS DE WET, Plot 4, Rasesa, Kgatleng District, Botswana ~72: JOHANNES ANDREAS DE WET~ 33:ZA ~31:2023/03506 ~32:13/03/2023

2024/02060 ~ Complete ~54:ICE STORAGE TANK FORMING DEVICE ~71:Suzhou Santuo Cold Chain Technology Co.Ltd, Room 808, Building11, University Science Park, No.20 Jianxiong Road, Taicang, Suzhou, Jiangsu, 215400, People's Republic of China ~72: Haibing Du;Ruiqiu Du~ 2024/02064 ~ Complete ~54:DEVICE FOR RADIATING SIMULTANEOUS INTERPRETATION EQUIPMENT ~71:Shaanxi Vocational College of Finance and Economics, No.1 Wenlin Road, Xianyang City, Shaanxi Province, 712000, People's Republic of China ~72: Song Yaqin~

2024/02084 ~ Complete ~54:FACILITATED DELIVERY OF CONCENTRATED ANTIBODY FORMULATIONS USING HYALURONIDASE ~71:Takeda Pharmaceutical Company Limited, 1-1 Doshomachi 4-Chome, Chuo-ku, Osaka-shi, OSAKA 541-0045, JAPAN, Japan ~72: GANGADHARAN, Bagirath;HAIDER, Norbert;HOEFINGHOFF, Joris;LEIDENMUEHLER, Peter;LI, Zhaoyang;NAGY, Andras~ 33:US ~31:63/243,832 ~32:14/09/2021

2024/02096 ~ Complete ~54:POLYMER COATING FOR MEDICAL DEVICES AND METHOD OF MANUFACTURE ~71:MOTT CORPORATION, 84 Spring Lane, United States of America ~72: HILL, Alex~ 33:US ~31:63/246,012 ~32:20/09/2021

2024/02065 ~ Complete ~54:DEVICE FOR WOUND DEBRIDEMENT ~71:Zhejiang Jinhua Guangfu Cancer Hospital, No. 1296 Huancheng North Road, Wucheng District, Jinhua City, Zhejiang Province, 321000, People's Republic of China ~72: Fang Yiqun~

2024/02068 ~ Complete ~54:DOSAGE REGIMES FOR THE ADMINISTRATION OF GLUCAGON-LIKE-PEPTIDE-2 (GLP-2) ANALOGUES ~71:ZEALAND PHARMA A/S, Sydmarken 11, Denmark ~72: GLERUP, Peter;JEPPESEN, Palle Bekker;MOURITZEN, Ulrik;SONNE, Kim~ 33:GB ~31:1709643.9 ~32:16/06/2017;33:GB ~31:1714203.5 ~32:05/09/2017;33:GB ~31:1800873.0 ~32:19/01/2018

2024/02085 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING AUTOIMMUNE DISEASES ~71:ORCHARD THERAPEUTICS (EUROPE) LIMITED, 245 Hammersmith Road, 3rd Floor, London W6 8PW, United Kingdom ~72: BOBBY GASPAR;CHIARA RECCHI;JIA L WOLFE;JONATHON SIMEON MARKS-BLUTH;PERVINDER SAGOO~ 33:US ~31:63/241,836 ~32:08/09/2021

2024/02092 ~ Complete ~54:ELECTRONIC DETONATOR SPOOL AND DETONATOR COMPRISING SUCH A SPOOL ~71:DAVEY BICKFORD, Le Moulin Gaspard, 89550, Hery, France ~72: AYMERIC DENUELLE;FÉLIX PRIEUR~ 33:FR ~31:FR2109153 ~32:01/09/2021

2024/02056 ~ Complete ~54:SELECTION SYSTEM OF CLASSIFIED TUNNELING SUPPORTING EQUIPMENT FOR ROADWAY DIACHAMBER ~71:Anhui University of Science and Technology, 168 Taifeng Street, Tianjiaan District, Huainan City, Anhui Province, People's Republic of China;Ordos Haohua Hongqingliang Mining Co., Ltd, Bulawan Community, Shiba Getu Village, Zhaojun Town, Dalate Banner, Ordos City, Inner Mongolia Autonomous Region, People's Republic of China ~72: CHEN Jianchong;LI Chenglong;MA Yaorong;WANG Bo;ZHANG Honghui;ZHANG Tao~

2024/02059 ~ Complete ~54:FUMIGATION EQUIPMENT BASED ON BREAST TREATMENT ~71:HENAN PROVINCE HOSPITAL OF TCM, No. 6 Dongfeng Road, Jinshui District, Zhengzhou City, Henan Province, 450053, People's Republic of China ~72: Cai Wenmin;Wang Can;Xu Qifeng;Yang Mengmeng;Zhang Baoyong~

2024/02070 ~ Complete ~54:PIV5-BASED CORONAVIRUS VACCINES AND METHODS OF USE THEREOF ~71:CYANVAC LLC, 220 Riverbend Road, Athens, United States of America ~72: BEAVIS, Ashley;GINGERICH, Maria Cristina;HE, Biao;JIN, Hong;LI, Zhuo~ 33:US ~31:63/246,161 ~32:20/09/2021;33:US ~31:63/365,934 ~32:06/06/2022

2024/02097 ~ Complete ~54:CHAIN TYPE CASTING MACHINE ~71:GUANGDONG HUAXING HEAT EXCHANGE EQUIPMENT CO., LTD., Xiafushan Village, Qiandong Town, Raoping County, Chaozhou, People's Republic of China;RAOPING YUEXING COPPER PROCESSING CO., LTD., Shangfushan Development Zone,

Raoping County, Chaozhou, People's Republic of China;SHANTOU HUAXING (RAOPING) COPPER INDUSTRIAL CO., LTD., Shayuan Development Zone, Shangfushan Village, Qiandong Town, Raoping County, Chaozhou, People's Republic of China;SHANTOU HUAXING METALLURGICAL EQUIPMENT CO., LTD., Rongsheng Science Zone, Daxue Road, Jinping District, Shantou, People's Republic of China ~72: LI, Lihong;LIU, Xiongzhang;SHE, Jingpeng;WU, Yuan;ZHENG, Peide~ 33:CN ~31:202122319704.3 ~32:24/09/2021

2024/02054 ~ Complete ~54:HEAT TREATMENT EQUIPMENT FOR ALUMINUM ALLOY CASTINGS ~71:Taiyuan University of Science and Technology, No.66 Waliu Road, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: DU Ting~

2024/02073 ~ Complete ~54:HIGHLY LOADED BROMOXYNIL FORMULATIONS ~71:ADAMA AUSTRALIA PTY LTD, LEVEL 1, BUILDING B, 207 PACIFIC HIGHWAY, ST LEONARDS, NEW SOUTH WALES 2065, AUSTRALIA, Australia ~72: HORSFIELD, Andrew;VAUGHAN, Peter~ 33:AU ~31:2021221815 ~32:25/08/2021

2024/02076 ~ Complete ~54:HERBICIDAL MALONAMIDES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HEINRICH, Marc;KORDES, Markus;KRAEMER, Gerd;NEWTON, Trevor, William;SEISER, Tobias;ZIMMERMANN, Gunther~ 33:EP ~31:21193044.1 ~32:25/08/2021

2024/02080 ~ Complete ~54:METHOD FOR OBTAINING AN ANTIOXIDANT COMPOSITION FROM LIGNIN, LIGNIN LIQUOR OR BLACK LIQUOR ~71:FUNDACIÓN CENER, Avenida Ciudad de la Innovación, Spain ~72: CLEMENTE CORNAGO, Alberto;FERNÁNDEZ OCHOA, Jon;FUNCIA MUGUERZA, Ibai~ 33:EP ~31:21382822.1 ~32:13/09/2021

2024/02095 ~ Complete ~54:COMPOSITIONS COMPRISING NON-RACEMIC MIXTURES OF (R)- AND (S)-3,4-METHYLENEDIOXYMETHAMPHETAMINE OR (R) AND (S) N-METHYL-1,3-BENZODIOXOLYLBUTANAMINE AND USES THEREOF ~71:PHARMALA BIOTECH INC., 1055 West Georgia Street, 1500 Royal Centre, P.O. Box 11117, Vancouver, British Columbia, V6E 4N7, Canada ~72: HARPREET KAUR;LEONARD HOWELL;NICHOLAS KADYSH~ 33:US ~31:63/235,460 ~32:20/08/2021;33:US ~31:63/298,820 ~32:12/01/2022

2024/02089 ~ Complete ~54:A PERSONAL CARE COMPOSITION COMPRISING VITAMIN K2 AND HYDROXYSTEARIC ACID ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANITA DAMODARAN;ANNU KUMARI;ASHWINI SADAWARTE;NIRMALA SANTOSH NAIR;PERMITA BOSE;SATISH KUMAR VENKATESH;TINGYAN MI;XUELAN GU~ 33:CN ~31:PCT/CN2021/123468 ~32:13/10/2021;33:EP ~31:21210941.7 ~32:29/11/2021

2024/02093 ~ Complete ~54:TROPICAL ROOT-KNOT NEMATODE RESISTANT CARROT PLANT ~71:BEJO ZADEN B.V., Trambaan 1, 1749, CZ Warmenhuizen, Netherlands ~72: ADRIANA DORIEN HAARSMA;ALBERTUS JOHANNES MARIA SCHRIJVER;DIANA KATSCHNIG;PETER ARNOLDUS DEKKER;WILLEM ARIE ZWAAN~

- APPLIED ON 2024/03/14 -

2024/02115 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF PORCINE CIRCOVIRUS TYPE II NANOVACCINE BASED ON COVALENT ORGANIC FRAMEWORKS ~71:Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.202 Gongye North Road, Jinan City, Shandong Province, People's Republic of China ~72: CHEN Zhi;DING Luogang;JI Xiang;LI Jianda;LIU Fei;REN Sufang;SHI Min;WU Jiaqiang;YU Jiang;ZHANG Lin;ZHANG Yuyu~ 33:CN ~31:2023117581307 ~32:20/12/2023 2024/02141 ~ Complete ~54:PACIFYING PERSONAL PROTECTIVE DEVICE ~71:JEFFERSON, Toni, 268 COUNTRY CHASE DR., JACKSON, TN 38305, USA, United States of America ~72: JEFFERSON, Toni~ 33:US ~31:17/488,525 ~32:29/09/2021

2024/02140 ~ Complete ~54:METHODS OF DOSING OF APICAL SODIUM-DEPENDENT BILE ACID TRANSPORTER INHIBITORS (ASBTIS) ~71:MIRUM PHARMACEUTICALS, INC., 950 Tower Lane, Suite 1050, United States of America ~72: PEETZ, Christopher~ 33:US ~31:63/271,916 ~32:26/10/2021;33:US ~31:63/280,470 ~32:17/11/2021;33:US ~31:63/354,424 ~32:22/06/2022

2024/02113 ~ Complete ~54:PRIMER SET AND KIT FOR IDENTIFYING FEMALE STRENGTH OF CUCUMBERS AND USE THEREOF ~71:Beijing Academy of Agriculture and Forestry Sciences, No. 9, Shuguang Huayuan Middle Road, Haidian District, Beijing, 100089, People's Republic of China ~72: HUANG, Jijun;LUO, Jiang;MAO, Aijun;TIAN, Shouwei;WANG, Hang;WEN, Changlong;XIA, Changxuan;YANG, Jingjing;ZHANG, Chengdong;ZHANG, Jian;ZHANG, Xiaofei;ZHAO, Hong~ 33:CN ~31:2023113535494 ~32:19/10/2023

2024/02119 ~ Complete ~54:COMPACT SWITCHING APPARATUS ~71:EATON INTELLIGENT POWER LIMITED, 30 Pembroke Road, Ireland ~72: HEILERSIG, Dinant~ 33:GB ~31:2304942.2 ~32:03/04/2023;33:GB ~31:2312863.0 ~32:23/08/2023

2024/02121 ~ Complete ~54:A MULTI-MODE IMAGE FUSION METHOD BASED ON DATA ADAPTIVE GRAPH CONVOLUTIONAL DEEP NETWORK ~71:Suzhou University, Erpu Village, Zhuxianzhuang Town, Yongqiao District, Suzhou City, Anhui Province, 234000, People's Republic of China ~72: Kai Guo;Nannan Liang~ 33:CN ~31:202410155586.2 ~32:04/02/2024

2024/02144 ~ Complete ~54:BIOFUEL BLENDS WITH IMPROVED OXIDATION STABILITY AND LUBRICITY ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BALAM, Harish Kumar;CAIAZZO, Aldo;DE JONGE, Diederik Mattheus Antonius;VAN DIJK, Nicolaas~ 33:US ~31:63/257,748 ~32:20/10/2021

2024/02146 ~ Complete ~54:TARGETED DELIVERY OF THERAPEUTIC ENZYMES ~71:JOINT-STOCK COMPANY "GENERIUM", ul. Zavodskaya, building 273, pos. Volginskiy, Russian Federation ~72: KHAMITOV, Ravil Avgatovich;RESHETNIK, Elizaveta Vyacheslavovna;SHUKUROV, Rakhim Rakhmankulyyevich;SHUSTER, Aleksandr Mikhailovich~ 33:RU ~31:2021124495 ~32:18/08/2021

2024/02117 ~ Complete ~54:ELECTRIC SWITCHING DEVICE WITH IMPROVED ACTUATION MECHANISM ~71:EATON INTELLIGENT POWER LIMITED, 30 Pembroke Road, Ireland ~72: SCHOONENBERG, Gerard;STEVELINK, Frans~ 33:GB ~31:2303834.2 ~32:16/03/2023

2024/02120 ~ Complete ~54:A METHOD FOR PREPARING BIOCHAR BALLS WITH HIGH ADSORPTION PERFORMANCE USING SOLID WASTE AS RAW MATERIAL ~71:Kunming University of Science and Technology, No.68, Wenchang Lane, Yi'eryi Street, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Fangfang Li;Lan Zhang;Qihong Cen;Xiang Dong;Yan Zhao~

2024/02142 ~ Complete ~54:APICAL SODIUM-DEPENDENT TRANSPORTER INHIBITOR COMPOSITIONS ~71:MIRUM PHARMACEUTICALS, INC., 950 Tower Lane, Suite 1050, United States of America ~72: BRITTAIN, Jason E.;HWANG, Helen;KOMMURU, Thirumala;VIG, Pamela~ 33:US ~31:63/271,857 ~32:26/10/2021

2024/02116 ~ Complete ~54:HEALTHY TEA DRINK FOR LOWERING BLOOD SUGAR AND PREPARATION METHOD THEREOF ~71:Daodu Health Management Consulting (Xuzhou) Co., Ltd, 1-109, Building D, Greenland Business City (Block B7-2) LOFT, Yunlong Dist., Xuzhou, Jiangsu, People's Republic of China ~72: Huajun Liu;Xuemei Liu~ 33:CN ~31:202410127364X ~32:30/01/2024

2024/02122 ~ Complete ~54:A GAIT METHOD AND SYSTEM BASED ON IMAGE RECOGNITION ~71:Shaanxi Institute of International Trade & Commerce, No. 35, TongYi West Road, Fengxi New Town, Xixian New District, Xi'an City, Shaanxi Province, 712046, People's Republic of China ~72: Jing Guo;Jingqiang Hou;Pengyi Zheng;Ru Chen;Xijuan Wang~

2024/02143 ~ Complete ~54:DRILL RODS HAVING STABILIZERS, AND SYSTEMS AND METHODS COMPRISING SAME ~71:BOART LONGYEAR COMPANY, 2455 South 3600 West, United States of America ~72: BRUBACHER, Adrian;DRENTH, Christopher L.~ 33:US ~31:63/235,440 ~32:20/08/2021

2024/02114 ~ Complete ~54:INVENTION RELATES TO ENHANCED BIOLOGICAL RETENTION POND FOR ENHANCED NITROGEN AND PHOSPHORUS REMOVAL ~71:Hunan University of Technology, No. 88, Mount Taishan West Road, Tianyuan District, Zhuzhou City, Hunan Province, People's Republic of China ~72: CAO Kui;FU Zhengrong;PENG Bo;ZHANG Lehong;ZHANG Weiqi~

2024/02118 ~ Complete ~54:IMPROVED EXHAUST OF HOT GASES RESULTING FROM AN ARC EVENT IN AN ELECTRIC SWITCHGEAR ~71:EATON INTELLIGENT POWER LIMITED, 30 Pembroke Road, Ireland ~72: LAMMERS, Wim;SCHOONENBERG, Gerard~ 33:GB ~31:2303866.4 ~32:16/03/2023

2024/02145 ~ Complete ~54:BIOFUEL BLENDS ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BALAM, Harish Kumar;CAIAZZO, Aldo;POPE, Michael Richard;SHIOSAKI, Daniel Thomas;VAN DIJK, Nicolaas~ 33:US ~31:63/257,735 ~32:20/10/2021

- APPLIED ON 2024/03/18 -

2024/02206 ~ Provisional ~54:PAYSAFE BIOMETRIC PAYMENT SYSTEM ~71:Brendan Denis Fernandez, 30 Ballyclare Drive, South Africa ~72: Brendan Denis Fernandez~

2024/02107 ~ Provisional ~54:DYNAMIC AIRSPRING SUSPENSION SYSTEM WITH ELECTRONIC PRESSURE REGULATOR CONTROL ON A NETWORK PLATFORM TO PREVENT OVERLOADING AND INCREASE VEHICLE EFFICIENCY ~71:JHC Smit, 76 Dahlia Street, Lindo Park, South Africa ~72: JHC Smit~ 33:ZA ~31:160320242 ~32:16/03/2024

2024/02126 ~ Complete ~54:SEED VOLUME MEASURER AND MEASURING METHOD ~71:Xinjiang Agricultural University, No. 311 Nongda East Road, Sayibak District, Urumqi City, Xinjiang Uygur Autonomous Region, 831100, People's Republic of China ~72: BAI, Guanghong;REN, Jiaojiao;WU, Penghao~

2024/02134 ~ Complete ~54:ADAS DRIVING RECORDER FOR FATIGUE DRIVING DETECTION ~71:ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY, No. 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: Wang Hongyu;Wang Le;Zhang Pingjuan~

2024/02151 ~ Complete ~54:MULTI-DIRECTIONAL AUXILIARY MEMORY TEACHING SYSTEM FOR ENGLISH TEACHING ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: JIAO, Chunhong~

2024/02179 ~ Complete ~54:IMPROVED PERFUME COMPOSITIONS COMPRISING SULFUR-CONTAINING PRO-FRAGRANCE COMPOUNDS ~71:Firmenich SA, 7, Rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: HOZUMI, Taro;STRUILLOU, Arnaud;VERHOVNIK, Glenn~ 33:EP ~31:21203732.9 ~32:20/10/2021

2024/02189 ~ Complete ~54:FORMULATION AND COMPOSITION WHICH PROMOTE TARGETED POLLINATION BY BEES TOWARDS BLUEBERRY CROPS AND RELATED METHODS ~71:BEEFLOW CORPORATION, 5837 E Los Angeles Ave Somis, California, 93066, United States of America;CONSEJO NACIONAL DE INVESTIGACIONES CIENTÍFICAS Y TÉCNICAS (CONICET), Godoy Cruz 2290 Piso 10 Ciudad Autónoma de Buenos Aires, C1425FQB, Argentina;UNIVERSIDAD DE BUENOS AIRES, Viamonte 430 Planta Baja, Dirección de Mesa de Entradas, Salidas y Archivo del Rectorado y Consejo Superior Ciudad Autónoma de Buenos Aires C1053ABJ, Argentina ~72: FLORENCIA PALOTTINI;MARÍA CECILIA ESTRAVIS BARCALA;WALTER MARCELO FARINA~ 33:US ~31:63/240,486 ~32:03/09/2021

2024/02192 ~ Complete ~54:A TRUSS ~71:FRAMECAD LICENSING LIMITED, 99 Felton Mathew Avenue, Glen Innes, Auckland, 1072, New Zealand ~72: DANIEL JERRY SPENCER;STEWART MARK TAYLOR~ 33:AU ~31:2021218024 ~32:17/08/2021

2024/02108 ~ Provisional ~54:A REMOTE TECHNICAL SITE ASSESMENT METHOD/SYSTEM ~71:Kabuya Mulumba Randy, Kyalami Hills, South Africa ~72: Kabuya Mulumba Randy~

2024/02127 ~ Complete ~54:FINGERPRINT SPECTRUM OF ZUOGUI JIANGTANG JIEYU FORMULATION, ESTABLISHMENT METHOD AND APPLICATION THEREOF ~71:THE FIRST HOSPITAL OF HUNAN UNIVERSITY OF CHINESE MEDICINE (CLINICAL RESEARCH INSTITUTE OF TRADITIONAL CHINESE MEDICINE), 95 Shaoshan Middle Road, Yuhua District, Changsha City, People's Republic of China ~72: HAN, Yuanshan;LONG, Hongping;WANG, Yajing;WANG, Yuhong;YANG, Hui~ 33:CN ~31:2024100978499 ~32:23/01/2024

2024/02135 ~ Complete ~54:TOUGHNESS EVALUATION SYSTEM FOR HIGHWAY TUNNEL ~71:Research Institute of Highway Ministry of Transport, No. 8 Xitucheng Road, Haidian District, Beijing, 100088, People's Republic of China;ZHEJIANG INSTITUTE OF COMMUNICATIONS CO.,LTD., No. 928 Yuhangtang Road, Xihu District, Hangzhou City, Zhejiang Province, 310030, People's Republic of China ~72: CUI, Danyi;HU, Hongchuan;LI, Weiping;XU, Chongbang~

2024/02154 ~ Complete ~54:HEAT-ACTIVATABLE LINERLESS LABEL CONSTRUCTIONS ~71:AVERY DENNISON CORPORATION, 8080 Norton Parkway, United States of America ~72: BRIAND, Antoine;CARRER, Marina;MEHRETAB, Sara;VAN DER HORST, Hidde R.;WIEGERS, Ronald~ 33:US ~31:63/255,988 ~32:15/10/2021;33:US ~31:63/364,149 ~32:04/05/2022;33:US ~31:63/376,299 ~32:20/09/2022

2024/02162 ~ Complete ~54:NOVEL YHHS VARIANT AND METHOD FOR PRODUCING O-PHOSPHOSERINE, CYSTEINE, AND DERIVATE OF CYSTEINE USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: CHOI, Jin-Geun;JUNG, Hwi-Min;LEE, Jin Nam;PARK, Hye Min;SIM, Hee-jin~ 33:KR ~31:10-2021-0072313 ~32:03/06/2021

2024/02170 ~ Complete ~54:TREATMENT OF SLEEP DISTURBANCES IN AUTISM SPECTRUM DISORDER PATIENTS ~71:VANDA PHARMACEUTICALS INC., 2200 Pennsylvania Ave. NW, Suite 300E, United States of America ~72: POLYMEROPOULOS, Christos;POLYMEROPOULOS, Mihael;SMIESZEK, Sandra~ 33:US ~31:63/243,918 ~32:14/09/2021;33:US ~31:63/268,430 ~32:23/02/2022;33:US ~31:63/269,137 ~32:10/03/2022

2024/02190 ~ Complete ~54:PRODUCTION OF LIQUEFIED PETROLEUM GAS (LPG) HYDROCARBONS FROM CARBON DIOXIDE-CONTAINING FEEDS ~71:GAS TECHNOLOGY INSTITUTE, 1700 South Mount Prospect Road, Des Plaines, Illinois, 60018, United States of America ~72: ANDREW WOLEK;JIM WANGEROW;PATRICK LITTLEWOOD;TERRY MARKER~ 33:US ~31:17/470,195 ~32:09/09/2021

2024/02193 ~ Complete ~54:FUNGICIDAL SUBSTITUTED HETEROCYCLES ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: ALEXANDER ROBERT WHITE;DANIEL AKWABOAH;JEFFREY KEITH LONG;LIANA HIE;PAULA LOUISE SHARPE;RAVISEKHARA P REDDY;THOMAS MARTIN STEVENSON~ 33:US ~31:63/234,447 ~32:18/08/2021

2024/02200 ~ Complete ~54:METHODS OF TREATING SOLID TUMOR USING HETEROAROMATIC MACROCYCLIC ETHER COMPOUNDS ~71:NUVALENT, INC., One Broadway, 14th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: AMIT M DESHPANDE;ANUPONG TANGPEERACHAIKUL;CHRISTOPHER DURANT TURNER;DARLENE NOCI;HENRY EFREM PELISH;JAMES R PORTER;JOHN R SOGLIA;MICHAEL MEYERS~ 33:US ~31:63/251,536 ~32:01/10/2021;33:US ~31:63/357,309 ~32:30/06/2022

2024/02204 ~ Provisional ~54:MULTI TELEVISION PARK MOVIES AND COASTER ROLLS ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISON, South Africa ~72: HILTON BRIAN THOMAS~

2024/02112 ~ Provisional ~54:SELF-DRILLING ROCK ANCHOR ~71:RSC MINING (PTY) LTD, 1 Tedstone Drive, South Africa ~72: TBA~

2024/02149 ~ Complete ~54:GASTRIC INHIBITORY PEPTIDE RECEPTOR LIGANDS ~71:3B PHARMACEUTICALS GMBH, Magnusstrasse 11, Germany ~72: Aileen HÖHNE;Anne SCHUMANN;Christian HAASE;Christiane SMERLING;Dirk ZBORALSKI;Eberhard SCHNEIDER;Frank OSTERKAMP;Jan UNGEWISS;Matthias PASCHKE;Ulrich REINEKE~ 33:EP ~31:21204592.6 ~32:25/10/2021

2024/02155 ~ Complete ~54:CERAMIC COMPOSITE FIBER CATALYTIC FILTER PIPE FOR DESULFURIZATION, DENITRATION, AND DIOXIN REMOVAL AND PREPARATION METHOD THEREOF ~71:ZHEJIANG ZHIYUAN ENVIRONMENTAL TECHNOLOGY CO., LTD., Block 1, Block 3, Block 4, Block 5, No.296, Huaye Road, Fengming Street, Tongxiang City, Jiaxing, People's Republic of China ~72: Caifang SHEN;Guodong AN;Guogan DENG;Huilin LI;Jianfa PAN;Jibao ZHU;Lijuan WANG;Qiqi CHU;Shaojun SHI;Xiufeng JIN~ 33:CN ~31:202211507981.X ~32:29/11/2022

2024/02163 ~ Complete ~54:ELECTROCHEMICAL TREATMENT DEVICE ~71:ENSITECH IP PTY LTD, Unit 1, 144 Old Bathurst Road, Australia ~72: WHITE, Clive Stuart~ 33:AU ~31:2021902996 ~32:17/09/2021

2024/02177 ~ Complete ~54:THIOSTREPTON COMPOSITIONS AND PREPARATION THEREOF ~71:RS Oncology, LLC, 1 Broadway, CAMBRIDGE 02142, MA, USA, United States of America ~72: DUNCAN, Jarrett B.;NAUMOV, George N.;OLLÉ, Xavier Pujol;SOROLLA, Lluís Sastre;THOMPSON, Rodney E.;TORRES, Adrià Espinàs~ 33:EP ~31:21382839.5 ~32:17/09/2021

2024/02197 ~ Complete ~54:PHARMACEUTICAL COMPOSITION CONTAINING PEGYLATED EXENATIDE VARIANT AND USE THEREOF ~71:PEGBIO CO., LTD., Suite601, Building B7 Biobay, 218 Xing Hu St., Suzhou Industrial Park, Suzhou, Jiangsu, 215123, People's Republic of China ~72: MICHAEL MIN XU;YINJU HOU~ 33:CN ~31:202111126033.7 ~32:24/09/2021

2024/02153 ~ Complete ~54:LYOPHILISED FORMULATIONS OF MRNA ADSORBED ONTO LIPID NANO-EMULSION PARTICLES. ~71:GENNOVA BIOPHARMACEUTICALS LTD, Chrysalis Block, I.T.B.T. Park, Phase II, MIDC, Hinjawadi, Pune, India ~72: KARDILE, Pavan;KAVIRAJ, Swarnendu;RAUT, Sunil;SINGH, Ajay;SINGH, Sanjay~ 33:IN ~31:202121038492 ~32:25/08/2021

2024/02160 ~ Complete ~54:INDUCIBLE PROMOTER, VECTOR AND HOST CELL BASED THEREON ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation ~72: GORDEEV, Aleksandr Andreevich;KONONOV, Aleksey Vladimirovich;MOROZOV, Dmitry Valentinovich;PUCHKOVA, Mariia Yurievna;SOLOVYEV, Valery Vladimirovich;ZHIRIAKOVA, Mariia Vladimirovna~ 33:RU ~31:2021126254 ~32:07/09/2021

2024/02168 ~ Complete ~54:TENSILE MEMBRANE STRUCTURE BUILDING SYSTEM ~71:TENTHOUSE STRUCTURES (PTY) LTD, 18 Natal Street, Paarden Eiland, South Africa ~72: BEATTIE, Drew;HIGGO, Ryan Vivier;HORN, Sydney Rainer;O'MOLONY, Brendan James~ 33:GB ~31:2114134.6 ~32:01/10/2021

2024/02181 ~ Complete ~54:IMPROVED PERFUME COMPOSITIONS COMPRISING SULFUR-CONTAINING PRO-FRAGRANCE COMPOUNDS ~71:Firmenich SA, 7, rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: BOIS, Estelle;RASSAT, Estelle;STRUILLOU, Arnaud~ 33:EP ~31:21203749.3 ~32:20/10/2021

2024/02123 ~ Complete ~54:BIOLOGICAL CONTROL DEVICE FOR INSECT PESTS ~71:Inner Mongolia Agricultural University, IMAU, No. 306 Zhaowuda Road, Saihan District, Hohhot City, Inner Mongolia Autonomous Region, 010018, People's Republic of China ~72: Chang Jing;Huo Zhijia;Lei Yuchen;Ma Wenyue;Song Baixuan;Wang Qian;Yang Nan~

2024/02130 ~ Complete ~54:SOIL REMEDIATION AGENT AND USING METHOD THEREOF ~71:Dao Mingzhao, No. 53, Mangkai Village Group, Qianying Village Committee, Yongping Town, Jinggu Dai and Yi Autonomous County, Pu'er City, Yunnan Province, 665000, People's Republic of China ~72: Dao Mingzhao~ 33:CN ~31:202310529958.9 ~32:11/05/2023

2024/02137 ~ Complete ~54:STRUCTURE PROTECTION SHEET, EXECUTION METHOD AND PRECAST MEMBER USING STRUCTURE PROTECTION SHEET, AND METHOD FOR MANUFACTURING PRECAST MEMBER ~71:KEIWA INCORPORATED, 10-5, Nihonbashi Kayabacho 2-chome, Chuo-ku, Tokyo, 1030025, Japan ~72: AKIRA NINOMIYA;KENTA SHIMOTANI;MASAKI YOSHIDA;NORIYUKI HORIUCHI;YOSHIKI NAKAJIMA~ 33:JP ~31:2019-132332 ~32:17/07/2019;33:JP ~31:2019-132333 ~32:17/07/2019

2024/02103 ~ Provisional ~54:ELECTRICITY LOAD MANAGEMENT DEVICE ~71:Keith Graham HOLMES, 20 Seeles Road, Monteseel, Inchanga, South Africa ~72: FLEMING, Leslie John;HOLMES, Keith Graham~

2024/02104 ~ Provisional ~54:THE BRACKET SERVES TO LOCK ADJACENT SOLAR PANELS TOGETHER TO PREVENT SOLAR PANEL THEFT. TO THIS END, THE GRIPPING OR HOOKING FORMATIONS OF THE BASE HOOK AROUND A LOWER PERIPHERY OF ADJACENT SOLAR PANEL FRAMES, PREVENTING WITHDRAWAL OF THE FRAMES FROM THE BRACKET. WITH THE SPACER AND TOP BRACKET INSTALLED USING A SHEAR NUT, SEPARATION OF THE SOLAR PANELS IS PREVENTED BY THE BRACKET. THIS MEANS THAT A STRING OF PANELS JOINED TOGETHER USING THE BRACKET CAN ONLY BE STOLEN AS A SINGLE UNIT WHICH MAKES HANDLING AND TRANSPORTATION THEREOF A CHALLENGE. ~71:Shaun Neil Craig, 15 Loeries Lane, Aureole Manor, Northriding, South Africa ~72: Shaun Neil Craig~ 33:ZA ~31:SA20241504601 ~32:14/03/2024

2024/02110 ~ Provisional ~54:NXN MIMO SYSTEM WITH ANTENNA ASSEMBLY ~71:POYNTING ANTENNAS (PTY) LIMITED, Unit 4, N1 Industrial Park, Landmarks Avenue, South Africa ~72: FOURIE, Andre Petrus Cronje~

2024/02157 ~ Complete ~54:A SOLID BIO-PESTICIDAL COMPOSITION COMPRISING OF ELEMENTAL SULPHUR AND AZADIRACHTIN ~71:DOSHI, Hiteshkumar Anilkant, 801, Anmol Residency, Opposite Singhania School, Pokharan Road No. 1, Thane, Maharashtra, 400 606, India;PUTHENVEETIL KUMJUKRISHNA MENON, Ramdas, Flat No.403, Elegant Bldg, Plot No.18-D, Sector 14, Sanpada, Navi Mumbai, Maharashtra, 400705, India ~72: DOSHI, Hiteshkumar Anilkant;PUTHENVEETIL KUMJUKRISHNA MENON, Ramdas~ 33:IN ~31:IN202121029049 ~32:29/06/2021

2024/02165 ~ Complete ~54:BIOFUEL BLENDS ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BALAM, Harish Kumar;CAIAZZO, Aldo;POPE, Michael Richard;SHIOSAKI, Daniel Thomas;VAN DIJK, Nicolaas~ 33:US ~31:63/257,735 ~32:20/10/2021

2024/02176 ~ Complete ~54:METHODS AND APPARATUS FOR DMVR WITH BI-PREDICTION WEIGHTING ~71:InterDigital CE Patent Holdings, SAS, 3 rue du Colonel Moll, PARIS 75017, FRANCE, France ~72: BORDES, Philippe;CHEN, Ya;GALPIN, Franck;LE LEANNEC, Fabrice;ROBERT, Antoine~ 33:EP ~31:21306317.5 ~32:24/09/2021;33:EP ~31:21306874.5 ~32:21/12/2021

2024/02195 ~ Complete ~54:GENE SEQUENCE CONSTRUCT FOR GENE THERAPY OF HUMAN IMMUNODEFICIENCY VIRUS INFECTION ~71:KANGLIN BIOTECHNOLOGY (HANGZHOU) CO., LTD., Room 301, Building No. 4, No. 291, Fucheng Road, Economic And Technological Development Zone, Hangzhou, Zhejiang, 310018, People's Republic of China ~72: BAOZHEN SUN;HAOQUAN WU;YING DANG~ 33:CN ~31:PCT/CN2021/115422 ~32:30/08/2021

2024/02205 ~ Provisional ~54:PAYSAFE BIOMETRIC PAYMENT SYSTEM ~71:Brendan Denis Fernandez, 30 Ballyclare Drive, South Africa ~72: Brendan Denis Fernandez~

2024/02247 ~ Provisional ~54:DOMESTIC WORKER REWARD APP ~71:Michael Grunyuza, 504 Russells Place Sophie De Bruyn, South Africa ~72: Michael Grunyuza~

2024/02124 ~ Complete ~54:MECHANISM FOR BLOWING CHIPS OF NUMERICAL CONTROL MACHINE TOOLS ~71:Huanghu (Zhejiang) Precision Machine Tool Co., Ltd., No. 2, 3rd Floor, Exhibition Center, Zhejiang Sino-German (Changxing) International Industrial Cooperation Park, No. 1228 Chenwang Road, Changxing Economic and Technological Development Zone, Huzhou City, Zhejiang Province, People's Republic of China ~72: Dong Wei;Huang Wenbo;Lan Zhijun;Zhang Liang~

2024/02131 ~ Complete ~54:A GREEN ENVIRONMENTAL PROTECTION WATER ENVIRONMENT TREATMENT EQUIPMENT ~71:Huaqian Mou, No. 830, Binhong West Road, Wucheng District, Jinhua City, Zhejiang Province, 321000, People's Republic of China ~72: Huaqian Mou~

2024/02152 ~ Complete ~54:COVERAGE SYSTEM ~71:SPAMER, Hendrik Jacobus Venter, 16 Castle Pine Crescent, Silver Lakes Golf Estate, South Africa ~72: SPAMER, Hendrik Jacobus Venter~ 33:ZA ~31:2021/04268 ~32:22/06/2021;33:ZA ~31:2022/00469 ~32:11/01/2022

2024/02159 ~ Complete ~54:ISOLATED MODIFIED AAV9 CAPSID PROTEIN VP1 ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation ~72: GERSHOVICH, Pavel Mikhailovich;IAKOVLEV, Pavel Andreevich;MOROZOV, Dmitry Valentinovich;SHUGAEVA, Tatiana Evgenievna;STRELKOVA, Anna Nikolaevna~ 33:RU ~31:2021124726 ~32:20/08/2021

2024/02167 ~ Complete ~54:SOLID STATE FORMS OF RELUGOLIX ~71:CIPLA LIMITED, Cipla House, Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, India ~72: CHENNURU, Ramanaiah;DAS, Arijit;INDUKURI, Anjaneyaraju;PULLAREDDY, Lakkireddy;TEJA, Pyla Kranthi~ 33:IN ~31:202121041687 ~32:15/09/2021

2024/02182 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:2115187.3 ~32:22/10/2021

2024/02185 ~ Complete ~54:FIRE DETECTION AND WARNING SYSTEMS, DEVICES, AND METHODS FOR KITCHEN VENTILATION ~71:Oy Halton Group Ltd., Firdonkatu 2 T 146, Tripla - Workery West, HELSINKI 00520, FINLAND, Finland ~72: LATHAM, Jacob;LIVCHAK, Andrey V.;SANDUSKY, Jimmy~ 33:US ~31:63/251,274 ~32:01/10/2021

2024/02128 ~ Complete ~54:PREPARATION METHOD OF BRASSICA RAPA L. CRUDE POLYSACCHARIDE AND ITS APPLICATION IN ALLEVIATING INTESTINAL DAMAGE CAUSED BY PLATEAU HYPOXIA ~71:LANZHOU UNIVERSITY, No. 222 South Tianshui Road, Lanzhou, People's Republic of China ~72: HUANG, Xiaodan;LI, Bin;LI, Diantong;LIU, Wei;NIU, Yuanlin~ 33:CN ~31:2024101929930 ~32:21/02/2024

2024/02150 ~ Complete ~54:SURFACE PREPARATION FOR JVD ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Daniel CHALEIX;Fabrice LAFFINEUR;Vincent RUWET;Véronique HEBERT~ 33:IB ~31:PCT/IB2021/059600 ~32:19/10/2021

2024/02171 ~ Complete ~54:REEF CUTTING MACHINE ~71:AFRICAN RAINBOW MINERALS PLATINUM (PTY) LTD., ARM House, 29 Impala Road, CHISLEHURSTON, Sandton, Johannesburg 2196, Gauteng, SOUTH AFRICA, South Africa ~72: CROUS, Izak Abram;GOODWIN, Nicolaas Bodenstein;JORDAAN, Barend Jacobus;PRETORIUS, Gerhard;WANNENBURG, Louis~ 33:ZA ~31:2021/05907 ~32:18/08/2021

2024/02178 ~ Complete ~54:3CLPRO PROTEASE INHIBITOR ~71:Qilu Animal Health Products Co., Ltd., No. 10688, Wenliang Road, Dongjia Town, Licheng District, JINAN 250105, SHANDONG, CHINA (P.R.C.), People's Republic of China;Shanghai Qilu Pharmaceutical Research and Development Centre Ltd., Building 1, No. 576 Li Bing Road, No. 56 Faraday Road, Pilot Free Trade Zone, SHANGHAI 201203, PUDONG NEW AREA, CHINA (P.R.C.), People's Republic of China ~72: CHENG, Cang;CHI, Bo;SUN, Daqing;WANG, Junfei~ 33:CN ~31:202111044417.4 ~32:07/09/2021;33:CN ~31:202111226591.0 ~32:21/10/2021;33:CN ~31:202111470155.8 ~32:03/12/2021;33:CN ~31:202111674718.5 ~32:31/12/2021;33:CN ~31:202211031927.2 ~32:26/08/2022

2024/02188 ~ Complete ~54:SOLID FORMS, PHARMACEUTICAL COMPOSITIONS AND PREPARATION OF HETEROAROMATIC MACROCYCLIC ETHER COMPOUNDS ~71:NUVALENT, INC., One Broadway, 14th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: BAUDOUIN GERARD;BENJAMIN STEPHEN LANE;CHRISTOPHER COOPER G. F.;DAVID JAMES PEARSON;JASON T KROPP;JOSHUA COURTNEY HORAN;SIBAO CHEN~ 33:US ~31:63/251,514 ~32:01/10/2021

2024/02201 ~ Complete ~54:GREASELESS CORE BARREL HEAD ASSEMBLY ~71:BOART LONGYEAR COMPANY, 2455 South 3600 West, Salt Lake City, United States of America ~72: DRENTH, Christopher L.~ 33:US ~31:63/236,108 ~32:23/08/2021

2024/02111 ~ Provisional ~54:SUPPRESSANT SYSTEM AND NOZZLE ~71:FIRE AND SECURITY TECHNIQUES (PTY) LTD, Unit 7, Flintstone Park, Gateway Industrial Park, 42 Sarel Baard Road, South Africa ~72: HUGHES, Niel William~

2024/02147 ~ Complete ~54:COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Arunim RAY;Rénald DAVID;Tom WATERSCHOOT~

2024/02187 ~ Complete ~54:VEHICLE MONITORING SYSTEM ~71:YAZAKI CORPORATION, 8-15, Konan 1-Chome, Minato-ku, Tokyo, 1080075, Japan ~72: KOSUKE KOGO;MUNEHIKO KAWAMOTO;YOUHEI MANABE~ 33:JP ~31:2021-170277 ~32:18/10/2021

2024/02194 ~ Complete ~54:METHOD FOR PRODUCING MOTOR FUEL FROM ETHANOL ~71:SWEDISH BIOFUELS AB, Box 12276, 102 27, Stockholm, Sweden ~72: IGOR GOLOUBKOV~ 33:EP ~31:21194166.1 ~32:31/08/2021;33:SE ~31:2151091-2 ~32:31/08/2021

2024/02125 ~ Complete ~54:ARTIFICIAL INTELLIGENCE-BASED EMPLOYEE EFFICIENCY MONITORING SYSTEM ~71:Dr. Raj Sinha, Assistant Professor, Domain: System and Architecture School of Computer

Application, Lovely Professional University, Punjab, India; Dr. Sweta, A.N. College, Patna, Bihar, India ~72: Dr. Raj Sinha; Dr. Sweta~

2024/02106 ~ Provisional ~54:DYNAMIC AIRSPRING SUSPENSION SYSTEM WITH ELECTRONIC PRESSURE REGULATOR CONTROL FOR PREVENTING OVERLOADING AND ENHANCING VEHICLE EFFICIENCY ~71:JHC Smit, 76 Dahlia street, Lindo Park, South Africa ~72: JHC Smit;JHC Smit~ 33:ZA ~31:16032024 ~32:16/03/2024

2024/02133 ~ Complete ~54:APPLICATION OF EXTERNALLY APPLYING THIAMINE IN IMPROVING DROUGHT RESISTANCE OF GOSSYPIUM HIRSUTUM AT SEEDLING STAGE AND FIELD ~71:Huazhong Agricultural University, No.1, Shizishan Street, Hongshan District, Wuhan, Hubei Province, 430070, People's Republic of China ~72: RONG, Yuxuan;SUN, Simin;WANG, Yuxin;XIA, Linjie;YANG, Xiyan;YU, Yu;ZHANG, Xianlong;ZHU, Longfu~

2024/02173 ~ Complete ~54:ANTI-VEGFR1 ANTIBODIES AND THEIR USES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: BREYER, Matthew D.;GONZALEZ VILLALOBOS, Romer A.;LI, Jingjun;RUTKOSKI, Thomas J.;SWANSON, Ronald V.;ZHENG, Gang;ZHENG, Songmao;ZHENG, Xirong~ 33:US ~31:63/233,343 ~32:16/08/2021;33:US ~31:63/322,273 ~32:22/03/2022

2024/02184 ~ Complete ~54:MICROENCAPSULATION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: LINDSAY, Christopher Ian;TAYLOR, Philip~ 33:GB ~31:2114759.0 ~32:15/10/2021

2024/02198 ~ Complete ~54:OPTIMIZED MULTABODY CONSTRUCTS, COMPOSITIONS, AND METHODS ~71:RADIANT BIOTHERAPEUTICS INC., 12350 - 3 Place Ville-Marie Montreal, Quebec, H03B 0E7, Canada;THE HOSPITAL FOR SICK CHILDREN, 555 University Avenue, Toronto, Ontario, M5G 1X8, Canada ~72: EDURNE RUJAS DIEZ;JEAN-PHILLIPE JULIEN;JOANNE HULME;MELISSA BEILSCHMIDT;PETER EDWARD BAYLISS;XINWEN HE~ 33:US ~31:63/243,402 ~32:13/09/2021

2024/02203 ~ Provisional ~54:A MEDITATION MONITORING DEVICE ~71:KABELO DIALE, 7 COMET STREET, HELDERKRUIN, South Africa ~72: KABELO DIALE~

2024/02132 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTORS WITH BCMA SPECIFICITY AND USES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BRAY, Kevin;DELFINO, Frank;DILILLO, David;KIRSHNER, Jessica;MEAGHER, Thomas, Craig;SINESHCHEKOVA, Olga~ 33:US ~31:62/700,615 ~32:19/07/2018

2024/02138 ~ Complete ~54:HETEROCYCLIC CARBOXYLATE COMPOUNDS AS GLYCOLATE OXIDASE INHIBITORS ~71:LILAC THERAPEUTICS, INC., 2121 North California Blvd, Suite 290 Walnut Creek, California, 94596, United States of America ~72: AMY S LEE;AURPON W MITRA;DEVLEENA M SHIVAKUMAR;HONGYAN GUO;HYUNG-JUNG PYUN;JOHN E KNOX;JULIAN A CODELLI;LIANHONG XU;MANOJ C DESAI;ZACHARY ER NEWBY~ 33:US ~31:62/929,476 ~32:01/11/2019;33:US ~31:63/093,094 ~32:16/10/2020

2024/02161 ~ Complete ~54:BISPECIFIC ANTIBODY COMPRISING A HETERODIMER BASED ON MHC PROTEINS ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation ~72: BARANOVSKAIA, Marianna Dmitrievna;DANILOV, Maksim Andreevich;GURINA, Natalia Nikolaevna;IAKOVLEV, Pavel Andreevich;KRAT, Sergei Mikhailovich;LEGOTSKII, Sergei Aleksandrovich;MATIUKHINA, Natalia Mikhailovna;MOROZOV, Dmitry Valentinovich;NAZARENKO, Olga Viktorovna;POLIAKOV, Dmitrii Nikolaevich;TOPORKOVA, Kseniia Aleksandrovna;VALIAKHMETOVA, Elvira Raisovna~ 33:RU ~31:2021126369 ~32:08/09/2021 2024/02169 ~ Complete ~54:TREATMENT OF IMMUNE CHECKPOINT INHIBITOR-TREATED CANCERS WITH HIGH EGFR EXPRESSION USING AN ANTIBODY THAT BINDS AT LEAST EGFR ~71:MERUS N.V., Uppsalalaan 17, 3e en 4e verdieping, Netherlands ~72: LAMMERTS VAN BUEREN, Jeroen Jilles;WASSERMAN, Ernesto Isaac~ 33:NL ~31:2029327 ~32:06/10/2021

2024/02180 ~ Complete ~54:ANTI-TRANSFERRIN RECEPTOR ANTIBODIES AND USES THEREOF ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: CAMERON, Thomas O.;DALKILIC-LIDDLE, Isin;HANF, Karl J.M;PEPINSKY, R. Blake;QIAN, Fang;SMITH, Benjamin A.~ 33:US ~31:63/239,630 ~32:01/09/2021;33:US ~31:63/388,088 ~32:11/07/2022

2024/02186 ~ Complete ~54:A KIND OF LIGHT-BLOCKING THREE-LITER BAG ~71:SEVENTH PEOPLE'S HOSPITAL OF SHANGHAI UNIVERSITY OF TCM, 358 Datong Road, Pudong New Area, Shanghai, 200137, People's Republic of China ~72: LIN QIU;YONGMEI JIN~

2024/02105 ~ Provisional ~54:MOTOR/GENERATOR WITH AXIALLY ARRANGED PHASES ~71:IGNJATOVIC, Dragan, 4A Leentjiesklip Crescent, Waterfront, LANGEBAAN 7357, Western Cape, SOUTH AFRICA, South Africa ~72: IGNJATOVIC, Dragan~

2024/02109 ~ Provisional ~54:FLOATING BARRIER ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: TBA~

2024/02139 ~ Complete ~54:WATERPROOF AND FLAME-RETARDANT OPTICAL CABLE JACKET MATERIAL MASTERBATCH AND PREPARATION METHOD THEREOF ~71:HANGZHOU KEJIA NEW MATERIALS CO., LTD., No.8, Qingyun Village, Taihuyuan Town, Lin'An District, Hangzhou, Zhejiang, 311300, People's Republic of China ~72: DONG FANG;JIAJUN FAN;LIANGJUN SHU~ 33:CN ~31:202310293215.6 ~32:24/03/2023

2024/02148 ~ Complete ~54:VAPOUR NOZZLE FOR PVD ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Océane GILLET;Sergio PACE;Vincent RUWET~ 33:IB ~31:PCT/IB2021/059432 ~32:14/10/2021

2024/02156 ~ Complete ~54:METHOD OF OBTAINING A MODIFIED ADENO-ASSOCIATED VIRUS CAPSID ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation ~72: GERSHOVICH, Pavel Mikhailovich;IAKOVLEV, Pavel Andreevich;LEGOTSKII, Sergei Aleksandrovich;MOROZOV, Dmitry Valentinovich;NADOLINSKII, Alexandr Anatolevich;SHUGAEVA, Tatiana Evgenievna;STRELKOVA, Anna Nikolaevna~ 33:RU ~31:2021124731 ~32:20/08/2021

2024/02164 ~ Complete ~54:BIOFUEL BLENDS WITH IMPROVED OXIDATION STABILITY AND LUBRICITY ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BALAM, Harish Kumar;CAIAZZO, Aldo;DE JONGE, Diederik Mattheus Antonius;VAN DIJK, Nicolaas~ 33:US ~31:63/257,748 ~32:20/10/2021

2024/02172 ~ Complete ~54:METHODS FOR PRODUCING SECURITY FEATURES EXHIBITING ONE OR MORE INDICIA ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: MARTINI, Thibaut;PITTET, Hervé;RUGGERONE, Riccardo;VEYA, Patrick~ 33:EP ~31:21192247.1 ~32:19/08/2021

2024/02175 ~ Complete ~54:DIROXIMEL FUMARATE PARTICLES HAVING IMPROVED FLOW PROPERTIES AND METHODS OF MAKING SAME ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: CHEN, Liang;IRDAM, Erwin;KWOK, Daw-long Albert;MADDEN, Nicole;MASCHO, John~ 33:US ~31:63/245,476 ~32:17/09/2021;33:US ~31:63/357,130 ~32:30/06/2022 2024/02196 ~ Complete ~54:CELL DEATH-INDUCING DFFA-LIKE EFFECTOR B (CIDEB) 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;DHAVAL OZA;JAMES D MCININCH;JEFFREY ZUBER;LUCAS BONDURANT;MARK K SCHLEGEL~ 33:US ~31:63/239,271 ~32:31/08/2021;33:US ~31:63/341,848 ~32:13/05/2022

2024/02202 ~ Provisional ~54:MOBILE AND SMART WATCH PAYMENT SYSTEM FOR TUCK SHOPS, LOCAL SPAZA SHOPS AND TRANSPORT SECTOR (BUSSES, BOLT, UBER AND TAXI) ~71:Boipelo Nelly Motshabi, 2910, UNIT 9 GA RANKUWA, South Africa ~72: BOIPELO NELLY MOTSHABI~

2024/02129 ~ Complete ~54:ADSORPTION AND EXTRACTION DEVICE FOR COMPONENT SEPARATION OF EUCOMMIA ULMOIDES LEAVES EXTRACT ~71:Gansu Agricultural University, No. 1 Yingmen village, Anning District, Lanzhou, Gansu Province, 730070, People's Republic of China ~72: Chen Li;Duan Yongxia;He Wanhong;Yao Wanling;Zhang Jianchun;Zhang Wangdong~ 33:CN ~31:202420010621.7 ~32:03/01/2024

2024/02136 ~ Complete ~54:NOVEL IRRIGATION DEVICE FOR IMPROVING DROUGHT RESISTANCE OF CORN CROPS ~71:Institute of Grain Crops, Xinjiang Academy of Agricultural Sciences, No. 403 Nanchang Road, Shayibak District, Urumqi City, Xinjiang Province, 830091, People's Republic of China ~72: Li Dong;Liu Cheng;Tang Huaijun;Wang Yejian;Xie Xiaoqing;Zhang Lei~

2024/02158 ~ Complete ~54:ISOLATED MODIFIED AAV5 CAPSID PROTEIN VP1 ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation ~72: GERSHOVICH, Pavel Mikhailovich;IAKOVLEV, Pavel Andreevich;LEGOTSKII, Sergei Aleksandrovich;MOROZOV, Dmitry Valentinovich;PEREPELKINA, Mariya Pavlovna;PROKOFYEV, Alexander Vladimirovich;SHUGAEVA, Tatiana Evgenievna;STRELKOVA, Anna Nikolaevna~ 33:RU ~31:2021124727 ~32:20/08/2021

2024/02166 ~ Complete ~54:MONITORING SLUDGE DEWATERING ~71:SNF GROUP, ZAC de Milieux, France ~72: DOWD, Andrew;SCHROETER, Russel~ 33:AU ~31:2021903023 ~32:20/09/2021

2024/02174 ~ Complete ~54:DRY POWDER MEDICAMENT INHALER ~71:Norton (Waterford) Limited, Unit 301 IDA Industrial Park, Cork Road, WATERFORD X91 WK68, IRELAND, Ireland ~72: BUCK, Daniel;CROWLEY, Peter John;GOTTESMAN, Josh;HAZENBERG, Jan Geert~ 33:GB ~31:2113921.7 ~32:29/09/2021;33:GB ~31:2200986.4 ~32:26/01/2022

2024/02183 ~ Complete ~54:TRIPLE-AGENT THERAPY FOR CANCER TREATMENT ~71:Cytometric Therapeutics, Inc., 850 New Burton Road, Suite 201, Dover, DELAWARE 19904, USA, United States of America ~72: GRACE, William;WEISENTHAL, Larry~ 33:US ~31:63/244,412 ~32:15/09/2021

2024/02191 ~ Complete ~54:KNOB AND KEY-ACTUATED DOUBLE CYLINDER LOCK ~71:MUL-T-LOCK TECHNOLOGIES LTD., PO Box 637, 8110400, Yavne, Israel ~72: EFFI BEN-AHARON;EYAL MORSKY~ 33:IL ~31:287340 ~32:17/10/2021

2024/02199 ~ Complete ~54:DR5-TARGETING MULTABODIES FOR THE TREATMENT OF CANCER ~71:RADIANT BIOTHERAPEUTICS INC., 12350 - 3 Place Ville-Marie Montreal, Quebec, H03B 0E7, Canada;THE HOSPITAL FOR SICK CHILDREN, 555 University Avenue, Toronto, Ontario, M5G 1X8, Canada ~72: EDURNE RUJAS DIEZ;JEAN-PHILIPPE JULIEN;JOANNE HULME;MELISSA BEILSCHMIDT;PETER EDWARD BAYLISS;XINWEN HE~ 33:US ~31:63/243,372 ~32:13/09/2021

- APPLIED ON 2024/03/19 -

2024/02213 ~ Complete ~54:ELECTRO-HYDRAULIC VARIABLE VALVE TIMING ACTUATOR CAPABLE OF ACHIEVING SEATING BUFFERING AND ACTUATION METHOD THEREFOR ~71:Harbin Engineering University, No. 145, Nantong Street, Nangang District, Harbin City, Heilongjiang Province, 150000, People's Republic of China ~72: LU, Yong;ZHOU, Gongjie~ 33:CN ~31:2023111910531 ~32:15/09/2023

2024/02217 ~ Complete ~54:FLEXIBLE SEED EXTENSION FOR HASH TABLE GENOMIC MAPPING ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: RUEHLE, Michael~ 33:US ~31:62/852,965 ~32:24/05/2019

2024/02222 ~ Complete ~54:BACULOVIRUS EXPRESSION SYSTEM ~71:BIOVERATIV THERAPEUTICS INC., 225 Second Avenue, Waltham, Massachusetts, United States of America ~72: LIU, Tongyao;MAGHODIA, Ajay;ZAKAS, Philip~ 33:US ~31:PCT/US2021/047218 ~32:23/08/2021;33:US ~31:63/310,038 ~32:14/02/2022

2024/02230 ~ Complete ~54:METHOD AND APPARATUS FOR PRODUCTION OF LEAD-212 ISOTOPE ~71:ABBASI, Ali A., 18 West 132nd Street, Apt. 7, United States of America ~72: ABBASI, Ali A.~ 33:US ~31:63/241,610 ~32:08/09/2021;33:US ~31:17/506,379 ~32:20/10/2021

2024/02236 ~ Complete ~54:METHOD AND DEVICE FOR INSPECTING EGGS CONTACTLESSLY ~71:Egg-Chick Automated Technologies, Rue Alfred Nobel, Zone Industrielle du Vern, LANDIVISIAU 29400, FRANCE, France ~72: BERIER, Frédéric;REVOIS, Hugo;TRUBUIL, Laura~ 33:FR ~31:2109994 ~32:22/09/2021

2024/02243 ~ Complete ~54:USE OF EZH2 INHIBITOR IN PREPARATION OF DRUG FOR TREATING T-CELL LYMPHOMA ~71:JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., No.7 Kunlunshan Road, Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China ~72: WEIWEI WANG;XIAOJING ZHANG~ 33:CN ~31:202111001663.1 ~32:30/08/2021

2024/02246 ~ Complete ~54:COATING OR SURFACE TREATMENT METHOD, SUBSTRATE AND APPARATUS ~71:FEPOD OY LTD, c/o Terkko Health Hub Building 14, Haartmaninkatu 4, Helsinki, 00290, Finland ~72: NIKLAS WESTER~ 33:FI ~31:20227043 ~32:01/04/2022

2024/02209 ~ Complete ~54:BALLISTIC RANGE SPACE REFERENCE CALIBRATION SYSTEM BASED ON THREE-POINT COORDINATE MEASUREMENT ~71:Nanjing University of Science and Technology, No. 200, Xiaolingwei, Xuanwu District, Nanjing City, Jiangsu Province, 210094, People's Republic of China ~72: WANG, Wei~

2024/02214 ~ Complete ~54:SPUTUM SUCTION DEVICE FOR RESPIRATORY MEDICINE DEPARTMENT ~71:Yichang Central People's Hospital (First Clinical Medical College of Three Gorges University, Central People's Hospital Affiliated to Three Gorges University), No. 183, Yiling Avenue, Yichang, Hubei, People's Republic of China ~72: Lingyun Zhang~

2024/02221 ~ Complete ~54:COMPOUNDS TARGETING PMP22 FOR THE TREATMENT OF CHARCOT-MARIE-TOOTH DISEASE ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: ALLERSON, Charles;SUCKOW, Arthur T.~ 33:US ~31:63/280,773 ~32:18/11/2021

2024/02229 ~ Complete ~54:METHOD OF DETECTING AND IDENTIFYING A MICROORGANISM ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, Rondebosch, South Africa ~72: BLACKBURN, Jonathan Michael;HENDRICKS-LEUKES, Nicolette Rebecca~ 33:GB ~31:2112132.2 ~32:24/08/2021

2024/02237 ~ Complete ~54:SYSTEM AND METHOD FOR SHAPING A DUCT SECTION ~71:PLASTIQUES G PLUS INC., 180 rue d'Evain, Rouyn-Noranda, Canada ~72: GAGNON, Dan~ 33:CA ~31:3,148,677 ~32:14/02/2022

2024/02244 ~ Complete ~54:DETERGENT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID CHRISTOPHER THORLEY;DAVID STEPHEN GRAINGER;NEIL STEPHEN BURNHAM~ 33:EP ~31:21203922.6 ~32:21/10/2021;33:EP ~31:21203927.5 ~32:21/10/2021;33:EP ~31:21203931.7 ~32:21/10/2021

2024/02208 ~ Provisional ~54:ARMED GLASS PANES WITH STEALTH ALLUMINIUM WINDOW FRAMES DESIGN ~71:Marius de Wet de Villiers, 1 Hoog street, Dalsig, South Africa ~72: Marius de Wet de Villiers~

2024/02218 ~ Complete ~54:DRAUGHT-PROOF WATERING EQUIPMENT FOR CORN ~71:Xinjiang Academy of Agricultural Sciences Grain Crops Research Institute, No. 403, Nanchang Road, Sayibak District, Urumqi, Xinjiang, People's Republic of China ~72: Cheng Liu;Dong Li;Huaijun Tang;Lei Zhang;Xiaoqing Xie;Yejian Wang~

2024/02223 ~ Complete ~54:ROTARY REGENERATIVE MACHINE STRUCTURE ~71:ARVOS LJUNGSTROM LLC, 3020 Truax Road, United States of America ~72: ANTES, Mark, S.;FULLER, Nicholas, A.;STARKS, William, J.~ 33:US ~31:63/341,785 ~32:13/05/2022

2024/02227 ~ Complete ~54:CONSTRUCTION SEWAGE TREATMENT DEVICE ~71:CHUZHOU INSTITUTE OF VOCATIONAL TECHNOLOGY, 2188 Fengle Avenue, Chuzhou, Anhui, 239000, People's Republic of China ~72: DONG Bo;DONG Zhirui;XU Zouying;ZHANG Guofu;ZHANG Rui;ZHU Yongxiang~ 33:CN ~31:202210968806.4 ~32:12/08/2022

2024/02233 ~ Complete ~54:ACTIVE INGREDIENT DELIVERY SYSTEM ~71:Opes Corporation Oy, Kappelikuja 6 B, ESPOO 02200, FINLAND, Finland ~72: JÄRVENPÄÄ, Janne~ 33:US ~31:63/246,089 ~32:20/09/2021

2024/02239 ~ Complete ~54:IRAK4 DEGRADATION AGENT, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:SHANGHAI LEADINGTAC PHARMACEUTICAL CO., LTD., Room 501, 781 Cai Lun Road, China (Shanghai) Pilot Free Trade Zone, Shanghai, 201203, People's Republic of China ~72: SHIQIANG LI;YAN FENG;ZHENGQING YE~ 33:CN ~31:202110966608.X ~32:23/08/2021;33:CN ~31:202210558158.5 ~32:19/05/2022;33:CN ~31:202210989448.5 ~32:17/08/2022

2024/02245 ~ Complete ~54:OPTICALLY TRANSPARENT MICROELECTRODE ARRAYS FOR ELECTROCHEMICAL AND ELECTROPHYSIOLOGICAL MEASUREMENTS OR STIMULATION ~71:FEPOD OY LTD, c/o Terkko Health Hub Building 14, Haartmaninkatu 4, Helsinki, 00290, Finland ~72: NIKLAS WESTER;SAMUEL RANTATARO;TOMI LAURILA~ 33:FI ~31:20227044 ~32:01/04/2022

2024/02211 ~ Complete ~54:COMPREHENSIVE PEST PREVENTION AND CONTROL METHOD FOR CHESTNUT ~71:Mount Taishan Forest Pest Control and Quarantine Station, Tai'an City, No.47 Hongmen Road, Tai'an City, Shandong Province, People's Republic of China;Shandong Agricultural University, No.61 Daizong Street, Tai'an City, Shandong Province, People's Republic of China ~72: JIA Chunyan;LI Kun;MA Shencheng;SHEN Weixing;SUN Xiaoli;WANG Ying;XIANG Yingying~

2024/02215 ~ Complete ~54:AN ELECTROCHEMICAL BIOSENSOR BASED ON CONDUCTIVE POLYMER COATED GLUCOSE OXIDASE NANOCAPSULES AND A PREPARATION AND APPLICATION THEREOF ~71:Hunan University of Technology, No. 88, Taishan West Road, Tianyuan District, Zhuzhou, Hunan, People's Republic of China ~72: Chao Ge;Jie Huang;Jinghua Tan;Min Liu;Renjie Li;Xueyuan Liu;Yiwu Liu;Yue Chen~

2024/02220 ~ Complete ~54:A PATENT EVALUATION SYSTEM BASED ON BIG DATA ANALYSIS ~71:Huainan Normal University, Dongshan West Road, Tianjia'an District, Huainan City, Anhui Province, 232038, People's Republic of China ~72: Aijun Li;Chuanliang Wu;Chun Fang;Yamin Du;Yanfen Li~

2024/02225 ~ Complete ~54:DIE-CAST ALUMINUM ALLOY FOR NEW ENERGY VEHICLE AND MANUFACTURING METHOD THEREFOR ~71:An hui Krant Aluminum Products Co., Ltd, No.12 Guohua Road, Guangde Economic Development Zone, Xuancheng, Anhui, 242200, People's Republic of China ~72: PAN, Zutang;WANG, Xu;XIANG, Hua;XIONG, Maoqing;ZHANG, Xiong~ 33:CN ~31:2023108253089 ~32:06/07/2023

2024/02228 ~ Complete ~54:COPPER-STEEL COMBINED MOLD ~71:GUANGDONG HUAXING HEAT EXCHANGE EQUIPMENT CO., LTD., Xiafushan Village, Qiandong Town, Raoping County chaozhou, Guangdong, 515726, People's Republic of China;RAOPING YUEXING COPPER PROCESSING CO., LTD., Shangfushan Development Zone, Raoping County Chaozhou, Guangdong, 515726, People's Republic of China;SHANTOU HUAXING METALLURGICAL EQUIPMENT CO., LTD., Rongsheng Science Zone, Daxue Road, Jinping District Shantou, Guangdong, 515000, People's Republic of China;SHANTOU HUAXING(RAOPING)COPPER INDUSTRIAL CO., LTD., Shayuan Development Zone, Shangfushan Village, Qiandong Town, Raoping County Chaozhou, Guangdong, 515726, People's Republic of China ~72: CHEN, Ziling;LI, Lihong;LI, Xibo;SHE, Jingpeng;WU, Yuan~ 33:CN ~31:202122319061.2 ~32:24/09/2021

2024/02234 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: HAINES, Richard;XIAO, Zhihuang;YILMAZ, Ugurhan~ 33:GB ~31:2113410.1 ~32:20/09/2021

2024/02241 ~ Complete ~54:VENTILATION SYSTEM WITH IMPROVED VALVING ~71:RYAN REDFORD, 111 Stellar, Irvine, California, 92618, United States of America ~72: RYAN REDFORD~ 33:US ~31:63/240,298 ~32:02/09/2021

2024/02210 ~ Complete ~54:BIG-DATA-BASED RECOMMENDATION SYSTEM FOR CULTURAL AND CREATIVE WORKS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: JIA, Faxian;LAN, Na;LIU, Jiahuan;LONG, Dan;YU, Huixia;ZHANG, Zhifan~

2024/02216 ~ Complete ~54:A METHOD AND APPLICATION FOR THE DEVELOPMENT OF SNP MOLECULAR MARKERS RELATED TO GRAPE FRUIT CRACKING TRAITS ~71:Xinjiang Academy of Agricultural Sciences Horticulture Crop Research Institute, No. 403, Nanchang Road, Sayibak District, Urumqi, Xinjiang, People's Republic of China ~72: Chuan Zhang;Fuchun Zhang;Haixia Zhong;Jiuyun Wu;Min Wang;Shouan Han;Songlin Zhang;Wen Zhang;Xiaoming Zhou;Xinyu Wu~ 33:CN ~31:2023115698424 ~32:23/11/2023

2024/02219 ~ Complete ~54:MINIMALLY INVASIVE SAMPLING DEVICE CAPABLE OF LOCATING GYNECOLOGICAL TUMOR ~71:Changzhou Maternal and Child Health Care Hospital, No.16 Dingxiang Road, Changzhou City, Jiangsu Province, 213000, People's Republic of China ~72: Guo Ziyi;Sun Liying;Wang Li;Yang Di~

2024/02226 ~ Complete ~54:METHOD AND SYSTEM FOR AUTOMATICALLY DETECTING AND RECONSTRUCTING SPECTRUM PEAKS IN NEAR INFRARED SPECTRUM ANALYSIS OF TEA ~71:Anhui University, No.111 Jiulong Road, Hefei City, Anhui Province, People's Republic of China ~72: CHEN Qi;CHEN Shan;FAN Yuan;PAN Tianhong;WU Chao~ 33:CN ~31:2021115261095 ~32:14/12/2021

2024/02231 ~ Complete ~54:PHOTOLUMINESCENT SECURITY INK FOR CONTINOUS INK-JET PRINTING ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: BAILLEUL, Mickael;CARTESIO, Salvatore;LAPORTE, Cécile;PHILIPPON, Pierre-Sylvain;RUGGERONE, Riccardo~ 33:EP ~31:21192480.8 ~32:20/08/2021

2024/02235 ~ Complete ~54:MULTI-WELL GEOTHERMAL SYPHONING SYSTEM ~71:Good Water Energy Ltd, 32A Second Avenue, Claremont, 6010, WESTERN, AUSTRALIA, Australia ~72: STRANGE, Warren Ross~ 33:AU ~31:2021106085 ~32:20/08/2021;33:AU ~31:2021902611 ~32:20/08/2021

2024/02240 ~ Complete ~54:REINFORCED CORE MATERIAL FOR FAN BLADE AND PREPARATION METHOD THEREFOR ~71:ENVISION ENERGY CO., LTD, No.3 Shenzhuang Road, Shengang Street, Jiangyin Wuxi, Jiangsu, 214443, People's Republic of China ~72: GANG XU;HAO MA;JIANJUN SUI;JIANXU SUN;JINGJING ZHANG;XIANGYANG ZHANG~

2024/02207 ~ Provisional ~54:MULTI PURPOSE SOLAR PV STRUCTURE WITH FULLY ASSEMBLED SUBSYSTEMS ~71:Kabuya Mulumba Randy, Kyalami Hills, South Africa ~72: Kabuya Mulumba Randy~

2024/02212 ~ Complete ~54:VEHICLE ACCESSORY PROCESSING DEVICE ~71:Jinling Institute of Technology, No. 99, Hongjing Avenue, Jiangning District, Nanjing City, Jiangsu, People's Republic of China ~72: WANG, Haiqiao~ 33:CN ~31:2023118434112 ~32:29/12/2023

2024/02224 ~ Complete ~54:COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Brian LIN;Damon PANAHI;Hyojin SONG;Venkata Sai Ananth CHALLA~

2024/02232 ~ Complete ~54:DOSING REGIMENS ASSOCIATED WITH EXTENDED RELEASE PALIPERIDONE INJECTABLE FORMULATIONS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: GOPAL, Srihari;LOUIE, John;MILZ, Ruth;NAJARIAN, Dean;SANGA, Panna;WANG, Steven~ 33:US ~31:63/235,331 ~32:20/08/2021

2024/02238 ~ Complete ~54:METHODS AND SYSTEMS FOR TRAINING ATTRIBUTE PREDICTION MODELS ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CHEAH, Soon-Ee;DRIDAN, Rebecca;GABRIEL THURIER, Quentin;RUSU, Delia~ 33:AU ~31:2021903009 ~32:17/09/2021

2024/02242 ~ Complete ~54:EFFERVESCENT CLEANSING POWDER COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: HASIBA BEKTO;JENNA CHRISTINE DOUTHIT;KAYLA MARIE KEMLER~ 33:EP ~31:21202863.3 ~32:15/10/2021

- APPLIED ON 2024/03/20 -

2024/02249 ~ Provisional ~54:METHOD OF INFUSING COFFEE ~71:ALTAAF SAYED, 37a PLETTENBERG ROAD, South Africa ~72: Altaaf Sayed~

2024/02253 ~ Complete ~54:CROSS-NETWORK INFORMATION INTERACTION METHOD AND SYSTEM BASED ON INTERNET OF THINGS ~71:WEIFANG UNIVERSITY, No. 5147, Dongfeng East Street, High-tech Development Zone, Weifang, People's Republic of China ~72: GAO, Jin;YAN, Huihui~

2024/02265 ~ Complete ~54:FRUITY COMPOUND SEASONING AND PREPARATION METHOD THEREFOR ~71:HAINAN INSTITUTE OF GRAIN AND OIL SCIENCE, 125 Neihuan Street, Jiaji Town, Qionghai City, People's Republic of China ~72: ZHANG, Hongjian;ZHENG, Lianhe;ZOU, Yi~

2024/02270 ~ Complete ~54:NOVEL ANTI-MUC1 ANTIBODY AND USE THEREOF ~71:PEPTRON, INC., (JEONMIN-DONG) 37-24, YUSEONG-DAERO 1628 BEON-GIL,YUSEONG-GU, DAEJEON 34054, REP OF KOREA, Republic of Korea ~72: CHOI, Hoil~ 33:KR ~31:10-2021-0113712 ~32:27/08/2021;33:KR ~31:10-2022-0106864 ~32:25/08/2022

2024/02276 ~ Complete ~54:APPARATUS AND METHODS OF PREVENTING POWER OUTAGES ~71:POWER GRID PROFESSIONALS INC., 6501 Aaron Aronov Drive Fairfield, United States of America ~72: McHenry, Larry~ 33:US ~31:63/246,783 ~32:21/09/2021;33:US ~31:63/271,210 ~32:24/10/2021;33:US ~31:63/374,747 ~32:06/09/2022;33:US ~31:17/933,977 ~32:21/09/2022

2024/02281 ~ Complete ~54:AERATED CONFECTIONERY ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: CELIGUETA TORRES, Isabel;LAZIDIS, Aristodimos;LESER, Martin Erwin;WOOSTER, Timothy James~ 33:EP ~31:21193528.3 ~32:27/08/2021

2024/02294 ~ Complete ~54:CARBONIZATION OIL-CONVERSION PROCESSING APPARATUS ~71:RYOKO ITO, 1-1-20, Nagayoshinagahara, Hirano-ku, Osaka-shi Osaka, 5470016, Japan ~72: TOMOAKI ITO~ 33:JP ~31:2021-150129 ~32:15/09/2021

2024/02251 ~ Complete ~54:GREEN AND ACCURATE APPLICATION METHOD OF BREEDING ORGANIC WASTES IN VEGETABLE GROWING AREAS OF NORTH CHINA ~71:SHANDONG AGRICULTURAL TECHNOLOGY EXTENSION CENTER, NO.15 JIEFANG ROAD, LIXIA DISTRICT, People's Republic of China ~72: AN, Linlin;DONG, Yanhong;MA, Ronghui;WANG, Jian;XING, Xiaofei;ZHANG, Hui;ZHANG, Shanshan;ZHAO, Qingxin;ZHENG, Xuebo~

2024/02259 ~ Complete ~54:SYSTEM AND METHOD FOR EXTRACORPOREAL BLOOD TREATMENT ~71:Gambro Lundia AB, Magistratsvägen 16, LUND 226 43, SWEDEN, Sweden ~72: FORSAL, Innas;HANCOCK, Viktoria;HOBRO, Sture;NILSSON, Anders~ 33:SE ~31:2050621-8 ~32:01/06/2020

2024/02262 ~ Complete ~54:METHOD FOR MANAGING HEALTH DATA THROUGH CHANGXIN MEMORY ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, People's Republic of China ~72: LIU, Enping;LIU, Sujun;LIU, Yidi;TAN, Ping;WANG, Shengxiang~

2024/02264 ~ Complete ~54:METHOD FOR PULPING BY CATALYZING DISSOCIATION OF STRAW FIBERS WITH IRON-MANGANESE-LOADED CERIUM OXIDE/CARBON DOTS, PULP AND APPLICATION THEREOF ~71:JIANGSU ACADEMY OF AGRICULTURAL SCIENCES, No. 50, Zhongling Road, Xuanwu District, Nanjing, Jiangsu, 210014, People's Republic of China ~72: A. ISAAC SANUSI;CHENG YONG;E. B. GUEGUIM KANA;ENHUI SUN;HONGMEI JIN;HONGYING HUANG;LING CHEN;PING QU;YUEDING XU~ 33:CN ~31:2023115077310 ~32:13/11/2023

2024/02268 ~ Complete ~54:METHODS FOR FORMING SILICATES OF CALCIUM ~71:NOVAPHOS GYPSUM TECHNOLOGY LLC, 3200 COUNTY ROAD 630 WEST, FORT MEADE, FLORIDA 33841, USA, United States of America ~72: BLAKE, David B.;VIGNOVIC, Mark~ 33:US ~31:63/236,892 ~32:25/08/2021;33:US ~31:63/317,447 ~32:07/03/2022;33:US ~31:17/894,246 ~32:24/08/2022

2024/02274 ~ Complete ~54:DRIED BIOLOGICAL COMPOSITIONS AND METHODS THEREOF ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: BRAUN, Max;DERNEDDE, Mathias;LEICK, Sabine;SCHMIDT, Harald~ 33:EP ~31:21193146.4 ~32:26/08/2021

2024/02284 ~ Complete ~54:METHODS OF TREATING MYELODYSPLASTIC SYNDROMES WITH DECITABINE AND CEDAZURIDINE ~71:Otsuka Pharmaceutical Co., Ltd., 2-9 Kanda Tsukasa-Machi, Chiyoda-ku, TOKYO 101-8535, JAPAN, Japan ~72: AZAB, Mohammad;HAO, Yong;KEER, Harold~ 33:US ~31:63/246,547 ~32:21/09/2021

2024/02292 ~ Complete ~54:AROMATIC RING-CONTAINING BIOLOGICAL ANTAGONIST, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:JIANGSU HANSOH PHARMACEUTICAL

GROUP CO., LTD., Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 2, No.3728 Jinke Road, Zhangjiang, Hi-Tech Park, Shanghai, 201203, People's Republic of China ~72: HUALING XIAO;JIAQIANG DONG;QIANG LIU;XINGYUN LU~ 33:CN ~31:202110988568.9 ~32:26/08/2021;33:CN ~31:202210633028.3 ~32:06/06/2022

2024/02288 ~ Complete ~54:CONTROL INFORMATION ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: KASKI, Miika;MANNONEN, Petri;VALTEE, Mikko~ 33:EP ~31:21201434.4 ~32:07/10/2021

2024/02254 ~ Complete ~54:SYSTEM FOR AUTONOMOUS HEALTH MANAGEMENT BASED ON WIRELESS TRANSMISSION OF INTELLIGENT CHIP ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, People's Republic of China ~72: CAI, Pan;FENG, Xia;LIN, Yongming;LIU, Enping;LIU, Sujun~

2024/02255 ~ Complete ~54:ANTIBODY-DRUG CONJUGATE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES, 279 Zhouzhu Road, Pudong New Area, Shanghai, 200120, People's Republic of China ~72: DAI, Xianhua;FU, Hao;HUANG, Gang;LI, Bohua;LI, Wei;LIANG, Beibei;WANG, Chao;ZHANG, Zhiyu~ 33:CN ~31:202410095231.9 ~32:23/01/2024

2024/02257 ~ Complete ~54:EFFICIENT ROADWAY TUNNELING MACHINERY DEVICE AND METHOD ~71:Anhui University of Science and Technology, 168 Taifeng Street, Tianjiaan District, Huainan City, Anhui Province, People's Republic of China;Ordos Haohua Hongqingliang Mining Co., Ltd, Bulawan Community, Shiba Getu Village, Zhaojun Town, Dalate Banner, Ordos City, Inner Mongolia Autonomous Region, People's Republic of China ~72: HUA Kafei;LU Shutao;SUN Peng;WANG Jinhai;YAO Xinyu;ZHANG Chuang~

2024/02258 ~ Complete ~54:SYSTEM AND METHOD FOR EXTRACORPOREAL BLOOD TREATMENT ~71:Gambro Lundia AB, Magistratsvägen 16, LUND 226 43, SWEDEN, Sweden ~72: FORSAL, Innas;HANCOCK, Viktoria;HOBRO, Sture;NILSSON, Anders~ 33:SE ~31:2050621-8 ~32:01/06/2020

2024/02260 ~ Complete ~54:A COMPOSTING MACHINE ~71:FOOD 2050 TECHNOLOGIES (PTY) LTD, 17 FISH EAGLE STREET, SILVER LAKES GOLF ESTATE, PRETORIA, GAUTENG, 0081, SOUTH AFRICA, South Africa ~72: PIETERS, Tertius, Christiaan~ 33:ZA ~31:2023/04884 ~32:02/05/2023

2024/02271 ~ Complete ~54:PYRAZINE COMPOUNDS FOR THE CONTROL OF INVERTEBRATE PESTS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: GILBERG, Erik;HUWYLER, Nikolas;KOERBER, Karsten;PEDRONI, Julia~ 33:EP ~31:21193535.8 ~32:27/08/2021;33:EP ~31:21193536.6 ~32:27/08/2021;33:EP ~31:21215019.7 ~32:16/12/2021

2024/02275 ~ Complete ~54:LONG-ACTING PTH COMPOUND TREATMENTS ~71:ASCENDIS PHARMA BONE DISEASES A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: SPROGØE, Kennett~ 33:EP ~31:21198228.5 ~32:22/09/2021;33:EP ~31:22193085.2 ~32:31/08/2022

2024/02279 ~ Complete ~54:FORMING PROCESS OF ALUMINUM ALLOY FRAME FOR NEW ENERGY VEHICLE ~71:An hui Krant Aluminum Products Co., Ltd, No.12 Guohua Road, Guangde Economic Development Zone, Xuancheng, Anhui, 242200, People's Republic of China ~72: PAN, Zutang;PENG, Zhongyuan;SHI, Laisheng;XIONG, Maoqing;ZHU, Qiancheng~ 33:CN ~31:2023108119658 ~32:04/07/2023

2024/02282 ~ Complete ~54:NON-ROTATING ELLIPTICAL IRIS DIAPHRAGM ~71:Thales, 4 rue de la Verrerie, MEUDON 92190, FRANCE, France ~72: MONTAGNE, Laurent~ 33:FR ~31:2109913 ~32:21/09/2021

2024/02286 ~ Complete ~54:WOUND DRESSING WITH ODOR CONTROL PROPERTIES ~71:Essity Hygiene and Health Aktiebolag, GÖTEBORG 405 03, SWEDEN, Sweden ~72: LAFENDT, Sören;SCHÜTZ, Patrick~

2024/02296 ~ Complete ~54:PROCESSES AND SYSTEMS FOR PRODUCING A NICKEL SULFATE PRODUCT ~71:BASF SE, Carl-Bosch-Str. 38, 67056, Ludwigshafen am Rhein, Germany ~72: JULIA HOFINGER;RALF BOEHLING;SABINE FRISCHHUT;STEFAN PICHLMAIR~ 33:US ~31:63/262,927 ~32:22/10/2021;33:EP ~31:21205128.8 ~32:27/10/2021

2024/02248 ~ Provisional ~54:EARNAMO ~71:GOODSTONE MPHANA, 55/ SHEBELLE CRESCENT, African Intellectual Property Organization (OAPI) ~72: GOODSTONE MPHANA~

2024/02273 ~ Complete ~54:USE OF A COLLOIDAL POLYMER INORGANIC HYBRID MATERIAL AS A CONSTRUCTION COMPOSITION ADDITIVE ~71:CONSTRUCTION RESEARCH & TECHNOLOGY GMBH, DR.- ALBERT-FRANK- STRASSE 32, TROSTBERG 83308, GERMANY, Germany ~72: DALLA LIBERA, Alessandro;DHERS, Sebastien;MORATTI, Francesca;SACHSENHAUSER, Bernhard~ 33:EP ~31:21193476.5 ~32:27/08/2021

2024/02277 ~ Complete ~54:REAL-TIME MEASUREMENT METHOD OF LABORATORY SPACE WAVE BASED ON VISUAL EDGE DETECTION ~71:TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING, MINISTRY OF TRANSPORT, No.2618 Xingang N0.2 Road, Binhai New Area, Tianjin, 300456, People's Republic of China ~72: CHEN Hanbao;CHEN Songgui;HU Chuanqi;PENG Cheng;REN Zhiwei;WANG Yina;WANG Yingqi;ZHANG Huaqing;ZHAO Xu~ 33:CN ~31:2021110629518 ~32:10/09/2021

2024/02283 ~ Complete ~54:TEMPLATE-BASED SYNTAX ELEMENT PREDICTION ~71:InterDigital CE Patent Holdings, SAS, 3 rue du Colonel Moll, PARIS 75017, FRANCE, France ~72: GALPIN, Franck;LE LEANNEC, Fabrice;NASER, Karam;POIRIER, Tangi~ 33:EP ~31:21306335.7 ~32:27/09/2021

2024/02299 ~ Complete ~54:METHODS OF CONTROLLING ANTIBODY HETEROGENEITY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10691-6707, United States of America ~72: JOHN CROWLEY;JOHN HOURIHAN;PHILIP MELLORS~ 33:US ~31:63/246,047 ~32:20/09/2021

2024/02293 ~ Complete ~54:SODIUM BICARBONATE NUTRITIONAL SUPPLEMENT ~71:LAMINARIA GROUP AB, Gibraltargatan 1 A, 411 32, Göteborg, Sweden ~72: MARTIN AHNOFF~ 33:EP ~31:21192881.7 ~32:24/08/2021;33:EP ~31:22176761.9 ~32:01/06/2022

2024/02280 ~ Complete ~54:AERATED CONFECTIONERY ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: CELIGUETA TORRES, Isabel;LAZIDIS, Aristodimos~ 33:EP ~31:21193520.0 ~32:27/08/2021

2024/02287 ~ Complete ~54:MINING AUTOMATION SYSTEM OPERATION ZONE CONTROL ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: CUMINI, Lauso;VAARA, Juho~ 33:EP ~31:21199470.2 ~32:28/09/2021

2024/02291 ~ Complete ~54:METHOD FOR PACKAGING AN OBJECT IN A PAPER BAG, AND PAPER BAG ~71:MONDI AG, Marxergasse 4A 1030 Wien, Austria ~72: PETER RÜGER~ 33:DE ~31:10 2021 121 836.5 ~32:24/08/2021

2024/02302 ~ Provisional ~54:HYDRO-PNEUMATIC GAS COMPRESSOR ~71:CORNELIUS JOHANNES VAN DER HEEVER, 112 VOS ST RENSBURG, South Africa ~72: CORNELIUS JOHANNES VAN DER HEEVER~

2024/02290 ~ Complete ~54:NOVEL AMINE-N-OXIDE COMPOUNDS ~71:Karl Franzens Universität Graz, Universitätsplatz 3, GRAZ 8010, AUSTRIA, Austria;Rijksuniversiteit Groningen, Broerstraat 5, GRONINGEN 9712 CP, THE NETHERLANDS, Netherlands ~72: BARTA WEISSERT, Katalin;BÁLINT, Fridrich;HOCHEGGER, Markus~ 33:EP ~31:21198124.6 ~32:21/09/2021

2024/02295 ~ Complete ~54:ANTIVIRAL STRUCTURALLY-STAPLED SARS-COV-2 PEPTIDE- CHOLESTEROL CONJUGATES AND USES THEREOF ~71:DANA-FARBER CANCER INSTITUTE, INC., 450 Brookline Avenue, Boston, Massachusetts, 02215-5450, United States of America ~72: GREGORY H BIRD;LOREN D WALENSKY~ 33:US ~31:63/241,722 ~32:08/09/2021

2024/02301 ~ Complete ~54:ANTIMICROBIAL PACKAGING ~71:SUPERIOR SPECIAL PROJECTS (PTY) LTD, Old Mill Road, Ndabeni, Cape Town 7405, SOUTH AFRICA, South Africa ~72: WILLIAMS, Mark~ 33:ZA ~31:2021/07306 ~32:29/09/2021

2024/02256 ~ Complete ~54:A CHINESE MEDICINE OPHTHALMOLOGY EXAMINATION DEVICE FOR CONVENIENTLY ADJUSTING THE ANGLE ~71:Nanjing Liuhe District Hospital of Traditional Chinese Medicine, No.181 Xintang Road, Longchi Street, Liuhe District, Nanjing, China, 211500, People's Republic of China ~72: Jinwang MA;Ning JIANG;Tong ZHOU;Yuanyuan CAO~

2024/02267 ~ Complete ~54:HERBICIDAL MALONAMIDES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HEINRICH, Marc;KORDES, Markus;KRAEMER, Gerd;NEWTON, Trevor, William;SEISER, Tobias;ZIMMERMANN, Gunther~ 33:EP ~31:21193037.5 ~32:25/08/2021

2024/02285 ~ Complete ~54:HOT-DIP GALVANIZED STEEL MATERIAL ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8071, JAPAN, Japan ~72: MITSUNOBU , Takuya;SAITO, Mamoru;TAKEBAYASHI , Hiroshi;TOKUDA , Kohei~

2024/02289 ~ Complete ~54:NOVEL SULFONATE COMPOUNDS ~71:Karl Franzens Universität Graz, Universitätsplatz 3, GRAZ 8010, AUSTRIA, Austria;Rijksuniversiteit Groningen, Broerstraat 5, GRONINGEN 9712 CP, THE NETHERLANDS, Netherlands ~72: BARTA WEISSERT, Katalin;BÁLINT, Fridrich;HOCHEGGER, Markus~ 33:EP ~31:21198127.9 ~32:21/09/2021

2024/02297 ~ Complete ~54:DETERGENT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID CHRISTOPHER THORLEY;DAVID STEPHEN GRAINGER;NEIL STEPHEN BURNHAM~ 33:EP ~31:21203922.6 ~32:21/10/2021;33:EP ~31:21203927.5 ~32:21/10/2021;33:EP ~31:21203931.7 ~32:21/10/2021

2024/02250 ~ Provisional ~54:GOLF SWING TRAINER ~71:Pragassen NAIDOO, 500 Lenchen Road, Stand 3252 Amberfield Ridge Complex, South Africa ~72: Pragassen NAIDOO~

2024/02252 ~ Complete ~54:GREEN SYNERGISTIC FERTILIZATION METHOD FOR SUMMER CORN IN HUANG-HUAI-HAI REGION ~71:SHANDONG AGRICULTURAL TECHNOLOGY EXTENSION CENTER, NO.15 Jiefang Road, Lixia District, Jinan City,, People's Republic of China ~72: AN, Linlin;DONG, Yanhong;MA, Ronghui;WANG, Jian;ZHANG, Daosheng;ZHANG, Shanshan;ZHANG, Xuefei;ZHAO, Qingxin~

2024/02261 ~ Complete ~54:METHOD FOR MANAGING HEALTH DATA BY GRAPHENE TRANSISTOR CHIP ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, Colombia ~72: LIU, Enping;LIU, Sujun;LIU, Yidi;TAN, Ping;WANG, Shengxiang~

2024/02263 ~ Complete ~54:HEALTH MANAGEMENT SYSTEM AND METHOD BASED ON INTEGRATED SENSING AND COMMUNICATION (ISAC), TERMINAL EQUIPMENT AND STORAGE MEDIUM

~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG, Shengxiang;YANG, Dingguang~

2024/02269 ~ Complete ~54:SYSTEM AND METHOD FOR EXECUTING COMPILED USER DEFINED FUNCTIONS IN VECTORIZED DATABASES ~71:ACTIAN CORPORATION, 2300 GENG ROAD, SUITE 150, PALO ALTO, CALIFORNIA 94303, USA, United States of America ~72: DESANTIS, Robert, P.;KLÄBE, Steffen~ 33:US ~31:63/237,429 ~32:26/08/2021;33:US ~31:17/873,906 ~32:26/07/2022

2024/02266 ~ Complete ~54:MAGNETIC EARTH CLAMP FOR OVERHEAD LINE EQUIPMENT STRUCTURES ~71:NETWORK RAIL, 1 EVERSHOLT STREET, LONDON, GREATER LONDON NW1 2DN, UNITED KINGDOM, United Kingdom ~72: NEL, Louis~ 33:GB ~31:2203745.1 ~32:17/03/2022

2024/02272 ~ Complete ~54:TANGENTIAL FLOW MATERIAL PROCESSING CHAMBER AND ASSOCIATED MATERIAL PROCESSING SYSTEM ~71:SEED TERMINATOR HOLDINGS PTY LTD, 12 EWEN STREET, KINGSCOTE, SOUTH AUSTRALIA 5223, AUSTRALIA, Australia ~72: BARR, James;BERRY, Nicholas, Kane~ 33:AU ~31:2021221797 ~32:25/08/2021

2024/02300 ~ Complete ~54:LPXC INHIBITORS AND USES THEREOF ~71:BLACKSMITH MEDICINES, INC., 10578 Science Center Drive, Suite 205, United States of America ~72: TENG, Min~ 33:US ~31:63/249,166 ~32:28/09/2021

2024/02278 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PREVENTING OR REDUCING THE RISK OF METABOLIC SYNDROME ~71:GARCÍA SADA, Fernando, Río de la Plata 309, Piso 3 Col. Del Valle, Mexico ~72: GARCÍA ALANIS, Eduardo;GOJÓN ROMANILLOS, Gabriel;GOJÓN ZORRILLA, Gabriel~ 33:US ~31:63/236,875 ~32:25/08/2021

2024/02298 ~ Complete ~54:DETERGENT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID CHRISTOPHER THORLEY;DAVID STEPHEN GRAINGER;NEIL STEPHEN BURNHAM~ 33:EP ~31:21203922.6 ~32:21/10/2021;33:EP ~31:21203927.5 ~32:21/10/2021;33:EP ~31:21203931.7 ~32:21/10/2021

- APPLIED ON 2024/03/22 -

2024/02303 ~ Provisional ~54:U-GO DEVICE ~71:AMAGHECHI CHRYXTEZ BISIAKU OKOKOH, 23 BELLEVUE STR, South Africa ~72: AMAGHECHI CHRYXTEZ BISIAKU OKOKOH~ 33:ZA ~31:ZA2024 ~32:20/03/2024

Application Number	Assignee	Assignor
2011/09487	ARUZE GAMING AMERICA INC.	UNIVERSAL ENTERTAINMENT CORP.
2011/09535	ARUZE GAMING AMERICA INC.	UNIVERSAL ENTERTAINMENT CORP.
2018/08009	VIELA BIO, INC.	HORIZON THERAPEUTICS IRELAND DAC
2010/08838	TARO BIOPHARMACEUTICALS, INC.	EPIRUS BIOPHARMACEUTICALS, INC.
2010/08838	EPIRUS BIOPHARMACEUTICALS, INC.	PRAXIS PRECISION MEDICINES, INC.
2013/05338	HUAWEI TECHNOLOGIES CO., LTD.	BEIJING JINGSHI INTELLECTUAL
		PROPERTY MANAGEMENT CO., LTD
2012/07172	HUAWEI TECHNOLOGIES CO., LTD.	BEIJING JINGSHI INTELLECTUAL PROPERTY MANAGEMENT CO., LTD

# ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)

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Application Number	Assignee	Assignor
2023/10378	SHANGHAI MEIYUE BIOTECH DEVELOPMENT CO., LTD.	NOVARTIS PHARMA AG
2023/10378	NOVARTIS PHARMA AG	NOVARTIS AG
2023/06785	10T HOLDINGS (PTY) LTD	IOT. NXT (PTY) LTD
2019/01972	10T HOLDINGS (PTY) LTD	IOT. NXT (PTY) LTD
2011/05199	EXFO SOLUTIONS SAS	ONTOLOGY-PARTNERS LTD.
2017/01418	UNIVERSITE BLAISE PASCAL CLERMONT FERRAND II	UNIVERSITE CLERMONT AUVERGNE
2007/00610	VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK NV	AGFA-GAVAERT NV
2022/10589	WATERSHED SOLAR, LLC AND WATERSHED GEOSYNTHETICS LLC	WATERSHED GEOSYNTHETICS LLC
2017/06599	BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC.	BOEHRINGER INGELHEIM VETMEDICA GMBH
2022/13596	SLLP 134 LIMITED	ENCOMARA LIMITED
2024/00747	UNIVERSITEIT GENT'S	UMICORE
2008/03694	KCI LICENSING INC.	3M INNOVATIVE PROPERTIES COMPANY
2008/09520	KCI LICENSING INC.	3M INNOVATIVE PROPERTIES COMPANY
2008/08552	KCI LICENSING INC.	3M INNOVATIVE PROPERTIES COMPANY
2009/06161	AKLOMA BIOSCIENCE AB	LICFOR BIOSCIENCE S.A.
2014/06192	MERIL INC.	BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC.
2014/06192	BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC.	BOEHRINGER INGELHEIM VETMEDICA GMBH
2019/00987	MOUDGIL, RAJEEV	DPI DAYLIGHTING PRIVATE LIMITED
2018/03296	IP RESERVE PTY LTD	TRED OUTDOORS LTD
2023/07860	MEDSHINE DISCOVERY INC.	USYNOVA PHARMACEUTICALS LTD.

Application Number	Assignee	Assignor
2021/07180	TIBET UNIVERSITY	XISANG ANIDO ECOLOGICAL TECHNOLOGY CO., LTD.
2013/02497	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	THYSSENKRUPP UHDE GMBH
2007/03198	ENDORECHERCHE INC.	MYRIEL PHARMACEUTICAL, LLC
2010/00874	ENDORECHERCHE INC.	MYRIEL PHARMACEUTICAL, LLC
2019/05930	GENENTECH, INC. AND ASCENDIS PHARMA A/S	ASCENDIS PHARMA A/S
2023/01757	LUYT, BENJAMIN	ITA SECURITY PRODUCTS AND SERVICES COMPANY (PTY) LTD
2018/08293	MOUDGIL, RAJEEV	DPI DAYLIGHTING PRIVATE LIMITED
2018/06463	VICRO MARKETING CC	HAMMON, ROGER
2023/07984	MARTRIN, ANTONIETTA PAMELA	THE MARTIN FAMILY TRUST
2019/06040	LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC	DANSTAR FERMENT AG
2019/06039	LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC	DANSTAR FERMENT AG
2021/08910	BIOHAVEN PHARMACEUTICAL HOLDING COMPANY LTD AND R.P. SCHERER TECHNOLOGIERS, LLC	PFIZER IRELAND PHARMACEUTICALS AND R.P. SCHERER TECHNOLOGIES, LLC
2023/03256	UNLOCKING DENTAL SOLUTIONS (PTY) LTD	MEINTJES, RALPH LANCELOT
2022/0625	CODEXIS, INC. AND SOCIETE DES PRODUITS NESTLE S.A.	SOCIETE DES PRODUITS NESTLE S.A.
2019/08547	AICURIS GMBH & CO.KG	AIC316 GMBH
2017/05519	ABBVIE BAHAMAS LTD.	ABBVIE IRELAND UNLIMITED COMPANY
2017/05519	ABBVIE IRELAND UNLIMITED COMPANY	ABBVIE MANUFACTURING MANAGEMENT UNLIMITED COMPANY
2021/09803	IZAK JAKOBUS JOHANNES BUYS AND CHRISTIAN JACOBUS SMIT	CHRISTIAN JACOBUS SMIT
2022/12793	BOEHRINGER INGELHEIM ANIMAL	BOEHRINGER INGELHEIM VETMEDICA
Application Number	Assignee	Assignor
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	HEALTH USA INC.	GMBH
2014/08536	GNOSIS S.P.A	LESAFFRE ET COMPAGNIE
2013/08457	GNOSIS S.P.A	LESAFFRE ET COMPAGNIE
2013/09701	TYCO FIRE & SECURITY GMBH	SENSORMATIC ELECTRONICS, LLC
2021/02737	HOSCH FÖRDERTECHNIK GMBH	CORNELIA KILL-FRECH
2017/02111	SCICLONE PHARMACEUTICALS INTERNATIONAL LTD	SCICLONE PHARMACEUTICALS INTERNATIONAL (SG) PTE.LTD.
2022/03718	BIOPHERO APS	FMC AGRICULTURAL SOLUTIONS A/S
2022/07269	BIOPHERO APS	FMC AGRICULTURAL SOLUTIONS A/S
2014/07420	PFENEX INC.	PELICAN TECHNOLOGY HOLDINGS, INC.
2019/07254	CYANOGUARD AG	CYANCO HOLDING CORP.
2020/07033	BAYER AKTIENGESELLSCHAFT	BOEHRINGER INGELHEIM INTERNATIONAL GMBH
2021/01661	GREEN CROSS LAB CELL CORPORATION AND MORPHOSYS AG	GC CELL CORPORATION AND MORPHOSYS AG
2020/08028	BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC.	BOEHRINGER INGELHEIM VETMEDICA GMBH
2006/09634	NOVARTIS AG	BAUSCH + LOMB IRELAND LIMITED
2021/10038	LOCKBODY THERAPEUTICS LTD	CENTESSA PHARMACEUTICALS (UK) LIMITED
2018/02140	METSO SWEDEN AB	METSO MINERALS OY
2018/06300	SONY GROUP CORPORATION	LUMOS HOLDINGS US ACQUISITION CO.
2021/10389	ANHUI POLYTECHNIC UNIVERSITY	WUHU GREEN FOOD INDUSTRIAL RESEARCH INSTITUTE COL., LTD.
2022/00578	DONGGUAN UNIVERSITY OF TECHNOLOGY	SHENZHEN YONGCHANG HEZE MANAGEMENT CONSULTING PARTNERSHIP (LIMITED PARTNERSHIP)

Application Number	Assignee	Assignor
2022/00800	DONGGUAN UNIVERSITY OF TECHNOLOGY	SHENZHEN YONGCHANG HEZE MANAGEMENT CONSULTING PARTNERSHIP (LIMITED PARTNERSHIP)
2021/10250	DONGGUAN UNIVERSITY OF TECHNOLOGY	SHENZHEN YONGCHANG HEZE MANAGEMENT CONSULTING PARTNERSHIP (LIMITED PARTNERSHIP)
2021/03675	LABOR BERLIN-CHARITÉ VIVANTES SERVICES GMBH	CHARITé-UNIVERSITÄTSMEDIZIN BERLIN KÖRPERSCHAFT DES Ö FFENTLICHENRECHTS
2019/06218	GUANGZHOU HUAZHEN PHARMACEUTICAL CO., LTD	HAINAN HUASONG PHARMACEUTICAL TECHNOLOGY., LTD.
2015/07574	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	THYSSENKRUPP UHDE GMBH
2014/05921	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	THYSSENKRUPP UHDE GMBH
2011/06511	ABBVIE BAHAMAS LTD.	ABBVIE IRELAND UNLIMITED COMPANY
2006/03823	ABBVIE BAHAMAS LTD.	ABBVIE IRELAND UNLIMITED COMPANY
2011/06511	ABBVIE IRELAND UNLIMITED COMPANY	ABBVIE MANUFACTURING MANAGEMENT UNLIMITED COMPANY
2023/05886	GENERAL ELECTRIC COMPANY	GENERAL ELECTRIC TECHNOLOGY GMBH
2021/09369	GENERAL ELECTRIC COMPANY	GENERAL ELECTRIC TECHNOLOGY GMBH
2013/08184	GENERAL ELECTRIC COMPANY	GENERAL ELECTRIC TECHNOLOGY GMBH
2018/06925	BIOVERATIV USA INC.	GENZYME CORPORATION
2011/04095	SN BIOTECH TECHNOLOGIES SP ZOO SPK	SN BIOTECH TECHNOLOGIES SP ZOO SPK(25%); WOZNICA ZENON(50%) AND CIECH SARZYNA S.A.(25%)
2021/09430	SIGFOX	UNABIZ
2011/08313	SIEMENS INDUSTRY INC., CATEPILLAR GLOBAL MINING LLC	SIEMENS INDUSTRY INC., CATEPILLAR GLOBAL MINING LLC AND INNOMOTICS

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Application Number	Assignee	Assignor
	AND SIEMENS AKTIENGESELLSCHAFT	GMBH
2017/05563	J. VAN BEUGEN BEHEER B.V. AND BOREALIS AG	WINN & COALES INTERNATIONAL LIMITED AND BOREALIS AG
2016/00127	RUGGLI PROJECTS AG	RUGGLI AG
2017/07805	MERIAL INC.	BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC.
2020/07224	IMARA INC.	CARDURION PHARMACEUTICALS, INC.
2021/07544	IMARA INC.	CARDURION PHARMACEUTICALS, INC.
2021/06509	BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC.	BOEHRINGER INGELHEIM VETMEDICA GMBH
2020/07032	BAYER AKTIENGESELLSCHAFT	BOEHRINGER INGELHEIM INTERNATIONAL GMBH
2011/03232	UNILIN, BV	FLOORING INDUSTRIES LIMITED, SARL
2015/05145	SESEN BIO, INC.	BUZZARD PHARMACEUTICALS AB

# CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2023/07944	VIGILENZ MEDICAL DEVICES SDN. BHD., A BACTIGUARD COMPANY	BACTIGUARD (SOUTH EAST ASIA) SDN, BHD.
2019/03928	KEMPHARM, INC.	ZEVRA THERAPEUTICS, INC.
2013/08766	KEMPHARM, INC.	ZEVRA THERAPEUTICS, INC.
2015/03814	CADILA HEALTHCARE LIMITED	ZYDUS LIFESCIENCES LIMITED
2013/05066	CADILA HEALTHCARE LIMITED	ZYDUS LIFESCIENCES LIMITED
2019/08614	NIPD GENETICS PUBLIC COMPANY LIMITED	MEDICOVER PUBLIC COMPANY LTD
2021/08253	PERI AG	PERI SE
2021/08256	PERI AG	PERI SE
2023/05702	QURA S.R.L.	SPECTRUM MEDICAL SRL

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2019/06993QURA S.R.L.SPECTRUM MEDICAL SRL2023/04867EURENCOEURENCOFRANCE SAS2018/04121KELLOGG COMPANYKELLANOVA2015/02684RAYNER SURGICAL (IRELAND) LIMITEDTHE MILL ENTERPRISE HUB2021/08258PERI AGPERI SE2013/02497THYSSENKRUPP INDUSTRIAL SOLUTIONS GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS AG2013/02497THYSSENKRUPP RESOURCE TECHNOLOGIES GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS GMBH
2023/04867EURENCOEURENCOFRANCE SAS2018/04121KELLOGG COMPANYKELLANOVA2015/02684RAYNER SURGICAL (IRELAND) LIMITEDTHE MILL ENTERPRISE HUB2021/08258PERI AGPERI SE2013/02497THYSSENKRUPP INDUSTRIAL SOLUTIONS GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS AG2013/02497THYSSENKRUPP RESOURCE TECHNOLOGIES GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS GMBH
2018/04121KELLOGG COMPANYKELLANOVA2015/02684RAYNER SURGICAL (IRELAND) LIMITEDTHE MILL ENTERPRISE HUB2021/08258PERI AGPERI SE2013/02497THYSSENKRUPP INDUSTRIAL SOLUTIONS GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS AG2013/02497THYSSENKRUPP RESOURCE TECHNOLOGIES GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS GMBH
2015/02684RAYNER SURGICAL (IRELAND) LIMITEDTHE MILL ENTERPRISE HUB2021/08258PERI AGPERI SE2013/02497THYSSENKRUPP INDUSTRIAL SOLUTIONS GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS AG2013/02497THYSSENKRUPP RESOURCE TECHNOLOGIES GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS GMBH
LIMITED2021/08258PERI AG2013/02497THYSSENKRUPP INDUSTRIAL SOLUTIONS GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS AG2013/02497THYSSENKRUPP RESOURCE TECHNOLOGIES GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS GMBH
2021/08258PERI AGPERI SE2013/02497THYSSENKRUPP INDUSTRIAL SOLUTIONS GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS AG2013/02497THYSSENKRUPP RESOURCE TECHNOLOGIES GMBHTHYSSENKRUPP INDUSTRIAL SOLUTIONS GMBH
2013/02497       THYSSENKRUPP INDUSTRIAL SOLUTIONS GMBH       THYSSENKRUPP INDUSTRIAL SOLUTIONS AG         2013/02497       THYSSENKRUPP RESOURCE TECHNOLOGIES GMBH       THYSSENKRUPP INDUSTRIAL SOLUTIONS GMBH
2013/02497       THYSSENKROPP INDUSTRIAL       THYSSENKROPP INDUSTRIAL         SOLUTIONS GMBH       SOLUTIONS AG         2013/02497       THYSSENKRUPP RESOURCE       THYSSENKRUPP INDUSTRIAL         TECHNOLOGIES GMBH       SOLUTIONS GMBH
2013/02497 THYSSENKRUPP RESOURCE THYSSENKRUPP INDUSTRIAL TECHNOLOGIES GMBH SOLUTIONS GMBH
2013/02497       THYSSENKRUPP RESOURCE       THYSSENKRUPP INDUSTRIAL         TECHNOLOGIES GMBH       SOLUTIONS GMBH
TECHNOLOGIES GMBH SOLUTIONS GMBH
2022/05756 CINCLUS PHARMA HOLDING AB CINCLUS PHARMA HOLDING AB (PUBL)
2009/07316 INFECTIOUS DISEASE RESEARCH ACCESS TO ADVANCED HEALTH
INSTITUTE INSTITUTE
2018/08422 WEIR MINERALS AUSTRALIA LTD WEIR MINERALS SHARED SERVICES
(PTY) LTD
2015/05145 ELEVEN BIOTHERAPEUTICS, INC. SESEN BIO, INC.
2011/03232 UNILIN, BVBA UNILIN, BV
2012/00100 IDE TECHNOLOGIES LTD IDE WATER ASSETS LTD
2014/05245 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY
2022/12234 XIN IIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY
TECHNOLGY CO I TD CO I TD
2022/12507 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY
TECHNOLGY CO., LTD. CO., LTD.
2022/06430 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY
TECHNOLGY CO., LTD. CO., LTD.
2022/06431 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY
TECHNOLGY CO., LTD. CO., LTD.
2022/06840 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY TECHNOLGY CO., LTD. CO., LTD.
2022/06878 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY
TECHNOLGY CO., LTD. CO., LTD.
2022/06893 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY
TECHNOLGY CO., LTD. CO., LTD.
2022/07276 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY
TECHNOLGY CO., LTD. CO., LTD.
2022/07603 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY
TECHNOLGY CO., LTD.
2022/08018 XINJIANG GOLDWIND SCIENCE & GOLDWIND SCIENCE & TECHNOLOGY

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Application Number	In the name of	New name
	TECHNOLGY CO., LTD.	CO., LID.
2022/11307	XINJIANG GOLDWIND SCIENCE &	GOLDWIND SCIENCE & TECHNOLOGY
	TECHNOLGY CO., LTD.	CO., LTD.
2022/06382	XINJIANG GOLDWIND SCIENCE &	GOLDWIND SCIENCE & TECHNOLOGY
	TECHNOLGY CO., LTD.	CO., LTD.
2022/12961	FUCHS PETROLUB SE	FUCHS SE
2023/00219	KEMPHARM DENMARK A/S	ZEVRA DDENMARK A/S
2023/10564	NEW DRY POWDER COMPOSITION	LABORATOIRES S.M.B.
	OF TIOTROPIUM FOR INHALATION	
2023/10564	NEW DRY POWDER COMPOSITION	LABORATOIRES S.M.B.
	OF TIOTROPIUM FOR INHALATION	
2020/03174	METSO SWEDEN AB	METSO MINERALS OY
2020/03174	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2020/03174	METSO OUTOTEC FINLAND OY	METSO FINLAND OY

# PATENT LICENSES IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64

No records available

# PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Withdrawn	Date
2022/02752	WITHDRAWN	23/06/2023
2023/07740	WITHDRAWN	15/01/2024

# APPLICATION FOR THE RESTORATION OF A LAPSED PATENT UNDER SECTION 47 OF THE ACT

THE PATENTS ACT, No. 57 OF 1978

Notice is hereby given that FRANCOIS, BERTHAULT, whose address for service is DENNEMEYER &

ASSOCIATES, JOHANNESBURG has applied to the registrar for the restoration of Patent No 2015/02820

entitled DEVICE FOR PACKAGING AND COOKING POPCORN AND AUTOMATED METHOD FOR CLOSING

**SUCH A DEVICE**, dated **26/10/2012**, which lapsed on **26/10/2022** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that CHINYANGA, Bruce whose address for service is DT DU PREEZ ATTORNEYS INC, PRETORIA has applied to the registrar for the restoration of Patent No 2020/04671 entitled TARPAULIN, dated 29/07/2020, which lapsed on 29/07/2023 owing to the non-payment of the prescribed renewal fee. Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **KONINKLIJKE PHILIPS N.V**, whose address for service is **ADAMS & ADAMS**, **PRETORIA** has applied to the registrar for the restoration of Patent No 2017/08366 entitled **IMPROVED FREQUENCY BAND EXTENSION IN AN AUDIO SIGNAL DECODER**, dated **11/12/2017**, which lapsed on **04/02/2020** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD, whose address for service is **TABERER ATTORNEYS INC, CAPE TOWN** has applied to the registrar for the restoration of Patent No **2019/06649** entitled **DEVICE FOR MONITORING MOVEMENT IN A ROCK FACE**, dated **09/10/2019**, which lapsed on **09/10/2022** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **MICHAEL PAPADOPOULOS** whose address for service is **SPOOR & FISHER**, **CENTURION** has applied to the registrar for the restoration of Patent No **2018/01998** entitled **SYSTEM AND METHOD FOR FLUID STERILIZATION**, dated **26/08/2016**, which lapsed on **26/08/2022** owing to the nonpayment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **MALONEY KENNETH ROBERT** whose address for service is **RICHARDS ATTORNEYS**, **ROODEPOORT** has applied to the registrar for the restoration of Patent No 2011/06310 entitled **THREE-DIMENSIONAL WORKPIECE**, dated 25/08/2011, which lapsed on 25/08/2014 owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

# THE PATENTS ACT, No. 57 OF 1978

# VOLUNTARY SURRENDER OF A PATENT UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

No records available

# APPLICATIONS TO AMEND SPECIFICATION

# THE PATENTS ACT, 1978

## APPLICATIONS TO AMEND SPECIFICATION

Applicant: MICROSOFT TECHNOLOGY LICENSING, LLC of ONE MICROSOFT WAY, REDMOND, WASHINGTON, 98052-6399, UNITED STATES OF AMERICA. Request permission to amend the specification of letters patent no: 2020/06250 of 8 OCTBER 2020 for EXECUTION CONTROL WITH CROSS-LEVEL TRACE MAPPING

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: PARAVIR LIMITED SIMPSONS FARM, PENTLOW CO10 7JT SUDBURY, SUFFOLK. Request permission to amend the specification of letters patent no: 2022/12505 of 16 NOVEMBER 2022 for ANTIMICROBIAL MATERIAL.

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: STELLENBOSCH UNIVERSITY ADMIN B, VICTORIA STREET 7600 STELLENBOSCH, WESTERN CAPE PROVINCE. Request permission to amend the specification of letters patent no: 2020/04014 of 01 JULY 2020 for METHOD FOR SEPARATING POLYPHENOLIC COMPOUNDS FROM BIOMASS AND RESULTING PRODUCTS.

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: NOVO NORDISK A/S NOVO ALLE, DK-2880, BAGSVAERD. Request permission to amend the specification of letters patent no: 2011/04599 of 22 JUNE 2011 for ANTIBODIES AGAINST TISSUE FACTOR PATHWAY INHIBITOR

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: BIOREM ENGINEERING SA RUE DES CÈDRES, 9 1920 MARTIGNY. Request permission to amend the specification of letters patent no: 2021/01067 of 16 FEBRUARY 2021 for CITRATE PERHYDRATES AND USES THEREOF.

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: FABCHEM MINING (PTY) LIMITED INDUSTRIAL PARK, 58 WATT ROAD, NEW ERA 1559 SPRINGS. Request permission to amend the specification of letters patent no: 2021/03023 of 22 OCTBER 2019 for APPARATUS AND METHOD FOR TESTING INSTALLATION OF A REINFORCING ANCHOR.

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: NOVO NORDISK HEALTH CARE AG The Circle 32/38, 8058 Zurich-Flughafen. Request permission to amend the specification of letters patent no: 2012/05386 of 18 JULY 2012 for GROWTH HORMONES WITH PROLONGED IN-VIVO EFFICACY.

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**

# 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

# 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: 2017/06630. 22: 2017/10/03. 43: 2024/03/14 51: G03G 71: CANON KABUSHIKI KAISHA 72: UNEME, Tetsushi, SATO, Masaaki 33: JP 31: 2015-115199 32: 2015-06-05 33: JP 31: 2016-098243 32: 2016-05-16 54: CARTRIDGE, PROCESS CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS

00: -

A process cartridge (P) detachably mountable to an electrophotographic image forming apparatus including a main assembly side drive transmission member (62) and a main assembly side urging member (80), the cartridge including a rotatable photosensitive drum (4); a rotatable developing roller (6) for developing a latent image formed on the drum, the developing roller contactable to and spaceable from the drum; an urging force receiving portion (45a) for receiving an urging force from the urging member to space the roller from the drum; a cartridge side drive transmission portion (74)

capable of coupling with the main assembly side drive transmission member to receive a rotational force for rotating the roller; a releasing member (72) capable of urging the main assembly side drive transmission member to decouple the cartridge side drive transmission member from the main assembly side drive transmission member by the urging force receiving portion



21: 2017/06745. 22: 2017/10/06. 43: 2024/02/06 51: A61K; C07K; A61P 71: ADC THERAPEUTICS SA, MEDIMMUNE LIMITED

72: VAN BERKEL, Patricius Hendrikus Cornelis, HOWARD, Philip Wilson 33: GB 31: 1506402.5 32: 2015-04-15

# 54: SITE-SPECIFIC ANTIBODY-DRUG CONJUGATES

Site-specific antibody-drug conjugates are described, in particular conjugates comprising pyrrolobenzodiazepines (PBDs) having a labile protecting group in the form of a linker. The site of conjugation, along with modification of the antibody moiety, allows for improved safety and efficacy of the ADC.



21: 2018/00029. 22: 2018/01/03. 43: 2024/01/19 51: A61K; A61Q

71: AOBIOME LLC

72: LARRY WEISS, DAVID R WHITLOCK 33: US 31: 62/188,343 32: 2015-07-02 33: US 31: 62/189,105 32: 2015-07-06 54: MICROBIOME-COMPATIBLE COSMETICS 00: -

The systems and methods of the disclosure provide, inter alia, cosmetic products, e.g., finished cosmetic products that may be considered to be "biomefriendly" or "biome-compatible." The systems and methods of the disclosure may provide for use of cosmetic products, e.g., finished cosmetic products, that may be used in combination with bacteria, e.g., non-pathogenic bacteria, e.g., ammonia oxidizing bacteria, which may be used in the form of a preparation or composition to be applied to a subject.

21: 2018/03333. 22: 2018/05/18. 43: 2024/01/19 51: C07C 71: HALDOR TOPSØE A/S

## 72: OSMUNDSEN, CHRISTIAN MÅRUP, TAARNING, ESBEN, LARSEN, MORTEN BOBERG 33: DK 31: PA 2016 00006 32: 2016-01-07 54: PROCESS FOR THE PREPARATION OF ETHYLENE GLYCOL FROM SUGARS 00: -

A process for the preparation of ethylene glycol and other  $C_1$ - $C_3$ hydroxy compounds comprising the steps of hydrogenating a composition comprising  $C_1$ - $C_3$ oxygenate compounds in the gas phase in the presence of a copper on carbon catalyst.



21: 2018/03908. 22: 2018/06/12. 43: 2024/01/19

- 51: A01K; A61D; A61M
- 71: TARGAN Inc.

72: KARIMPOUR, Ramin

33: US 31: 62/254,737 32: 2015-11-13

54: AUTOMATIC SYSTEM AND METHOD FOR INJECTING A SUBSTANCE INTO AN ANIMAL 00: -

A system and method for automatically delivering a substance to an animal or fish including a positioning system that positions each animal singularly and a sensor that detects the location of a predetermined targeted area on the animal. The system further includes a delivery device for delivering a substance to the targeted area. The position of the delivery device may be adjustable. The delivery device is in communication with the sensor. The delivery device adjusts its position in response to the data received from the sensor and delivers a substance to the targeted area.



21: 2018/04587. 22: 2018/07/10. 43: 2024/01/19 51: C07C; B01J; B01D

71: UOP LLC

72: LIPPMANN, MATTHEW, LAFYATIS, DAVID S, NAFIS, DOUGLAS A, DETRICK, KURT 33: US 31: 62/268,865 32: 2015-12-17 54: IONIC LIQUID CATALYST TREATING SYSTEM

00: -

A process removing ionic liquid from a process stream is described. The process stream is introduced into a coalescer to form an ionic liquid stream and a first treated process stream which has less ionic liquid than the process stream. The first treated process stream is introduced into a separator to form a second treated process stream. The second treated process stream has less ionic liquid than the first treated process stream. The separator is selected from a filtration zone comprising sand or carbon, an adsorption zone, a scrubbing zone, an electrostatic separation zone, or combinations thereof.



# 21: 2018/05358. 22: 2018/08/10. 43: 2024/01/19 51: A61K; A61P; C07D; C07K

71: Grünenthal GmbH

72: KÜHNERT, Sven, KOENIGS, René Michael, JAKOB, Florian, KLESS, Achim, RATCLIFFE, Paul, JOSTOCK, Ruth, KOCH, Thomas, LINZ, Klaus, SCHRÖDER, Wolfgang, SCHIENE, Klaus, WEGERT, Anita

33: EP(DE) 31: 16 151 014.4 32: 2016-01-13 54: 3-(CARBOXYMETHYL)-8-AMINO-2-OXO-1,3-DIAZA-SPIRO-[4.5]-DECANE DERIVATIVES 00: -

The invention relates to 3-(carboxymethyl)-8-amino-2-oxo-I,3-diaza- spiro-[4.5]-decane derivatives of general formula (I), their preparation and their use in medicine, particularly in the treatment of pain.



21: 2018/06766. 22: 2018/10/11. 43: 2024/01/31 51: A61K; A61P

71: CERENO SCIENTIFIC AB

72: GUSTAFSSON, Nils Ove, MÅRTENSSON, Hans Roger Marcus, BERGH, Niklas, SÄLJÖ, Jonas Faijerson, JERN, Sverker

33: GB 31: 1606197.0 32: 2016-04-08 54: DELAYED RELEASE PHARMACEUTICAL

# FORMULATIONS COMPRISING VALPROIC ACID, AND USES THEREOF

00: -

There is provided herein a pharmaceutical formulation having one or more component comprising valproic acid (VPA) and/or a pharmaceutically acceptable salt thereof; and one or more secondary acid, and optionally comprising one or more pharmaceutically acceptable excipient. There is also provided uses of such formulations.

21: 2018/08140. 22: 2018/11/30. 43: 2024/01/17 51: A61K; C12N 71: ADICET THERAPEUTICS, INC.

72: JAKOBOVITS, AYA, FOORD, ORIT, LIN, ANDY AN-DEH, SANTAGUIDA, MARIANNE THERESA, DESAI, RADHIKA CHETAN, JING, YIFENG FRANK, SATPAYEV, DAULET KADYL, LI, YAN 33: US 31: 62/335,572 32: 2016-05-12 54: METHODS FOR SELECTIVE EXPANSION OF GD T-CELL POPULATIONS AND COMPOSITIONS THEREOF

# 00: -

The present invention relates to methods for the selective expansion of  $\gamma\delta$  T-cell population(s), compositions and admixtures thereof and methods for using the same as a therapeutic. Non-engineered and engineered, enriched  $\gamma\delta$  T-cell populations of the disclosure are useful in the treatment of various cancers, infectious diseases, and immune disorders.



# 21: 2019/02141. 22: 2019/04/05. 43: 2024/01/15 51: C12N

71: GENETHON, INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), UNIVERSITE D'EVRY VAL D'ESSONNE, SORBONNE UNIVERSITE, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), ASSOCIATION INSTITUT DE MYOLOGIE 72: MINGOZZI, Federico, RONZITTI, Giuseppe 33: EP 31: 16306150.0 32: 2016-09-12 33: EP 31: 16306187.2 32: 2016-09-16 54: ACID-ALPHA GLUCOSIDASE VARIANTS AND USES THEREOF

00: -

The present invention relates to variants of acidalpha glucosidase and uses thereof.

21: 2019/03446. 22: 2019/05/30. 43: 2024/01/19 51: A01C; A01G 71: TIGERCAT INDUSTRIES INC. 72: SIMATOVIC, David 33: US 31: 62/427,212 32: 2016-11-29 33: US 31: 62/579,466 32: 2017-10-31 54: APPARATUS AND METHOD FOR PLANTING TREES

00: -

A method and system for planting seedlings including a seedling handling system, a seedling chute system and a planting head. The method includes retrieving a row of seedlings and then delivering the row of seedlings to the planting head for individual planting of the seedlings.



21: 2019/04083. 22: 2019/06/24. 43: 2024/01/19 51: C08G 71: BASF SE 72: OGONOWSKI, Joseph, JANG, Chulhoon, BOWORNPRASIRTKUL, Achara 33: US 31: 62/439,186 32: 2016-12-27 54: POLYURETHANE FOAM ARTICLE AND METHOD OF FORMING SAME 00: -A polyurethane foam article comprises the reaction

product of an isocyanate component and isocyanate-reactive composition in the presence of a blowing agent. The isocyanate component includes an isocyanate prepolymer comprising the reaction product of a first polyether polyol and a methylene diphenyl diisocyanate. The isocyanate-reactive composition comprises a second polyether polyol having secondary terminal hydroxyl groups and an amine-initiated catalytic polyether polyol having primary hydroxyl groups. A method of making the polyurethane foam article comprises the steps of reacting the first polyether polyol and methylene diphenyl diisocyanate to form the isocyanate prepolymer and reacting the isocyanate prepolymer with the isocyanate-reactive composition in the presence of the blowing agent to form the polyurethane foam article.

21: 2019/04648. 22: 2019/07/16. 43: 2024/01/15 51: C07C 71: BASF SE 72: LANG, Ortmund, METZEN, Bernd, HECHLER, Claus 33: EP 31: 16205968.7 32: 2016-12-21 54: METHOD FOR OBTAINING PURE 2-ETHYLHEXYL ACRYLATE OR PURE 2-PROPYLHEPTYL ACRYLATE OR PURE 2-PROPYLHEPTYL ACRYLATE FROM THE CORRESPONDING RAW ALKYL ACRYLATE BY DISTILLATION 00: -

The invention relates to a method for obtaining pure 2-ethylhexyl acrylate or pure 2-propylheptyl acrylate from the corresponding raw alkyl acrylate by distillation, characterized in that the method is carried out in a dividing wall column (1) having dividing built-in components and an evaporator (7), in which dividing wall column a dividing wall (8) is arranged in the column longitudinal direction in such a way that an upper common column region (9), a lower common column region (14), a feed part (10, 12) having a side feed point (2), and a removal part (11, 13) having a side removal point (3) are formed, in that the column has a number of theoretical separating stages in the range of 10 to 60, wherein the number of theoretical separating stages of the dividing wall column (1) refers to the sum of the theoretical separating stages in the common upper column region (9), the common lower column region (14) and the feed part (10, 12), the side feed point (2) for the corresponding raw alkyl acrylate is arranged at a theoretical separating stage in the region beginning at least two theoretical separating stages above the bottommost theoretical separating stage and ending at least two theoretical separating stages below the topmost theoretical separating stage, the side removal point (3) for the pure 2ethylhexyl acrylate or pure 2-propylheptyl acrylate is arranged at a theoretical separating stage in the region beginning at least two theoretical separating stages above the bottommost theoretical separating stage and ending at least two theoretical separating stages below the topmost theoretical separating stage, and the dividing wall (8) is arranged in the column in the region beginning at least one theoretical separating stage above the bottommost theoretical separating stage and ending at least one theoretical separating stage below the topmost theoretical separating stage, wherein the liquid amount ratio at the upper end of the dividing wall (8) to the enriching section (10) and to the stripping section (11) of the column is set in a range of 1:0.2 to 1:5.

21: 2019/06062. 22: 2019/09/13. 43: 2024/01/15 51: G02C 71: UVEX ARBEITSSCHUTZ GMBH 72: KÜHNLEIN, Florian, ANGEBRANDT, Helena, WIEGLER, Markus, JASCHKE, Simon, KREITSCHMANN, Tobias

# 33: DE 31: 10 2017 204 612.0 32: 2017-03-20 54: SPECTACLES

## 00: -

The invention relates to spectacles comprising a lens arrangement (1) having two lateral spectacle temple bearing arrangements (6). Each spectacle temple bearing arrangement (6) has a first hinge shoulder (7) having a first bearing opening (9) and a second hinge shoulder (8) having a second bearing opening (10) and at least one bar body insertion opening (11) formed in the first or second hinge shoulder (7, 8). The spectacles additionally comprise two spectacle temples (2), which each comprise a spectacle temple main body (15) and a bearing pin (19) connected integrally therewith, which bearing pins in the assembled state are pivotably connected to the first and second bearing openings (9, 10) of the spectacle temple bearing arrangement. Each earpiece arm (2) also has at least one bar body (22), which in the assembled state is arranged between the hinge shoulders (7, 8) of the earpiece arm bearing arrangements (6) and, in a pivoted position of each earpiece arm (2) different from an earpiece arm assembly position, holds said earpiece arms (2) and the lens arrangement (1) together in a locking manner.



21: 2019/06269. 22: 2019/09/23. 43: 2024/02/21 51: A61K; C07D; A61P 71: ARGONAUT THERAPEUTICS LIMITED 72: MORLEY, Andrew, MILLER, Rebecca, LA THANGUE, Nicholas 33: GB 31: 1704327.4 32: 2017-03-17 54: COMPOUNDS USEFUL IN THE TREATMENT OR PREVENTION OF A PRMT5-MEDIATED DISORDER 00: -

The present disclosure relates to compounds suitable for the inhibition of protein arginine methyltransferase (PRMT), in particular PRMT5. These compounds may be for use as therapeutic agents, in particular, agents for use in the treatment and/or prevention of proliferative diseases, such as cancer.

21: 2019/06982. 22: 2019/10/23. 43: 2024/01/15

51: C08K

71: BASF SE

72: MUELLER, Daniel, HERBST, Heinz, WEYLAND, Tania

33: EP 31: 17163379.5 32: 2017-03-28 54: LIGHT STABILIZER MIXTURE 00: -

A stabilizer mixture containing a sterically hindered amine light stabilizer and a triazine UV absorber in a specific ratio.

21: 2019/07709. 22: 2019/11/21. 43: 2024/01/15 51: A23L

71: KERRY LUXEMBOURG S.À.R.L.

72: TORAASON, Joseph, LANDAY, Richard 33: US 31: 62/491,630 32: 2017-04-28

54: LIQUID SMOKE REACTION PRODUCTS

Liquid smoke reaction products are prepared according to a process wherein a liquid smoke composition and an amino acid are combined to form a reaction solution that is subsequently heated. The resultant liquid smoke reaction products exhibit unique flavor, color, and aroma profiles, as well as excellent properties, such as improved adhesion to protein-based products. Methods for preparing the liquid smoke reaction products, the resultant liquid smoke reaction products, as well as applications of the liquid smoke reaction products in food and beverage products are disclosed.

21: 2019/08434. 22: 2019/12/18. 43: 2024/01/15 51: B03D

71: BASF SE 72: VILLANUEVA BERINDOAGUE, Adrian, Mauricio, MICHAILOVSKI, Alexej, DICKIE, Scott, Alexander, CHIPFUNHU, Daniel 33: EP 31: PCT/EP2017/062640 32: 2017-05-24 54: ALKYLATED TRIPHENYL

PHOSPHOROTHIONATES AS SELECTIVE METAL SULPHIDE COLLECTORS 00: - The present invention is directed to a method for selectively recovering a sulphide mineral from an ore applying a collector being an alkylated triphenyl phosphorothionate. Further, the present invention is directed to the use of said alkylated triphenyl phosphorothionates to separate a target mineral from iron sulphide and/or silicate gangue.

21: 2020/03505. 22: 2020/06/11. 43: 2024/01/18 51: H04W H04L 71: NOKIA TECHNOLOGIES OY 72: KOSKINEN, Jussi-Pekka, KOSKELA, Jarkko, HENTTONEN, Tero 54: BWP HANDLING IN IDLE MODE AND INACTIVE MODE

It is provided a method, comprising monitoring if an information on a limitation of a network bandwidth part is received from a cell;basing a decision on the information on the limitation and a capability of a terminal to support a terminal bandwidth part if the information on the limitation is received, wherein the decision is about at least one of whether or not the terminal camps on the cell and whether or not the terminal reselects the cell;instructing the terminal on the at least one of the camping on the cell and the reselecting the cell based on the decision.



21: 2020/03673. 22: 2020/06/18. 43: 2024/01/15 51: C12Q G01N 71: THE UNIVERSITY OF WESTERN AUSTRALIA 72: KEELAN, Jeffrey, PAYNE, Matthew, Scott 33: AU 31: 2017904748 32: 2017-11-24 33: AU 31: 2018903531 32: 2018-09-20 54: INFECTION-RELATED PRETERM BIRTH DIAGNOSTIC METHOD 00: -

A method to determine if a pregnant woman is at risk of infection-associated spontaneous pre- term birth (sPTB), the method comprising the steps of: b) testing a sample of vaginal fluid for the presence of

the following bacteria: iv) Ureaplasma parvum genotype SV3 and/or Ureaplasma parvum genotype SV6; v) Gardnerella vaginalis; and vi) Lactobacillus iners wherein the presence of the bacteria indicates that the subject is at risk of sPTB.

21: 2020/03905. 22: 2020/06/26. 43: 2024/01/08 51: A61K; B41M

71: Laxxon Medical AG, Exentis Knowledge GmbH 72: SCHNEEBERGER, Prof. Dr. Achim, KÜHNE, Klaus, KERSCHBAUMER, Helmut, VASIC, Srdan 54: METHOD FOR PRODUCING A DRUG DELIVERY SYSTEM

#### 00: -

The present invention relates to a method for producing a drug delivery system. The method comprises the steps of screen-printing a base paste, and curing the base paste. Furthermore, the method comprises the steps of screen-printing a first paste separate to the base paste, and curing the first paste.



- 21: 2020/04343. 22: 2020/07/15. 43: 2024/01/15 51: A61K A61P
- 71: NANOBIOTIX

72: POTTIER, Agnès, LEVY, Laurent, MEYRE, Marie-Edith

33: EP 31: 17306831.3 32: 2017-12-19 54: NANOPARTICLES FOR USE IN ENHANCING BRAIN PERFORMANCES OR IN TREATING STRESS

00: -

The present invention relates to the medical field, in particular to the enhancement of brain performances and for the treatment of pathological stress. More specifically the present invention relates to a nanoparticle or nanoparticles' aggregate for use in enhancing brain performances or in prevention or treatment of pathological stress in a subject without exposure of the nanoparticle or nanoparticles' aggregate to an electric field, and preferably without exposure thereof to any other external activation source, wherein the nanoparticle's or nanoparticles'

aggregate's material is selected from a conductor material, a semiconductor material, an insulator material with a dielectric constant #ijk equal to or above (200), and an insulator material with a dielectric constant #ijk equal to or below (100). It further relates to compositions and kits comprising such nanoparticles and/or nanoparticles' aggregates as well as to uses thereof without exposure thereof to an electric field, and preferably without exposure thereof to any other external activation source such as a light source, a magnetic field, or an ultrasound source.

21: 2020/05556. 22: 2020/09/08. 43: 2024/02/06 51: A61K; C07K; C12N; A61P 71: POSEIDA THERAPEUTICS, INC. 72: OSTERTAG, Eric, SHEDLOCK, Devon 33: US 31: 62/639,978 32: 2018-03-07 33: US 31: 62/745,151 32: 2018-10-12 33: US 31: 62/783,140 32: 2018-12-20 54: CARTYRIN COMPOSITIONS AND METHODS FOR USE

#### 00: -

Disclosed are Centryin chimeric antigen receptors (CARTyrins), CARTyrin transposons encoding CARTyrins of the disclosure, cells modified to express CARTyrins of the disclosure, as well as methods of making and methods of using the same for adoptive cell therapy. In preferred embodiments, CARTyrins of the disclosure specifically bind to a sequence of prostate specific membrane antigen (PSMA).



21: 2020/06707. 22: 2020/10/28. 43: 2024/01/11 51: B65G

# 71: INNOVA PATENT GMBH

72: SANDHOLZER, Udo, BERCHTOLD, Thomas 33: AT 31: A50275/2018 32: 2018-04-04 54: VERTICAL CONVEYOR 00: -

According to the invention, in order to be able to create a vertical conveying section (9) of a vertical conveyor (1), with support rolls (21) on the conveyor belt (4) that roll on support elements (22), which is low maintenance and has a small cross-sectional area, a number of vertical support elements (31, 32) is arranged in a vertical conveying section (9) of the vertical conveyor (1) on either side of the top belt (11) and/or of the bottom belt (12) of the conveyor belt (4), first support rolls (2T) and second support rolls (21") are arranged adjacent to one another in the longitudinal direction (x) on the conveyor belt (4) offset against one another by a transverse offset (V) and the first support rolls (2T) and second support rolls (21") roll on the number of support elements (31, 32), so that the conveyor belt (4) in the vertical conveying section (9) deflects in the direction of the transverse offset (V) as the first support rolls (2T) and second support rolls (21") roll against the number of support elements (31, 32) and the first support rolls (2T) and second support rolls (21") thereby press against the number of support elements (31, 32).



21: 2020/06713. 22: 2020/10/28. 43: 2021/07/09 51: A61F

## 72: HUGHETT, James David, REHM, Eric 33: US 31: 62/665,331 32: 2018-05-01 54: FLUID COLLECTION DEVICES, RELATED SYSTEMS, AND RELATED METHODS 00: -

In an embodiment, a fluid collection device includes a fluid impermeable barrier that at least partially defines a chamber. The fluid impermeable barrier also defines an opening extending therethrough that is configured to be positioned adjacent to a female urethra or have a male urethra positioned therethrough. The fluid collection device also includes a channel extending between an inlet and outlet thereof. The inlet is configured to be in fluid communication with a gas source and the outlet is configured to be in fluid communication with a fluid storage container. The outlet is positioned downstream from the inlet. The. The channel also defines at least one aperture or passageway therein that allows an interior of the channel to be in fluid communication with the rest of the chamber.



21: 2020/06715. 22: 2020/10/28. 43: 2021/07/09 51: A61F

71: PUREWICK CORPORATION

72: AUSTERMANN, Nick, GLITHERO, Jason Iain, JOHANNES, Ashley Marie 33: US 31: 62/665,321 32: 2018-05-01 54: FLUID COLLECTION DEVICES, SYSTEMS,

# AND METHODS

Examples relate to systems, devices, and methods for attaching a fluid collection device to a user or removing fluid collected from a user in the e fluid collection device using a vacuum source operably coupled thereto. The fluid collection devices include urine collection devices shaped to complement the female anatomy near the urethra, attach to the user with one or more flanges, and the vacuum source is operably coupled to the fluid collection device via one or more sections of conduit.



21: 2020/06717. 22: 2020/10/28. 43: 2021/07/09 51: A61F

71: PUREWICK CORPORATION

72: GLITHERO, Jason Iain, JOHANNES, Ashley Marie, KNAPP, Tracey, MEYER, Andrew, MORNHINWEG, David

33: US 31: 62/665,335 32: 2018-05-01 54: FLUID COLLECTION GARMENTS 00: -

Examples relate to garments, systems, and methods for fluid collection or removing fluids from a fluid collection device. The fluid collection garments include a fabric body configured to be worn on the pelvis of a wearer, where the fabric body has a port thereon or therein, where the port holds a fluid collection device therein. The fluid collection device is shaped to complement the female anatomy or male anatomy near the urethra. The fluid collection device can include a vacuum source in fluid communication with the fluid collection device via one or more sections of conduit.





21: 2020/07083. 22: 2020/11/13. 43: 2024/01/18 51: B60J

71: ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD

72: VOSS, Michael

33: ZA 31: 2019/07353 32: 2019-11-06 54: PANEL JOINING ARRANGEMENT FOR A VEHICLE CANOPY

00: -

The invention relates to a panel joining arrangement for a vehicle canopy. The vehicle canopy includes at least one three panel join where a side panel, roof panel and end panel of the vehicle canopy meet. The panel joining arrangement comprises first and second lip portions formed in the side panel of the vehicle canopy and a third lip portion formed in the roof panel. The first and second lip portions are longitudinally offset and transversely overlapping in relation to a length of the side panel. The third lip portion is configured to mate with the second lip portion at the three panel join of the vehicle canopy such that the third lip portion is located adjacent to and substantially flush with the first lip portion.



- 21: 2020/07349. 22: 2020/11/25. 43: 2024/01/11 51: B02C
- 71: TIGERCAT INDUSTRIES INC.
- 72: RAGNARSSON, Anders

33: US 31: 62/665,166 32: 2018-05-01 54: PORTABLE GRINDING/SHREDDING/CHIPPING SYSTEM HAVING MANIPULABLE TRACK DRIVE AND OTHER IMPROVEMENTS 00: -

A portable grinding/shredding/chipping system with a drive track assembly which is manipulatable to facilitate altering the orientation of the portable grinding/shredding/chipping system. This arrangement results in improved loading and processing, of both long and short materials, as well as facilitates connection of a transport dolly and a transport truck/tractor without requiring any additional lifting mechanism. A pivotable housing provides greater access to the rotor and has an over-center arrangement which prevents the pivotable housing from inadvertently moving or pivoting back into engagement with the rotor. The portable grinding/shredding/chipping system is provided with a belt drive assembly which facilitates modification of the rotational speed of the rotor by merely replacing a sheave of the belt drive assembly. Lastly, both head and tail pulleys are driven by a respective motor so that a catinary of the discharge conveyor is radiussed which shortens an axial length of the system.



21: 2021/01461. 22: 2021/03/03. 43: 2024/01/17 51: B01L

71: TRUVIAN SCIENCES, INC.

72: KLEINEMOLEN, IAN, MARRINUCCI, DENA, ABI-SAMRA, KAMEEL MICHAEL, HAWKINS, JEFFREY A

33: US 31: 16/516,001 32: 2019-07-18 33: US 31: 62/722,029 32: 2018-08-23 54: DEVICES WITH OPTICALLY READABLE LIQUID RESERVOIRS

00: -

A device includes a lower reservoir surface, an upper reservoir surface, and a reservoir sidewall extending between the upper and lower reservoir surfaces which together define a reservoir. The reservoir is configured to be completely filled by a liquid such that the liquid forms a column contacting the upper reservoir surface, the lower reservoir surface, and the reservoir sidewall, with a meniscus of the liquid being outside of the reservoir. At least one of the upper reservoir surface and the lower reservoir surface is configured to transmit light.



21: 2021/01462. 22: 2021/03/03. 43: 2024/01/17 51: B01L; G01N 71: TRUVIAN SCIENCES, INC. 72: KLEINEMOLEN, IAN, MARRINUCCI, DENA,

ABI-SAMRA, KAMEEL MICHAEL

## 33: US 31: 16/515,974 32: 2019-07-18 33: US 31: 62/722,050 32: 2018-08-23 54: BLOOD PLASMA SEPARATION DEVICE 00: -

A device for separating blood plasma from whole blood includes a first reservoir and a second reservoir. The first reservoir is configured to receive a sample of whole blood including red blood cells and includes a collection region and a constricted region. The second reservoir is fluidically connected to the constricted region of the first reservoir, such that, responsive to centrifugal force applied to the device, the sample of whole blood disposed within the first reservoir separates into a first fraction and a second fraction. The first fraction is located in the collection region and includes blood plasma from which substantially all red blood cells have been removed. The second fraction is located in the second reservoir and includes blood plasma and red blood cells that have been removed from the first fraction by the centrifugal force. The constricted region inhibits the second fraction from entering the collection region.



21: 2021/02131. 22: 2021/03/30. 43: 2022/06/01 51: B01J 71: ALBERT JACOBS 72: ALBERT JACOBS 54: CHEMICAL REACTOR 00: -

The current invention relates to an underwater chemical reactor which includes at least one chemical reaction chamber having at least one inlet and at least one out let in flow communication with the chemical reaction chamber



21: 2021/04291. 22: 2021/06/22. 43: 2024/02/29 51: G06F

- 71: GERMISHUYS, Dennis Mark
- 72: GERMISHUYS, Dennis Mark
- 33: ZA 31: 2018/08588 32: 2018-12-20 54: ASSOCIATION DETERMINATION
- 00: -

An association system comprising hardware including at least one processor, a data storage facility in communication with the processor and I/O interfaces in communication with the processor, the system being configured to receive a name of a person/entity of interest via an input interface; retrieve top keywords associated with the name of the person/entity of interest from a database of Internet data and represent the keywords by word embedding; compare the top keywords with a list of keywords for which the relevance of the person/entity of interest is to be determined; determine the inner product between each of the retained top keywords and the word embedding of the name of the person/entity of interest; and present the inner product of each of the retained top keywords at an output interface of the association system.



21: 2021/06020. 22: 2021/08/20. 43: 2024/01/30 51: B29B; B29C 71: GREENTECH GLOBAL PTE, LTD. 72: SPENDER, JONATHAN, BILODEAU, MICHAEL ALBERT, MIKAIL, SAMUEL 33: US 31: 62/797,106 32: 2019-01-25 54: POLYOL FATTY ACID ESTER CARRIER COMPOSITIONS 00: -

The present disclosure describes methods of treating fibrous cellulosic materials with sucrose fatty acid ester containing particles (carrier systems) that allow for modifications of surfaces, including making such surfaces water resistance and/or oil/grease resistance. The methods as disclosed provide combining at least one saccharide fatty acid esters (SFAE) with a polymer (e.g., latexes) to form micellular particles and applying such particles to substrates including fibrous cellulose-based materials (e.g., pulp) to form, inter alia, molded products. Compositions comprising combinations of SFAE, a latex and optionally a mineral or other additives are also disclosed.

71: CHEMETALL GMBH

72: CEGLAREK, Timo Christoph, WIETZORECK, Hardy

33: EP 31: 19154196.0 32: 2019-01-29 54: ALTERNATIVE COMPOSITION AND ALTERNATIVE METHOD FOR EFFECTIVELY PHOSPHATING METAL SURFACES 00: -

The present invention relates to an alternative acidic, aqueous composition for effectively phosphating metal surfaces, said composition comprising, in addition to zinc ions, manganese ions, phosphate ions and preferably nickel ions, at least one accelerator of the formula R1R2R3C-NO2, wherein each of the substituents R1, R2 and R3 on the C

<sup>21: 2021/06147. 22: 2021/08/25. 43: 2024/01/15</sup> 51: C23C

atom is selected, independently of the others, from the group consisting of hydroxymethyl, 1hydroxyethyl, 2-hydroxyethyl, 1-hydroxypropyl, 2hydroxypropyl, 3-hydroxypropyl, 1-hydroxy-1methylethyl, and 2-hydroxy-1-methylethyl. The invention also relates to a method for preparing such a composition, to an alternative method for phosphating metal surfaces, and to the use of phosphate coatings produced therewith.

## 21: 2021/06160. 22: 2021/08/25. 43: 2023/02/15 51: A41D; A45F 71: LI, Luying, FENG, Yuzhang 72: LI, Luying, FENG, Yuzhang 33: CN 31: 201910070328.3 32: 2019-01-25 54: DRAWING-BOARD BACKPACK DUAL-USE

#### 54: DRAWING-BOARD BACKPACK DUAL-USE GARMENT 00: -

The present invention relates to a drawing-board backpack dual-use garment, comprising a garment body which can be used as a bag front body and bag rear body of a drawing-board backpack; in the direction of the garment body the neckline of said garment body is provided with a closable opening (701) for a drawing board to be inserted or removed; the lower part of the garment body is provided with a fifth connecting member (204) which can connect the lower part of the garment body together to form the bottom of the backpack, and/or comprises a first decoration which can be used as the bottom of the backpack; said first decoration can be connected to the lower part of the garment body, and can be used as a detachable second decoration of a backpack strap (205). In the present invention, the garment is designed as a structure which can transform into a drawing backpack, greatly improving the convenience of people's lives.



21: 2021/07139. 22: 2021/09/23. 43: 2024/01/30 51: A61K

71: FUSION PHARMACEUTICALS INC.
72: CURRIE, GRAEME
33: US 31: 62/907,504 32: 2019-09-27
33: US 31: 62/812,929 32: 2019-03-01
33: US 31: 62/856,216 32: 2019-06-03

# 54: METHODS AND COMPOSITIONS FOR TREATING CANCER

00: -

The present application provides compositions, methods, and kits for treating cancer, including bladder cancer such as luminal bladder cancer, using an FGFR3 inhibitor in combination with a checkpoint inhibitor. In some embodiments, the cancer expresses wild-type FGFR3. The FGFR3 inhibitor may be an antagonistic FGFR3 inhibitor, such as an antagonistic FGFR3 antibody. The checkpoint inhibitor may be a PD1 inhibitor, including a PD1 or PD1 ligand (PD-L1) antibody such as an antagonistic PD1 or PD-L1 antibody.



21: 2021/08579. 22: 2021/11/03. 43: 2024/01/11 51: C07D C07C A61P A61K 71: CELLESTIA BIOTECH AG 72: LEHAL, Rajwinder, BOLD, Guido, URECH, Charlotte, ZOETE, Vincent 33: EP 31: 19168508.0 32: 2019-04-10 54: INHIBITORS OF NOTCH SIGNALLING PATHWAY AND USE THEREOF IN TREATMENT OF CANCERS

00: -

The present invention relates to new inhibitors of Notch signalling pathway and its use in the treatment and/or prevention of cancers.



21: 2021/08760. 22: 2021/11/08. 43: 2024/02/19 51: G16H

71: CLOSED LOOP MEDICINE LTD 72: GOLDSMITH, Paul, YADI, Hakim Adam, RICHARDS, Andrew John McGlashan, SARTAIN, Felicity Kate, COX, David, O'REGAN, David 33: US 31: 62/841,967 32: 2019-05-02

54: METHODS AND SYSTEMS FOR PROVIDING PERSONALISED MEDICINE TO A PATIENT 00: - We provide a system for generating a co-therapy regimen for a patient suffering from a disease or condition, the system comprising at least one data processing device having at least one processor, wherein the system is configured to: receive an identification of a co-therapy suitable to treat the disease or condition; receive a desired patient endpoint and a patient position, wherein the patient position is defined relative to the desired patient endpoint; store a dataset relating to the patient, the dataset comprising one or more patient data based on patient-related measurements; process the dataset, the patient position and the desired patient endpoint to generate a regimen for the co-therapy; and, store the regimen in a database. In preferred embodiments, the co-therapy comprises: two or more pharmacological therapies; one or more pharmacological therapy and one or more nonpharmacological therapy, preferably wherein the one or more non-pharmacological therapy is cognitive behavioural therapy; or, two non-pharmacological therapies, preferably wherein at least one nonpharmacological therapy is cognitive behavioural therapy.



21: 2021/10115. 22: 2021/12/07. 43: 2024/01/29 51: G06F

71: CONQUEST TECHNOLOGY SERVICES CORP 72: JEFFREY J ENGLE, THOMAS R NECLERIO, ARIEL POSADA

33: US 31: 62/859,414 32: 2019-06-10

33: US 31: 16/897,779 32: 2020-06-10

## 54: SOFTWARE APPLICATION FOR CONTINUALLY ASSESSING, PROCESSING, AND REMEDIATING CYBER-RISK IN REAL TIME 00: -

A software based application for assessing. processing, and remediating cyber-risk in real time may comprise, without limitation, a profiling component, an analytic component, an evaluation component, a documentation component, an implementation component, a validation component, and a monitoring component which may, in conjunction therewith, operate to allow an organization to adaptively adjust an organization's network security to continuously improve and mature same. Such components may operate to: (1) determine an organization's operational baseline; (2) identify risks and hazards inherent therein; (3) generate, and verify the efficacy of, remedial controls to such risks and hazards; (4) document and audit such determinations; and (5) continually monitor the organization's network security. In such a manner, the network security architecture of an organization may be remediated according to threat scenario-based control efficacy and residual risk determinations according to the agnostic, riskfocused, and system-based approach disclosed herein.



# 21: 2021/10422. 22: 2021/12/14. 43: 2024/01/15 51: C07D A61K A61P 71: INVENTISBIO CO., LTD. 72: DAI, Xing, WANG, Yaolin, JIANG, Yueheng, LIU, Yanqin, SHI, Zhe, WANG, Zhenwu, TAO, Liangshan, HAN, Zixing, NIU, Haotao, WENG, Jifang 33: CN 31: PCT/CN2019/087772 32: 2019-05-21 33: CN 31: PCT/CN2019/095947 32: 2019-07-15 33: CN 31: PCT/CN2019/123223 32: 2019-12-05 54: HETEROCYCLIC COMPOUNDS, PREPARATION METHODS AND USES THEREOF

## 00: -

Provided herein are novel compounds, for example, compounds having a Formula (I) or Formula (II), or a pharmaceutically acceptable salt thereof. Also provided herein are methods of preparing the compounds and methods of using the compounds, for example, in inhibiting KRAS G12C in a cell, and/or in treating various cancer such as pancreatic cancer, endometrial cancer, colorectal cancer, or lung cancer (e.g., non-small cell lung cancer).



Formula (I)

Formula (II)

21: 2022/00158. 22: 2022/01/03. 43: 2024/03/11 51: F16M

- 71: FOURIE, John Louis Carter
- 72: FOURIE, John Louis Carter
- 33: ZA 31: 2020/05945 32: 2020-09-25

# 54: CAMERA STABILIZER

This invention relates to a camera stabilizer and more specifically, but not exclusively, to a camera stabilizer for use with a telephoto lens. The camera stabiliser comprises a support attachment member for attaching the stabiliser to a support; an equipment attachment member for removably attaching equipment to the stabiliser; and an adjustable support between the support attachment member and the equipment attachment member which connects, and is usable to adjust the distance between, the support attachment member and the equipment attachment member: and the adjustable support including a fixing element for fixing the adjustable support at a desired distance between the support attachment member and the equipment attachment member.



21: 2022/01297. 22: 2022/01/27. 43: 2024/01/29 51: B64D; G05D 71: OVERWERX LTD. 72: HILL, JEFFREY 33: US 31: 62/726,976 32: 2018-09-04 33: US 31: 62/568,518 32: 2017-10-05 54: REMOTELY CONTROLLABLE AERONAUTICAL ORDNANCE 00: -

An aeronautical ordnance for vertical take-off and flight. The ordnance comprises a body and an explosive component positioned therein. Rotatable blades are connected to the body to bring the ordnance to a first altitude above a target position. A motor positioned within the body provides the powered operation. An imaging device generates frames of image data representative of a view of a ground plane. Rf video transmission circuitry receives the frames and transmits rf signals comprising a stream of the image data. When the ordnance is airborne: (i) the blades are positioned above, and connected to, the motor, and (ii) the imaging device can generate frames of image related to the ground plane directly below the ordnance. After the powered operation is initiated, frames of image data can be generated. First control signals can be sent from a remote control device to navigate movement of the ordnance to an airborne position above the target position. When in the airborne position, second control signals can be sent from the remote control device to cause the ordnance to descend toward the target position and detonate the explosive component.



21: 2022/01377. 22: 2022/01/28. 43: 2024/01/29 51: B32B; C08C; C08G 71: NATURAL FIBER WELDING, INC. 72: AMSTUTZ, AARON KENNETH, HAVERHALS, LUKE MICHAEL, AMSTUTZ, ISAIAH, CLEMENT, SKYLAR, WALKER, PETER FRANCIS 33: US 31: 62/989,275 32: 2020-03-13 33: US 31: 62/869,393 32: 2019-07-01 54: CURATIVE & METHOD 00: -

A thermoset material containing $\beta$ -hydroxy esters wherein said thermoset material is subject to a mechano-chemical process to regenerate an epoxide and a carboxylic acid functionality. A curative for epoxidized plant-based oils and epoxidized natural rubber is created from the reaction between a naturally occurring polyfunctional acid and an epoxidized plant-based oil is disclosed. The curative may be used to produce porosity-free castable resins and vulcanize rubber formulations based on epoxidized natural rubber. Materials made from disclosed materials may be advantageously used as leather substitutes.



21: 2022/04178. 22: 2022/04/13. 43: 2024/01/18 51: A61B 71: MOKETE, Lipalo 72: MOKETE, Lipalo, VERBEEK, Reinder, Boudewyn 33: ZA 31: 2021/02165 32: 2021-03-31 54: KNEE SPREADER 00: -

The invention provides a surgical knee soft tissue tensioning device. The device includes a pair of opposed displaceable low profile knee engaging members, a portion of one of the members being sized, shaped and/or configured to complementally engage a medial or lateral femoral condyle of a knee; and a portion of the other member being sized, shaped and/or configured to complementally engage a tibial plateau of a knee. The device further includes a displacement means for displacing the knee engaging members relative to each other in a maintained orientation to facilitate tension of the knee when the femoral condyle and opposed tibial plateau of the knee is engaged, in use, by the pair of knee engaging members; and an attachment means which is configured to removably attach the pair of knee engaging members to the displacement means. A pair of grips are pivotally connected, in reverse action, to the displacement by means which grips are configured to be engaged by a user to

facilitate displacement and/or handling of the pair of knee engaging members.



21: 2022/04197. 22: 2022/04/13. 43: 2024/01/15 51: H04N 71: NOKIA TECHNOLOGIES OY 72: LAINEMA, Jani 33: US 31: 62/903,116 32: 2019-09-20 54: AN APPARATUS, A METHOD AND A COMPUTER PROGRAM FOR VIDEO CODING AND DECODING 00: -

There is disclosed a method comprising obtaining a block of transform coefficients; searching a position of a last non-zero coefficient in a scan order in the block; selecting a secondary transform mode based on the position and encoding first syntax elements indicative of the selected secondary transform mode. A primary transform mode is selected based on the secondary transform mode. Second syntax elements indicative of the selected primary transform mode and third syntax elements defining the transform coefficients within the block are encoded. There is also disclosed a method comprising receiving encoded information related to a block of transform coefficients; decoding an indication of a position of a last non-zero coefficient in a scan order in the block and using the position to determine if an indication of a secondary transform mode is present in the bit stream. If so, first syntax elements indicative of the secondary transform mode are decoded and used to determine if an indication of a primary transform mode is present in the bit stream. If so, second syntax elements indicative of the primary transform mode are decoded. The transform coefficients are decoded and the determined transform modes are applied to select transforms and the transforms, if any, are applied to the transform coefficients.



21: 2022/04732. 22: 2022/04/28. 43: 2024/01/15 51: H04W

71: NOKIA TECHNOLOGIES OY

72: AWADA, Ahmad, VIERING, Ingo, KORDYBACH, Krzysztof, HENTTONEN, Tero,

SELVAGANAPATHY, Srinivasan, STANCZAK, Jedrzej

33: IN 31: 201941040225 32: 2019-10-04 54: ENHANCEMENTS FOR CONDITIONAL HANDOVER IN MULTI-CONNECTIVITY OPERATION

00: -

A method and apparatus may include receiving, by a master node involved in multi-connectivity, at least one indication from a user equipment upon or after at least one condition for conditional cell change is fulfilled that it has detached from at least one source PSCell of a secondary node. The method may further include transmitting, by the master node, at least one SgNB Release Request to the source Secondary Node such that the secondary node

stops transmission and reception on the source PSCell and/or initiates data forwarding to the target SN or to the MN. The method may further include receiving, by the master node, at least one SgNB Release Request Acknowledge from the source Secondary Node. The method may further include forwarding, by the master node, user data to the target secondary node upon receiving an indication from the user equipment.



21: 2022/04907. 22: 2022/05/04. 43: 2024/01/04 51: A61K

71: UNISON PHARMACEUTICALS PVT. LTD. 72: SINGH, BALVIR, SHINGALA, RAMESH, PRAJAPATI, SHIVANG 33: IN 31: 201921046107 32: 2019-11-13 54: ORALLY DISINTEGRATING

# PHARMACEUTICAL COMPOSITIONS OF APIXABAN

## 00: -

The present invention relates to an orally disintegrating pharmaceutical dosage forms of apixaban or a pharmaceutically acceptable salt or prodrug thereof. The present invention specifically relates to a stable orally disintegrating pharmaceutical composition comprising apixaban and one or more pharmaceutically acceptable excipients. Further, the present invention relates to an orally disintegrating dosage form comprising apixaban, at least one disintegrating excipient and optionally one or more pharmaceutically acceptable excipients for treatment of disorders associated with Factor Xa.

## 21: 2022/05002. 22: 2022/05/06. 43: 2024/01/15 51: C10G C10B C10J 71: GOZERTA LLC 72: GEINOZ, Francois, CUENI, Marcel, YAKOB, Kameran 33: US 31: 16/600,539 32: 2019-10-13 54: WASTE TO ENERGY CONVERSION WITHOUT CO2 EMISSIONS 00: -

The invention provides a method for energy extraction from municipal and mixed waste streams. The method employs a three-stage pyrolysis to produce a hydrogen-rich pyrolysis gas, which maximizes energy extraction without releasing carbon dioxide into the atmosphere. Optionally, the energy in high-pressure CO2 from the process is recovered in stages by expansion through gas turbines.



- 21: 2022/06367. 22: 2022/06/08. 43: 2024/01/15
- 51: F03D B63H B63B B64C B63J
- 71: OCEANERGY AG
- 72: REINERS, Wolfram, Johannes, Bernd

# 33: GB 31: 1916516.6 32: 2019-11-13 54: KITE DRIVEN WATERCRAFT POWER GENERATING SYSTEM

### 00: -

A kite driven watercraft power generating system which includes at least one operative location defined on the watercraft, at least one inoperative location defined on the watercraft, a plurality of kite base stations mounted displaceably about the watercraft and, an orientation subsystem for displacing each of the plurality of kite base stations between the at least one operative, and, the at least one inoperative locations, respectively, wherein each of the plurality of kite base stations is further configured to orientate its respective kite in a wind harvesting and energy generating mode when located in the at least one operative location, and, in a kite retraction mode, when located in the at least one inoperative location.



21: 2022/06645. 22: 2022/06/15. 43: 2024/01/15 51: C12N C12P C12R 71: CJ CHEILJEDANG CORPORATION 72: HA, Cheol Woong, IM, Yeong Eun, YANG, Eun Bin, KIM, Yeonsoo, KIM, Hyung Joon 33: KR 31: 10-2020-0041184 32: 2020-04-03 54: NOVEL PROMOTER AND METHOD OF PRODUCING GLUTATHIONE USING THE SAME 00: -

The present application relates to a novel promoter, a vector comprising same, a microorganism comprising same, and a glutathione producing method using same.

21: 2022/07187. 22: 2022/06/29. 43: 2024/03/14 51: G09F 71: Nathan, Gregory 72: Nathan, Gregory

## 33: ZA 31: 2021/04762 32: 2021-07-08 54: A DEVICE FOR HOLDING AN ADVERTISING SIGN 00: -

According to a first aspect of the invention, there is provided a device for holding an advertising sign, said device including one or more of the following: a first supporting means; and a second supporting means, the second supporting means extending diagonally from the operatively upper end of the first supporting means to a ground level, in use, wherein an operatively upper end of the first supporting means and an operatively upper end of the second supporting means define an opening, said opening operable to receive an advertising sign therein. In an embodiment of the invention, said device further includes a third supporting means, said third supporting means being operable to extend from an operatively lower end of the first supporting means along the ground level.



21: 2022/08088. 22: 2022/07/20. 43: 2024/01/08 51: C07D A61K

71: LG CHEM, LTD.

72: YOON, Seung Hyun, JOO, Hyun Woo, SEO, Bo Kyung, LEE, Eun Jin, JUNG, Jin Young, YOON, Su Young, KWAK, Young Shin, CHO, Woo Young, JO, Min Mi

33: KR 31: 10-2019-0173456 32: 2019-12-23 54: NOVEL AMIDE DERIVATIVE USEFUL AS DIACYLGLYCEROL ACYLTRANSFERASE 2 INHIBITOR, AND USE THEREOF 00: -

The present invention relates to an amide derivative compound, which exhibits the activity of a diacylglycerol acyltransferase (DGAT) 2 inhibitor and is represented by chemical formula (1), a pharmaceutical composition comprising same as an active ingredient, and a use thereof.

21: 2022/08935. 22: 2022/08/10. 43: 2024/01/15 51: B02C

71: GEBR. PFEIFFER SE

72: ALVE, Johannes, HANAUER, Saskia, HOFFMANN, Dirk 33: EP 31: 20151718.2 32: 2020-01-14

# 54: ROLLER MILL HAVING CROSSWISE GRINDING ROLLERS

00: -

The invention relates to a roller mill (1) having a grinding table (2) and grinding rollers (3), wherein the grinding table (2) is rotatable relative to the grinding rollers about a center axis (100) of the grinding table (2) in a grinding table rotation direction (200), such that the grinding rollers (3) roll on a grinding track (9) of the grinding table (2) about a roller rotation axis (300). At least one of the grinding rollers (3) is twisted about a crosswise angle (500) in the direction of the grinding table rotation direction (200) such that the roller rotation axis (300) extends at a radial distance (600) from the center axis (100) of the grinding table (2). The crosswise angle (500) is between (1) degree and (9) degrees. The invention further relates to a method for operating a roller mill (1) and to the use of a roller mill (1) for comminuting particulate bulk material.



FIG. 2

21: 2022/08937. 22: 2022/08/10. 43: 2024/01/15 51: F41G G02B 71: SHELTERED WINGS, INC. d/b/a VORTEX

OPTICS

72: MCDERMOT, Connor, BLOK, Jordan, LENZ, Jesse

33: US 31: 62/961,447 32: 2020-01-15 54: VIEWING OPTIC WITH CONTOURS 00: -

A main body of a viewing optic comprising at least one void in the main body.



21: 2022/10106. 22: 2022/09/12. 43: 2024/01/15 51: C12N C12P 71: CJ CHEILJEDANG CORPORATION 72: YANG, Eun Bin, HA, Cheol Woong, KIM, Yeonsoo, IM, Yeong Eun 33: KR 31: 10-2020-0036456 32: 2020-03-25 54: GLUTAMATE-CYSTEINE LIGASE VARIANT AND METHOD FOR PRODUCING GLUTATHIONE USING SAME 00: -

The present application relates to a novel glutamatecysteine ligase variant and a method for producing glutathione using same.

## 21: 2022/10166. 22: 2022/09/13. 43: 2024/01/18 51: B21C; B21D; B21F

71: Guangdong JMA Aluminum Profile Factory (Group) Co., Ltd, Foshan JMA Aluminium Industry Co., Ltd

72: DING, Xingyu, TENG, Guangbiao, RUAN, Taotao, CHEN, Jian, GAO, Sentian

33: CN 31: 202011634421.1 32: 2020-12-31 54: APPARATUS AND METHOD FOR

#### STRAIGHTENING AND ELONGATING COMPLEX HOLLOW-CHAMBER PROFILE 00: -

A complex cavity profile straightening and stretching device, comprising guide rails (1), a first hydraulic device (2), a main body component (3), a downward pressing mechanism (4), a rotating arm (5), a second hydraulic device (6), a special clamp (7), and a third hydraulic device (8). The second hydraulic device is provided on the upper portion of the main

body component, and is connected to the rotating arm; the rotating arm is fixedly connected to the downward pressing mechanism; a clamping pad (11) working in conjunction with the downward pressing mechanism is provided below the downward pressing mechanism; the special clamp is connected to the third hydraulic device; the special clamp comprises a fixed clamping head group (71) and a movable clamping head group (72); and the fixed clamping head group comprises several fixing clamping heads (711) spaced apart from each other by a predetermined distance. A complex cavity profile straightening and stretching method is further comprised. By using the device or method, connection ribs (14) of an aluminum material can be clamped and fixed by means of the special clamp, a cavity profile can be effectively straightened and stretched, and the deformation amount of a clamping part is small.



21: 2022/10248. 22: 2022/09/15. 43: 2024/01/29 51: A23G; A23D 71: AAK AB (PUBL) 72: JUUL, BJARNE 33: SE 31: 2051474-1 32: 2020-12-16 33: SE 31: 2050191-2 32: 2020-02-20 54: FAT COMPOSITION SUITABLE AS A COCOA BUTTER EQUIVALENT HAVING A LOW AMOUNT OF DIGLYCERIDES

00: -

The present invention relates to fat composition suitable for use as a cocoa butter equivalent, wherein the fat composition comprises triglycerides of which 60% by weight or more is Sat<sub>2</sub>O, wherein Sat is selected from St, P, or combinations hereof; and wherein, in the fat composition, the total content of StOP + StPO + St<sub>2</sub>O is 60% by weight or less, and the total amount of diglycerides (DAG) is 2.0% by weight or less; and wherein O is oleic acid, St is stearic acid, and P is palmitic acid.

21: 2022/10541. 22: 2022/09/22. 43: 2024/02/05 51: G03F

71: ILLUMINA, INC.

72: MERKEL, Timothy J., WANG, Ruibo, WRIGHT, Daniel, CHAN, Danny Yuan, AIYAR, Avishek, GHONGE, Tanmay, BRAHMA, Neil, PITERA, Arthur 33: US 31: 63/000,964 32: 2020-03-27 54: IMPRINTING APPARATUS 00: -

An imprinting apparatus includes a silicon master and an anti-stick layer coating the silicon master. The silicon master includes a plurality of features positioned at an average pitch of less than about 425 nm, each of the plurality of features comprises a depression having an opening with its largest opening dimension being less than about 300 nm. The anti-stick layer includes a crosslinked silane polymer network.



21: 2022/10589. 22: 2022/09/23. 43: 2024/02/05 51: H02S; E02D; H01L; H02J 71: Watershed Geosynthetics LLC 72: AYERS, Michael R., EHMAN, S. Kyle 33: US 31: 16/830,208 32: 2020-03-25 54: HIGHLY DENSE ARRAY OF PHOTOVOLTAIC MODULES 00: -

A plurality of solar photovoltaic modules disposed in spaced-apart relation to define a gap between adjacent modules in an array of spaced-apart rows and the modules mounted on respective supports spaced from a surface to define an air gap therebetween, with at least one connector attaching respective adjacent modules, for generation of electricity while resisting wind uplift. A method of arranging interconnected solar photovoltaic modules in spaced-relation is disclosed for electrical generation while resting wind uplift.



21: 2022/10728. 22: 2022/09/28. 43: 2024/01/15 51: H04S

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: HERRE, Jürgen, ADAMI, Alexander, ANEMÜLLER, Carlotta

## 33: EP 31: 20163159.5 32: 2020-03-13 54: APPARATUS AND METHOD FOR SYNTHESIZING A SPATIALLY EXTENDED SOUND SOURCE USING CUE INFORMATION ITEMS

00: -

An apparatus for synthesizing a spatially extended sound source, comprises: a spatial information interface (100) for receiving a spatial range indication indicating a limited spatial range for the spatially extended sound source within a maximum spatial range (600); a cue information provider (200) for providing one or more cue information items in response to the limited spatial range; and an audio processor (300) for processing an audio signal representing the spatially extended sound source using the one or more cue information items.



21: 2022/11241. 22: 2022/10/13. 43: 2024/01/18 51: B01J 71: LINDE GMBH, BASF SE 72: POSSELT, Heinz, ZELLHUBER, Mathieu, HOFSTÄTTER, Martin, DELHOMME-NEUDECKER,

## Clara, SHUSTOV, Andrey, JENNE, Eric, KOCHENDÖRFER, Kiara Aenne, LAIB, Heinrich, JACOB, Reiner, KÜHN, Heinz-Jürgen 33: EP 31: 20163163.7 32: 2020-03-13 54: REACTOR AND METHOD FOR CARRYING OUT A CHEMICAL REACTION 00: -

The invention relates to a reactor for a chemical reaction, comprising a reactor vessel and one or more reaction tubes, current supply elements for electrical heating of the tube(s) being guided into the vessel. The current supply elements each have a rod-shaped portion, each of which runs through a wall of the vessel at a wall passage; a connecting chamber into which the rod-shaped portions protrude is arranged outside the vessel and adjoining the wall of the vessel through which the rod-shaped portions run at the wall passages; cooling panels through which a cooling fluid can flow are provided in the connecting chamber, which panels are arranged between at least two rodshaped portions or between at least two groups of the rod-shaped portions which protrude into the connecting chamber. The invention also relates to a corresponding method.



21: 2022/11304. 22: 2022/10/14. 43: 2024/02/05 51: A61K; C07D; A61P 71: SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD., CHENGDU CHIPSCREEN PHARMACEUTICAL CO., LTD 72: LU, Xianping, NING, Zhiqiang, WANG, Xiaoning 33: CN 31: 202010212751.5 32: 2020-03-24 54: PHARMACEUTICAL COMPOSITION COMPRISING PROTEIN KINASE INHIBITOR AND CHEMOTHERAPEUTIC DRUG AND USE THEREOF

00: -

The present invention relates to the field of biotechnology, and in particular relates to a pharmaceutical composition comprising a protein kinase inhibitor and a chemotherapeutic drug and use thereof. It is found that in the treatment of platinum-refractory/drug-resistant relapsed advanced ovarian cancer, the remission rates of etoposide or paclitaxel in combination with chiauranib is respectively 40% and 50%, while the remission rate of etoposide alone is about 27%, and the remission rate of paclitaxel alone is about 21%, indicating that the combination of chiauranib and etoposide or paclitaxel in the treatment of platinumrefractory/drug-resistant relapsed advanced ovarian cancer has achieved unexpected synergistic effects.

21: 2022/11452. 22: 2022/10/19. 43: 2024/01/18 51: H02K

71: SISCRENER GLOBAL COMPANY LIMITED 72: QUIÑONES BASCUÑÁN, Guillermo Enzo, NEDER, Christian Jacob 54: STATOR CORE, STATOR, AND POWER GENERATION SYSTEM HAVING THE SAME

00: -To provide a stator core which is configured to substantially reduce the effects of electromagnetic brake and thus improve the efficiency of power generation, and to provide a power generation system capable of implementing such stator core to improve the efficiency of power generation, a stator core for power generation by magnetic or electromagnetic induction, comprising a nucleus; and a wire, wound around said nucleus, wherein the wire is wound towards a winding direction such as to form a plurality of wire intersections, is disclosed herein.

110



21: 2022/11794. 22: 2022/10/28. 43: 2024/02/05 51: F03D; H05K 71: XINJIANG GOLDWIND SCIENCE & TECHNOLOGY CO., LTD. 72: WANG, Dinghui, LI, Jinmeng, LIU, Junwei 33: CN 31: 202010516366.X 32: 2020-06-09 54: COOLING SYSTEM AND WIND POWER GENERATOR SET 00: -

A cooling system and a wind power generating set. The cooling system comprises two cooling subsystems (S) thermally coupled to each other. Each cooling sub-system (S) comprises: a first cooling circuit (1) for cooling a first heat-generating component (100), a second cooling circuit (2) for cooling a second heat-generating component (200), a third cooling circuit (3) for cooling a third heatgenerating component (300), a fourth cooling circuit (4) for cooling a fourth heat-generating component (400), a pump station unit (5) and a heat dissipation unit (6). The first cooling circuit (1) and the fourth cooling circuit (4) are connected in parallel to form a first branch, the second cooling circuit (2) and the third cooling circuit (3) are connected in parallel to form a second branch, and the first branch and the second branch are connected in parallel, and are connected to the pump station unit (5) and the heat dissipation unit (6). The cooling system may achieve the fault-tolerant operation of two cooling subsystems (S).



21: 2022/12390. 22: 2022/11/14. 43: 2024/01/08 51: B21D; G01B; G01N

71: CROWN PACKAGING TECHNOLOGY, INC. 72: HALSTEAD, Michael, BAILEY, Damien Andrew, EGERTON. Daniel

33: GB 31: 2007230.2 32: 2020-05-15

## 54: CAN BODYMAKER AND A METHOD OF OPERATING A CAN BODYMAKER TO MITIGATE THE EFFECTS OF TOOL WEAR, DAMAGE AND/OR MISALIGNMENT 00: -

A can bodymaker for producing can bodies from cups. The can bodymaker comprises a ram

configured to reciprocate along an axis, a punch mounted on the ram; a tool pack comprising a cradle and a plurality of tools located in the cradle for drawing and ironing a cup mounted on the punch during a forward stroke of the ram. The can bodymaker further comprises a bolster plate fixed to the can bodymaker, an adapter plate fixed to the bolster plate and a stripper assembly fixed to the adapter plate for removing a can body from the punch during a return stroke of the ram and clamping mechanism for biasing the tools against a front face of the adapter plate. The can bodymaker further comprises one or more load cells located in or on the adapter plate and configured to generate an output signal or signals indicative of an axial force exerted on the tools by the cup passing therethrough.



## 21: 2022/12953. 22: 2022/11/29. 43: 2023/05/12 51: A61K

71: Ramaiyan Velmurugan, Lokeshvar Ravikumar, Santhanankrishnan Ramanujam, Hemalatha Kanagarajan, Sujaritha Jayaraj, Nandhini Jayaprakash, Vandhana Vijayakumar, Magesh Mohan, Mahalakshmi Devaraji, Dineshkumar Settu, Gouthami Ammapalli, Saveetha Institute of Medical and Technical Sciences

72: Ramaiyan Velmurugan, Lokeshvar Ravikumar, Santhanankrishnan Ramanujam, Hemalatha Kanagarajan, Sujaritha Jayaraj, Nandhini Jayaprakash, Vandhana Vijayakumar, Magesh Mohan, Mahalakshmi Devaraji, Dineshkumar Settu, Gouthami Ammapalli

54: A COMPOSITION AND A METHOD FOR DEVELOPMENT AND OPTIMIZATION OF IFOSFAMIDE NANOSTRUCTURED LIPID CARRIERS FOR ORAL DELIVERY 00: -

A composition and a method (100) for development and optimization of ifosfamide NLC for oral delivery, comprises of: dissolving weighed quantities of glycerol monooleate, oleic acid and Ifosfamide in 3-7 mL of mixture of ethanol and acetone in a water bath at a defined temperature to obtain an organic solution; dispersing the obtained organic solution into 40-60 mL of aqueous solution of Poloxamer 188 at room temperature under sonication for a first defined time interval to prepare a primary emulsion; adding 5-8 mL of chitosan solution to the prepared primary emulsion and sonicating for the first defined time interval to prepare a secondary emulsion; adding 5-15 mL of sodium alginate solution to the secondary emulsion for a second time interval to obtain nano suspension; and placing the obtained nano suspension of NLC in a vacuum desiccator for a third time interval at room temperature to evaporate a residual organic solvent.

100	
dissolving 3-7mg of Hosfamide, 200-400 $\mu$ l of Glycerol monocleate, and 20-40 $\mu$ l of oleic acid in 3-7 mL of mixture of ethanol and acetone (1:1 v/v) in a water bath at a defined temperature to obtain an organic solution	- <u>102</u>
1	_
dispersing the obtained organic solution into 40-60 mL of aqueous solution of Poloxamer 188 (1 % w/v) at room temperature under sonication for a first defined time interval to prepare a primary emulsion;	• <u>104</u>
-	_
adding 5-8 mL of chitosan solution (2 $\%$ w/v) to the prepared primary emulsion and sonicating for the first defined time interval to prepare a secondary emulsion;	- <u>106</u>
↓ ·	_
adding S-15 mL of sodium alginate solution to the secondary emulsion for a second time interval to obtain nano suspension;	•— <u>108</u>
+	_
placing the obtained nano suspension of nanostructured lipid carriers (NLC) in a vacuum desiccator for a third time interval at room temperature to evaporate a residual organic solvent.	• <u>110</u>
interval at room temperature to evaporate a residual organic solvent.	<u>110</u>

## 21: 2022/13014. 22: 2022/11/30. 43: 2024/01/15 51: A61K C07K 71: MIOTOX, LLC 72: BINDER, William, J. 33: US 31: 63/034,215 32: 2020-06-03

# 54: ZONAL AND TARGETED METHODS AND USES FOR TREATING A MIGRAINE DISORDER 00: -

The present specification discloses methods and uses for treating a migraine disorder. The disclosed method comprising extramuscularly administering a Botulinum toxin to an individual in one of more areas of a fronto-fascial layer located in a frontal head region of the individual, one of more areas of a temporoparietal-fascial layer located in a temporal head region of the individual, and one or more areas of an occipito-fascial layer located in an occipital head region of the individual. The disclosed methods and uses further comprise extramuscularly administering a Botulinum toxin to one or more nerve exit points, one or more subcutaneous locations in the head and neck as well as one or more sites of an epicranial aponeurosis and/or intramuscularly administration to one or more locations within the left /right Splenius Capitus, the left/right Masseter, the left/right Trapezius muscles, or any combination thereof.



# 21: 2022/13228. 22: 2022/12/06. 43: 2023/02/10 51: H02K

71: CHOI, Woo Hee, HWANG, Nan Kyung, YOO, Hyung Ju

72: CHOI, Woo Hee, HWANG, Nan Kyung, YOO, Hyung Ju, YU, Sung Kwon

33: KR 31: 10-2020-0057044 32: 2020-05-13 33: KR 31: 10-2020-0057048 32: 2020-05-13 54: NON-ROTATING ALTERNATING CURRENT GENERATING DEVICE 00: -

The present invention relates to a non-rotating alternating current generating device comprising a plurality of generation units that include a nonrotating electric generator and enabling the generation of alternating current with high efficiency. A non-rotating alternating current generating device, according to the present invention, for generating alternating current comprises: two or more adjacently disposed generation units, the generation units comprising a rod-type core member, a first hollow part wrapped with an electric wire and formed in the middle portion thereof, a field magnet disposed outside of the core member through the first hollow part, and a second hollow part wrapped with an electric wire and formed in the middle portion thereof; and an armature disposed outside of the core member through the first hollow part, wherein a pole piece is provided between the field magnet and armature, an insulation plate is disposed between

the field magnet and the pole piece and between the armature and the pole piece, and the generation units are connected in series or to be parallel to each other with respect to an input terminal and an output terminal.



21: 2022/13282. 22: 2022/12/07. 43: 2024/02/20 51: A61N

71: SEOUL VIOSYS CO., LTD.

72: BAE, HEE HO, LEE, A YOUNG, LEE, CHUNG HOON, YOON, YEONG MIN
33: US 31: 62/820,493 32: 2019-03-19
33: US 31: 16/821,024 32: 2020-03-17
54: LIGHT EMISSION DEVICE

## 00: -

A light emission device comprises a light source unit for emitting light at wounded skin and a control unit for controlling the light source unit. The light source unit includes: a substrate; one or more first light sources which are provided on the substrate and which emit first light having a blue wavelength band; and one or more second light sources which are provided on the substrate and which emit second light having red to near infrared wavelength bands. The first light and the second light have different skin penetration depths according to the wavelength.





- 21: 2023/00362. 22: 2023/01/09. 43: 2024/01/15 51: G02B H04N
- 71: SCOPGENX PRIVATE LIMITED

72: PANDIT, Aniruddha, Bhalchandra, MEVADA, Jayeshkumar, Sevantilal

## 33: IN 31: 202021010568 32: 2020-07-12 54: A SMARTPHONE AND/OR OTHER DEVICES WITH HIGH RESOLUTION MICROSCOPIC FEATURES 00: -

00: -The present subject matter described an optical microscopy device (2) for a portable imaging system, such as a smartphone. The optical microscopy device (2) comprises an optical lens assembly with ten to sixteen lens elements. The optical lens assembly has an optical magnification in a range of about 1X to about 3X, an airy radius in a range of

about 3.2 micron to about 15 micron, a depth of field in a range of about 28 micron to about 133 micron, a numerical aperture in a range of about 0.025 to about 0.176, a half field of view in a range of about 10 degrees to about 39 degrees, and a length in a range of about 6.8 millimeter (mm) to about 18 mm.



21: 2023/01078. 22: 2023/01/25. 43: 2024/02/20 51: B01D

71: MOUNTAIN ROAD TRADING PTY LTD 72: HIGGINS, Anthony, CREAGH, Tyler 33: AU 31: 2020902241 32: 2020-07-01 54: PUMP STRAINER WITH PNEUMATIC CLEANING

## 00: -

The present invention provides a strainer for use with a water pump in a mine that includes a grill for preventing the ingress of solid material over predetermined dimensions, and an air discharge structure positioned so as to produce a continuous flow of air to remove the material from at least part of the grill, so that flow is maintained through the strainer.



21: 2023/01635. 22: 2023/02/09. 43: 2024/02/12

51: A61K; C07K

## 71: GUBRA A/S

72: NIELSEN, Jens Christian Frøslev, RIGBOLT, Kristoffer Tobias Gustav, BECH, Esben Matzen, LUNDH, Morten, MAGOTTI, Paola, BALLARÍN-GONZÁLEZ, Borja, PEDERSEN, Søren Ljungberg, VRANG, Niels

## 33: EP 31: 20198117.2 32: 2020-09-24 54: HAM15-52 ANALOGUES WITH IMPROVED AMYLIN RECEPTOR (HAMY3R) POTENCY 00: -

The present invention relates to hAM15-52 analogues with improved amylin receptor (hAMY3R) potency (hAMY3R-EC50 = 250 pM) and which are largely based on the sequence of the human adrenomedullin fragment hAM15-52. The invention further relates to hAM15-52 analogues that are selective amylin receptor (hAMY3R) agonists (hAMY3R-EC50 = 250 pM and an hAM1R-EC50 = 25 nM) and which are largely based on the sequence of the human adrenomedullin fragment hAM15-52. The hAM15-52 analogues according to the invention maintain the good physical stability of hAM15-52. The invention further relates to pharmaceutical compositions comprising such polypeptides and their use in the treatment of a medical condition such as obesity, NASH and/or diabetes.

21: 2023/01749. 22: 2023/02/13. 43: 2024/03/05 51: B07C; G01N 71: COMEX POLSKA SP. Z O.O. 72: Jacek KOLACZ 54: MATERIAL ANALYSIS AND SEPARATION SYSTEM FOR THE DETERMINATION OF THEIR CHEMICAL COMPOSITION AND MATERIAL ANALYSIS AND SEPARATION METHOD FOR THE DETERMINATION OF THEIR CHEMICAL COMPOSITION 00: -

Material analysis and separation system equipped with a conveyor belt, X-ray source, X-ray detector, which has the X-ray source located in such a way that X rays penetrate the measured material over the entire width of the conveyor belt, and the radiation detectors consist of multiple radiation sensors located on the entire width of the belt, while the sensor system is equipped with devices that allow for data processing in dual energy (DE Dual Energy) or multi-energy (ME Multi Energy) X-ray analysis range. The system also includes a computer unit
that controls the system rejecting material particles falling below the separation criterion threshold and devices receiving separated material fractions. The characteristic feature is that the X-ray analysis system is additionally equipped with a hyper-spectral analysis system in the range of infra-red radiation using a source of infra-red radiation (15) and hyperspectral camera (19) analysing the image of rays (18) reflected from the surface (17) of the material (4) being tested. The X-ray system has the multiband X-ray detector (9) in the form of matrices arranged in a series of independent X-ray sensors (3) covering the entire width of the conveyor belt (5), as well as radiation sensors (3) measuring photons at different radiation energy levels after passing through the material (4) providing characteristic Xray attenuation effect. The hyper-spectral infra-red radiation camera (19) has an optical system covering the entire width of the conveyor belt and has a possibility to analyse the reflectance factor of the tested material surface (17) in multiple spectral ranges of the infra-red light. The method of material analysis and separation to determine their chemical composition for their further separation is characterized by introduction of the measured material (4) between the X-ray source (1) and radiation detectors (3) with controlled speed of the conveyor belt (5) and/or with velocity controlled by means of gravity or other known system generating steady movement of the material and the multi-band X-ray detector (9) measures the quantity and energy of X-ray photons (2) for individual independent energy bands and presents them in the form of electrical pulses with intensity proportional to photon energy, and combining the X-ray part with the hyper spectral analysis, carried out by introducing the measured material (4) in the infra-red light radiation (16) and analysing the relcted light beam (18) in multiple spectral ranges of the infra-red light.



21: 2023/01750. 22: 2023/02/13. 43: 2024/03/04 51: A47J 71: JURA ELEKTROAPPARATE AG 72: Christoph GROB 33: EP 31: 20199474.6 32: 2020-09-30 54: METHOD FOR SWEETENING A MILK-CONTAINING FLUID, DISPENSING DEVICE, SWEETENING UNIT AND USE OF A SWEETENING UNIT

00: -

The invention relates to a method for sweetening a milk-containing fluid, characterized in that the milk-containing fluid is passed through a sweetening means. To this end, a sweetening unit (1) for a dispensing device (2) can be used, in which a fluid inlet (4) and a fluid outlet (5) are designed such that a fluid flow through the sweetening means can be generated. The sweetening unit (1) can preferably be placed removably on a milk outlet (20) of a milk delivery unit (19) (see figure 2A).



21: 2023/01864. 22: 2023/02/15. 43: 2024/03/04 51: C21D; C22C

71: ARCELORMITTAL

72: Jean-Michel JACHMICH, Bertrand MICHAUT, Laurent LORICH

#### 54: STEEL FOR LEAF SPRINGS OF AUTOMOBILES AND A METHOD OF MANUFACTURING OF A LEAF THEREOF 00: -

A steel for leaf spring comprising of the following elements 0.4%  $\leq C \leq 0.7$ %; 0.5%  $\leq Mn \leq 1.5$ %;1%  $\leq Si \leq 2.5$ %; 0.001%  $\leq Al \leq 0.1$ %; 0.1%  $\leq Ni \leq 1$ %;0.2%  $\leq Cr \leq 1.5$ %; 0  $\leq P \leq 0.09$ %; 0  $\leq S \leq 0.09$ %; 0%  $\leq N \leq 0.09$ %; 0%  $\leq Mo \leq 0.5$ %; 0%  $\leq V \leq 0.2$ %; 0%  $\leq Nb \leq 0.1$ %; 0%  $\leq Ti \leq 0.1$ %; 0%  $\leq Cu \leq 1$ %; 0%  $\leq B \leq 0.008$ %; 0%  $\leq Sn \leq 0.1$ %; 0%  $\leq Ce \leq 0.1$ %; 0%  $\leq Mg \leq 0.10$ %; 0%  $\leq Zr \leq 0.10$ %; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel comprising, by area percentage, 75% to 98% of Martensite, 2% to 20% of Residual Austenite, with a cumulative optional presence of bainite and ferrite between 0% to 5%

21: 2023/01936. 22: 2023/02/13. 43: 2024/03/04 51: C21D: C22C

71: ARCELORMITTAL

72: Francois-Xavier HOCHE, Didier FORGEOUX, Victor BORDEREAU, Bernard RESIAK 54: FORGED PART OF STEEL AND A METHOD OF MANUFACTURING THEREOF 00: -

A steel for forging mechanical parts comprising of the following elements  $0.04\% \leq C \leq 0.28\%$ ; 1.2% $\leq Mn \leq 2.2\%$ ;  $0.3\% \leq Si \leq 1.2\%$ ;  $0.5\% \leq Cr \leq 1.5\%$ ;  $0.01\% \leq Ni \leq 1\%$ ;  $0\% \leq S \leq 0.06\%$ ;  $0\% \leq P \leq 0.02\%$ ;  $0\% \leq N \leq 0.015\%$ ;  $0\% \leq Al \leq 0.1\%$ ;  $0.03\% \leq Mo \leq 0.5\%$ ;  $0\% \leq Cu \leq 0.5\%$ ;  $0.04\% \leq Nb \leq 0.15\%$ ;  $0.01\% \leq Ti \leq 0.1\%$ ;  $0\% \leq V \leq 0.5\%$ ;  $0.0015\% \leq B \leq 0.004\%$ ; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel having microstructure comprising in area fraction, 55% to 85% of Martensite, 20% to 45% of Auto-tempered Martensite, 0 to 10\% Residual Austenite and, wherein cumulated amounts of Autotempered martensite and martensite is at least 90%.



21: 2023/02530. 22: 2023/02/24. 43: 2024/03/04 51: A23J; C11B 71: EURO-PROTEIN GMBH 72: Dr. Waldemar NEUMUELLER 33: DE 31: 10 2020 122 456.7 32: 2020-08-27 54: PROCESS FOR INDUSTRIAL EXTRACTION

#### 54: PROCESS FOR INDUSTRIAL EXTRACTION OF COLD-PRESSED KERNEL OIL AND PROTEIN CONCENTRATE FROM HULLED OIL-CONTAINING SEEDS USING A PRESSING AID INTRINSIC TO THE SEED 00: -

Industrial extraction of cold-pressed kernel oil is achieved by hulling kernels of an oil-containing seed, separating hulls from a low-hull grain fraction and pressing the cold-pressed kernel oil from the low-hull grain fraction. A cake temperature in an incipient press cake is limited to 70°C and a fraction of the press cake is recycled, blended with the low-hull grain fraction before pressing and re-pressed. Prior to the recycling the fraction of the press cake is either expanded into collets after subjection to pressurized steam or pressed into pellets which are dimensionally stable during re-pressing; and the fraction of the press cake is temporarily heated to more than 100°C before the recycling and cooled back down to a temperature below 60°C before the re-pressing.



21: 2023/02538. 22: 2023/02/24. 43: 2024/03/04 51: B62D

71: ARCELORMITTAL

72: Gagan TANDON

33: IB 31: PCT/IB2020/058990 32: 2020-09-25 54: SIDE STRUCTURE FOR A MOTOR VEHICLE 00: -

Side structure (1) for a motor vehicle (3) comprising an inner and outer frame (11, 13) each forming a closed ring and having two openings corresponding to the front and rear doors (8, 10), wherein said inner and outer frames (11, 13) are each formed by hot stamping respectively an inner and an outer frame blank (111, 113), each being a single tailor welded blank made of steel and wherein said inner and outer frames (11,13) are assembled to form a hollow volume (7) between them.



#### 21: 2023/02765. 22: 2023/02/27. 43: 2024/02/13 51: A61K; A61P

71: GILDA, Suhit Shirish, SHINDE, Amruta Suyash, CHAVAN, Sushila Dagadu, SHINDE, Shital Aniket, KULKARNI, Nilesh Shrikant, PAWAR, Shubhangi Hemraj, PATIL, Rupali Arun

72: GILDA, Suhit Shirish, SHINDE, Amruta Suyash, CHAVAN, Sushila Dagadu, SHINDE, Shital Aniket, KULKARNI, Nilesh Shrikant, PAWAR, Shubhangi Hemraj, PATIL, Rupali Arun

#### 54: BOVINE COLOSTRUM INTERMEDIATE FORMULATION 00: -

Colostrum is the initial milk secreted by mammals following parturition, the composition and physicochemical properties of which are highly dynamic and variable. The composition and physicochemical properties of colostrum during the initial post-partum period has not been systematically reviewed for many years, although the topic remains of interest both to milk producers and processors. In this article, the current understanding of the composition of colostrum, i.e., carbohydrates, proteins, growth factors, enzymes, enzyme inhibitors, nucleotides and nucleosides, cytokines, fats, vitamins and minerals, is reviewed. In addition, the physicochemical properties, i.e., pH and buffering capacity, colour, density and specific gravity, osmotic pressure, somatic cell count, properties of casein micelles, ethanol stability and rennet coagulation properties are discussed, as well as the effects of heat-treating colostrum.



21: 2023/02766. 22: 2023/02/27. 43: 2024/02/13 51: A61K; A61Q

#### 71: NAGMAL, Chaitanya Ganesh 72: NAGMAL, Chaitanya Ganesh 54: HERBAL TOPICAL COMPOSITION OF LEUCAS MARTINICENSIS FROM CRACKED HEELS AND PALMS

00: -

The present invention relates to herbal topical composition of Leucas martinicensis for cracked heels and palms. Since the components in the formulation are from herbal sources it is very safe and ecofriendly and does not produce any adverse effect on the skin. It comprises of a natural wax as an emulsifier, extracts of crack healing herbal extract or powder of Leucas martinicensis, acacia gum and a crack healer fragrant oil. The crack healing herbal extract acts as a humectant, prevents infection and heals the cracks quickly and effectively. The cream spreads evenly and smoothly when applied on the affected parts. The gum and wax prevent water loss from effected parts, which quickens healing and restores the natural softness and suppleness and also serves as an antiseptic.

21: 2023/02767. 22: 2023/02/27. 43: 2024/02/13 51: A61K; A61P 71: GPLIFE HEALTHCARE PVT LTD. 72: PANDYA, shridhar, SAVALIYA, Chetan 54: COMPOSITION OF SYNERGISTIC PHYTOCONSTITUENTS BLEND IN TREATMENT IN DIABETES MELLITUS

00: -

The present invention relates to composition comprising synergistic phytoconstituents blend in treatment in Diabetes mellitus. Further invention relates to process for preparation of composition comprising phytoconstituents without chemical excipients. Another invention relates to synergy blends of extract of Gymnema Sylvestre ext. (Gudmar), Trigonella Foenum-Graecum ext. (Methi), Cinnamomum verum ext. (Cinnamon), Curcuma longa ext. (Curcumin ext), Andrographis paniculata ext. (Kalmegh), Salacia Oblonga ext. (Saptarangi). Here with this invention design with multiple synergy effect, statistical design to improve dosage evaluation parameters, Therapeutical efficacy, potency with no or minimal side effects. It is Excipientless aqueous transparent coated tablet developed by OEM technology. Stability study conclude that there are no significant changes found in dosage release, Dissolution, Disintegration, Friability, Hardiness, Weight variation and appearance. As per clinical evidence, it shows reduces dosage of OHA & insulin with improvement in HBA1C, C-Peptide and average blood glucose. It reduces HBA1C score by 3.0 and 50% Reduction in Fasting and PPBS found in 60 days as an adjuvant with glucose homeostasis. C-Peptide and Homa-B Score also improved in 60 days of human clinical trial. As per Chronic toxicity study and histopathology study, without any mortality, there was no abnormalities found in any organ and in hematological parameters.

21: 2023/02770. 22: 2023/02/27. 43: 2024/02/13 51: A23L; A61K; A61P 71: GPLIFE HEALTHCARE PVT LTD. 72: PANDYA, shridhar, SAVALIYA, Chetan 54: SYNERGISTIC PHYTOCHEMICAL BLEND FOR ARTHRITIS CELL REGENERATION AND PROCESSES FOR THE SAME 00: -

The present invention discloses synergistic nutraceutical or pharmaceutical or dietary supplement anti-inflammatory compositions comprising therapeutically effective combination of Boswellic acid, AKBA, Curcumin and Asparagus. The compositions design for Anti Inflammatory activity and to prevent, control and treat inflammation and several inflammatory related diseases including asthma, osteoarthritis, rheumatoid arthritis, and the like. The invention further discloses improvement in solubility, bioavailability, micromeritics property. Synergy complex characterized by DSC, XRPD, FTIR, SEM analysis for its peak confirmation and nature of actives, and it is concluded there is no interaction found. The results of this study showed that 12-week use of Synergy complex tablet selected by optimization for reduces pain-related symptoms in patients with OA. It is concluded, Curcumin in

combination with enhanced Boswellic acid and AKBA is more effective than individual form as per clinical evidence. Cell regeneration also confirmed by invivo animal model. Finally, stability and photostability study as per ICH guideline confirm optimized formulation are stable.

#### 21: 2023/02772. 22: 2023/02/27. 43: 2024/02/13 51: A23L; C12J

71: GILDA, Suhit Shirish, SHINDE, Shital Aniket, SHINDE, Amruta Suyash, CHAVAN, Sushila Dagadu, PAWAR, Shubhangi Hemraj, SHINDE, Namdeo Ganpat

72: GILDA, Suhit Shirish, SHINDE, Shital Aniket, SHINDE, Amruta Suyash, CHAVAN, Sushila Dagadu, PAWAR, Shubhangi Hemraj, SHINDE, Namdeo Ganpat

# 54: THE PROCESS OF PREPARATION OF VINEGAR BY AN AEROBIC CONDITION 00: -

A process for preparation of vinegar by using fusion of techniques, firstly anaerobic condition and followed by an aerobic condition with other natural pharmaceutical acceptable excipients. Further invention relates to other natural pharmaceutical acceptable excipients selected from fermenting agent, sweetener. Yet another invention relates to the cider vinegar uses for treatment of anti-diabetic.

21: 2023/02874. 22: 2023/02/27. 43: 2024/03/04 51: F27D

- 71: ARCELORMITTAL
- 72: Benoît DRELON

33: IB 31: PCT/IB2020/059353 32: 2020-10-06 54: LANCE FOR BLOWING OXYGEN IN STEELMAKING

#### 00: -

A lance (1) for blowing oxygen onto a bath of molten steel comprising a tip (15) provided with first oxygen ejection means (16) and a distributor (17) provided with second ejection means (18).



21: 2023/02882. 22: 2023/02/27. 43: 2024/03/04

51: A62C; C09K; D03D

71: 1824930 ALBERTA LTD.

72: Wesley James WALL, Adam WALL, Shekaib ADAB

33: US 31: 63/069,670 32: 2020-08-24 54: INTUMESCENT NON-METAL MESH 00: -

An intumescent mesh comprises a mesh structure woven from strands that define openings in the mesh structure, the strands being made from nonmetal materials. An intumescent material is applied to the strands, the intumescent material being carried such that, in an inactivated state the intumescent material permits airflow through the openings in the mesh structure, and in an activated state, the intumescent material swells and restricts airflow through the openings in the mesh structure. The intumescent mesh is able to withstand a temperature of at least 980°C for at least 10 minutes prior to failure.



21: 2023/02884. 22: 2023/02/27. 43: 2024/01/18 51: G06Q

71: ONESPARK (PTY) LTD

72: KAPLAN, Josh Tana, SMITH, Gregory Warren, GILL, Francis Arthur

# 33: ZA 31: 2020/05734 32: 2020-09-16 54: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR DETERMINING A REDUCED INSURANCE PREMIUM

#### 00: -

A system for determining a reduced insurance premium includes at least one computer and a processor. The system receives a no lapse discount request relating to a no-lapse period implemented in respect of a policy of a client. The system receives and/or accesses policy data which includes client data and non-client data relevant to the policy. A processor calculates a premium which covers a cost of risk and a cost of expenses associated with the policy and allows for a predefined profit allocation. The processor calculates the premium based on the policy data and on the assumption that the policy will not be cancelled or allowed to lapse during the nolapse period. The cost of expenses and the predefined profit allocation for the policy are kept unchanged relative to another policy of the same type issued by the insurer, but in respect of which a no-lapse period does not apply.



21: 2023/02885. 22: 2023/02/27. 43: 2024/01/18 51: G06Q 71: ONESPARK (PTY) LTD 72: GILL, Francis Arthur, SMITH, Gregory Warren, KAPLAN, Josh Tana 33: ZA 31: 2020/05735 32: 2020-09-16 33: ZA 31: 2020/06270 32: 2020-10-09 54: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR DYNAMICALLY ADJUSTING INSURANCE COVER AND AN INSURANCE PREMIUM 00: -

A system for dynamically adjusting insurance cover and an insurance premium associated with a policy of a client includes at least one computer and a processor. The system calculates a first cover amount by assessing a financial need which would result from occurrence of an insured event during a first period. A first premium is based on the first cover amount. The system then uses adjusted policy data, at least some of which it automatically generates, applicable to a second period of the policy, to calculate a second cover amount by assessing a financial need which would result from occurrence of an insured event during the second period. A second premium is based on the second cover amount. In this way, the system dynamically updates and calculates a premium for each period of the policy based on the financial need of the client in that particular period.



21: 2023/02886. 22: 2023/02/27. 43: 2024/01/18 51: G06Q

71: ONESPARK (PTY) LTD

72: KAPLAN, Josh Tana, SMITH, Gregory Warren, GILL, Francis Arthur

33: ZA 31: 2020/05735 32: 2020-09-16 33: ZA 31: 2020/06270 32: 2020-10-09 54: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR DETERMINING A PROTECTION LEVEL AND OPTIMAL INSURANCE COVER 00: -

A system for determining a protection level and optimal insurance cover for a client includes at least one computer and a processor. The system receives current cover data for at least one current insurance policy associated with the client or input data in respect of a possible insurance policy for the client. The system generates benchmark cover data associated with proposed insurance cover for the client. A processor compares the current cover data, or the input data, with the benchmark cover data in order to determine a protection level of the client. Protection level data is generated. The protection level data may include a maximum protection level obtainable by the client if a premium indicated by the client as affordable is insufficient for the client to obtain a benchmark cover amount or benchmark cover level.



21: 2023/03443. 22: 2023/03/09. 43: 2024/02/14 51: C02F 71: SOMERSET INTERNATIONAL FINANCE

DESIGNATED ACTIVITY COMPANY 72: OSBORNE, David, GRAHAM, James, ORR, Geoff, FISHER, II, James C. 33: US 31: 63/075,592 32: 2020-09-08 54: METHODS AND SYSTEMS FOR DEWATERING TAILINGS 00: -

Methods of dewatering tailings, including tailings streams that may include a clay, ultra-fine particles, or both. The methods may include providing a tailings stream, dewatering the tailings stream with a dewatering apparatus to produce a first cake and a first residual effluent stream, contacting the first residual effluent stream with one or more additives, and dewatering the first residual effluent stream with a solid bowl centrifuge to produce a second cake and a second residual effluent stream. The methods may include providing a tailings stream, contacting the tailings stream with one or more additives, and dewatering the tailings stream with a solid bowl centrifuge to produce a first cake and a first residual effluent stream.



21: 2023/03460. 22: 2023/03/08. 43: 2024/02/07 51: C02F

71: SEOUL VIOSYS CO., LTD.

72: JU, Byeong Cheol, CH OI, Jae Young, JO, Ji Hyun

33: KR 31: 10-2019-0111037 32: 2019-09-06 54: LIGHT EMITTING DEVICE 00: -

A light emitting device comprises: a body which is arranged on the liquid surface that forms the boundary between air and liquid, and which can move up, down, right, or left in accordance with the floating of the liquid surface; and a light source unit,

which is mounted on the body so as to emit light at the liquid, thereby processing the liquid.



21: 2023/03590. 22: 2023/03/15. 43: 2024/02/29 51: A43B 71: BAUCHOP, VINCENT WILLIAM

72: BAUCHOP, VINCENT WILLIAM 33: ZA 31: 2022/03222 32: 2022-03-18 54: SHOE ACCESSORY

### 00: -

A shoe accessory is disclosed for a shoe having at least one protuberance projecting from a sole thereof, the shoe accessory being adapted to be worn by a sportsman over his shoe and comprises a sole contact surface, a ground contact surface, and at least one releasable fastener configured to permit displaceable connection of the shoe accessory to a bottom of the sole.



21: 2023/04878. 22: 2023/04/26. 43: 2024/02/07 51: A61N 71: SEOUL VIOSYS CO., LTD. 72: YOON, Yeong Min, BAE, Hee Ho, LEE, A Young, LEE, Chung Hoon 33: US 31: 62/820,493 32: 2019-03-19 33: US 31: 16/821,024 32: 2020-03-17 54: LIGHT EMISSION DEVICE 00: -

A light emission device comprises a light source unit for emitting light at wounded skin and a control unit for controlling the light source unit. The light source unit includes: a substrate; one or more first light sources which are provided on the substrate and which emit first light having a blue wavelength band; and one or more second light sources which are provided on the substrate and which emit second light having red to near infrared wavelength bands. The first light and the second light have different skin penetration depths according to the wavelength.



21: 2023/04938. 22: 2023/05/03. 43: 2024/02/05 51: A61K; B22F; C22B 71: INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS) 72: THALAPPIL, Pradeep, ABHIJIT, Nag 33: IN 31: 202041047984 32: 2020-11-03 54: METHOD FOR SELECTIVE EXTRACTION OF GOLD BY NIACIN 00: -

The present invention relates to a method for selectively precipitating and extracting gold in aqueous solution by niacin. Aqueous  $Au^{3+}$  is precipitated selectively as it's complex from gold containing acidic mixtures by biomolecule niacin, with the formula [AuCl4]<sup>-</sup>[2Niacin+H]<sup>+</sup>. After precipitation, the complex is separated from impurities by filtration. Recovered complex is reduced by using a reductant like sodium metabisulfite (Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>) to recover gold metal. The method is highly cost-effective, sustainable and recovers about 96.5% of gold in 2 minutes from an electronic waste composed of Au, Cu and Ni. The method is also employed to extract gold from nanomaterials waste generated in laboratories.



#### 21: 2023/05172. 22: 2023/05/10. 43: 2024/01/09 51: G21C

71: Westinghouse Electric Company LLC

72: LEVINSKY, Alex, ALESHIN, Yuriy, HARKNESS, Alexander W.

#### 33: US 31: 17/084,403 32: 2020-10-29 54: DEVICES, SYSTEMS, AND METHODS FOR CONFIGURING THE LAYOUT OF UNIT CELL OF A REACTOR CORE

00: -

A configurable unit cell of a core of a nuclear reactor is disclosed herein. The configurable unit cell includes a core block material and a plurality of interchangeable components configured to affect a performance parameter of the core of the nuclear reactor. The configurable unit cell further includes a plurality of channels defined within the core block material. Each channel of the plurality of channels is configured to engage an interchangeable component of the plurality of interchangeable components in an operating configuration. Each channel of the plurality of channels is separated from an adjacent channel of the plurality of channels by a predetermined pitch.



21: 2023/05179. 22: 2023/05/10. 43: 2024/01/09 51: B01J; C01B; C01G 71: TANIOBIS GmbH 72: SCHNITTER, Christoph, ALBRECHT, Sven, MARSCHALL, Roland, KULISCHOW, Natalia, LADASIU CIOLACU, Flaviu Calin

#### 33: DE 31: 10 2020 214 923.2 32: 2020-11-27 54: SHEET NIOBATES FOR USE IN PHOTOCATALYSTS

00: -

The present invention relates to sheet niobates of the formula  $H_aA_bSr_2Nb_3O_{10},$  where H stands for a group comprising the elements H<sup>+</sup> and  $H_3O^+$  and A stands for an element of the group K<sup>+</sup>, Cs<sup>+</sup> and Rb<sup>+</sup>, with  $0.6 \le a \le 1$  and  $0 \le b \le 0.4$ , and with a + b = 1, said sheet niobates being characterized in that they have different sheet distances. The present invention also relates to a method for producing said sheet niobates and to the use of said sheet niobates in photocatalysts.



AA Intensity / arbitrary unit

#### 21: 2023/05301. 22: 2023/05/15. 43: 2024/01/04 51: B02C

71: Continental Reifen Deutschland GmbH, Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V.

72: BEHM, Frank, HERZOG, Katharina, JANCZAK, Norbert, RECKER, Carla, VENZ, Carsten, PRÜFER, Dirk, SCHULZE GRONOVER, Christian 33: DE 31: 10 2020 214 356.0 32: 2020-11-16 54: METHOD FOR OBTAINING NATURAL RUBBER FROM PLANT MATERIAL 00: -

The invention relates to a method for obtaining natural rubber from plant material, containing at least the step of grinding the plant material by means of at least one ball mill having grinding elements. The invention also relates to the natural rubber obtained by means of said method and to the use of at least one ball mill having grinding elements to grind plant material in the course of obtaining natural rubber from plant material. In the method, the ball mill has a non-metal lining and/or the grinding elements have at least one non-metal surface.

21: 2023/05491. 22: 2023/05/22. 43: 2024/01/19 51: C10M

71: EVONIK OPERATIONS GMBH 72: SCHWEIßINGER, Emily, Clare, MAIER, Stefan, Karl, NOTHDURFT, Katja, GROß-ONNEBRINK, Yvonne, JANßEN, Dieter, PLETSCH, Holger, HILF, Stefan, KLEINSCHMIDT, Denise, BABIK, Sebastian 33: EP 31: EP22174980 32: 2022-05-24 54: ACRYLATE-OLEFIN COPOLYMERS AS HIGH VISCOSITY BASE FLUIDS

#### 00: -

The invention relates to acrylate-olefin copolymers and to a method for the preparation of these polymers. The present invention is also directed to lubricant compositions comprising the aforementioned copolymers, as well as to the use of the copolymers as a lubricant additive or a synthetic base fluid in a lubricating oil composition, preferably in a gear oil composition, a transmission oil composition, a hydraulic oil composition, an engine oil composition, a marine oil composition, an industrial lubricating oil composition or in grease.

21: 2023/05505. 22: 2023/05/22. 43: 2023/11/29 51: G06Q 71: AGASHE, Mandar

72: AGASHE, Mandar 33: IN 31: 202121060001 32: 2021-12-22 54: A SYSTEM FOR SECURE TRANSACTION PROCESSING AND A METHOD THEREOF 00: -

The present disclosure discloses a system (100) and method (200) for secure transaction processing. The system(100) comprises a payment application (102), a memory (106), and a transaction server (108)hosting the application (102). The application(102) facilitates a registered user to generate a request for initiating a payment transaction. The memory(106) stores a list of identifiers associated with registered users and registration details corresponding to each user. The transaction server (108) generates a first one-time verification code/PIN based on the transaction request and sends it to the application (102). The transaction server (108) receives a second verification code/PIN via a second user interface (20), compares the two codes/PINs, and sends transaction data to the issuing bank (30) of the first user, via an acquirer bank (40), for the completion of the payment transaction when the codes/PINs match. The system (100) enables users to carry out payment transactions without entering their sensitive financial accounts.



21: 2023/05527. 22: 2023/05/22. 43: 2024/01/04 51: A61B 71: UNIVERSITY OF CAPE TOWN

72: MFOLOZI, Sipho 33: GB 31: 2016836.5 32: 2020-10-23 54: METHODS AND SYSTEMS FOR DETERMINING A TIME OF DEATH 00: -

A body temperature measurement device includes a handle having a power supply for powering power its electronic components. A probe extends from the handle and has temperature sensors arranged along its length. The temperature sensors, as well as an orientation sensor provided in the handle, are in communication with a processor configured to communicate the temperatures and orientation sensor measurements to a remote computing device. A method for determining a time of death includes receiving temperature measurements of adjacent sites within a corpse and selecting a 3D human computational phantom corresponding to the corpse. Heat transfer from the corpse subsequent to death is simulated using the phantom and temperatures are calculated for the sites over candidate post-mortem intervals (PMIs). The calculated and measured temperatures are compared and a final PMI estimate outputted based on a candidate PMI resulting in a correlation between the calculated and measured temperatures.



21: 2023/05545. 22: 2023/05/23. 43: 2024/01/04 51: A23K

71: KROON, Christiaan Michael 72: KROON, Christiaan Michael, BASSON (Deceased), Carl Magnus Lonngren 54: A SALT LICK FOR ANIMALS 00: -

The invention relates to an animal feed composition, a salt lick 10 for animals, e.g., cattle, pigs, goats, sheep, horses and wildlife etc. and to a method of manufacturing a salt lick. The salt lick 10 comprises 48% to 55% by weight salt, 25% to 30% by weight diatomaceous earth, and 10% to 20% by weight moisture. The moisture content comprises water and molasses by-product. The moisture content comprises 15% by weight molasses by-product and 5% by weight water. The salt lick 10 is moulded into a circular cylindrical shape with a central 25mm through-hole 9.



21: 2023/05573. 22: 2023/05/23. 43: 2024/01/04 51: C10B; C10J; C10L; C25B 71: iGas energy GmbH 72: LENTZ, Karl-Heinz 33: EP(DE) 31: 20208567.6 32: 2020-11-19 54: HYBRID POWER PLANT FOR AUTONOMOUSLY SUPPLYING ENERGY TO BUILDINGS AND INDUSTRIAL FACILITIES 00: -

The invention relates to a hybrid power plant for autonomously supplying energy to buildings, in particular residential buildings, and industrial facilities which are arranged in an area that comprises a source of biomass. The hybrid power plant is preferably arranged in the vicinity of buildings and industrial facilities to be supplied in order to provide energy locally. The hybrid power plant comprises at least one system for generating power from renewable energy sources and a power-to-X device for thermochemically converting electricity from renewable energy sources and biomass into other energy carriers which are stored and converted back into electricity on demand. In order to supply energy to the buildings and industrial facilities to be supplied during dark doldrums, the hybrid power plant comprises one or more energy storage devices and at least one system for converting energy back into electricity. The supply of energy to buildings or industrial facilities by means of the hybrid power plant is climate and CO<sub>2</sub> neutral.



21: 2023/05574. 22: 2023/05/23. 43: 2024/01/04 51: A43B

71: Skechers U.S.A., Inc. II

72: WEEKS, John Maxwell, KELLEY, Scott,

CHUANG, Frank F., LIAO, Pei-Chun, TJA, Johnson, XIE, Hui, STOCKBRIDGE, Kurt

33: US 31: 63/256,521 32: 2021-10-15

# 54: FOOTWEAR COUNTER FOR EASIER ENTRY AND REMOVAL

00: -

An article of footwear includes a heel cup attached to an upper and extending from a sole structure to at least a portion of a rear heel collar of the upper. The heel cup is uniformly molded with an upper portion, midportion, and lower portion and the upper portion has a smaller mediolateral length than the midportion, and the midportion and lower portion from a concave structure configured to receive the heel. The upper portion is capable of distorting from a first configuration into a second configuration under a load of a user's foot when the user is donning the footwear. In the second configuration, at least part of the upper portion is lowered relative to the first configuration and is capable of returning to the first configuration after the load of the user's foot is removed. The midportion includes a peripheral portion thicker than a central portion.



21: 2023/05604. 22: 2023/05/24. 43: 2024/01/04 51: G21C; F28F; F28D 71: CHINA NUCLEAR POWER ENGINEERING CO., LTD.

72: HU, BEI, LIU, JING, LU, SONG, WEN, HUA, ZHANG, LILI, LI, BAILI, KANG, JIAN, QIU, SHANSHAN, HAN, JINQUAN, ZHANG, FENGLIN, ZHU, YUNYUN, CHEN, HAONAN, LIU, XIN 33: CN 31: 202011346554.9 32: 2020-11-26 54: PASSIVE COLD STORAGE HEAT EXCHANGER

00: -

A passive cold storage heat exchanger, comprising: a cooling room (1) to be cooled, a heat pipe assembly (4), a cold storage water tank (3), and a ventilation room (2). The ventilation room (2) is adjacent to the cooling room (1) and is separated therefrom by a floor slab (22); the ventilation room (2) is disposed above the cooling room (1); the heat pipe assembly (4) comprises at least two heat pipes (8) used for heat transfer; the heat pipes (8) are used for containing a liquid working medium (19); each heat pipe (8) comprises an evaporation section (5), a heat insulation section (6), and a condensation section (7) which are connected in sequence; the heat pipes (8) run through the floor slab (22) between the ventilation room (2) and the cooling room (1); the heat insulation sections (6) are disposed in the floor slab (22); the evaporation sections (5) are disposed in the cooling room (1); the condensation sections (7) are disposed in the cold storage water tank (3); the cold storage water tank (3) is used for introducing cooling water for cold

storage of the liquid working medium (19) in the heat pipes (8); the cold storage water tank (3) is disposed in the ventilation room (2). By means of the passive cold storage heat exchanger, after losing all the power supplies inside and outside the nuclear power plant, the temperature of the cooling room can be maintained not to exceed a design value within a certain period of time only by means of water cold storage and passive heat transfer of the heat pipes.



21: 2023/05631. 22: 2023/05/25. 43: 2024/01/04 51: F16K

71: Georg Fischer Rohrleitungssysteme AG 72: WASETZKI, Maxim, CANTONI, Flavio 33: EP(CH) 31: 22 176 399.8 32: 2022-05-31

# 54: LOCKABLE LATCH

Device for locking a turning handle of a valve, preferably of a rotary valve, especially preferably of a ball valve or a shut-off valve, containing a handle for actuating a shut-off element of a valve, a latching ring that can be arranged in a rotationally conjoint manner on a valve housing support for an actuating device and an adapter that can be arranged on a drive journal of a shut-off element such that it can be fixed and released again, wherein the adapter and the handle are connected to one another in a releasable manner, wherein an axially displaceable and non-rotatable sliding ring is arranged on the handle, wherein the sliding ring can be displaced axially into a locking or open position and in the locking position the sliding ring locks the rotational movement of the handle and the handle cannot be

removed from the valve on account of the position of the sliding ring in the locking position.



21: 2023/05632. 22: 2023/05/25. 43: 2024/01/17
51: A47L; E04H
71: Fluidra Waterlinx (Pty) Ltd
72: VERSTER, Johannes Jacobus, VAN DER
VYVER, Donovan
33: ZA 31: 2022/05874 32: 2022-05-27
54: An Adaptor
00: The invention provides an adaptor for connecting a swimming pool cleaning device to a vacuum hose.
The adaptor includes a body which is connectable to a vacuum hose and which defines multiple

connectable to different swimming pool cleaning devices.



21: 2023/05695. 22: 2023/05/26. 43: 2024/01/04 51: G05D

71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD.

72: WANG, CHAO

# 33: CN 31: 202011286748.4 32: 2020-11-17 54: TEMPERATURE CONTROL SYSTEM FOR DEVICE AND TEMPERATURE CONTROL METHOD

00: -

A temperature control system for a device and a temperature control method. The control system comprises: a temperature measurement module (1), a temperature control module (2) and a temperature adjustment module (3), wherein the temperature measurement module (1) is used for measuring and obtaining the temperature at the current moment of the device; the temperature control module (2) is used for obtaining the predicted temperature at the next moment according to the temperature at the current model, and for outputting a temperature adjustment module (3) according to the predicted temperature at the next moment and a temperature adjustment module (3) according to the predicted temperature at the next moment and a temperature adjustment module (3) according to the predicted temperature at the next moment and a temperature threshold value; the

temperature adjustment module (3) adjusts the temperature of the device according to the temperature adjustment instruction; and the temperature prediction model is obtained in advance. The temperature control method improves the temperature stability of the device during a working process and can ensure the electric energy conversion efficiency of the device.



21: 2023/05707. 22: 2023/05/26. 43: 2024/01/05 51: C07C; C08J; C08K 71: NEVEON GERMANY GMBH 72: BETTINGER, Herbert 33: DE 31: 10 2020 131 581.3 32: 2020-11-27 54: PROCESS FOR THE DECOMPOSITION OF POLYURETHANE

00: -

The invention relates to a method for decomposing polyurethane, wherein material containing polyurethane is heated to a temperature from 190 °C to 250 °C under overpressure in the presence of an aqueous solution containing 1 to 45 mass percent urea. It further relates to a liquid process medium obtainable thereby.



21: 2023/05742. 22: 2023/05/29. 43: 2024/01/17 51: C12N: A61K

- 71: STELLENBOSCH UNIVERSITY
- 72: VAN STADEN, ANTON DU PREEZ, SMITH, CARINE, NICHOLAS, DOMINIC, DICKS, LEON

# MILNER THEODORE, VERMEULEN, ROSS RAYNE

#### 33: ZA 31: 2020/07119 32: 2020-11-16 54: FLUORESCENT FUSION BASED HETEROLOGOUS PEPTIDE PRODUCTION 00: -

The present invention relates to a method of producing a heterologous polypeptide of interest in a host cell, wherein the method comprises expressing a fusion protein comprising the heterologous polypeptide of interest and a fluorescent fusion partner in a host cell modified to include a nucleic acid encoding a lytic protein operably linked to a promoter, wherein translation of the lytic protein is under control of an RNA thermometer. Also provided are E. coli cells which express the fusion protein and include a nucleic acid encoding a lytic protein operably linked to a promoter, wherein translation of the lytic protein regulated by an RNA thermometer.



21: 2023/05752. 22: 2023/05/29. 43: 2024/01/08 51: G07C

- 71: TYRPA, Miroslav
- 72: TYRPA, Miroslav
- 33: CZ 31: PV 2021-18 32: 2021-01-18

# 54: ELECTRONIC SECURITY SYSTEM

00: -An electronic security system, comprising a portable electronic controller (1) equipped with an internal memory (2) to store a one-time control code (3), and respectively an identifier (10) and/or a blocking code (11) as well, and a structurally separated at least

one electronic release unit (4), which is however functionally connected to it, the electronic release unit (4) comprises a central memory (5) provided to store the set (8) of the backup one-time control codes, and respective the identifier (10) as well, an actuator (7) and a control processor (6), which is communicatively connected to the central memory (5) of the electronic release unit (4), to the internal memory (2) of the portable electronic controller (1), and to the actuator (7). The actuator (7) is put into operation if, in the set (8) of the backup one-time control codes, there is a still unused backup one-time control code (3') identical to the one-time control code (3) stored in the internal memory (2) of the portable electronic controller (1). The system is especially provided for objects and facilities with the requirement for a maximum degree of security.



21: 2023/05769. 22: 2023/05/29. 43: 2024/03/19 51: B65B

71: Claudia Angelique SINGH, Tania MULLIGAN, Ashley Julian Boyce MULLIGAN
72: Claudia Angelique SINGH
33: ZA 31: 2022/05957 32: 2022-05-30
54: FREIGHT SOCK AND METHOD OF USING
SAME TO SECURE A LOAD
00: -

A device for, and method of, packaging articles or materials are disclosed, in particular, a reusable freight sock designed to fit a pallet with load thereon like a stocking would fit a leg. The reusable freight sock comprising at least one length of reusable fabric sheeting, foldable to define a bag with an internal volume (iv); opening means, to permit selective access to, or closure of, said internal volume (iv), said reusable fabric sheeting being characterised by being displaceable between a collapsed condition wherein said internal volume (iv) equals or approaches zero and an expanded condition wherein said internal volume (iv)

resembles a volume (v) of the load (L) positioned on said platform; and one or more arrestors, integrally formed with said fabric sheeting, for arresting motion of the load (L) relative to the platform during transport.



21: 2023/05801. 22: 2023/05/30. 43: 2024/01/08 51: A61F

- 71: ZUIKO Corporation
- 72: UMEBAYASHI, Toyoshi
- 33: JP 31: 2020-199864 32: 2020-12-01

# 54: METHOD FOR PRODUCING WEARABLE ARTICLE

#### 00: -

A method for producing a wearable article, wherein: the method comprises a step for producing a waist member (10) having a waist body (16) capable of expanding and contracting in the width direction and male fasteners (12), a step for joining an absorber (20) to the waist body (16), and a step for folding the absorber (20) in half in the orthogonal direction and then folding both side portions (10a) of the waist member (10) in the width direction and engaging the male fasteners (12) with female fasteners (22) of the absorber (20); and a step for producing the absorber (20) includes a step for holding an SAP on a coreside first non-woven fabric so as to form a first lowdensity region that holds an SAP of lower density than a holding region for holding the SAP and that is adjacent to both orthogonal-direction ends of the holding region in the orthogonal direction to produce a core.



21: 2023/05805. 22: 2023/05/30. 43: 2024/01/08 51: B31B; B65D 71: Graphic Packaging International, LLC 72: SCHROEDER, Derek 33: US 31: 63/129,060 32: 2020-12-22 54: END FLAP ENGAGEMENT ASSEMBLY FOR ERECTING CARTONS AND RELATED SYSTEMS AND METHODS 00: -

A method of at least partially erecting a carton with a carton forming system includes loading a blank in a blank infeed assembly, the blank having a plurality of panels and a plurality of end flaps foldably connected to a respective panel of the plurality of panels. The method further includes positioning the blank on at least one conveyor assembly, operating the at least one conveyor assembly to move the blank in a downstream direction of the system toward a carton erection assembly, the carton erection assembly including an end flap engagement assembly positioned adjacent the at least one conveyor assembly, and rotating the end flap engagement assembly such that a portion of the end flap engagement assembly contacts and moves at least one end flap of the plurality of end flaps of the blank as the blank moves in the downstream direction.



21: 2023/05807. 22: 2023/05/30. 43: 2024/01/08 51: A23G

71: Cargill, Incorporated

72: DE WITTE, Ingrid Godelieve Liliane, TROCH, Marc Frans Valentine

33: PCT/EP(BE) 31: 2020/084155 32: 2020-12-01 33: PCT/EP (BE) 31: 2020/084156 32: 2020-12-01 54: METHOD FOR PREPARING A CHOCOLATE PRODUCT

00: -

The invention relates to a method for preparing a chocolate product, the process comprising: (a) providing a mixture, said mixture comprising: (i) one or more cocoa components; (ii) a non-reducing sugar; (iii) one or more reducing sugars; and (iv)

water; and (b) mechanically agitating the mixture at a temperature at which the mixture is in a liquid state. The invention further relates to a chocolate product comprising: (I) one or more cocoa components; (II) a non-reducing sugar; (III) one or more reducing sugars; and (IV) water wherein said chocolate product comprises between 4 and 20 wt.% of water with respect to the weight of the chocolate product, preferably between 6 and 15 wt.% of water with respect to the weight of the chocolate product.

#### 21: 2023/05810. 22: 2023/05/30. 43: 2024/01/08 51: A61F 71: ZUIKO Corporation 72: UMEBAYASHI, Toyoshi 33: JP 31: 2020-199863 32: 2020-12-01 **54: WEARING ARTICLE** 00: -

A wearing article (1) is provided with: a waist member 10 having a waist body stretchable in the width direction and a male fastener (12); and an absorbent body (20) that is placed on the back part, the crotch part, and the front waist part of a wearer. The absorbent body (20) has a core (25), a surface sheet (24), a back sheet (26), and a female fastener (22). The core (25) has a core-side first nonwoven fabric having a retention region retaining SAP and a first low-density region retaining SAP that has a low density and is adjacent in the orthogonal direction to both end portions in the orthogonal direction of the retention region. The male fastener (12) and the female fastener (22) are fastened to each other while the absorbent body (20) is folded into two parts in the orthogonal direction and both end portions (10a) of the waist member (10) are folded in the width direction.



21: 2023/05811. 22: 2023/05/30. 43: 2024/01/08 51: A01N; A01P

71: Syngenta Crop Protection AG

72: ROE, Stephen, HOUILLON, Floriane, MASON, Beverley, STUART, Clair

33: EP(CH) 31: 20215262.5 32: 2020-12-18

#### 54: ISOCYCLOSERAM FORMULATION 00: -

This invention relates to a composition comprising: (a) isocycloseram, (b) a polyoxyalkylene copolymer, (c) an acrylic graft copolymer, and (d) an oxygenated hydrocarbon compound.



#### 21: 2023/05812. 22: 2023/05/30. 43: 2024/01/18 51: A61K; A61Q

71: Givaudan SA

72: SENNELIER PORTET, Bénédicte, MEUNIER, Marie, REYNAUD, Romain, SCANDOLERA, Amandine

#### 33: GB 31: 2020183.6 32: 2020-12-18 54: PLANT EXTRACTING METHOD 00: -

The present disclosure provides a method of preparing a cosmetic active ingredient from patchouli, as well as the cosmetic active ingredient thus obtained and cosmetic compositions comprising the same.

21: 2023/05829. 22: 2023/05/31. 43: 2024/01/08 51: B65D

- 71: ANTONIO MANUEL DE VEIGA MARTINS
- 72: MARTINS, Antonio Manuel De Veiga 54: HINGED CLOSURE FOR AEROSOL CONTAINER

00: -

The invention provides a closure for protecting a dispensing mechanism of an aerosol container. The closure is a single piece, hinged closure comprising a closure body, securable over the container, and a lid, hingedly connected to the closure body and moveable between a closed position in which the lid covers the dispensing mechanism, and an open position in which the dispensing mechanism is exposed. The closure body comprises a top wall, with an aperture defined therein for receiving the dispensing mechanism, a downwardly depending skirt, sized to fit about the circumference of the container and engagement means for engaging the closure body with a rim of the aerosol container. The lid comprises a top surface and a collar extending from the outer edge of top surface. The height of the collar exceeds the height of that portion of the

dispensing mechanism extending above the closure body top wall aperture.



21: 2023/05850. 22: 2023/05/31. 43: 2024/01/08 51: G01R

71: Hyosung Heavy Industries Corporation 72: JO, Hyang Eun, SEO, Hwang Dong, JUNG, Jae Ryong

# 33: KR 31: 10-2021-0094146 32: 2021-07-19 54: BATTERY FIRE PREVENTION AND DIAGNOSIS SYSTEM

00: -

The present invention relates to a battery fire prevention and diagnosis system comprising: an ultra high frequency (UHF) sensor provided inside or outside a battery so as to measure radiated electromagnetic waves; a data acquisition unit for receiving a radiated electromagnetic wave signal measured by means of the UHF sensor; a noise/defect cause database (DB) containing site noise data for sites, which are being operated, and defect cause data for defect causes; and a diagnosis unit for determining a defect cause and whether the battery is abnormal on the basis of radiated electromagnetic wave data acquired by the data acquisition unit and the site noise data and the defect cause data in the noise/defect cause DB.



300 ... Data acquisition unit 500 ... Diagnosis unit AA ... Rack BB ... Module CC ... Battery cell DD ... Control system EE ... Site noise data FF ... Defect cause data

21: 2023/05872. 22: 2023/06/01. 43: 2024/01/09 51: B43L

71: GUIZHOU MINZU UNIVERSITY

72: XIE, JIAYIN, HE, TIANPENG, LIANG, YOUYOU, CHENG, JUN, YI, MINGMING, CHEN, TIANLAN

#### 54: APPARATUS FOR SAFELY ELIMINATING INFORMATION ON THERMO-SENSITIVE PAPER BY USING HIGH TEMPERATURE 00: -

The present invention relates to an apparatus for safely eliminating information on thermo-sensitive paper by using high temperature, including: a housing, and a power source, a heating control circuit and an inner container that are mounted in the housing, and further including a push button embedded in the housing, wherein the heating control circuit is electrically connected to the power source by using the push button; the housing is provided with a mounting hole; the push button is disposed in the mounting hole and is fixedly connected to the inner container; a heat conducting head is arranged at one end of the inner container, and is provided with a heat emitting element K; and the heat emitting element K is fixed to the heat conducting head. According to the present invention, the inner container is pushed by using the push button, so that the heat conducting head is protruded from an opening of the housing. Meanwhile, a loop between the power source and the heating control circuit is also connected by using the push button. A protective working head is used to smear the

thermo-sensitive paper, so that the information on the thermo-sensitive paper disappears due to heating, thereby masking an information data on the thermo-sensitive paper.



21: 2023/05880. 22: 2023/06/01. 43: 2024/01/09 51: H01B; B60R 71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD. 72: WANG, CHAO

# 33: CN 31: 202022990990.1 32: 2020-12-11 54: FLEXIBLE ALUMINUM CONDUCTIVE WIRE BODY, CONDUCTIVE MEMBER AND AUTOMOBILE

00: -

A flexible aluminum conductive wire body, including an aluminum conductive core (100) and an insulating layer (200) wrapped outside the aluminum conductive core (100); the aluminum conductive core (100) includes at least one selected from an aluminum wire composite structural member (110) and an aluminum foil composite structural member (120). A conductive member and an automobile are also disclosed. When the conductive wire body arranged on a shell of the automobile is used as a wire harness for electrical connection, the flexible aluminum conductive wire body is deformable along with the shape of the shell to avoid being bend. When encountering and obstacle, the flexible aluminum conductive wire body can bypass the obstacle according to the shape of the obstacle, thereby avoiding machining a hole in the wire body. In addition, the flexible aluminum conductive wire body can be easily mounted, thereby improving the mounting efficiency of the wire harness.



21: 2023/05926. 22: 2023/06/05. 43: 2024/01/10 51: G06Q 71: LANDOBYTE (PTY) LTD 72: JANSE VAN RENSBURG, Rhyno, TIMM, Bevan, Charles, VAN ROOYEN, Abraham 33: ZA 31: 2022/08116 32: 2022-07-21 **54: A USER MANAGEMENT SYSTEM** 00: -

A user management system which includes user account creation means for creating a user account through which a user is capable of trading via the trading platform, the user account creation means including receiving means for receiving identification details of the user, verification means for verifying the identification details of the user, and permission defining means for defining permissions of the user in order to control actions available to the user in relation to the trading platform, and storing means for storing data relating to the created user account on a central database accessible by any registered and authorised user.



#### 21: 2023/05938. 22: 2023/06/05. 43: 2024/01/10 51: G06Q

71: BENLACHTAR, Yannis

72: BENLACHTAR, Yannis

33: ZA 31: 2020/08049 32: 2020-12-23

54: A METHOD AND SYSTEM FOR PROCESSING FINANCIAL TRANSACTIONS FOR A CUSTOMER 00: -

The invention relates to a method and system for processing financial transactions for a customer via a mobile financial system or a closed-loop system. The invention provides for utilising an existing, or establishing, a main account for the customer and creating a virtual credit account for the customer with a maximum credit limit based on the outcome of a credit scoring. A customer is able to select if the transaction amount is to be deducted from the main account and/or the credit account after which the transaction amount is deducted from the selected account and deposited to a specified recipient.



21: 2023/05988. 22: 2023/06/06. 43: 2024/01/10 51: A61K

71: ELPEN S.A. Pharmaceutical Industry 72: BAGOURAKIS, Georgios, PENTAFRAGKAS, Dimitrios

33: GR 31: 20220100475 32: 2022-06-07 54: SOLID SUSTAINED RELEASE FORMULATIONS OF RANOLAZINE 00: -

The invention relates to innovative solid sustainedrelease pharmaceutical forms of ranolazine (or its salts) which consist of Ranolazine in a proportion of 60% to 90% by weight and a polymer in a proportion of 8% to 16% by weight which forms a pharmaceutical form of sustained release release wherein 15% to 35% of said active is released after 1 hour, 45% to 65% of said active is released after 6 hours, and not less than 75% thereof is released after 24 hours in solution which simulates gastric juices. The solid forms of the present invention are indicated for the symptomatic treatment of patients with stable angina who are inadequately controlled or intolerant to first-line antianginal therapies (such as ß-blockers and/or calcium antagonists) as an extendedrelease tablet, effectively contributing to compliance and the acceptance of patients in chronic treatments, reducing the frequency of administration. At the same time, it is an innovative pharmaceutical form, with the possibility of industrial production and acceptable quality characteristics. The solid forms of the present invention contain at least one sustained release formulation polymer, a diluent, a binder, and a lubricant. The solid forms of the present invention are produced through a simple manufacturing process where the final form is in the form of a sustained release tablet, preferably coated.

The solid forms of the present invention show optimal stability equal to the reference product, satisfactory mechanical strength, ease and flexibility of use and the possibility of administration to populations regardless of their nutritional characteristics, making them particularly attractive as they effectively contribute to the compliance of patients in chronic treatments, which contributes positively in the overall disease treatment planning.

21: 2023/06003. 22: 2023/06/06. 43: 2024/01/10 51: G01V

71: HYPERTUNNEL IP LIMITED 72: JORDAN, Steve, FLANAGAN, Fergus, TURNER, Eliott

33: GB 31: 2017921.4 32: 2020-11-13 54: A DEVICE AND METHOD FOR IMAGING UNDERGROUND FEATURES FROM A BOREHOLE

00: -

Ground-penetrating radar antennas are generally intended for use in contact with the ground; however, antennas spaced from the ground (e.g. in air above ground) have also been developed. The present invention allows underground features to be imaged from a borehole so that underground assets and geological structures can be assessed (for example, to determine their integrity), and remedial works may be monitored. For example, structural reinforcement (e.g.chemical pumped into the geology for stability) can be checked to see where it has occurred and where it may not have yet reached.



21: 2023/06005. 22: 2023/06/06. 43: 2024/01/10 51: C07K; A61P; A61K; C12N 71: STAIDSON (BEIJING) BIOPHARMACEUTICALS CO., LTD. 72: LI, PING, ZHANG, LEI 33: CN 31: PCT/CN2020/129925 32: 2020-11-19 54: LONG-ACTING NERVE GROWTH FACTOR POLYPEPTIDES AND USES THEREOF 00: -

Provided are long-acting nerve growth factor (NGF) polypeptides comprising from N-terminus to C-terminus an NGF moiety and an Fc moiety, methods of making, and uses thereof.



21: 2023/06077. 22: 2023/06/08. 43: 2024/01/10 51: E21B

71: Guangdong Eagler Geological Equipment Technology Co., Ltd

72: Liu, Xuyong, Li, Youlin, Deng, Guanghong 33: CN 31: 202210665592.3 32: 2022-06-13

# 54: BALL-CLAMP TYPE FALL ARRESTER FOR DRILL PIPE

00: -

The present invention discloses a ball-clamp type fall arrester for a drill pipe, which includes a base and a steel ball seat arranged in the base. The steel ball seat is provided with a liftable steel ball frame. A side wall of the steel ball frame is provided with a plurality of limit hole. An inner wall of the steel ball seat is provided with a guide ramp. The plurality of limit holes are respectively provided with a plurality of steel balls which are movable radially. When the steel ball frame is lifted or lowered, a radial position of each steel ball in a corresponding limit hole is positioned by the guide ramp.



- 21: 2023/06091. 22: 2023/06/08. 43: 2024/01/11 51: B62D
- 71: CKP Engineering
- 72: FERRAZZO, Julien
- 33: FR 31: 2012740 32: 2020-12-05

# 54: METHOD AND SYSTEM FOR NEUTRALISING RISING JOLTS SUPPORTED BY A VEHICLE STEERING COLUMN

00: -

The invention relates to an arrangement of the column (1) neutralising transient forces (C1, EA1) generated by a jolt to which the column (1) is subjected, by an automatic decoupling between two coaxial sections (1a, 1b) of the column (1). This decoupling is caused by angular movement of a coupling link (5) between the sections (1a, 1b), preventing transmission of the forces (C1, EA1) by a distal section (1a) to a proximal section (1b) of the column (1). Simultaneously with the decoupling, a

compression is also caused of a prestressed elastic mounting region (6a) between the sections (1a, 1b), the jolt then no longer being absorbed by the driver but by the compression of the elastic region. The decoupling is followed by an automatic re-coupling between the two sections (1a, 1b) under the effect of the relaxing of the elastic region (6a).



21: 2023/06093. 22: 2023/06/08. 43: 2024/01/11 51: F03B

- 71: Sizable Energy S.r.l. 72: AUFIERO, Manuele

33: IT 31: 102020000029351 32: 2020-12-01 54: POWER PRODUCTION SYSTEM. 00: -

A power production system (1) comprises: a hydraulic turbine (2), installable in a penstock (3) and being rotatable in a first rotation direction by effect of a flow of fluid flowing in the penstock (3) in a downward direction; an energy converter group (4); an accumulator (5); a control unit (6), configured to operate the system (1) in a power generation mode, in which the energy converter group (4) receives an input mechanical power from the hydraulic turbine (2) rotating in the first rotation direction, generates an output electric power and supplies said output electrical power to an external grid (7) and/or to the accumulator (5), and in a downward pushing mode, in which the energy converter group (4) absorbs an input electrical power from the accumulator (5) and generates an output mechanical power to move the hydraulic turbine (2).



21: 2023/06105. 22: 2023/06/08. 43: 2024/01/10 51: A61K; A61P

71: JIANGSU PROVINCE HOSPITAL OF TCM 72: LIU, SHENLIN, SHU, YACHUN, ZHAO, MIN, NING, LIQIN

33: CN 31: 202011250776.0 32: 2020-11-11 54: HEART-NOURISHING AND NERVE-SOOTHING PHARMACEUTICAL COMPOSITION AND METHOD FOR PREPARATION THEREOF AND APPLICATION THEREOF 00: -

Provided are a heart-nourishing and nerve-soothing pharmaceutical composition and method for preparation thereof and application thereof; in parts by weight, the pharmaceutical composition contains 170–190 parts of spiny jujube kernel, 30–60 parts of fu ling, 30-60 parts of longan meat, 160-190 parts of huai xiao mai, 10-30 parts of Glycyrrhizae radix preparata, 60-130 parts of Jujubae fructus, and 60-130 parts of lily bulb; by means of optimizing the prescription proportions, a synergistic function is achieved, which can effectively calm the mind and aid in sleeping, can be applied to people of different ages, genders, and levels of sleep disorder, with an overall efficiency rate of more than 80%; the therapeutic effects are long-lasting and there are no negative repercussions after discontinuing use of the medication; no change in lifestyle habits is required during use, and patient compliance is high.

21: 2023/06179. 22: 2023/06/12. 43: 2024/01/11 51: B65G

71: Graphic Packaging International, LLC
72: FORD, Colin P., ZIEGLER, Kelly W., ANDERSON, Jason C.
33: US 31: 63/131,535 32: 2020-12-29
54: PRODUCT ENGAGEMENT SYSTEM FOR GROUPING AND MOVING CONTAINERS, RELATED SYSTEM AND METHODS
00: - A method of moving at least one container includes positioning at least one container at an upstream end of a system having at least one track assembly, a linear motor assembly, and at least one product engagement assembly, the at least one product engagement assembly having a shuttle member movably engaged with the linear motor assembly and the at least one track assembly, and an adapter assembly coupled to the shuttle member and comprising a product engagement member. The method further includes engaging the at least one container with the product engagement member, moving the at least one product engagement assembly at least partially along the linear motor assembly, and articulating the product engagement member relative to the shuttle member.



21: 2023/06209. 22: 2023/06/13. 43: 2024/01/11 51: G06F; G06Q; G07C 71: NGANWA, Philip Joseph Kanyamuny 72: NGANWA, Philip Joseph Kanyamuny 33: ZA 31: 2022/06502 32: 2022-06-13 54: DIGITAL LICENCE DISC SYSTEM 00: -

A digital licence disc system is provided, comprising a digital licence disc device that can be secured to a vehicle, the digital licence disc device comprising a memory device storing primary information data and secondary information data, the primary information data comprising vehicle licence information that, by default, can be interrogated or accessed by traffic authorities, the secondary information data including data related to the vehicle or the owner or driver of the vehicle, the secondary information data being conveyed or transmitted upon either a trigger event or a received request. The system further includes a platform interface and a related database, the

platform interface being adapted to communicate with, on the one hand, the digital licence disc device, either directly or indirectly via a mobile device that is paired with the digital licence disc device, and, on the other hand, with a backend platform, which in turn is in communication with a plurality of service providers.



21: 2023/06255. 22: 2023/06/14. 43: 2024/01/11 51: B65B

71: Anheuser-Busch, LLC

72: DE LA ROSA, Mark, PETRIE, Rich, GRASS, Carl, MORGAN, Al 33: US 31: 63/126,232 32: 2020-12-16 54: METHOD OF PACKING VARIETY PACKS OF

# BEVERAGES

The present invention allows a beverage manufacturer to package variety packs of beverages while it is filling various beverages. The improved system that carries out the method includes an onsite accumulator that eliminates the long-standing practice of packaging variety packs at a separate location from where the beverages are packed.



21: 2023/06278. 22: 2023/06/15. 43: 2024/01/15 51: F24H 71: MAGNETO THERMALS (PROPRIETARY) LIMITED 72: DIEDERIKS, Franco 33: ZA 31: 2021/10507 32: 2022-06-17

# 54: ELECTRIC WATER HEATING APPARATUS

There is disclosed an electric water heating apparatus comprising: a water reservoir having a closable aperture for receiving water therein; a heat pump assembly including at least a portion of a condenser coil located inside the water reservoir proximate a lower end of the water reservoir, operatively enabling a compressed refrigerant to flow through the condenser coil for heat exchange to take place between the condenser coil and the water inside the reservoir heating the water inside the reservoir proximate its lower end; a water heating conduit extending at least partly through the water in the water reservoir and located proximate a top end of the water reservoir, operatively conveying water therethrough between an inlet and an outlet and being in fluid communication with a water reticulation network, for water inside the water heating conduit to be indirectly heated via heat transfer from heated water inside the water reservoir, with the condenser coil, in use, indirectly heating water proximate the bottom end of the reservoir and heated water that rises towards the top end of the reservoir indirectly heating water inside the water heating conduit.



21: 2023/06282. 22: 2023/06/15. 43: 2024/01/15 51: E21B

71: Guangdong Eagler Geological Equipment Technology Co., Ltd

72: Liu, Xuyong, Deng, Guanghong, Chen, Beihua 33: CN 31: 202211733135.X 32: 2022-12-30

#### 54: INNER TUBE ASSEMBLY OF DRILL TOOL AND ROPE CORING DRILL TOOL THEREOF 00: -

Provided is an inner tube assembly of a drill includes an inner tube assembly upper part and an inner tube assembly lower part which are rotatable relatively and connected together through a shaft and a single action mechanism including a bearing block and a thrust ball bearing, a bearing is built into a shaft part of the bearing block, the shaft is connected in the thrust ball bearing of the bearing block, the bearing block is provided with a sealing ring seat sealed with the shaft. A rope coring drill tool including the inner tube assembly of drill tool described above is also provided. The present disclosure can avoid entry of drilling fluid into the bearing, effectively protect the bearing and safeguard single action performance of the drill tool.



21: 2023/06289. 22: 2023/06/15. 43: 2024/01/15 51: B66F

71: OLIVER, Fred, Abraham

- 72: OLIVER, Fred, Abraham
- 54: WHEEL LIFTING AID
- 00: -

The invention provides wheel lifting device for easy replacement of vehicle wheels. The device includes

a wheel engaging portion, which includes a pair of spaced parallel arms (8) to accept a wheel thereon in an upright orientation and each arm (8) provided with a wheel (11) at a free end and the wheel (11) axis being perpendicular to the axis of its associated arm (8). The device further includes a lifting portion (2) extending from the other ends of the parallel arms (8) of the wheel engaging portion, the lifting portion (2) being configured to facilitate lifting of the wheel relative a support surface when the wheel is engaged by the wheel engaging portion in a 2nd class lever fashion.



21: 2023/06303. 22: 2023/06/15. 43: 2024/01/17 51: E02D; E04H

71: Technip Energies Italy S.P.A., Technip Energies France SAS

72: LOPRIORE, Paolo, COLONE, Valerio, SELLARO, Mario, ROMANO, Maria Carmela 33: IT 31: 10202000030440 32: 2020-12-10 54: RIBBED SLAB FOUNDATION FOR CYLINDRICAL REFRIGERATED TANKS FOR LIQUIFIED GAS STORAGE 00: -

A foundation (FV) for cylindrical refrigerated tanks for liquified gas storage, at locations where the minimum ambient temperature is always greater than 0°C, characterized by a reinforced concrete ribbed slab structure at grade level, where the clear spaces in between the parallel webs (W) of said ribbed slab are configured as air circulation channels (C) to provide ambient air circulation suitable to prevent the ground (T) underneath the foundation itself from reaching freezing temperatures, i.e. =0°C, while providing the necessary bearing and structural capacity.



- 21: 2023/06305. 22: 2023/06/15. 43: 2024/01/17
- 51: A61K; A61P; C07D

71: Heptares Therapeutics Limited 72: FIELDHOUSE, Charlotte, CONGREVE, Miles Stuart

#### 33: GB 31: 2020191.9 32: 2020-12-18 54: PHARMACEUTICAL COMPOUNDS 00: -

This invention relates to compounds that are agonists of the muscarinic M1 and M4 receptor and which are useful in the treatment of diseases mediated by the muscarinic M1 and/or M4 receptors. Also provided are pharmaceutical compositions containing the compounds and the therapeutic uses of the compounds. Compounds provided are of formula (1): and salts thereof.



- 21: 2023/06336. 22: 2023/06/19. 43: 2024/01/17
- 51: A23L; F25D
- 71: Season Agricultural Technology Co., Ltd.

# 72: YANG, Ching-Chieh

# 54: FOOD PROCESSOR

00: -

A food processor (100) includes a cooling device (10) including a box (11). The box has a cooling space (111). The cooling space has an inner peripheral wall (113) made of graphene steel material. The graphene steel material of the inner peripheral wall of the cooling space includes steel and graphene which are mixed. Thus, the graphene

effectively inhibits growth of the ice crystals, to prevent the cell membrane and cell wall from being damaged. In addition, the graphene maintains the nutrition, aroma and weight of the foodstuff when thawing.



21: 2023/06343. 22: 2023/06/19. 43: 2024/01/17 51: A61K; C07K; A61P

71: VISTERRA, INC.

72: VISWANATHAN, Karthik, BOOTH, Brian, RAMAKRISHNAN, Boopathy, WOLLACOTT, Andrew, BABCOCK, Gregory, SHRIVER, Zachary, OLINSKI, Lauren

33: US 31: 63/137,089 32: 2021-01-13 33: US 31: 63/274,748 32: 2021-11-02 54: HUMANIZED COMPLEMENT 5A RECEPTOR 1 ANTIBODIES AND METHODS OF USE THEREOF 00: -

The present disclosure provides, among other things, two different formats of humanized antibodies against human complement component 5a receptor 1. The disclosure also provides a method of treating a subject having dysfunctions of C5a/C5aR1 axis pathway, including but not limited to ANCAassociated vasculitis, comprising administering to the subject in need thereof a an effective amount of antibody or a nucleic encoding an antibodies binding to C5aR1 described herein, and wherein administering results in a decrease in symptoms associated with C5a/C5aRI associated dysfunction in the subject.



- 21: 2023/06355. 22: 2023/06/19. 43: 2024/01/11 51: E02B; F16F
- 71: NINGBO UNIVERSITY

72: YANG, LIMING, WANG, YONGGANG, LIU, JUN, CHEN, GUOYU, ZHOU, FENGHUA 33: CN 31: 202011572892.4 32: 2020-12-25 54: SHIP COLLISION PREVENTION DEVICE FOR ABOVE-WATER STRUCTURE 00: -

A ship collision prevention device for an above-water structure, the ship collision prevention device comprising two semi-elliptical structures (2), wherein two free ends of the two semi-elliptical structures (2) are connected via a hydraulic damper (3) to form a long elliptical collision prevention structure that can surround a bridge pier (1); each of the semi-elliptical structures (2) comprises a semi-elliptical inner steel enclosure (5) and a semi-elliptical outer steel enclosure (4), the enclosures having a closed cavity; and a plurality of energy absorption buffer rings (6) are connected between the inner steel enclosure (5) and the outer steel enclosure (4), with the number of the energy absorption buffer rings (6) arranged between the inner steel enclosure (5) and the outer steel enclosure (4) on one side of the collision prevention structure being greater than that of the energy absorption buffer rings (6) arranged between the inner steel enclosure (5) and the outer steel enclosure (4) on the other side of the collision prevention structure. The ship collision prevention device for an above-water structure can reduce the damage caused by huge kinetic energy of a ship during a ship collision, and can automatically move up and down along with the rise and fall of the water level, and thus is suitable for protecting an inclined bridge pier.



21: 2023/06444. 22: 2023/06/21. 43: 2024/01/17 51: H02M

71: Zhuzhou CRRC Times Electric Co., Ltd. 72: FU, Xiaolong, WAN, Weiwei, JIAO, Bi, LIN, Zhenjun, CHEN, Wenguang, ZHAO, Qingliang, HE, Hongcheng, CHEN, Yuqi, XIAO, Weihua, YAO, Wujun, ZENG, Xiaoqin

#### 33: CN 31: 202011364325.X 32: 2020-11-27 54: BIDIRECTIONAL DC/DC CONVERTER, URBAN RAIL VEHICLE AND TRACTION SYSTEM THEREOF

00: -

A bidirectional DC/DC converter, an urban rail vehicle and a traction system thereof. The bidirectional DC/DC converter comprises a DC/DC module, a control module, a chopping inductance module and a bypass contactor. By means of the control module and according to the output voltage of a power supply module, the DC/DC module is selected to work or the bypass contactor is closed to complete electric energy transmission, and there is no need to re-design an original traction system, thereby saving on costs; at the same time, the DC/DC module uses multiple multi-phase staggered parallel circuit structures, such that the output power of the bidirectional DC/DC converter is improved, the buck-boost range is large, and the requirements of the traction system of the urban rail vehicle can be met; in addition, multiple phases share one control module, so that the size of the bidirectional DC/DC converter is further reduced, and the costs are saved on.



- 21: 2023/06452. 22: 2023/06/21. 43: 2024/01/17
- 51: C09K; C10G; C10L
- 71: TotalEnergies OneTech

72: TORT, Frederic, FRITSCH, Thomas

33: FR 31: FR2013911 32: 2020-12-22 54: COMPOSITION OF ADDITIVES COMPRISING A COPOLYMER AND A RESIN 00: -

The present invention relates to a composition of additives comprising: at least one first compound selected from: (i) copolymers of ethylene and vinyl acetate having a molar mass Mn included in the range ranging from 10,000 to 60,000 g.mol-1, optionally grafted by at least one alkyl (meth)acrylate group, the alkyl chain of which is saturated and contains from 12 to 30 carbon atoms; and (ii) polymers comprising at least 90 mol% of units derived from alkyl (meth)acrylate monomer, the alkyl chain of which is saturated and contains from 18 to 22 carbon atoms; and at least one second compound selected from the modified alkylphenolaldehyde resins. The invention also relates to the use of this composition of additives for lowering the viscosity of a liquid petroleum product such as a crude oil and for reducing the deposition of paraffins.

21: 2023/06468. 22: 2023/06/22. 43: 2024/01/12

51: F24H

72: ANTONELLI, Daniele, GARBETTI, Gian Marco, GIORGETTI, Alessio, SAMPAOLESI, Marco 33: IT 31: 102022000013366 32: 2022-06-23 54: GRIPPING MEANS FOR THE HANDLING OF A WATER HEATER 00: -

The object of the present invention is a water heater (WH) equipped with gripping means (1) integrated to the upper cap (4).Such gripping means (1) comprise:- a pair of handles (2), each of which is

<sup>71:</sup> Ariston S.p.A.

located on top of said upper cap (4) at a distance of 180° to each other and is provided with coupling means (24, 25) with reciprocal coupling means (44) obtained in said upper cap (4);- a pair of counter-handles (3) each of which is located below said upper cap (4) at a distance of 180° from each other and is provided with coupling means (34) with said reciprocal coupling means (44) obtained in said upper cap (4);- constraint means (5) for said reciprocal coupling means (24, 25, 34, 44) of said upper cap (4) and of said pair of handles (2) and counter-handles (3).Said pair of counter-handles (3) is firmly incorporated in said insulating material (F) following transition thereof from the liquid to the solid state.



21: 2023/06511. 22: 2023/06/23. 43: 2024/01/17 51: B65B

71: KATHOLIEKE UNIVERSITEIT LEUVEN 72: JUWET, Marc

33: CA 31: 3.104.009 32: 2020-12-23

54: WRAPPING APPARATUS AND METHOD 00: -

The present invention relates to a wrapping apparatus for wrapping a load comprising :- a wrapper delivery apparatus rotatable around the load to be wrapped;- an angular position sensor at least partially mounted to the wrapper delivery apparatus; and- a wrapper delivery unit mounted to the wrapper delivery apparatus, the wrapper delivery unit comprising a servomotor, and- a wrapper delivery unit controller in data communication with the angular position sensor and operatively connected to the servomotor, the wrapper delivery unit controller being configured to process data supplied by the angular position sensor and to control the servomotor based on the processed data.



21: 2023/06517. 22: 2023/06/23. 43: 2024/01/17 51: G06F

71: Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

72: LIN, Zhiyong, LI, Hui, LU, Junlin, YAO, Xudong, YANG, Yanru, LI, Xiaoyan, ZHANG, Henan, XI, Weijun, WANG, Xu

33: CN 31: 202011551715.8 32: 2020-12-24 54: SYSTEM AND METHOD FOR VERIFYING CONTROL LOGIC DESIGN OF NUCLEAR POWER PLANT

00: -

A system and method for verifying the control logic design of a nuclear power plant. The system comprises a client computer (10), a control logic design verification data storage server (11) and a data structure decomposition server (12), wherein the client computer (10) is respectively in communication connection with the control logic design verification data storage server (11) and the data structure decomposition server (12) by means of a network (14); the client computer (10) is used for installing a control logic design verification main program, and sending and executing all requests and actions during a control logic design verification process; the control logic design verification data storage server (11) comprises control logic design verification data: the data structure decomposition server (12) is used for loading the control logic design verification data from the control logic design verification data storage server (11), and parsing the control logic design verification data; and the control

logic design verification main program performs data verification on the parsed control logic design verification data. By means of the method, automation of control logic design verification can be realized, thereby reducing the cost of labor and the human error rate.



21: 2023/06526. 22: 2023/06/23. 43: 2024/01/17 51: H01M

# 71: ACKERMANN, Christiaan Gerhardus 72: ACKERMANN, Christiaan Gerhardus 33: ZA 31: 2020/07494 32: 2020-12-02 54: A MODULAR BATTERY SYSTEM AND A METHOD OF PROVIDING POWER USING THE BATTERY SYSTEM

00: -

The invention relates to a battery module (10), a modular battery system (100) and a method (50) of providing power using the modular battery system (100). The battery system includes a plurality of interconnectable battery modules (10) including a master battery module (20). Each battery module (10, 20) includes a node communication unit for communicating with the other battery modules via Bluetooth, and a unique identifier. The method includes receiving a deed registry which comprises a list of unique identifiers of battery modules over which a user holds a deed, reading each unique identifier of connected modules (10) to form a module connection list, comparing the module connection list with the deed registry, and provided that the module connection list matches the deed registry, broadcasting an ACTIVE signal to each of the battery modules (10). However, if there is a mismatch, the battery modules hibernate which improves system security.



- 21: 2023/06556. 22: 2023/06/26. 43: 2024/02/05 51: G06F
- 71: BRANE COGNITIVES PTE. LTD.
- 72: BYRRAJU, Ramalinga Raju
- 33: IN 31: 201941001135 32: 2019-01-10 33: IN 31: 201941028675 32: 2019-07-16
- 54: NATURAL SOLUTION LANGUAGE

A computer-implemented method that effectively replaces 'programming code' in conveying application or solution logic to the computer using a natural language-based design. Without taking any reference to alien symbols or keywords, NSL uses standard and familiar natural-language-like constructs (any natural language, not just English) using a computer-implemented method to technically convey complex operating, application, and solution logic to the machine agents (computers) in a userfriendly way. Using the same computer-implemented methodologies, it has the power to translate or reverse engineer all existing programming code into NSL. Fundamentally, NSL requires no 'programming code' expertise. Users can quickly and easily convey the logic directly to the computer or recruit available solution components with ease. In addition, the elimination of artificial barriers between information

and processes, and merging them, solution logic embedded in computer programs and applications is brought into the purview of information search principles.



#### 21: 2023/06568. 22: 2023/06/26. 43: 2024/01/18 51: B31D; B32B; C09J; G09F

71: Ritrama S.p.A.

72: GALLI, Luciano

## 33: IT 31: 102021000000197 32: 2021-01-07 54: LINERLESS SELF-ADHESIVE MATERIAL WITH WASH-OFF PROPERTIES

#### 00: -

The invention relates to a self-adhesive linerless label for labelling containers, preferably made of PET, the label being particularly adapted to be removed from the container during recycling operations. The label derives from a linerless self-adhesive material that comprises a liner made of plastic material having a density greater than 0.8 g/cm³ preferably between 0.9 g/cm³ and 1.5 g/cm³, more preferably between 1 and 1.4 g/cm³ at 25°C. Said material is preferably PET or PP. The linerless self-adhesive material also comprises a self-adhesive film comprising a polymeric material with a density of less than 0.9 g/cm³ at 25°C, preferably comprised between 0.6 g/cm³ and 0.9 g/cm³, more preferably between 0.7 and 0.8 g/cm³ at 25°C. The liner and the self-adhesive material are in permanent contact by means of a thermo-adhesive.



21: 2023/06652. 22: 2023/06/28. 43: 2024/01/18 51: C07D; A61K; A61P 71: XIZANG HAISCO PHARMACEUTICAL CO., LTD. 72: ZHANG, CHEN, LEI, MING, ZHAO, MINGLIANG, YU, YAN, TANG, PINGMING, WENG, GUANGLIN, MOU, TAO, LI, YAO, NI, JIA, YAN, PANGKE

33: CN 31: 202111000175.9 32: 2021-09-02 33: CN 31: 202011557297.3 32: 2020-12-25 33: CN 31: 202110403365.9 32: 2021-04-16 33: CN 31: 202110109531.4 32: 2021-01-27 54: FIVE-MEMBERED RING DERIVATIVE AND MEDICAL USE THEREOF 00: -

A compound represented by general formula (I) or a stereoisomer, tautomer, deuterated substance, solvate, prodrug, metabolite, pharmaceutically acceptable salt or co-crystal thereof, an intermediate thereof, and a preparation method therefor, as well as an application in preparation of a drug for treating diabetes.



21: 2023/06661. 22: 2023/06/28. 43: 2024/01/18 51: E02D; F03D

71: Nordex Energy Spain S.A.U.

72: GARDUÑO ESTEBANEZ, Aitor, GARCÍA MAESTRE, Iván, ARLABÁN GABEIRAS, Teresa, NÚÑEZ POLO, Miguel

33: EP(ES) 31: 20383117.7 32: 2020-12-17 54: SYSTEM, MANUFACTURING METHOD AND PRECAST FOUNDATION STRUCTURE FOR A WIND TURBINE

00: -

The present invention relates to a system for manufacturing an adaptable precast foundation structure for a wind turbine that is configured taking into account the wind turbine loads and soil conditions allowing that a large part of the foundation structure is homogenized, despite the fact that the transition structure being manufactured with the system is dependent of the type of soil and that the size of said transition structure varies depending on the soil, making it easily adaptable to the geotechnical conditions of each wind turbine position of the windfarm which allows a significant reduction in time and cost. The invention also relates to a method for manufacturing an adaptable precast foundation structure for a wind turbine and to a wind

turbine manufactured with said method. The invention also relates to a system for manufacturing a precast foundation structure for a wind turbine and related method and precast foundation structure.



21: 2023/06694. 22: 2023/06/29. 43: 2024/01/18 51: A61K; A61P; C07D

71: F. Hoffmann-La Roche AG

72: BELL, Andrew Simon, BESNARD, Jérémy, BRADLEY, Anthony Richard, GREEN, Luke, HAAP, Wolfgang, KOCER, Buelent, KUGLSTATTER, Andreas, LUCAS, Xavier, MATTEI, Patrizio, MAZUNIN, Dmitry, RIEMER, Claus, VAN HOORN, Willem Paul

33: EP(CH) 31: 21154295.6 32: 2021-01-29 54: PYRAZOLEAMIDE DERIVATIVES 00: -

The present invention provides compounds of formula I or II: (I) wherein X<sup>1</sup>, R<sup>1</sup> and R<sup>2</sup> are as described herein, as well as pharmaceutically acceptable salts thereof. Further the present invention is concerned with the manufacture of the compounds of formula I, pharmaceutical compositions comprising them and their use as medicaments.



21: 2023/06707. 22: 2023/06/29. 43: 2024/01/18 51: B23K

71: Thales, Centre National de la Recherche Scientifique

72: RONDEPIERRE, Alexandre, ROUCHAUSSE, Yann, BERTHE, Laurent

33: FR 31: 2013433 32: 2020-12-17 54: SYSTEM AND METHOD FOR TREATING

# MATERIAL BY LASER SHOCK UNDER CONFINEMENT IN A LIQUID

The invention relates to a system (10) for treating a target (Tar) by laser shock under confinement in a liquid (Liq), the system comprising a pulsed laser generating a beam (B) having a pulse duration of between 1 ns and 30 ns and a wavelength, a concentrating optical device (COD) having a focal length and configured to concentrate the beam (B) on the surface (St) of the target (Tar), the laser beam (B) incident on the concentrating device having a diameter (D), a tank (TK) filled with said liquid (Liq) having a refractive index n, a desired value of the diameter (D) of the beam on a surface (St) of the target being predetermined and noted Dst, a thickness (e) of liquid (Liq) through which the beam (B) passes before reaching the surface (St) of the target (Tar) being chosen so that a laser intensity on the surface of the liquid (Liq) is less than or equal to a laser intensity on the surface of the target (Tar) divided by 2.



21: 2023/06719. 22: 2023/06/30. 43: 2024/01/18 51: A63F; G06Q

71: GIVANT, Philip Paul

72: GIVANT, Philip Paul

33: US 31: 17/956,583 32: 2022-09-29 54: SPECIALIZED SLOT MACHINE FOR CONDUCTING A WAGERING GAME USING A CARD SYSTEM FOR REAL TIME OR LIVE ACTION EVENT CONTENT

00: -

A specialized slot machine for conducting a wagering tournament game using real time or live action event content are disclosed. A particular embodiment includes: a gaming system configured to: provide a virtual deck of cards, wherein a plurality of virtual cards in the deck have been selected from a virtual pool of cards, wherein each of the plurality of virtual cards comprise identifying information and real-life statistics related to an athlete's actions in real-life sporting events, wherein each of the plurality of virtual cards further comprise information indicative of: 1) an athlete's name, 2) a name of a team for which an athlete plays, 3) a value of the virtual card determined by fantasy points a corresponding athlete is worth. 4) a position played by an athlete, and 5) bonus points or multipliers corresponding to the virtual card, the plurality of

virtual cards in the deck have been selected from the virtual pool of cards to maintain a probability of the virtual cards in the deck generating a winning total based on real-life statistics of selected virtual cards in the deck within a pre- determined range, each of the plurality of virtual cards further comprise readable information indicative of a color of the card; randomly present at least three virtual cards in a bloc face up from the virtual deck of cards to a plurality of players; prompt the plurality of players to bid on the presented bloc of virtual cards or fold and exit a current round; accept bids from the plurality of players; and award the presented bloc of virtual cards to a winning player of the plurality of players with a best bid.



21: 2023/06721. 22: 2023/06/30. 43: 2024/01/18 51: G06K

71: Dr. Suganya Devi K, Prasenjit Dhar, Dr. Srinivasan P, G. Arutperumjothi, Ramanuj Bhattacharjee

72: Dr. Suganya Devi K, Prasenjit Dhar, Dr. Srinivasan P, G. Arutperumjothi, Ramanuj Bhattacharjee

#### 54: A METHOD AND SYSTEM FOR CLASSIFICATION OF RBC MORPHOLOGY THROUGH INTELLIGENT IMAGE PROCESSING 00: -

The present invention proposes a novel methodology and system for the classification of red blood cell (RBC) morphology using image processing techniques. The proposed methodology involves the preprocessing of sample blood smear images, morphological approaches for the removal of unwanted blood cells, boundary extraction using the Freeman chain coding approach, validation against ground truth images, and feature extraction using contour-based methods. The proposed system utilizes a hyper-parameter optimizable KNN (HPKNN) classifier for the categorization of RBC morphologies. The proposed methodology and system have been tested on multiple datasets, including the Chula-PIC-Lab and Erythrocytes IDB1, IDB 2 and IDB 3 datasets, and have shown promising results in the accurate classification of **RBC** morphologies.



# 21: 2023/06729. 22: 2023/06/30. 43: 2024/02/05 51: A61K; C07K

# 71: SUN PHARMACEUTICAL INDUSTRIES

72: THENNATI, Rajamannar, CHATURVEDI, Nishith, BURADE, Vinod Sampatrao, SHAHI, Pradeep Dinesh, NATARAJAN, Muthukumaran, NAGARAJA, Ravishankara Madavati, ZALAWADIA, Rishit Mansukhlal, PANDYA, Kunal, PATEL, Brijeshkumar, JOSHI, Dhiren Rameshchandra, SONI, Krunal Harishbhai, TIWARI, Abhishek, PATEL, Vipulkumar Shankarbhai 33: IN 31: 201821013109 32: 2018-04-05

- 33: IN 31: 201821040468 32: 2018-10-26
- 33: IN 31: 201821040474 32: 2018-10-26

#### 54: NOVEL GLP-1 ANALOGUES 00: -

The present disclosure pertains to novel Glucagon like Peptide-1 (GLP-1) (7-37) analogs having an amino acid sequence with Leu or IIe at the Cterminal. The new analogs are potent GLP-1 agonists with reduced adverse effect and improved duration of action. The present disclosure further relates to acylated derivatives of the new analogs
which have further improved potency and duration of action and are suitable for oral administration. The analogs of present disclosure may be useful in treatment of diabetes and obesity.

21: 2023/06741. 22: 2023/06/30. 43: 2024/01/18 51: F23D

71: DE.MISSION INC.

72: GAROSSINO, Richard B., LAWTON, Kenneth A. 33: CA 31: 3102511 32: 2020-12-11

## 54: COMBUSTION BURNER WITH FIXED VANES 00: -

A combustion burner includes a burner body with a central bore. A swirl generator insert is provided having vanes which impart a swirl pattern, with minimal pressure loss, to an axial flow of forced air passing from an air inlet end though the swirl generator. An annular fuel gas manifold has a plurality of gas jets positioned adjacent to the sidewall at spaced intervals 360degrees around the gas manifold. A mixing chamber is positioned downstream of the gas manifold to mix fuel gas from the gas jets with the air exiting the swirl generator insert to create a fuel/air mixture. A combustion chamber is positioned downstream of the mixing chamber. An igniter passage extends through the burner body to position an igniter downstream of the mixing chamber to ignite the fuel/air mixture entering the combustion chamber.



21: 2023/06748. 22: 2023/06/30. 43: 2024/01/18 51: C07D; A61K; A61P 71: SUZHOU VINCENTAGE PHARMA CO., LTD 72: LI, BEN, YU, SHANGHAI 33: CN 31: 202110334388.9 32: 2021-03-29 33: CN 31: 202011406013.0 32: 2020-12-03 54: GLP-1R RECEPTOR AGONIST COMPOUND AND USE THEREOF

00: -

The present invention relates to a GLP-1R receptor agonist compound and a use thereof. Specifically,

the present invention discloses a compound represented by formula (I) or a pharmaceutically acceptable salt thereof. The compound can be used for treating a metabolism-related disease, such as diabetes or nonalcoholic fatty liver disease, by means of activating GLP-1R receptors.



- 21: 2023/06760. 22: 2023/06/30. 43: 2024/01/18
- 51: C09J
- 71: Tsinghua University
- 72: YANG, Wantai, HUANG, Yanbin

33: CN 31: 202011391525.4 32: 2020-12-02

54: CROSSLINKED COPOLYMER OF REPEAT UNIT HAVING AMIDE GROUP AND CARBOXYL AND/OR AMMONIUM SALT THEREOF AND REPEAT UNIT OF a-MONOOLEFINS 00: -

The present disclosure relates to a copolymer A, comprising (i) at least one repeat unit having an amide group and carboxyl and/or ammonium salt thereof, (ii) at least one repeat unit derived from linear or branched  $C_2$ - $C_{18}$   $\alpha$ -monoolefins, and (iii) at least one repeat unit derived from monomers having at least two carbon-carbon unsaturated double bonds. The present disclosure also relates to a product comprising components formed by the binder of the present invention.



21: 2023/06761. 22: 2023/06/30. 43: 2024/01/18 51: C09J

71: Beijing University of Chemical Technology 72: YANG, Wantai, XU, Can, ZHAO, Changwen, CHEN, Chuxuan, CHEN, Dong, MA, Yuhong 33: CN 31: 202011390263.X 32: 2020-12-02 54: ADHESIVE AND ARTIFICIAL BOARD PRODUCED USING SAME

00: -

The present disclosure relates to an adhesive, the adhesive comprising at least one copolymer A, the copolymer A having at least one repeating unit with an amide group and a carboxyl group and/or an ammonium salt thereof, and at least one other repeating unit different from the repeating unit with the amide group and carboxyl and/or ammonium salt thereof. The present disclosure also relates to an artificial board produced by a lignocellulose material and the adhesive, and a production method for the artificial board.



AA Wave number/cm-1

#### 21: 2023/06776. 22: 2023/07/03. 43: 2024/01/23

#### 51: F42D

71: GUANGZHOU METRO GROUP CO.,LTD., CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD, Southwest Jiaotong University

72: Jianguo Gao, Lijun Wang, Hanlong Liu, Jian Luo, Qinghua Xiao, Zhongfeng Li, Xujie Li, Xiaobo Wei, Zhigang Zhou, Huaguo Song, Kangming Huang 54: BLASTHOLE CHARGE STEMMING METHOD AND STEMMING STRUCTURE FOR ROCK FRACTURING WITH DRY ICE 00: -

The disclosure provides a blasthole charge stemming method for rock fracturing with dry ice. The method includes: determining a diameter and a length of the rubber stemming plug according to the size of the blasthole in the on-site foundation pit construction and the friction needed to be provided without punching; determining a length of the wooden hammer pad according to construction conditions in the on-site foundation pit construction; passing the detonating wire through the empty hole of the rubber stemming plug, then inserting the bottom of the rubber stemming plug into the blasthole for fixing, and placing the detonating wire into the groove on the wooden hammer pad; and hammering the wooden hammer pad until the rubber stemming plug is inserted into the blasthole to the predetermined position. The disclosure further provides a stemming structure. The disclosure applies the principle that the rubber has strong elastic force after deformation. When stemming, the detonating wire is passed through the empty hole of the rubber stemming plug, then one end of the rubber stemming plug is inserted into the blasthole for fixing, the detonating wire is placed into the groove on the wooden hammer pad, and the wooden hammer pad can be then hammered, thereby solving existing problems of stemming difficulty and easy breaking of the detonating wire in the dry ice rock fracturing technology.



#### 21: 2023/06777. 22: 2023/07/03. 43: 2024/01/23 51: G01B

#### 71: GUANGZHOU METRO GROUP CO., LTD., CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD

72: Lijun Wang, Jianguo Gao, Hanlong Liu, Jian Luo, Xujie Li, Guixi Guo, Bing Yu, Zhigang Zhou, Huaguo Song, Xiaobo Wei, Kangming Huang, Liang Li 54: DEVICE FOR FACILITATING REPLACEMENT AND PROTECTION OF UNDERGROUND EXCAVATED MONITORING MEASUREMENT POINTS

00: -

The disclosure provides a device for facilitating replacement and protection of underground excavated monitoring measurement points. In the device, a first member includes a reinforced bar and a straight thread sleeve, and the reinforced bar and the straight thread sleeve are screwed and welded fixedly; a second member is a protective casing, the protective casing includes a steel plate and a steel pipe, one end of the steel pipe is welded and sealed with the steel plate, and a firm welding forms the protective casing; the first member passes through the second member and is welded and fixed, so as to form an integral member; and a monitoring measurement pile is arranged at one end of the integral member, the integral member is used in conjunction with the monitoring measurement pile, and the pre-buried installation is carried out after the integral member and the monitoring measurement pile is connected and tightened.



21: 2023/06802. 22: 2023/07/04. 43: 2024/01/23 51: E04B

71: CHINA CONSTRUCTION FIFTH DIVISION SOUTHERN CONSTRUCTION SUBSIDIARY CORP., LTD

72: WANG, Wei, QIAO, Xiaoling, ZHANG, Xin, FU, Muhua, FAN, Lixiong, WANG, Qianhong, WANG, Zhan, ZENG, Guangjian, XIE, Zhou, HAO, Qiya, ZENG, Cheng, LUO, Zhiqiang 54: A GREEN ENERGY-SAVING ROOF STRUCTURE

#### 00: -

The present invention discloses a green energysaving roof structure, which relates to the technical field of green energy-saving buildings. It comprises a roof, a rainwater recovery system and a sprinkler system. The roof adopts a slope surface, its top a horizontal structure, and side edges a vertical structure. The roof is provided with a mixed layer, reinforced concrete layer, rainwater collection layer, waterproof layer, thermal insulation layer and leveling layer from top to bottom. The mixed layer comprises a soil layer, sand layer and solar panel. The rainwater collection layer is hollow inside, and provided with support columns at intervals to connect the reinforced concrete layer and the waterproof layer. The rainwater collection layer has an inlet at the top, and an outlet and a rainwater collection port at the bottom. The rainwater collection port is connected with the rainwater recovery system to realize the recycling and utilization of rainwater. The sprinkler system is to clean the solar panel and keep the soil moist. The present invention can store, recycle and reuse rainwater in rainy days, and collect solar energy in sunny days to reduce air conditioning load and energy consumption, remove moisture and protect roofing materials.



21: 2023/06803. 22: 2023/07/04. 43: 2024/01/23 51: G01N

71: JILIN MEDICAL UNIVERSITY 72: XIU, Zhiming, CAI, Jianhui, YANG, Weilong, CAO, Hongmei, CUI, Baiji, LIU, Jiaxue, YIN, Moli, LI, Guangging, ZHAO, Shan

#### 33: CN 31: 2023103625545 32: 2023-04-06 54: TETRABROMOPHENOL BLUE ALKALI **METAL SALT, PREPARATION METHOD** THEREFOR AND USE THEREOF 00: -

The present invention provides a tetrabromophenol blue alkali metal salt, a preparation method therefor and use thereof, and belongs to the technical field of tetrabromophenol blue salt formation. The tetrabromophenol blue alkali metal salt of the present invention is tetrabromophenol blue lithium salt, tetrabromophenol blue sodium salt, and tetrabromophenol blue potassium salt; the preparation method for the tetrabromophenol blue alkali metal salt comprises the following steps: performing salt-forming reaction on tetrabromophenol blue and alkali metal salt in an aprotic solvent, crystallizing to obtain a crude product, and recrystallizing in the aprotic solvent to obtain a pure tetrabromophenol blue alkali metal salt. The preparation method for the tetrabromophenol blue alkali metal salt provided by the present invention overcomes the problem of poor water solubility of the existing tetrabromophenol blue, and the prepared tetrabromophenol blue alkali metal salt has the advantages of a simple preparation process, mild conditions, high product purity, high yield, and low cost, can be produced in large scale, and is beneficial to further use in albumin diagnostic reagents and hair dyes.

21: 2023/06810. 22: 2023/07/04. 43: 2024/01/23 51: H04B: H04H: H04J: H04K 71: Dr. Vishal Sharma 72: Dr. Vishal Sharma 54: A SYSTEM TO ANALYSE EFFECT OF NOISE **ON PRACTICAL QUANTUM COMMUNICATION** SYSTEMS

00: -A SYSTEM TO ANALYSE EFFECT OF NOISE ON

PRACTICAL QUANTUM COMMUNICATION SYSTEMS The present invention provides a system to analyze the effect of noise on practical quantum communication systems. Quantum key distribution (QKD) is one of the important techniques in the area of secure communication networks. It is based on key exchange phenomenon that is opposite to classical cryptography where key distribution is used for security. For symmetric key cryptosystems, the same secret key is required for both the users to perform encryption and decryption. This drawback is solved in public key cryptography, but it is unsecure because of various attacks. Difie-Hellman key exchange is a classical key exchange protocol but more complex to perform in polynomial time for some selected problems. All these methods are not unconditionally secure, and data can be altered and duplicated by an eavesdropper, say Eve, in between the communication link at any point even without notice of the communicating parties. QKD is based on the No-Cloning theorem that is quantum mechanically and unconditionally secure and any changes in original data alerts the transmitter and receiver, hence providing high security from eavesdroppers.

21: 2023/06820, 22: 2023/07/04, 43: 2024/02/19 51: H01M 71: ROBERT BOSCH GMBH, POWERCELL SWEDEN AB, GREENERITY GMBH 72: HALUSCHKA, Christoph, MAIER, Eberhard, YILDIRIM, Ali Riza, GERLACH, Martin, RINGEL, Anton, RINGK, Andreas, KNORR, Florian Alexander, MULLER, Aude, ANDERSSON, Jenny, HOLMBERG, Mattias, MUNTHE, Stefan, ANDERSCH, Stefan, DZIALLAS, Holger, SUCHSLAND, Jens-Peter 33: DE 31: 10 2020 133 959.3 32: 2020-12-17 54: METHOD FOR SECURING A GASKET ON A **BIPOLAR PLATE** 00: -

The invention relates to a method of attaching a gasket (4) to a bipolar plate (12). The method comprises the steps of applying and aligning a first gasket foil (4a) to a second gasket foil (4b) having connection recesses (8), connecting the first gasket foil (4a) to the second gasket foil (4b), so that the gasket (4) is formed, placing the gasket (4) on the bipolar plate (12) so that the second gasket film (4b) with the bonding recesses (8) abuts the bipolar plate (12) and performing an embossing step in which an embossing force is applied with an embossing tool (20) in the region of the connecting recesses (8) so that an embossed adhesive point (24) is formed and the first gasket foil (4a) is bonded to the bipolar plate (12) via an adhesive means (16) arranged in the connecting recess (8) on the first gasket foil (4a).



21: 2023/06821. 22: 2023/07/04. 43: 2024/01/24 51: B01D; F04B

71: JINGYAN MECHANICAL & ELECTRICAL TOOLS CO., LTD

72: Huabin CHEN, Lingfeng ZHU 33: CN 31: 202011469469.1 32: 2020-12-14 54: DUSTPROOF AND PROTECTIVE STRUCTURE FOR AIR COMPRESSOR 00: -

A dustproof and protective structure for an air compressor includes a rack. The rack is provided with an air inlet channel (1). The air inlet channel (1) is provided with an air inlet. An end of the air inlet channel (1) is fixedly connected to a filter plate (2). An inner wall of the air inlet channel (1) is fixedly connected to a water tank (3). A driving gear (4) is provided in the water tank (3). Each of two sides of the driving gear (4) is provided with a driven gear (5). The driven gears (5) are rotatably connected to the inner wall of the air inlet channel (1). Each of the driven gears (5) is fixedly connected to a rotating rod (6). A plurality of grinding wheels (7) are fixedly connected to the rotating rods (6). A lower half of each of the grinding wheels (7) is immersed in the water tank (3).



#### 21: 2023/06832. 22: 2023/07/05. 43: 2024/01/23 51: B01F

71: Dr. Mithun Rudrapal, Dr. Johra Khan, Dr. Atul R. Bendale

72: Dr. Mithun Rudrapal, Dr. Johra Khan, Dr. Atul R. Bendale

33: IN 31: 202341033157 32: 2023-05-11 54: METHOD FOR SCREENING PHYTOCOMPOUNDS FOR TRIPLE INHIBITORY POTENTIAL AGAINST COX-1, COX-2, AND 5-LOX 00: -

The present invention relates to a method for screening phytocompounds for their triple inhibitory potential against COX-1, COX-2, and 5-LOX is provided. The method involves molecular docking studies of phytocompounds, including curcumin, capsaicin, and gingerol, against the crystal structures of COX-1, COX-2, and 5-LOX, obtained from the Protein Data Bank. Ligands were prepared using the LigPrep module, and molecular dynamics simulations were performed using the Desmond module of Schrödinger software. Density functional theory analyses were carried out using the Gaussian09 program, and the QSAR study was performed using the HyperChem Professional 8.0.3 program. The method enables the identification of phytocompounds with high triple inhibitory potential, which may be further evaluated for their efficacy in vitro and/or in vivo.



21: 2023/06835. 22: 2023/07/05. 43: 2024/01/23 51: E21D

71: CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD, GUANGZHOU METRO GROUP CO., LTD., CHINA RAILWAY TUNNEL STOCK CO., LTD. 72: Chenliang Wei, Xianpeng Li, Chen Liu, Along Wang, Zhongkai Yuan, Xiaohai Zhang, Ruisheng Ma, Guangsheng Liang, Xujie Li, Hongxia Guo, Enlei Li, Qingdian Yuan, Dang Tan 54: FORMWORKING JUMBO FOR ARCH

## BUCKLING AND LINING WITH PILE-BEAM-ARCH METHOD

00: -

The disclosure provides a formworking jumbo for arch buckling and lining with the pile-beam-arch method. The formworking jumbo can facilitate smooth passage of excavation equipment in front of a tunnel face by arranging a jumbo frame in a door type; an arch buckling structure formwork can be positioned by arranging lifting devices, making the operation more convenient; the jumbo frame can be driven to move forwards or backwards by arranging a track traveling device; a first side formwork and a second side formwork can be adjusted to be tightly propped against a side foundation of a top longitudinal beam after a top formwork is positioned by arranging the arch buckling structure formwork; and conveying pipes can guarantee the quality of concrete pouring, and operation windows can satisfy requirements of layered concrete pouring by arranging an operation device, thereby reducing construction cost and improving construction quality.



21: 2023/06861. 22: 2023/07/06. 43: 2024/01/23 51: G01W

71: Dr. K. Bindu Kumar, Dr. K. R. Remesh Babu, Dr. Sangeetha U., Dr. Ramesh Unnikrishnan
72: Dr. K. Bindu Kumar, Dr. K. R. Remesh Babu, Dr. Sangeetha U., Dr. Ramesh Unnikrishnan
54: SECURE CLOUD-BASED WEATHER
MONITORING SYSTEM WITH DISTRIBUTED
SENSOR NETWORK

#### 00: -

This invention relates to a weather monitoring system that utilizes a distributed sensor network to collect climate information, which is then processed by a microcontroller and sent to a cloud server for storage and retrieval. The cloud server provides data storage and processing functionalities, and the information is made available to the user for informed decision-making. In this system, security is of utmost importance due to the sensitive nature of the data, such as user location and climate conditions. To address this issue, a homomorphic encryption technique is utilized to secure the data before uploading it to the cloud. The system includes five different sensors to measure humidity, object finding, temperature, raindrop intensity, and CO2 levels. The sensor readings are encrypted and stored in the cloud with a unique encryption key for each data element.



21: 2023/06865. 22: 2023/07/06. 43: 2024/01/23 51: H02S

71: ROUX HAMEED, Sofia Tallula 72: ROUX HAMEED, Sofia Tallula 33: US 31: 63/359,013 32: 2022-07-07

## 54: RETRACTABLE SOLAR SYSTEM

A photovoltaic system includes a frame configured to removably couple to a structure. A first photovoltaic panel is coupled to a first portion of the frame, the first photovoltaic panel having a first side configured to face away from the frame, the first side comprising a first area of photovoltaic material. A second photovoltaic panel is movably coupled to a second portion of the frame, the second photovoltaic panel comprising a first side configured to face away from the frame, the first side of the second photovoltaic panel comprising a second area of photovoltaic material. A movement mechanism is coupled to the frame, the movement mechanism configured to cause the second photovoltaic panel to move between a first configuration and a second configuration.



21: 2023/06894. 22: 2023/07/07. 43: 2024/01/23 51: E04H

#### 71: JIANG SU RUIFENG INTELLIGENT TECHNOLOGY CO., LTD. 72: WANG, SHUJING 54: RING-SHAPED 3D STAGE EQUIPMENT WITH CONTROL MECHANISM 00: -

Discolsed is a ring-shaped 3D stage equipment with a control mechanism, which includes a base connected with a connecting plate. The connecting plate is fixed with a rounded convex block. An outer surface of the bottom of the rounded convex block is fixed with four side blocks. The stage equipment is equipped with a driving motor, four supporting legs, a side opening, four junction plates, and a universal wheel. Due to operation of the driving motor, the four junction plates and the universal wheel will be driven up and down. When the universal wheel is extended from the four supporting legs, it will make it convenient to move a stage. When the universal wheel extends into the interior of the four supporting legs, it will form a fixed effect on the stage due to a supporting effect of the four supporting legs, thus increasing the practicability of the stage equipment.



21: 2023/06895. 22: 2023/07/07. 43: 2024/01/23 51: B65B

71: QINGDAO YATAN STATIONERY CO., LTD 72: YAN, TINGHONG, YAN, HONGJUN, TIAN, SHOUQUN, TIAN, ZHENYU, TIAN, GUOGANG 54: AUTOMATIC CORRECTION FLUID FILLING DEVICE

#### 00: -

The disclosure relates to the technical field of correction fluid filling and discloses a pipelined automatic correction fluid filling device. The filling device comprises a rotatable disc-shaped table arranged on the main frame, and a power device, a steel forging feeding device, a liquid filling device, a bottle cap mounting device, a detection device, and a PLC control device arranged on the circumference of the rotatable disc-shaped table. The filling device described above is a kind of automatic equipment. When the device is running, the staff only need to

insert the bottle, which is easy to learn and easy to fast. As for the product quality of correction fluid canning, the original correction fluid canning product needs to pass through three hands, with a higher proportion of stains and scratches. The filling device described above only needs one clamping operation, which can effectively avoid the situation of dirt and scratches. At the same time, the filling device is simple and compact, which greatly saves the floor area. Through the control system, the filling of correction fluid is completely automatic, which greatly improves the working efficiency of the equipment.



- 21: 2023/06896. 22: 2023/07/07. 43: 2024/01/23 51: B29C
- 71: Georg Fischer Rohrleitungssysteme AG
- 72: ROESCH, Juergen, ENGESSER, Benedikt
- 33: EP(CH) 31: 22 183 714.9 32: 2022-07-08 54: ZONE-BASED HEATING ELEMENT

## 00: -

Heating element for generating IR heat beams for contactlessly heating plastic profile ends, preferably for end-face welding of pipes or fittings clamped in a device, comprising a heating plate made at least partially of a conductive material and having two heatable faces, a heating wire for generating the heat beams, wherein the heating wire is arranged on the faces of the heating plate, wherein the heating plate has a plurality of heating zones spaced apart radially from one another.



# 21: 2023/06908. 22: 2023/07/07. 43: 2024/01/30 51: G05B

71: HEARTLAND AG TECH, INC. 72: SANDERS, RUSSELL, PAVELSKI, JEREMIE 33: US 31: 63/133,542 32: 2021-01-04 54: DETERMINING DRIVE SYSTEM ANOMALIES BASED ON POWER AND/OR CURRENT CHANGES IN AN IRRIGATION SYSTEM 00: -

A predictive maintenance system for an irrigation system includes one or more sensors configured to generate a signal indicative of abnormal operation within the irrigation system, the sensors electrically coupled to a drive system, a processor, and a memory. The memory includes instructions stored thereon, which when executed by the processor cause the predictive maintenance system to receive the generated signal, determine abnormal operation of the drive system based on the generated signal, and predict, by a machine learning model, a maintenance requirement of the drive system based on the determined abnormal operation.



21: 2023/06923. 22: 2023/07/07. 43: 2024/01/23 51: A01B

71: INSTITUTE OF FOOD AND CROPS OF THE ACADEMY OF AGRICULTURAL SCIENCES OF YUNNAN PROVINCE

72: Wei DENG, Xiaolin LI, Ying LV, Jianhua ZHANG, Yuran XU, Limei KUI, Jian TU, Junjiao GUAN, Sheping LI

#### 33: CN 31: 202310213808.7 32: 2023-03-08 54: METHOD OF DRY SEEDLING RICE SEEDLING TRAY IN SANDY LOAM SOIL 00: -

A method of dry seedling rice seedling trays in sandy loam soil is provided, which belongs to the technical field of rice planting. The method includes the operations of field selection and preparation, seedling bed opening, seedling bed arrangement, seeding, fertilizer management, water management, temperature management, transplanting and so on. The shortcomings of dry rice seedling are solved, and in addition, the technical problems of poor fertility preservation, poor water retention, difficulty in fixing root systems, and difficulty in generating tillering. The method allows the rice to grow better and allows the rice seedling to be managed better. The seedlings cultivated by the method are highly dense, are neatly and uniformly growing, are strong, and have better root system coiling.



21: 2023/06924. 22: 2023/07/07. 43: 2024/01/23 51: E01D 71: CHINA CONSTRUCTION FIFTH ENGINEERING BUREAU CO., LTD. 72: ZHANG, Xu, WU, Hekun, SHAN, Hongwei, CHEN, Tao, REN, Yejun 54: A NOVEL MANAGEMENT AND MAINTENANCE SYSTEM FOR A SMALL-RADIUS AND LARGE-CROSS-SECTION EXTRADOSED CABLE-STAYED BRIDGE 00: -

The present invention discloses a novel management and maintenance system for a smallradius and large-cross-section extradosed cablestayed bridge, relates to the technical field of bridge health monitoring, maintenance and management. The system comprises a bridge health monitoring device, a traffic limiting device, a server, an alarm unit, a management and maintenance decisionmaking unit, a traffic light guiding device and a memory cell. The present invention can perform comprehensive monitoring and management of the health conditions of a bridge through the traffic and other information, such as the environment. And the management difficulty of a bridge is reduced and the management efficiency is greatly improved; The safety of a bridge is greatly improved by sending a timely alarm signal with an alarm unit; The scientific maintenance and repair of a bridge is facilitated, the service life of a bridge is prolonged and the safe and smooth traffic and transportation is ensured.



### 21: 2023/06925. 22: 2023/07/07. 43: 2024/01/23 51: C01D

71: JILIN MEDICAL UNIVERSITY 72: XIU, Zhiming, YANG, Weilong, CAI, Jianhui, JIA, Boyan, YIN, Moli, LIU, Jiaxue, LIU, Lei, GUO, Yongxin, WANG, Yangyang, WANG, Huiyan 33: CN 31: 2023103625390 32: 2023-04-06 **54: 3,4,5,6-**

#### TETRAHALOPHENOLSULFONPHTHALEIN ALKALI METAL SALT, PREPARATION METHOD THEREFOR AND USE THEREOF 00: -

The present invention provides a 3,4,5,6-

tetrahalophenolsulfonphthalein alkali metal salt, a preparation method therefor and use thereof, and belongs to the technical field of 3,4,5,6tetrahalophenolsulfonphthalein salt formation. The tetrahalophenolsulfonphthalein alkali metal salt of the present invention is

tetrahalophenolsulfonphthalein lithium salt, tetrahalophenolsulfonphthalein sodium salt, and tetrahalophenolsulfonphthalein potassium salt; and the preparation method for the

tetrahalophenolsulfonphthalein alkali metal salt comprises the following steps: performing saltforming reaction on tetrahalophenolsulfonphthalein and an alkali metal salt in an aprotic solvent, crystallizing to obtain a crude product, and recrystallizing in the aprotic solvent to obtain a pure tetrahalophenolsulfonphthalein alkali metal salt. The preparation method for the

tetrahalophenolsulfonphthalein alkali metal salt provided by the present invention overcomes the problem of poor water solubility of the existing tetrahalophenolsulfonphthalein, and the prepared tetrahalophenolsulfonphthalein alkali metal salt has the advantages of a simple preparation process, mild conditions, high product purity, high yield, and low cost, can be produced in large scale, and is beneficial to further use in an acid-base indicator and an albumin diagnostic reagent.

21: 2023/06927. 22: 2023/07/07. 43: 2024/01/23 51: F16S

71: CHINA CONSTRUCTION FIFTH ENGINEERING BUREAU CO., LTD. 72: WANG, Jie, WANG, Hao, LIAO, Yong, XIAN, Dongyun, TIAN, Xiyuan, WU, Chunpeng, CHEN, Mingji

#### 54: A HYPERBOLIC ROOF CONSTRUCTION PROCESS BASED ON BIM SIMULATION 00: -

The present invention discloses a hyperbolic roof construction process based on BIM simulation, and relates to the technical field of building roofs. The process comprises the steps of: Modeling the hyperbolic roof through a BIM software to construct a formwork support and roof formwork; simulating arrangement spacings and elevation point positions of the vertical pole through BIM to form a hyperbolic roof formwork support network; Performing construction simulation on the assembly of the hyperbolic spherical roof formwork and selecting the optimal assembly solution through simulation analysis; Installing an edge formwork with the same thickness as that of the concrete to be poured on the edge of the roof formwork; Pouring concrete in the square formed by the roof formwork and the edge formwork; And removing the edge formwork after concrete shaping to complete the construction of the hyperbolic roof. By designing with a specific structure through the BIM technology, the present invention obtains a high-precision hyperbolic roof, can be extensively applied to the field of hyperbolic roof optimization, reduce construction steps by directly pouring concrete on the roof formwork, enhance the overall strength of the hyperbolic roof and improve the construction speed.



21: 2023/06928. 22: 2023/07/07. 43: 2024/01/23 51: F16S

71: CHINA CONSTRUCTION FIFTH DIVISION SOUTHERN CONSTRUCTION SUBSIDIARY CORP., LTD

72: HUANG, Xuguang, WANG, Xiaodong, PI, Yuanjie, CHEN, Long, FAN, Lixiong, WANG, Qianhong, WU, Jikang, CHEN, Hu, ZHANG, Xiaoqing, GONG, Siwei

## 54: AN ENERGY-SAVING DETECTION SYSTEM FOR A CONSTRUCTION SITE

00: -

The present invention discloses an energy-saving detection system for a construction site, and belongs to the technical field of building construction. It comprises: a site monitoring center, an energysaving detection module, a safety monitoring module, a monitoring database a wireless communication module and an adjustable power supply; wherein, the energy-saving detection module and the safety monitoring module are in communication connection with the site monitoring center through the wireless communication module, and the site monitoring center is connected to the monitoring database; the energy-saving detection module is used for collecting the energy consumption data of the construction site and the electrical equipment of the detection system, and the safety monitoring module is used for collecting the safety status data of the construction site, and the site monitoring center is used for processing the energy consumption data and the safety status data

to monitor the safety and energy consumption states of the construction site, the monitoring database is used for storing the energy consumption data and the safety status data and the adjustable power supply is used for supplying power to the energysaving detection system. On the basis of realizing effective monitoring of the safety conditions within construction site, the present invention can achieve energy-saving construction of the construction site by detecting the energy consumption and abnormal power consumption of the electrical equipment.



21: 2023/06937. 22: 2023/07/10. 43: 2024/01/24 51: A23N

71: INSTITUTE OF ANIMAL SCIENCE AND VETERINARY MEDICINE, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES 72: ZHANG, Xianglun, LIANG, Meng, ZHAO, Hongbo, LIU, Xiaomu, LI, Chuanhao, SHENG, Qingkai, YANG, Zhaojun, CHEN, Xiangxing, LI, Qinglei

#### 33: CN 31: 2023100210390 32: 2023-01-07 54: FERMENTED FEED FOR BEEF CATTLE AND PREPARATION METHOD THEREFOR 00: -

The present invention relates to the technical field of feed preparation, in particular to a fermented feed for beef cattle and a preparation method therefor. The present invention provides a fermented feed for beef cattle. The fermented feed includes: 20-30 parts of brewer's spent grains, 20-30 parts of extruded soybeans, 20-28 parts of soybean curb residues, 18-22 parts of mixed grass meal, 3-7 parts of corn oil, 3-7 parts of molasses, 3-5 parts of salt, 2-4 parts of magnesium sulfate, 2-4 parts of sodium bicarbonate, 4-8 parts of mixed vitamins, 4-8 parts of mixed minerals, 3-7 parts of mixing microbial inoculum and 3-7 parts of fermenting microbial inoculum. The fermented feed for beef cattle can improve the ruminal peristalsis and working capacity of beef cattle, promote normal rumination, improve digestion level and increase dry matter feed intake.

21: 2023/06974. 22: 2023/07/10. 43: 2024/01/30 51: A01G 71: DEEP ROOT IRRIGATION, LLC

72: CIUDAJ, Jeffrey

33: US 31: 17/516,513 32: 2021-11-01

#### 54: IRRIGATION DEVICE FOR PROMOTING DEEP ROOT GROWTH OF A PLANT 00: -

An irrigation device for promoting deep root growth of a plant. The irrigation device may comprise: a tube and a hose, wherein the hose may have one or more slits that allow liquid to seep out if the water pressure in the hose is too high. The water pressure may get too high if the pores of the soaker hose become temporarily clogged, which may happen if a fertilizer solution is put into the irrigation system.



# 21: 2023/06987. 22: 2023/07/11. 43: 2024/02/23 51: A01G

# 71: TIANJIN ACADEMY OF AGRICULTURE SCIENCES

72: ZHAO, Qiu, WU, Di, ZHANG, Xinjian, NING, Xiaoguang

#### 54: A FERTILIZER-SAVING AND LOSS-REDUCING CORN PLANTING METHOD AND ITS APPLICATIONS 00: -

The present invention relates to the planting technical field, especially a fertilizer-saving and lossreducing corn planting method and its applications. The fertilizer-saving and loss-reducing corn planting method in the present invention comprises the following steps: (1) Winter green manure planting: Sow the winter green manure after harvesting the corns in September of the current year, apply monopotassium phosphate and then irrigate; (2) Winter green manure irrigation and fertilization: At the beginning of the next March, after the winter green manure revives, apply urea and irrigate; (3) Overturn the winter green manure; In the middle of the next April, crush the winter green manure and overturn them with the soil; (4) Corn planting: Plant corns at the beginning of the next May and apply organic and inorganic fertilizer; The said winter green manure in Step (1) is sown at the seeding rate of 2.5-3 kg/mu; The said winter green manure is one or more types among rye, hairy vetch and orychophragmus violaceus. The method in the present invention is able to improve the utilization rate of fertilizer and biomass in corns.

21: 2023/06988. 22: 2023/07/11. 43: 2024/02/23 51: A23N 71: HUNAN AGRICULTURAL UNIVERSITY

72: ZHAO, Lingyan, DENG, Fangming 54: CHILI PRETREATMENT DEVICE AND METHOD 00: -

## The present invention relates to chili production technology and discloses a chili pretreatment device and method. The chili pretreatment device comprises: a sorting table, a first conveyor belt, a winnowing machine, a second conveyor belt, a cleaning machine, and a fermentation tank for fermentation, wherein one side of the sorting table is provided with a waste collection box for collecting chili waste, and the winnowing machine is provided with an impurity collection box for collecting impurity materials. The chili pretreatment method comprises

the following steps: S1: screening fresh chilis, removing stalks of the fresh chilis to obtain a chili material I and chili waste, and winnowing the chili material I to remove an impurity to obtain a chili material II and an impurity material; S2: washing the chili material II at least twice to obtain a chili material III and cleaning wastewater; and S3: mixing the chili waste, the impurity material, the cleaning wastewater, and a microbial compound bacteria agent for fermentation to obtain an organic fertilizer. The pretreatment method and the pretreatment device can effectively use the chili waste material and the cleaning wastewater, and have a good cleaning effect.



21: 2023/06989. 22: 2023/07/11. 43: 2024/02/23 51: E01C

71: HENAN PROVINCIAL COMMUNICATIONS PLANNING & DESIGN INSTITUTE CO., LTD. 72: ZHANG, Hao, ZHENG, Yakun, HAO, Menghui, KANG, Cunli, LI, Liyuan, LIU, Na, FENG, Luqing, DONG, Lipeng, JIANG, Yichuan

## 54: GROUTING METHOD FOR PAVEMENT CRACKS

#### 00: -

A grouting method for pavement cracks is provided. A grouting nozzle of a grouting cap device for grouting is connected to a grouting pipe. The grouting pipe extends underground. A movable plate of the grouting cap device is rotated to expose third, second, and first grouting chambers. Polymer is injected into an interior of the grouting cap device through a grouting gun. The polymer enters the underground through the grouting cap device and the grouting pipe. The grouting cap device and the grouting pipe are separated after the polymer is injected and coagulated. The grouting nozzle is installed on a left side of the grouting sleeve. The grouting rod is installed on a right side of the grouting sleeve. The third, second, and first grouting chambers are cylindrical with a same diameter and connected with each other. A fixed plate is movably connected to the movable plate.



21: 2023/07013. 22: 2023/07/11. 43: 2024/02/23 51: A61K; C07D; A61P 71: GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD., OCUSUN OPHTHALMIC PHARMACEUTICAL (GUANGZHOU) CO., LTD. 72: GE, Jian, WANG, Yandong, LIU, Yizhi, WU, Lingyun, YOU, Xu, XIAO, Zheming, CHEN, Shuhui 33: CN 31: 202011521011.6 32: 2020-12-21 54: SALT FORM OF ISOQUINOLINONE TYPE COMPOUND AS ROCK INHIBITOR AND PREPARATION METHOD THEREFOR 00: -

Disclosed is a salt form of an isoquinolinone type compound as a ROCK protein kinase inhibitor and a preparation method therefor, and use of the salt form in the preparation of a medicament for treating glaucoma or ocular hypertension is further included.



21: 2023/07049. 22: 2023/07/13. 43: 2024/01/24 51: G06Q

71: CHINA RAILWAY FIRST GROUP CO., LTD, EIGHTH ENGINEERING COMPANY LTD.OF CHINA RAILWAY FIRST GROUP, CHINA RAILWAY FIRST GROUP BRIDGE ENGINEERING CO., LTD. 72: XUAN, Xinpeng, BI, Zhanglong, CHEN, Qingyun, XU, Hong, SHEN, Jie, ZHAO, Bin, XING, Liao, ZHUO, Lei, CHENG, Xiangyang, YANG, Yanji, SHI, Zhongpan, TAO, Qianqian, ZHANG, Guanjian, QIN, Xiaodong

### 33: CN 31: 2023107544903 32: 2023-06-26 54: A CONSTRUCTION QUALITY MANAGEMENT SYSTEM

00: -

The present invention discloses a construction quality management system, relates to the technical field of safety quality of building construction. The system is provided with a target determination module for determining the engineering standard, and a quality control module for carrying out quality control to each link in the construction process according to the engineering standard determined by the target determination module, which carries out full-process tracking management for each link during the construction, ensures the qualified rate of the on-site construction quality, greatly reduces the workload of daily construction quality supervision and management and significantly improves the working efficiency of quality supervision and management. The all-round and full-time monitoring of the construction process can facilitate sufficient analysis and summary of the quality data, and provide effective suggestions for decision-makers and the management team.



21: 2023/07050. 22: 2023/07/13. 43: 2024/01/24 51: E04F 71: CHINA CONSTRUCTION FIFTH ENGINEERING BUREAU CO., LTD. 72: LIU, Ping, YAN, Xiang, YANG, Shuai, AO, Xianping, HE, Xiaochuan 54: A TYPE OF ARC-STRUCTURE PLASTERING AND MOLDING EFFECT CONTROLLER 00: -

The present invention discloses a type of arcstructure plastering and molding effect controller, which relates to the building construction equipment field and comprises the transverse plate, top plastering plate, fixed plate, movable plate and arc plastering-adjustment structure; The said transverse plate has the said top plastering plate on its lower side face, the lower side of the said top plastering plate is connected the top side face of the said fixed plate at one end and connected to the said movable plate at the other end, the bottom end of the said fixed plate and movable plate is connected the said arc plastering-adjustment structure respectively and the two said arc plastering-adjustment structures are provided correspondingly. The present invention is convenient to use. It is able to adjust the plastering arc and thickness with a high stability and applicable to different arc structures.



21: 2023/07051. 22: 2023/07/13. 43: 2024/01/24 51: A23L

71: JILIN MEDICAL UNIVERSITY 72: XIU, Zhiming, YANG, Weilong, ZHAO, Shan, ZHANG, Qing, GAO, He, LIU, Yi, GUO, Hongyan, MENG, Fanwei, FU, Yu, YU, Zibei 33: CN 31: 2023107525226 32: 2023-06-25 54: FRUIT AND VEGETABLE AQUEOUS EXTRACT, PREPARATION METHOD THEREFOR AND USE THEREOF 00: -

The present invention provides a fruit and vegetable aqueous extract, a preparation method therefor and use thereof, and belongs to the technical field of fruit and vegetable extracts. The fruit and vegetable aqueous extract of the present invention has a high aldose reductase inhibitory activity, is used for longterm prevention or treatment of diabetic complications, and overcomes the defect of toxicity

to a human body caused by long-term administration of medicaments. The plant aqueous extracts of the present invention have the advantages of easily available raw materials, simple methods and high yields, can be produced in large scale, can be convenient to be taken, and have low costs and no toxicity, and are beneficial to further use in long-term prevention or treatment of diabetic complications.

21: 2023/07052. 22: 2023/07/13. 43: 2024/02/21 51: F16L

71: CHINA RAILWAY FIRST GROUP MUNICIPAL & ENVIRONMENTAL PROTECTION ENGINEERING CO., LTD, CHINA RAILWAY FIRST GROUP CO., LTD.

72: MA, Bin, FENG, Xu, PAN, Xinfeng, NIU, Chao, ZHU, Yingying, LI, Zhenghua, WANG, Peijun
33: CN 31: 2023107068292 32: 2023-06-14
54: A STRUCTURE FOR PIPELINE
PENETRATING SLEEVE AND CONSTRUCTION
PROCESS THEREOF

00: -

The present invention discloses a structure for pipeline penetrating sleeve and construction process thereof, and belongs to the technical field of underground pipeline construction; the structure comprises: a sleeve pre-embedded below a highway with a preset distance: a plurality of pipelines fixed in the sleeve; wherein, the first end of the pipeline is provided with a socket, and the second end is inserted in the socket of the first end of another adjacent pipeline; and the socket is provided with a first groove and a second groove from inside to outside successively; The construction process comprises the following specific steps: 1) Pouring concrete on the leveling layer in the sleeve and the construction platform outside the sleeve; 2) Lofting axes and rail lines; 3) Installing rails; 4) Installing grouting pipes and optical fiber tubes; 5) Installing pipelines; 6) Installing sealing rings, support rings and stoppers; 7) Applying lubricating oil. In the present invention, a concrete leveling layer foundation is poured in the sleeve bottom and a concrete construction platform is arranged outside the sleeve, and the pipeline bottom is supported by a processed car, and the pipeline is pulled by steel ropes and chain blocks, and a lot of manpower and material resources are saved.



- 21: 2023/07059. 22: 2023/07/13. 43: 2024/01/29
- 51: B29B; C10G
- 71: LUMMUS TECHNOLOGY LLC
- 72: CHAKRABORTY, Sudipto, FERNALD, Daniel T.,
- GUYMON, David Lee, HERBANEK, Ron, JIBB,

Richard John, COMBS, Johnny Doyle, LINDSEY, Boddie Lynn

## 33: US 31: 63/138,233 32: 2021-01-15 54: CONVERSION OF WASTE PLASTICS TO PETROCHEMICALS

00: -

Process and systems for converting waste plastics include feeding a waste plastic to a melt tank, and in the melt tank, heating the waste plastic to form a molten plastic. The molten plastic is withdrawn from the melt tank and fed to a pyrolysis reactor. In the pyrolysis reactor, the molten plastic is heated to a pyrolysis temperature, producing a pyrolysis oil product and a liquid pitch product. The pyrolysis oil is then separated into a pyrolysis gas fraction, a light pyrolysis oil fraction, a medium pyrolysis oil fraction, and a heavy pyrolysis oil fraction.



21: 2023/07085. 22: 2023/07/14. 43: 2024/01/24 51: G01N

71: Chongqing University, Chongqing GaoWei Smart Mining Co., Ltd

72: SHANG, Xueyi, PU, Yuanyuan, ZHOU, Lei, MIAO, Runxue

## 54: METHOD AND SYSTEM FOR JOINT INVERSION OF VELOCITY STRUCTURE AND HYPOCENTER LOCATION, TERMINAL, AND READABLE STORAGE MEDIUM

00: -

The present invention discloses a method and system for joint inversion of velocity structure and earthquake hypocenter location, a terminal, and a readable storage medium.

## 21: 2023/07087. 22: 2023/07/14. 43: 2024/01/24

- 51: H04L; G06Q
- 71: Tianjin Vocational Institute

#### 72: WANG, Xiang 54: CLOUD DATA CENTER DEVICE MANAGING

## SYSTEM 00: -

Disclosed is a cloud data center device managing system, which comprises the following modules: a device managing module, which is configured to manage a hardware device of a data center; a monitoring module, which is configured to monitor the hardware device of the data center in real time; a maintaining module, which is configured to maintain the hardware device of the data center; an asset managing module, which is configured to manage all assets of the data center; a security module, which is configured to protect security of the hardware device and data of the data center; a report module, which is configured to generate various types of reports; a user managing module, which is configured to manage users of the data center; an API module, which is used to provide a set of API interfaces for third-party developers to build more advanced applications and tools based on the system.



21: 2023/07091. 22: 2023/07/14. 43: 2024/01/24 51: E21B

71: CHINA RAILWAY FIRST GROUP MUNICIPAL & ENVIRONMENTAL PROTECTION ENGINEERING CO., LTD, CHINA RAILWAY FIRST GROUP CO., LTD.

72: DU, Xiaowei, ZHANG, Qiang, GONG, Xin, DU, Youxiu, NIU, Chao, YIN, Peng, YANG, Jie, ZHANG, Sujie, GE, Zhengdong, WANG, Jiandong 33: CN 31: 2023104430898 32: 2023-04-23 54: A MUD PUMPING TRANSPORTATION SYSTEM AND A METHOD 00: -

The present invention discloses a mud pumping transportation system and method, belongs to the technical field of civil engineering construction. The system comprises a clean water pump, a clean water main pipe, a flange buckle, a clean water branch pipe, a mud pump, a mud pit, a mud branch

pipe, a mud main pipe and a reservoir; wherein, one end of the clean water pump extends into the reservoir, the other end is connected to the clean water main pipe, and the clean water main pipe is connected to one end of the clean water branch pipe through the flange buckle, and the other end of the clean water branch pipe extends into the mud pit, and the mud pit is internally provided with a mud pump, and the mud pump is connected to one end of the mud branch pipe, and the other end of the mud branch pipe is connected to one end of the mud main pipe through the flange buckle; By arranging a mud pump, the present invention can achieve remote earthwork pumping during earthwork excavation, avoiding the influences on the construction process due to earth quality in the process of earth excavation and construction of the foundation pit in construction engineering.



21: 2023/07093. 22: 2023/07/14. 43: 2024/01/24 51: G06Q

71: COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD.

#### 72: ZHANG, Kai, ZHAN, Haolin, LIU, Peng 33: CN 31: 202310739650.7 32: 2023-06-21 54: INTERACTIVE VISUALIZATION BUILDING METHOD FOR RULE ENGINE AND COMPUTER-READABLE MEDIUM

00: -

The embodiment of the invention discloses an interactive visualization building method for rule engine and computer-readable medium; the building method including the following steps: construct the metadata structure of the rule engine table; construct the one-to-one corresponding reversible mapping relationship between rule engine tables and SQL statements; construct the one-to-one reversible mapping relationship between the rule engine table and CQL statements; utilize the constructed rule engine table as a bridge to interactively configure SQL statements and CQL statements through the visual interface of the rule engine front end.The construction method is based on the fact that table data can be analyzed more conveniently and effectively, and it also provides a foundation for interactive configuration on the web. The interactive configuration allows business personnel selecting fields from a set of fields within the table by checking them, and the displayed field set can be controlled based on permissions. This method has beneficial technical effects such as simplifying operation, standardizing code format, and flexibly controlling permissions.

#### 21: 2023/07120. 22: 2023/07/14. 43: 2024/01/30 51: C07C 71: LUMMUS TECHNOLOGY LLC 72: BARIAS, Rosette, SCOTT, Michael Jon 33: US 31: 63/149,118 32: 2021-02-12

#### 54: ETHERIFICATION OF HIGH CONCENTRATION C5 ISO-OLEFINS VIA CATALYTIC DISTILLATION 00: -

Systems and processes for the efficient conversion of high concentration isoolefin streams to tertiary alkyl ethers are disclosed. The systems and processes may include a feed system to advantageously divide the high concentration isoolefin feed to multiple fixed bed reactors and a catalytic distillation reactor to control the reaction exotherm and achieve a high isoolefin conversion.



21: 2023/07133. 22: 2023/07/17. 43: 2024/01/24 51: C04B

71: CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD., GUANGZHOU METRO DESIGN & RESEARCH INSTITUTE CO., LTD., EAST CHINA JIAOTONG UNIVERSITY, YICHUN UNIVERSITY 72: Jiehua CHEN, Chenliang WEI, Shaohong CHEN, Chao LIN, Hui LI, Yuesheng YE, Yanmei RUAN, Chen LIU, Xujie LI, Xiaolong ZHU, Ying CHEN, Daxin GENG, Qianhou LU, Yang YU, Wenbo LI, Song GAO, Li RAO 33: CN 31: 2023106834716 32: 2023-06-09

## 54: A CEMENT-BASED MATERIAL FOR GROUTING BEHIND A SHIELD WALL AND ITS PREPARATION METHOD

The present invention discloses a cement-based material for grouting behind a shield wall and its preparation method. A cement-based material for grouting behind a shield wall, comprising the following raw materials in parts by masssulphoaluminate cement: 60-70 parts, silicate cement: 10-15 parts, high-alumina cement: 8-15 parts, admixture: 17-25 parts, water: 38-45 parts; the admixture comprises the following raw materials in parts by mass-fly ash: 10-15 parts, mineral powder: 8-12 parts, silica fume: 3-5 parts, water reducer: 0.7-1.2 parts; set retarder: 0.1-0.15 part; set accelerator: 0.07-0.12 part, defoamer: 0.005-0.01 part, plastic expander: 0.005-0.01 part. A method for preparing cement-based material for grouting behind a shield wall, comprising: weighing sulphoaluminate cement, silicate cement and high-alumina cement, and mixing them evenly to prepare a cementing material; weighing fly ash, mineral powder, silica fume, water reducer, set retarder, set accelerator, defoamer and plastic expander, and mixing them evenly to prepare an admixture; mixing the cementing material and the admixture evenly, weighing water, adding all these into a stirrer, and stirring to prepare a cement-based material for grouting behind a shield wall.

21: 2023/07134. 22: 2023/07/17. 43: 2024/01/24 51: E21B

71: CHINA CONSTRUCTION FIFTH ENGINEERING BUREAU CO., LTD. 72: ZHOU, Qingfeng, LI, Daqiang, SUN, San, ZHAO, Zheng, LIU, Jian, ZHENG, Wei, YUAN, Peng'an, ZHU, Jia, LIU, Ying, ZHANG, Heng 54: A METHOD, A SYSTEM AND A DEVICE FOR MONITORING THE DEFORMATION OF AN UNDERGROUND WORK UNDER COMPLEX GEOLOGICAL CONDITIONS 00: -

The present invention discloses a method, a system and equipment for monitoring the deformation of underground works under complex geological conditions, and belongs to the technical field of civil engineering. The method includes: Dividing the construction site into a plurality of construction areas; Placing sensors in different construction areas separately for detecting underground deformation; Collecting the detection data for underground deformation in different construction areas and generating a sensor detection data set; Fitting the detection data according to the principle of the least squared error by using the least square method based on the detection data set of the sensor; Calculating the three-dimensional coordinates of the current underground work according to the fitted detection data in combination with the horizontal and vertical information of the underground work in the BIM database. The present invention can comprehensively reflect the deformations in a visual manner, ensure the safety of the underground works under complex geological conditions, and make sure the underground work is completed effectively with a high gulaity.



21: 2023/07135. 22: 2023/07/17. 43: 2024/01/24 51: E04G

71: CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD., CHINA RAILWAY TUNNEL STOCK CO., LTD., GUANGZHOU METRO GROUP CO., LTD. 72: Hui LI, Chenliang WEI, Xianpeng LI, Along WANG, Xujie LI, Guangsheng LIANG, Ruisheng MA, Lian ZHUANG, Jiehua CHEN, Wanzhou ZHANG, Zhihao LOU, Enlei LI

# 54: A WALL BRUSH FOR DIAPHRAGM WALL JOINTS

#### 00: -

The present utility model relates to the technical field of diaphragm wall construction; more specifically, it relates to a wall brush for diaphragm wall joints. A wall brush for diaphragm wall joints, comprising a wall brush body, a steel-wire brush and a steel bit, wherein the steel-wire brush is arranged on a side of the wall brush body, and the steel bit is arranged on a side of the wall brush body, and the extending direction of the steel-wire brush is perpendicular to the extending direction of the steel bit, and a slag receiving hopper is arranged in the wall brush body. The present utility model addresses the quality problem in cleaning and brushing I-beam joints, reduces the process switches and saves the wall painting time, thereby improving the construction efficiency and achieving good economic and technical benefits.



21: 2023/07136. 22: 2023/07/17. 43: 2024/01/24 51: B65F

71: SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES, MODERN AGRICULTURE RESEARCH CENTER OF YELLOW RIVER DELTA IN DONGYING, INSTITUTE OF MODERN AGRICULTURAL ON YELLOW RIVER DELTA, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES 72: WANG, Shaowei, LI, Wei, ZHANG, Dexue, REN, Dongmei, YANG, Huawei, JIA, Xi, WANG, Shucheng, WANG, Lu, LIU, Xuefeng, ZHANG, Bo, QU, Huixing 54: BRANCH GATHERING APPARATUS AND

#### 54: BRANCH GATHERING APPARATUS AND GATHERING MACHINE 00: -

The present disclosure belongs to the technical field of agricultural and forestry machineries, and in particular, to a branch gathering apparatus and a gathering machine. The apparatus includes two mechanical arms. One end of each of the two mechanical arms is connected to a same fixing element in a length direction, and the other end is connected to a support plate. A vertically placed drive motor is mounted on the support plate. An output shaft of the drive motor passes through the

support plate and is connected to a fixing disk at a bottom of the support plate. A plurality of sweeping strips are uniformly connected to the fixing disk in a circumferential direction. An intersection angle between an axis of each of the sweeping strips and an axis of the output shaft of the drive motor is an acute angle.



21: 2023/07137. 22: 2023/07/17. 43: 2024/01/24 51: F16L

71: CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD., CHINA RAILWAY TUNNEL STOCK CO., LTD., GUANGZHOU METRO GROUP CO., LTD. 72: Xianpeng LI, Along WANG, Xiangwei QI, Ruisheng MA, Guangsheng LIANG, Shaohong CHEN, Wanzhou ZHANG, Enlei LI, Zhihao LOU, Qiang ZHANG, Weixing XING, Fengli DONG 54: A PIPELINE RECEIVING DEVICE 00: -

The present utility model discloses a pipeline receiving device, which comprises a fixing bracket, a steel pipe, a cylinder and a winch, wherein: the steel pipe is fixed on the fixing bracket; the cylinder is sleeved outside the steel pipe and can rotate relative to the steel pipe; the winch is sleeved outside the cylinder; the two ends of the steel pipe are correspondingly provided with an input port and an output port; the input port and the output port are correspondingly connected with an input pipe and an output pipe; the output port of the steel pipe is connected with a rotary joint; the rotary joint is connected with the output pipe; the output pipe can be wound around the cylinder. In the present utility model, the steel pipe is fixed on the fixing bracket, and the two ends of the steel pipe are correspondingly provided with an input port and an output port, and the cylinder is sleeved outside the

steel pipe and can rotate relative to the steel pipe, so that the cylinder can be rotated by the winch and the output pipe can be wound around the cylinder to conveniently receive and stretch the output pipe, which is conducive to improving construction efficiency and reducing the probability of damage to the output pipe.



#### 21: 2023/07138. 22: 2023/07/17. 43: 2024/01/24 51: E02D

71: CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD., CHINA RAILWAY TUNNEL STOCK CO., LTD., GUANGZHOU METRO GROUP CO., LTD. 72: Xujie LI, Xianpeng LI, Along WANG, Hongxia GUO, Enlei LI, Qiang ZHANG, Ruisheng MA, Guangsheng LIANG, Dang TAN, Qingdian YUAN 54: STEEL PLATE WATERSTOP CONNECTING MEMBER

00: -

The present utility model discloses a steel plate waterstop connecting member comprising a connecting component and a waterstopping filler; wherein the connecting component is arranged at the joint between two adjacent steel plate waterstops, and comprises a sealant wrapped on one end of any steel plate waterstop at the joint, and a plurality of fixing pieces for fixing the sealant on any steel plate waterstop; and wherein the waterstopping filler is filled in the gap between the sealants. A steel plate waterstop connecting member of the present utility model, wherein the

sealant at the joint between two adjacent steel plate waterstops can be re-compacted when waterproof concrete is poured, so that when the joint meets water, the water leakage passage can be sealed off through the waterstopping filler to ensure that the tunnel construction seam is leakage-free, thus improving the joint and waterproofness of the steel plate waterstops and further thereby improving construction quality and efficiency.



21: 2023/07140. 22: 2023/07/17. 43: 2024/01/24 51: A01G

71: SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES, MODERN AGRICULTURE RESEARCH CENTER OF YELLOW RIVER DELTA IN DONGYING, INSTITUTE OF MODERN AGRICULTURAL ON YELLOW RIVER DELTA, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES 72: LIU, Xuefeng, MIN, Lingqiang, SUN, Shenggang, ZHANG, Cuiying, QIAO, Lei, QIN, Xitian, WANG, Shaowei, JIA, Xi, YANG, Huawei, WANG, Lu, WANG, Shucheng

## 54: FRUIT TREE PRUNING SYSTEM BASED ON HYDRAULIC CONTROL

00: -

Disclosed is a fruit tree pruning system based on hydraulic control, which solves the problems of rapid temperature rise and low production efficiency of the system in the related art, and has the effects of easy and flexible operation and improved pruning efficiency. The technical solutions thereof are as follows. The fruit tree pruning system based on hydraulic control includes a hydraulic system and a pruning device, where the hydraulic system includes a power unit, an execution unit, and a control unit. The power unit is configured to provide a hydraulic oil source and convert mechanical energy of a power output device into hydraulic energy, the execution unit includes motors and a plurality of hydraulic cylinders, and the control unit includes a monostable valve and a solenoid multiway valve. The monostable valve divides hydraulic oil injected by the power unit into a constant flow oil circuit and a flow dividing oil circuit, the constant flow oil circuit provides an oil source for the hydraulic cylinders and controls operating directions and pressure of each hydraulic cylinder by the solenoid multiway valve, and the flow dividing oil circuit performs unidirectional rotation operation and overload protection control on motors by the solenoid multiway valve. The pruning device is controlled by the execution unit to perform pruning operations.



#### 21: 2023/07170. 22: 2023/07/18. 43: 2024/01/24 51: F42B

71: Xi'an Technological University, Xi'an Institute of Electromechanical Information Technology
72: LI, Hai, ZHENG, Chenhao, ZHAO, Pingwei, CAI, Rongli, YANG, Xiaodong, LIU, Xuejun
54: DEVICE AND METHOD FOR TESTING
EXTERIOR BALLISTIC PARAMETERS OF
WEAPON PROJECTILE ON THE BASIS OF LIGHT
CURTAIN ARRAY

#### 00: -

Disclosed is a device and method for testing exterior ballistic parameters of a weapon projectile on the basis of a light curtain array, which relates to the field of testing of exterior ballistics of artillery shells. The device includes a light curtain array detector, an upper computer signal processing and control device and a photoelectric signal acquisition device. The present invention uses the non-contact photoelectric testing principle, and can accurately test the exterior ballistic parameters of the projectile after being fired by a multi-light curtain array way, and display and broadcast test results on the occasion of testing the exterior ballistic parameters of weapons, which enriches functions of traditional test apparatuses, and the present invention has the advantages of high test precision, simple operation, strong realtime performance, etc.



21: 2023/07176. 22: 2023/07/18. 43: 2024/01/24 51: B25H

71: CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD., GUANGZHOU METRO GROUP CO., LTD., CHINA RAILWAY TUNNEL STOCK CO., LTD., ERCHU CO., LTD. OF CHINA RAILWAY TUNNEL GROUP 72: Hui LI, Chenliang WEI, Yuesheng YE, Along WANG, Guangsheng LIANG, Jiehua CHEN, Jiandang CHEN, Ming HE, Hongxia GUO, Lie HE, Baofeng ZHAO, Ying CHEN, Chen LIU, Xinbo WANG, Chao LIN

#### 33: CN 31: 2022113099876 32: 2022-10-25 54: A NOVEL REFERENCE LINE SCRIBING DEVICE AND METHOD FOR RAIL INSTALLATION 00: -

The present invention relates to the technical field of a scribing device, more specifically, to a novel reference line scribing device and method for rail installation. A novel reference line scribing device for rail installation, comprising a mounting plate fixed on a large disk of a beveling machine, wherein a waist groove penetrates through the outer wall of the mounting plate, and a pipe body penetrates through the waist groove; the outer wall of the pipe body is threadedly connected with fixing pieces; the fixing pieces are distributed on the two sides of the mounting plate; a movable block is slidably connected in the pipe body, and an elastic piece is arranged on the movable block, and an alloy scribing cutter head for scribing the surface of the steel pipeline is arranged below the movable block. In the use of a novel reference line scribing device for rail installation patented by the present invention, start the rotation of the large disk of the beveling machine, so that a circular reference line parallel to the end face of the bevel can be scribed on the surface of the steel pipeline with the alloy scribing cutter head. Because the propulsion on the alloy scribing cutter head from the first spring is relatively stable, the consistency of the depth of the reference line can be ensured, so that the scribing is clear and not discontinuous, showing a good result.



21: 2023/07177. 22: 2023/07/18. 43: 2024/01/24 51: B28B

71: CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD., GUANGZHOU METRO GROUP CO., LTD., CHINA RAILWAY TUNNEL STOCK CO., LTD. 72: Chenliang WEI, Jiandang CHEN, Lie HE, Hui LI, Hongxia GUO, Xiaochun HE, Along WANG, Yuesheng YE, Jiehua CHEN, Shaohong CHEN, Xiangwei QI, Xianpeng LI, Guixi GUO, Lian

## ZHUANG

#### 33: CN 31: 2022112700540 32: 2022-10-18 54: A DEVICE FOR FIXING A PRE-BURIED CHUTE WITH A SEGMENT MOLD 00: -

The present invention relates to the technical field of building components, and more specifically, to a device for fixing a pre-buried chute with a segment mold. A device for fixing a pre-buried chute with a segment mold, comprising a segment mold and a

pre-buried chute, wherein a positioning bolt is detachably connected to the segment mold, and a waist-shaped hole fitting the positioning bolt is formed on the pre-buried chute, and the positioning bolt movably passes through the waist-shaped hole in the vertical direction, and a nut fits the upper end of the positioning bolt; the nut is movably inserted into the waist-shaped hole in the vertical direction and connected and fixed with the positioning bolt. With a simple structure and convenient operation, the present invention facilitates the fixation of the pre-buried chute through the mutual fitting among the positioning bolt, the waist-shaped hole and the self-releasing nylon nut. In addition, because the positioning bolt is anchored on the pre-buried chute, the pre-buried chute can be quickly disconnected from the positioning bolt in demolding, so that demolding is fast and the working efficiency is high. With a simple structure, the present invention makes it convenient for fixing the pre-buried chute and for demolding, leading to a good result.



- 21: 2023/07179. 22: 2023/07/18. 43: 2024/01/29 51: C08B
- 71: MONDI AG

72: OLKKONEN, Tina, SCHWAIGER, Elisabeth, STEINDL, Roman

33: AT 31: A51141/2020 32: 2020-12-23

# 54: METHOD FOR PRODUCING DERIVATISED STARCH

00: -

The invention relates to a method for producing high-purity derivatised starch which can be used in the manufacture of paper and cardboard, in which method a starch raw material is subjected to at least the following steps: purification, slurrying, derivatisation, gelatinisation, and pH adjustment, wherein a slurry of derivatised starch obtained after the slurrying and derivatisation method steps carried out in any sequence is subjected to purification, preferably at an alkaline pH, and the purified and gelatinised derivatised starch obtained after gelatinisation is mixed at least once with dilute acid. The invention also relates to the use of said derivatised starch.



21: 2023/07231. 22: 2023/07/19. 43: 2024/02/05 51: A61K; A61P

71: UNICHEM LABORATORIES LTD

72: IYAPPAN, Sarvanakumar, PAWAR, Dilip, SATHE, Dhananjay

### 33: IN 31: 202121000832 32: 2021-01-07 54: LECTIN PROTEIN FOR TREATMENT AND PREVENTION OF NEURODEGENERATIVE DISEASES

00: -

The present invention relates to the lectin protein for the treatment and prevention of neurodegenerative diseases. The invention further relates to the recombinant lectin protein is derived from Sclerotium rolfsii lectin having sequence 60% homologous to SEQ ID NO: 4 for the treatment and prevention of Neurodegenerative diseases. The invention specifically relates to: lectin protein and its variants is derived from Sclerotium rolfsii lectin, having sequence 60% homologous to SEQ ID NO: 4 for the treatment of prevention of Parkinson's disease, Alzheimer's disease, Dementia and symptoms of dementia.

21: 2023/07235. 22: 2023/07/19. 43: 2024/02/23 51: G06F; H02J; G06Q

71: ZHEJIANG ZHENENG ENERGY SERVICE CO., LTD

72: YANG, Hua, ZHANG, Chengyu, SUN, Chengfu, XU, Erfeng, ZHOU, Chong

33: CN 31: 202310100600.4 32: 2023-02-13 54: OPTIMIZATION REGULATION METHOD AND SYSTEM FOR VIRTUAL POWER PLANT 00: -

The present invention provides an optimization regulation method and system for a virtual power plant. The regulation method includes specific steps as follows: obtaining, by a power plant information

obtaining module, power consumption information generated by a storage system for a virtual power plant, transmitting the power consumption information to a power plant data analysis module, and analyzing, by the power plant data analysis module, the power consumption information to obtain stored power consumption data; transmitting the stored power consumption data to a power statistics module, and performing statistics by the power statistics module based on the stored power consumption data to obtain power consumption reference data of a battery; and transmitting the power consumption reference data of the battery to the power plant data analysis module for analyzing the battery to determine a usage of the battery. According to the present invention, the power consumption information generated by the storage system for the virtual power plant is obtained and analyzed to obtain the power consumption data, calculation and analysis are performed according to the past power consumption data, normal and abnormal information of the obtained data is determined, and power consumption adjustment is performed according to power changes or an alarm is given by a power alarm module for timely maintenance.



21: 2023/07236. 22: 2023/07/19. 43: 2024/01/30 51: G02C

71: AQUAMAX VISION CORPORATION 72: LAN, Chia-Hung, HUANG, Yi-Fang 33: ROC 31: 110105144 32: 2021-02-09 33: ROC 31: 110140815 32: 2021-11-02 54: INTELLIGENT MULTIFOCAL TORIC LENS 00: -

An intelligent multifocal lens includes an optical zone. The optical zone includes a near vision zone, a transition vision zone, and a far vision zone surrounding the near vision zone and the transition vision zone. An add power of the near vision zone has a negative correlation with a radius of the near vision zone. A reduction of the power of the transition zone is in a range of 0.1D to 0.6D. The near vision zone and the transition vision zone have an interface therebetween, and a power of the near vision zone and a power of the transition vision zone at the interface therebetween are the same. The transition vision zone and the far vision zone have an interface therebetween, and a power of the transition vision zone and a power of the far vision zone at the interface therebetween are the same.



21: 2023/07286. 22: 2023/07/21. 43: 2024/01/30 51: H02B

71: SUNGROW ENERGY STORAGE TECHNOLOGY CO., LTD. 72: SHI, Xiang, HUANG, Shuqiang 33: CN 31: 202222241717.8 32: 2022-08-24 54: HOUSEHOLD ENERGY STORAGE SYSTEM AND MODULE FIXING STRUCTURE THEREOF 00: -

A household energy storage system and a module fixing structure thereof are provided. The module fixing structure of the household energy storage system includes multiple modules and at least one first fixing member. The modules are stacked in at least one stacking direction; the first fixing member is configured to stretch across M modules in a stacking direction in which N modules are stacked, and only two ends of the first fixing member are fixed to two of the modules, respectively; N and M each is a positive integer, N is greater than or equal to 3 and M is less than or equal to N-2. In the above module fixing structure, only two modules of the stacked N modules are fixedly connected to the same first fixing member, and the M modules are not fixedly connected to the first fixing member, which reduces

the number of fixed connections. Accordingly, the first fixing member stretches across the M modules in the stacking direction in which N modules are stacked, which reduces the number of the first fixing member and reducing the number of fixed connections. Therefore, with the above module fixing structure, the convenience of installation and maintenance is improved.



21: 2023/07289. 22: 2023/07/21. 43: 2024/01/30 51: A62C; B01D; H01M; H02B 71: SUNGROW ENERGY STORAGE TECHNOLOGY CO., LTD. 72: JI, Kepeng, HUANG, Shuqiang, SU, Jinguo 33: CN 31: 202320644845.9 32: 2023-03-28 54: STACKED POWER SUPPLY MODULES 00: -

A stacked power supply modules is provided. At least two power supply modules are stacked, and two adjacent power supply modules are limited and/or fixed in at least one direction through a corresponding first structural member. Furthermore, the power supply modules are limited and fixed in three directions by the first structural member together with a second structural member, thereby enabling the locking of the stacked power supply modules in the three directions after the installation and avoiding displacement after the installation.



21: 2023/07327. 22: 2023/07/24. 43: 2024/01/31 51: A01N; A01P

71: NANTONG JIANGSHAN AGROCHEMICAL & CHEMICALS CO., LTD

72: DONG, Lei, DU, Hui, ZHU, Yanmei, FAN, Meiyun

33: CN 31: 202110714814.1 32: 2021-06-26 54: HERBICIDAL COMPOSITION, AND PREPARATION AND USE THEREOF 00: -

The present invention relates to the technical field of pesticides, and particularly relates to a herbicidal composition, and a preparation and the use thereof. A herbicidal composition, comprising a component A and a component B, wherein the component A is ethyl 3-(2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydropyrimidine-1 (2H)-yl)phenyl)-5-methyl-4,5-dihydroisoxazole-5-carboxylate; the component B is selected from at least one of acetochlor, butachlor, metolachlor, dimethenamid, mesotrione, nicosulfuron, atrazine, terbuthylazine, metribuzin, S-metolachlor and dimethenamid-P; and the weight ratio of the component B is 1 : (1-80).

According to the present invention, by means of screening and optimizing the types and contents of an emulsifier, a solvent, etc., an emulsion in water prepared from the herbicidal composition is stable in terms of quality, has good performance, and is more conducive to exerting the pesticide efficacy; and the phenomena of layering, flocculation, coalescence, demulsification, etc. of the emulsion in water stored at different temperatures are avoided, such that the storage stability of the emulsion in water is greatly improved. The herbicidal composition of the present application is suitable for pre-emergence soil treatment of crops in dry farmland.

21: 2023/07328. 22: 2023/07/24. 43: 2024/02/20 51: C02F

- 71: BGRIMM TECHNOLOGY GROUP
- 72: CHEN, Guoqiang, YANG, Xiaosong

33: CN 31: 202310347330.7 32: 2023-04-03 54: HIGH-SALT MEMBRANE CONCENTRATED WATER TREATMENT METHOD AND HIGH-SALT MEMBRANE CONCENTRATED WATER TREATMENT APPARATUS 00: -

The present invention provides a high-salt membrane concentrated water treatment method and a high-salt membrane concentrated water treatment apparatus. The high-salt membrane concentrated water treatment method provided by the present invention includes: adding a softener into high-salt membrane concentrated water to preliminarily soften the high-salt membrane concentrated water; deeply softening the preliminarily softened high-salt membrane concentrated water with an ion exchange method; treating the deeply softened high-salt membrane concentrated water with a bipolar membrane electrodialysis method to obtain hydrochloric acid, sodium hydroxide and saline water containing sodium sulfate; concentrating the saline water; and treating the concentrated saline water with a bipolar membrane to obtain sulfuric acid and sodium hydroxide.



21: 2023/07329. 22: 2023/07/24. 43: 2024/01/30 51: F17C

71: ZHEJIANG OCEAN UNIVERSITY 72: Huimin YU, Jiazheng WANG, Chuanjiang LI, Rui ZHANG

## 33: CN 31: 202210463297.X 32: 2022-04-27 54: EFFICIENT FILLING DEVICE FOR LNG CARRIER

00: -

The present invention relates to the technical field of LNG filling device, in particular to an efficient filling device for an LNG carrier, which comprises a filling head and a transport pipe, wherein the filling head is provided with an environmental detection mechanism, a locking mechanism, a transmission assembly and an automatic separation mechanism, wherein the locking mechanism comprises a push ring and a plurality of support arms, and the automatic separation mechanism comprises a support seat, a driving block, a rotary driving motor, a first connector and a second connector. In the application, the filling head is fixed by the locking mechanism, the transportation status of liquefied natural gas is detected in real time by the environmental detection mechanism, the driving block is driven to move by the rotary driving motor of the automatic separation mechanism, and the driving block will drive the second connector, so that the second connector and the first connector are far away from each other, so that the valve cores cannot be butted together: the two valve cores respectively block the interiors of the first connector and the second connector, thus playing a role in

protecting the device and avoiding the occurrence of safety accidents.



21: 2023/07350. 22: 2023/07/25. 43: 2024/01/30 51: C12Q

71: THE SECOND XIANGYA HOSPITAL OF CENTRAL SOUTH UNIVERSITY
72: MA, Jin'an, LIU, Ping, XIONG, Hui, MA, Yiran, YAN, Miao, QIU, Zhenhua, XIANG, Xiaokang, ZHOU, Chunxiang, LEI, Mingsheng
33: CN 31: 2022111739083 32: 2022-09-26
54: METHOD FOR EXTRACTING NUCLEIC ACID AND DETECTING GENE

#### 00: -

The present invention relates to the technical field of a method for extracting nucleic acid and detecting gene in vitro. The present invention provides a convenient and fast sampling method for the gene detection of non-small cell lung cancer patients. The method uses a disposable sampling part, for example, a needle for tissue biopsy and the tissue has been removed, but DNA from the broken cells during biopsy still attached to the needle. The average DNA concentration extracted by the present invention is above the detection limit. The results of this method can be obtained about 15 days earlier than that of the gene detection from pathological tissues, and 7 days earlier than that of the next generation sequencing (NGS) gene detection from blood samples.



21: 2023/07375. 22: 2023/07/25. 43: 2024/01/31 51: A61K; A61P 71: SINOVAC BIOTECH CO., LTD. 72: LI, Yajing, SHEN, Huan, YIN, Yanhui, JI, Wei, SONG, Meng, GAO, Qiang, YIN, Weidong 54: COMBINED VACCINE FOR PREVENTING HAND, FOOT AND MOUTH DISEASE, PREPARATION METHOD THEREFOR AND USE THEREOF 00: -

Disclosed is a combination vaccine for preventing HFMD, comprising inactivated Enterovirus type 71, and inactivated Coxsackievirus A group type 16, type 10 and type 6. Also disclosed is the method for the preparation of the combination vaccine. The adsorption effect and stability of the prepared vaccine are good. The above antigens do not interfere with each other's antigenicity and immune effect after immunizing the subject, and have good immunogenicity and safety. The application of the combination vaccine can significantly simplify the vaccination process, improve vaccination efficiency and reduce costs.

- 21: 2023/07411. 22: 2023/07/26. 43: 2024/01/29
- 51: C12Q

71: Yunnan Agricultural University 72: Zhongxiang, Sun, Zhihui, Lu, Furong, Gui, Yaping, Chen, Pengfei, Fu, Donggui, Li, Hao, Li 33: CN 31: 2023101109867 32: 2023-02-14 54: METHOD FOR IDENTIFYING EMAMECTIN BENZOATE RESISTANCE GENE IN SPODOPTERA FRUGIPERDA, AND APPLICATION OF DSRNA

00: -

The present invention provides a method for identifying a emamectin benzoate resistance gene in spodoptera frugiperda, a dsRNA and an application thereof, which belong to the technical field of molecular biology. The key resistance genes aiming at the emamectin benzoate in the spodoptera frugiperda are identified in combination with genome re-sequencing and transcriptome sequencing, dsRNA is designed based on the mRNA conserved sequences of the key resistance genes GSTD 6 and CTP 6A18, the drug resistance of the spodoptera frugiperda to the emamectinbenzoate can be effectively reduced through the RNAi technology, the effective grasslandspodoptera frugiperda resistance treatment strategy is developed to delay the generation of resistance, and the new target for identifying pest control has important practical significance.



21: 2023/07412. 22: 2023/07/26. 43: 2024/01/29 51: A01N

71: Yunnan Agricultural University

72: Zhongxiang, Sun, Ruixin, Ma, Furong, Gui, Yaping, Chen, Yao, Chen, Donggui, Li
33: CN 31: 2023102067522 32: 2023-03-07
54: METHOD OF REPELLING TUTA ABSOLUTA BY USING ROSEMARY

00: -

The present invention relates to the technical field of agricultural biology, and provides a method of repelling Tuta absoluta by using rosemary. According to the method of repelling the pest and Tuta absolutas invading the tomatoes, the rosmarinus officinalis and the tomatoes are planted in an intercropping mode to repel the invasion of the Tuta absolutas, biological preventionand control of the Tuta absolutas are achieved through rosemary, effective repelling of the Tuta 14 absolutas invading the pests in the tomatoes can be achieved, the use of chemical drugs in the tomato growth process is effectively reduced, and the method is environmentally friendly.



#### 21: 2023/07443. 22: 2023/07/26. 43: 2024/02/23 51: B23K

71: EIGHTH ENGINEERING COMPANY LTD.OF CHINA RAILWAY FIRST GROUP, CHINA RAILWAY FIRST GROUP CO., LTD., CHINA RAILWAY FIRST GROUP BRIDGE ENGINEERING CO., LTD. 72: ZHUO, Lei, XUAN, Xinpeng, CHENG, Xiangyang, SHI, Zhongpan, BI, Zhanglong, LI, Chunlin, TAO, Qianqian, AN, Huan, ZHAO, Zexu, HAO, Linjie, TIAN, Kaikai 33: CN 31: 202310797896X 32: 2023-06-30

## 54: A MANUFACTURING PROCESS FOR A STEEL ARCH SHELL BY JIG FRAME PROCESSING

00: -

The present invention discloses a manufacturing process for a steel arch shell by jig frame processing, and the steel arch shell, connected to a level bridge, comprises: an arch rib middle part and four side longitudinal beam ends, wherein, the arch rib middle part has a hollowed-out opening from top to bottom, and the four side longitudinal beam ends are respectively connected to the four ends of the bottom opening of the arch rib middle part; said manufacturing process comprises the steps of: manufacturing special-shaped webs for assembling said arch rib middle part, assembling the specialshaped webs on the jig frame, and coating the assembled special-shaped webs; said jig frame comprises: a plurality of upright columns and a plurality of diagonal braces; the plurality of said upright columns are arranged in an array manner, and there are two rows of the plurality of diagonal braces, each row of the diagonal braces is obliquely connected to the top end of the upright columns, and the ends of the diagonal braces of the two rows inclining downwards are arranged correspondingly; and the special-shaped webs are paved on the top surface of the diagonal braces during assembly. The present invention can achieve the technical effect of ensuring the arch rib curvature.



21: 2023/07451. 22: 2023/07/26. 43: 2024/01/29 51: G05D; G08G 71: SPASOVSKI, Goran 72: SPASOVSKI, Goran 33: US 31: 63/143,080 32: 2021-01-29 54: APPARATUS AND METHODS FOR POINT-TO-POINT TRANSPORTATION 00: -

Centrally controlled smart transportation systems (500) can provide point-to-point transportation of people and goods. The systems may be configured to allocate tunnelled routes to individual vehicles. Travel of different vehicles can be coordinated so that vehicles can cross level intersections (325-1, 325-2, 325-3) without stopping and without collisions. A transportation system may include a hierarchical network of controllers that control individual vehicles to maintain allowed positions that have been reserved for the vehicles in traffic streams.



- 21: 2023/07470. 22: 2023/07/27. 43: 2024/02/05 51: A63B
- 71: Taishan University
- 72: LI, Qinsheng

# 54: PHYSICAL EXERCISE PRACTICE RACK 00: -

Disclosed is a physical exercise practice rack, including pedestals, supports and armrests. The supports are fixedly mounted on the upper surfaces of the two pedestals. The armrests are symmetrically arranged on one side of each of the supports. During use of the physical exercise practice rack, by arranging a first turning wheel handle, a gear plate and a rack, when people need to use an apparatus to train core strength and need to adjust the positions of the armrests which are too high or too low, a hinge pin needs to be pulled out first, and then the first turning wheel handle is rotated to drive the gear plate to rotate, and then the gear plate rotates to drive the rack so as to drive the armrests to move. When the armrests move to appropriate positions, the hinge pin is stuck into a limiting hole again to complete adjustment.



- 21: 2023/07473. 22: 2023/07/27. 43: 2024/02/16 51: G06F
- 71: Hangzhou Dianzi University
- 72: Zijie Zhou

33: CN 31: 202310198891.5 32: 2023-03-03 54: METHOD FOR STRUCTURED GENERATION OF MEDICAL IMAGING REPORTS BASED ON VISUAL QUESTION ANSWERING 00: -

The invention discloses a method for structured generation of medical imaging reports based on visual question answering. The steps of the invention are as follows: 1. VQA model design and transformation; 2. "question-state tree" design; 3. automatic extraction of information; 4. structured information integration. Based on visual question answering technology, the invention is aimed at generating medical image diagnosis report, focuses on enhancing the interactivity between questions and models, and designs a series of data structures with the core of "question-state tree" and their transformation algorithms Compared with the traditional medical decision-making model, the

invention reduces the arbitrariness of question organization in the visual question answering technology to a certain extent, and helps the VQA model to obtain more effective information in medical images. The model built using this technology is highly scalable and can complete more comprehensive services at a lower training cost. In practical applications, medical imaging diagnosis reports with complete logic and rich information can be flexibly generated according to different application scenarios.



21: 2023/07476. 22: 2023/07/27. 43: 2024/01/30 51: G06F; G06Q

71: LURIE, WAYNE LESLIE, ROSEVEARE, RYAN EDGAR DENNIS

72: LURIE, WAYNE LESLIE, ROSEVEARE, RYAN EDGAR DENNIS

33: ZA 31: 2022/08607 32: 2022-08-02 54: A DEVICE FOR RECEIVING, STORING AND TRANSFERRING ELECTRONIC TOKENS 00: -

A device is for handling electronic tokens. It has a display, a user interface, a short range communication module, a long range communication module, a memory and a processor. The user can send or receive tokens to or from other devices using the short range module. The memory stores the token data and the device identifier. The processor updates the memory and checks the long range module for a data connection. When there is a connection, the processor sends token update data to servers to update their databases. The update data includes the token and device identifiers.



21: 2023/07541. 22: 2023/07/28. 43: 2024/01/31 51: A23C; A23L; A23P 71: SONJAL 72: TANGUY, Alain 33: FR 31: 2101223 32: 2021-02-09 54: A METHOD FOR THE PREPARATION OF A SAUSAGE MIXTURE COATING GEL INCLUDING HIGH-PRESSURE PROCESSING 00: -

The invention relates to a method for preparing an aqueous coating composition to be applied by coextrusion around a food preparation and contacted with a gelling agent, such as calcium chloride, to form a shell around said food preparation. According to the invention, after mixing at least the water and the alginate of the composition, said mixture is exposed to a high pressure of at least 1400 bar, and preferably at least 1800 bar, for at least 0.1 second.



21: 2023/07567. 22: 2023/07/31. 43: 2024/02/23 51: G06Q

71: CHINA RAILWAY FIRST GROUP CO., LTD, INTELLIGENT & TECHNOLOGY BRANCH OF CHINA RAILWAY FIRST GROUP CO., LTD. 72: WU, Huihuo, LIU, Dan, XU, Jinxiang, YUAN, Yongfeng, DONG, Jingyi, WANG, Xiaolin, QIU, Fengtao, LI, Shaobin, WANG, Yong 33: CN 31: 2023101482299 32: 2023-02-21 54: AN IMAGE RECOGNITION TECHNOLOGY-BASED INTELLIGENT REBAR INVENTORY METHOD AND A SYSTEM 00: -

The present invention discloses an image recognition technology-based intelligent rebar inventory method and a system, relates to the technical field of intelligent rebar inventory. The method comprises the steps of collecting the section images of the rebar and constructing an image data set, preprocessing the image data set through linear gray level enhancement, performing image segmentation on the preprocessed image, recognizing the segmented image based on Faster-RCNN, and weighting the recognition results of the same image to form a final recognition result. By constructing an intelligent rebar inventory algorithm model, the present invention can realize intelligent and effective inventory of rebars, save human power and costs, and improve the inventory efficiency and accuracy.



21: 2023/07617. 22: 2023/08/01. 43: 2024/02/23 51: C01G; H01M 71: ANHUI TIANLI LITHIUM ENERGY CO., LTD 72: ZHANG, Lei, WANG, Xinpeng, HE, Yan, ZHANG, Jian, LI, Li 33: CN 31: 202211293178.0 32: 2022-10-21 54: METHOD FOR PREPARING HIGH-NICKEL CATHODE MATERIAL FOR LITHIUM-ION BATTERIES AND HIGH-NICKEL CATHODE MATERIAL FOR LITHIUM-ION BATTERIES PREPARED THEREFROM 00: -

The present application discloses a method for preparing a high-nickel cathode material for lithiumion batteries and the high-nickel cathode material for lithium-ion batteries prepared therefrom, and specifically relates to the technical field of cathode materials for lithium-ion batteries. The method includes the following steps: (1) mixing a high-nickel ternary cathode material precursor, a lithium salt, a phosphorus-containing additive and a metal oxide additive; (2) loading mixed materials into a saggar, placing the saggar into a high-temperature and highpressure device to conduct sintering, and after sintering, conducting natural cooling; and (3) grinding and sieving cooled materials to obtain the high-nickel cathode material for lithium-ion batteries. The present application has the beneficial effects of obtaining a high-nickel cathode material with a low residual lithium content, a low pH value and a low specific surface area by mixing the high-nickel ternary cathode material precursor, the lithium salt, the phosphorus-containing additive and the metal oxide additive in a specific proportion and conducting low-temperature sintering first and hightemperature sintering second, greatly simplifying process flows and reducing manufacturing costs.



21: 2023/07626. 22: 2023/08/02. 43: 2024/02/09 51: C12N

71: Wuwei Academy of Forestry Sciences 72: Li Qiang, Liu Wei, He Cai, Hu Fang, Ye Fang, Chen Yanhui, Jin Min, Jin Na, Zhang Jun, Zhao Lianxin, Guo Yanlan, Zhang Qinde, Duan Aili, Zhang Tao, Wang Xin, Mou Desheng, Li Dong, Yang Zuokui, Han Dengshan, Dong Cunyuan, Shi Xingyun, Yao Yuanwen, Wang Man 33: CN 31: 2023105255148 32: 2023-05-11

#### 54: BACILLUS ATROPHAEUS WLKYSY-4, BIOLOGICAL BACTERIAL AGENT AND APPLICATION THEREOF 00: -

The invention provides a bacillus atrophaeus WLKYSY-4, a biological bacterial agent, and application thereof. The Bacillus atrophaeus WLKYSY-4 is conserved in the China General Microbiological Culture Collection Center, conservation number: CGMCC No. 26815. The Bacillus atrophaeus WLKYSY-4 of the invention has good control effects on various plant diseases, whether it is preventive control or therapeutic control, and has a very good application prospect in the aspect of biological pesticides.



21: 2023/07635. 22: 2023/08/02. 43: 2024/02/09 51: E04B

71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: MA, Lu, ZHANG, Shujun, ZHU, Xiaoli, YANG, Xiaofan, HUANG, Dongyang, SHANG, Pengbiao, WANG, Shiming, ZHU, Zhongqing, XU, Guiqi, ZHANG, Bo, SU, Mingzhu, TU, Dehang, XIANG, Hua

#### 54: CORROSION-RESISTANT SLOPING ROOF PANEL AND PREPARATION METHOD THEREOF 00: -

The present invention discloses a corrosion-resistant pitched roof panel and a preparation method thereof. In the present invention, as organic bentonite with a

swelling property and NaHPO4 that can be dissociated to obtain hydrogen ions are used, the dispersibility is improved by 2-pentanethiol, an emulsion polymerization reaction of an acrylate emulsion and glycol distearate is promoted, and a uniform and dense internal structure is formed in concrete to improve corrosion resistance of the concrete. Accordingly, the entire prepared pitched roof panel will not be easily corroded during subsequent use, and the durability and the service life of the entire pitched roof panel are increased.



21: 2023/07636. 22: 2023/08/02. 43: 2024/02/09 51: E04B

71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: MA, Lu, ZHANG, Shujun, WANG, Jingsen, WU, Zhijian, WU, Xiaozhi, WANG, Shiming, ZHU, Zhongqing, XU, Guiqi, YAN, Wenxin, WANG, Daliang, GE, Changjiang

#### 54: CONCRETE EXTERIOR WALL INSULATION AND CONSTRUCTION METHOD THEREOF 00: -

The present invention discloses a concrete exterior wall insulation and a construction method thereof. In the present invention, a bisphenol A epoxy resin is added as a main material to the concrete exterior wall insulation slurry that needs to be applied. Moreover, with the cooperation of the modified montmorillonite, the diaminocyclohexylmethane is used for curing, so that the raw materials have excellent dispersion and emulsibility with each other, and the cured slurry has good mechanical properties, excellent water and permeation resistance, good mold resistance and high bonding power. Furthermore, the addition of the glass fiber improves mechanical properties of the whole concrete exterior wall insulation, and the whole concrete exterior wall insulation does not crack easily during subsequent use, thereby improving durability and service life of the whole concrete exterior wall insulation during use.



21: 2023/07637. 22: 2023/08/02. 43: 2024/02/09 51: F24D

71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: MA, Lu, WANG, Jingsen, ZHU, Xiaoli, WU, Xiaozhi, ZHENG, Xi, SHANG, Pengbiao, XU, Guiqi, SONG, Bo, FAN, Jinqi, ZHANG, Bo, FU, Fei, MU, Linlin

### 54: METHOD FOR CONSTRUCTING GROUND FLOOR HEATING WITH GOOD MOISTURE RESISTANCE

00: -

Disclosed is a method for constructing ground floor heating with good moisture resistance. In the

present invention, keel type dry floor heating is simpler than wet floor heating in step, a cement mortar bonding layer and a fine aggregate concrete packed layer are not used, and the usage amount of massive sand and gravels for building are saved, so that a contribution is made to "energy, land, water and material saving and environmental protection". Meanwhile, a specially made moisture-proof coating is smeared to the surface of a keel, so that the made keel will give off a moistureproof and mosquitorepellent smell in a using process. Therefore, the made keel is not easily damaged, so that the integral durability of the ground floor heating is improved and the service life of the ground floor heating is prolonged.

21: 2023/07656. 22: 2023/08/02. 43: 2024/02/09 51: A61L; C01B 71: SYNEXIS LLC 72: LEE, James D., BOSMA, Douglas J., STEPHENS, James Russell 33: US 31: 63/135,355 32: 2021-01-08 54: MICROBIAL CONTROL ON HIGH-TOUCH SURFACES IN HEALTH CARE FACILITIES 00: -

Improved methods for reducing and preventing nosocomial infections is provide comprising installing one or more dry hydrogen peroxide (DHP) generating devices into a healthcare treatment area, producing DHP, and maintaining the concentration between 1.0 parts-per-billion (ppb) and 200 ppb.



21: 2023/07657. 22: 2023/08/02. 43: 2024/02/09 51: C07C; C12M 71: ELECTROCHAEA GMBH

# 72: GEDDADI, Avani Nath, LARDON, Laurent, BASEN, Liam

33: DE 31: 20 2021 100 957.8 32: 2021-02-25 54: HEAT EXCHANGE SYSTEM 00: -

Heat exchange system comprising - a biogas production facility (20) comprising at least a first heat requiring element (22a) and - a power-to-gas plant (30) comprising at least a first cooling requiring element (26a); - a heat storage system (40) comprises a buffer tank (41) to store heat (50), wherein the stored heat (50) comprises at least a first portion of hot stream (52) circulated from within the power-to-gas plant (30) and/or at least a second portion of hot stream (54) circulated from the biogas production facility (20) the heat exchange system further comprising a first return cold stream (56) circulating from the biogas production facility (20) to the heat storage system (40) and a second return cold stream (58) circulating from the heat storage system (30) to the first cooling requiring element (26a), wherein the heat storage system (40) further comprises a heat managing system (42) characterised in that the heat managing system (42) is configured to selectively feed a third portion of hot stream (50a) of the stored heat (50) to the first heat requiring element (22a).



21: 2023/07674. 22: 2023/08/03. 43: 2024/02/09 51: G01R 71: XI'AN HIGH VOLTAGE APPARATUS RESEARCH INSTITUTE CO., LTD. 72: SHEN, Meng, LI, Qiang, LI, Jiang, LIU, Chen, SUN, Hao, LIU, Lei, ZHANG, Chunmin, GOU, Xingping 33: CN 31: 202210929077.1 32: 2022-08-03 54: DC SUPERIMPOSED IMPULSE WITHSTAND VOLTAGE TEST LOOP AND TEST METHOD THEREOF 00: -

The present disclosure discloses a DC superimposed impulse withstand voltage test loop and a test method thereof. The test loop includes: an impulse voltage source, a DC voltage source, a protection device, a measuring device and a multichannel digital measurement instrument; the impulse voltage source includes an impulse voltage generator and a weak-damping capacitive voltage divider, which are disposed in parallel; the DC voltage source includes a DC voltage generator, a filter capacitor and a resistive voltage divider; a protection resistor R<sub>P</sub> includes one end connected to a high-voltage end of the DC voltage source, the other end connected to a high-voltage end of a DC GIS product, and a base grounded; the measurement device includes a universal voltage divider and a multi-channel digital measurement instrument, and the universal voltage divider is connected in parallel with the DC GIS product.



21: 2023/07677. 22: 2023/08/03. 43: 2024/02/27 51: H02G

71: Beijing University Of Technology

72: ZHANG Xiaojun, LI Xiaoshuai, GAO Wenxue, JIANG Xiaoyu, HU Yu, HE Maolin, LI Zhuo, ZHANG Shenghui

### 33: CN 31: 202211234961X 32: 2022-10-10 54: TELESCOPIC CABLE LAYING DEVICE ALONG TUNNEL STEEL ARCH FRAME AND USING METHOD THEREOF

00: -

The invention belongs to the field of tunnel engineering monitor, in particular to a telescopic cable laying device along tunnel steel arch frame and a using method thereof. The upper part of the telescopic bracket is in rolling fit on both sides of the lower flange plate of the steel arch frame through pulley components; the top of the telescopic bracket is symmetrically provided with a first cable bracket assembly and a second cable bracket assembly; the first cable bracket assembly and the second cable bracket assembly are symmetrically located on both sides of the web of the steel arch frame; one ends of the first cable bracket assembly and the second cable bracket assembly are respectively hinged on the top surface of the telescopic bracket; the other ends of the first cable bracket assembly and the second cable bracket assembly are respectively detachably connected with a plurality of cables; the lower part of the telescopic bracket is detachably connected with a traction rope. The application can reduce the operation risk, ensure the laying efficiency of cables and reduce the working difficulty of operators.



21: 2023/07736. 22: 2023/08/07. 43: 2024/02/12 51: A61K

71: Qingdao Baishishankang Biotechnology Co., Ltd. 72: LIN, Ping, LIN, Zixuan

#### 33: CN 31: 202211232516.X 32: 2022-10-10 54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR COORDINATING GASTROINTESTINAL ENVIRONMENT AND TONIFYING QI, BLOOD AND WATER, AND PREPARATION METHOD THEREFOR 00: -

The present invention provide a traditional Chinese medicine composition for coordinating a gastrointestinal environment and tonifying qi, blood and water, and a preparation method therefor. The traditional Chinese medicine composition provided by the present invention takes ginseng, giinvigorating medicine with functions of reinforcing vital energy, promoting production of body fluid and inducing sedation of the mind, invigorating spleen for benefiting lung, and strengthening qi and blood circulation as a sovereign drug, angelica sinensis, arillus longan, donkey-hide gelatin, Polygonatum sibiricum and jujube with functions of enriching blood, nourishing blood and nourishing internal organs as a ministerial drug, cinnamon and dried ginger with a function of increasing temperature of the gastrointestinal environment as adjuvant, and

the seed of Job's tears and tangerine peel with functions of clearing dampness for diuresis and reducing humidity of the gastrointestinal environment as a conductant drug, and compatibility of the whole prescription is reasonable.

21: 2023/07737. 22: 2023/08/07. 43: 2024/02/12 51: C07C

71: Institute of Applied Chemistry, Jiangxi Academy of Sciences

72: HU, Juwu, FU, Jianping, WU, Lei, WU, Jing, XIE, Chuanqi, XIONG, Wei

#### 54: METHOD FOR SEPARATING AND PURIFYING CAFFEOYL QUINIC ACID COMPOUND FROM GUNURA PROCUMBENS FLOWER BY HIGH-SPEED COUNTERCURRENT CHROMATOGRAPHY

00: -

The present invention provides a method for separating and purifying a caffeoyl quinic acid compound from a Gunura procumbens flower by high-speed countercurrent chromatography. The method includes: (1) extracting the Gunura procumbens flower; and (2) performing separating and purifying by high-speed countercurrent chromatography, using a methanol-ethyl acetatewater solution with a volume ratio of 1:1:1-1:5:10 is used as a solvent system, and when a two-phase solvent system reaches equilibrium in a high-speed countercurrent column, dissolving a Gunura procumbens flower extract in the two-phase solvent system; and during high-speed countercurrent chromatographic separation, performing detection by an ultraviolet detector with a wavelength of 200-350 nm, and collecting corresponding peak components according to chromatographic peaks separately, and then performing concentration under reduced pressure and freeze drying to obtain chlorogenic acid, isochlorogenic acid A, isochlorogenic acid B and isochlorogenic acid C.



21: 2023/07765. 22: 2023/08/08. 43: 2024/02/09

#### 51: A01G

71: Yunnan Agricultural University

72: Zhongxiang Sun, Furong Gui, Chen Peng, Yaping Chen, Donggui Li, Shuangyan Wang 54: METHOD FOR ATTRACTING AND CONTROLLING TOMATO INVASIVE PEST TUTA ABSOLUTA BY SOLANUM NIGRUM 00: -

The invention discloses a method for attracting and controlling tomato invasion pest Tuta absoluta by solanum nigrum. The method comprises the following steps: using a method of planting black nightshade around tomatoes to trap Tuta absoluta to reduce the damage to tomatoes, determining surrounding planting plants, screening functional plants in the early stage, determining black nightshade as three times of the diameter of the seeds after soaking the solanum nigrum seeds for 5 hours with 30 - degree warm water, then watering and accelerating germination, and raising seedlings to obtain the solanum nigrum seedlings; The method for attracting and controlling tomato invasive pest Tuta absoluta of the present invention uses Solanum nigrum to plant Tuta absoluta around the tomato to trap Tuta absoluta of tomato. By controlling the biological prevention and control of solanum nigrum on Tuta absoluta, not only can the effective attracting and controlling of Tuta absoluta invading the pest in the tomato be realized, but also the use of chemical drugs in the tomato growth process is effectively reduced, and the method is environmentally friendly.



21: 2023/07766. 22: 2023/08/08. 43: 2024/02/09 51: B25B

71: Shenyang University of Technology

72: Jichi Chen, Zijian Jia
# 33: CN 31: 202321870364.6 32: 2023-07-17 54: A PROCESSING CLAMP DEVICE FOR MECHANICAL DESIGN

#### 00: -

The invention provides a processing clamp device for mechanical design, including a processing table. A side measuring plate is fixed on both sides of the top of the processing table, and a scale is fixed on the side of the side measuring plate and on the upper and lower sides of the slide rail. The top of the processing table is symmetrically arranged on both sides of the clamping plate, the top of the clamping plate is fixed with a mounting frame. A number of equidistant electric telescopic rods ii are fixed inside the mounting frame. The second output end of the electric telescopic rod ii is fixed with a clamping block, and the bottom of both sides of the clamping plate is fixed with a sliding rod, and the measuring pointer is fixed on one side of the sliding rod. The invention is used together with a side measuring plate, a sliding rail, a scale, a clamping plate, an electric telescopic rod, a clamping block, a sliding rod and a measuring pointer to clamp an irregular machine. This improves the utility of the clamp device. After the mechanical clamping is completed, the processing personnel can judge the approximate length of the clamping machine by observing the corresponding scale of the measuring pointer. This provides convenience to the processing personnel and improves the machining efficiency.



#### 21: 2023/07784. 22: 2023/08/08. 43: 2024/02/12 51: H04N; G06N

71: LONGSE TECHNOLOGY CO., LTD. 72: QUAN, Shaojun, LIN, Ge, CHEN, Xiaoyan, LIANG, Shaoling 33: CN 31: 202210289901.1 32: 2022-03-23

# 54: VIDEO DATA PROCESSING METHOD AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM

#### 00: -

The present application is applicable to the field of multimedia technology, and provides a video data processing method and apparatus, an electronic device, and a storage medium. The method includes: inputting a target video into a multi-modal feature extraction model in response to a type identification instruction of the target video, and outputting modal features of a plurality of different modalities corresponding to each video image frame in the target video; generating a fusion feature corresponding to each modal feature respectively based on a preset mutual causal relationship between the different modalities; constructing a modal object diagram corresponding to the target video according to fusion features of all video image frames in various modalities, determining an attention feature corresponding to the target video through the modal object diagram, the attention feature fusing the fusion features of the plurality of modalities; determining a video type of the target video based on the attention feature. With the above method, the accuracy of video surveillance is improved, and the labor cost of video surveillance is also reduced.



21: 2023/07785. 22: 2023/08/08. 43: 2024/02/12 51: H04W

# 71: ZTE CORPORATION

72: LIU, Ling, PENG, Jialin, WANG, Wenyi 33: CN 31: 202110225288.2 32: 2021-03-01 54: LOCAL EDGE SHUNTING METHOD AND SYSTEM, AND SHUNTING SERVICE APPARATUS AND BASE STATION 00: -

Embodiments of the present disclosure provide a local edge shunting method and system, and a shunting service apparatus and a base station. The local edge shunting method comprises: a shunting service receiving user plane bearing information sent by a base station, and establishing a shunting user plane instance according to the user plane bearing information; upon reception of an uplink data service message sent by the base station, the shunting service determining whether there is a corresponding shunting user plane instance for the uplink data service message; and if so, matching the uplink data service message with a shunting matching rule, and determining to forward the uplink data service message to a core network or a local server.



21: 2023/07797. 22: 2023/08/08. 43: 2024/02/12 51: C25B

71: ELECTROCHAEA GMBH

72: HAFENBRADL, Doris, ERBEN, Johannes, PATEL, Nitant, RODRIGO, Jose 33: DE 31: 10 2021 106 890.8 32: 2021-03-19 54: MEC SYSTEM

00: -

The present invention provides MEC stack with several or multiple MEC cells comprising at least one gas inlet and at least one degassing element as well as methods to improve the bio-electromethanation reaction catalysed by bio catalysts in these MEC stacks.



21: 2023/07809. 22: 2023/08/10. 43: 2024/02/27 51: C12N; C12P; C12R 71: INSTITUTE OF CHINESE MATERIA MEDICA CHINA ACADEMY OF CHINESE MEDICAL SCIENCES

72: CHEN, Sha, YU, Yuetong

33: CN 31: 202210957619.6 32: 2022-08-10 54: O-METHYLTRANSFERASE PROTEIN WITH HIGHLY SPECIFIC CATALYTIC FUNCTION FOR MULTIPLE BIAS PARENT NUCLEI AND ENCODING GENE AND APPLICATION THEREOF 00: -

The present disclosure provides an Omethyltransferase protein with highly specific catalytic function for multiple BIAS parent nuclei, a coding gene and an application thereof. Compared with wild-type O methyltransferase, the enzyme protein (SEQ ID NO: 2) has improved enzymatic activity and a wider substrate range, and can catalyze three benzylisoquinoline alkaloid skeletons, including monobenzylisoquinolines (norcoclaurine, coclaurine, N-methylcoclaurin), aporphines (asimilobine, N-Methlyasimilobine) and protoberberines (scoulerine,

tetrahydrocolumbamine) to have O-methylation reactions. Meanwhile, each skeleton has a high degree of regioselectivity, can catalyze the methylation of monobenzylisoquinolines at 6-OH and 7-OH, and is only active on the 6-OH of the aporphine skeleton, mainly catalyzing the methylation of proberberines at 2-OH and having strong catalytic activity; therefore, they can be used biocatalysts in the semi-synthesis of related compounds.



21: 2023/07817. 22: 2023/08/10. 43: 2024/02/12 51: A61B

71: Dr. Navaneeth Bhaskar, Dr. Vinayak Bairagi, Dr. Sharad Tukaram Jadhav, Dr. Kaustubh M Gaikwad, Dr. Mousami V. Munot

72: Dr. Navaneeth Bhaskar, Dr. Vinayak Bairagi, Dr. Sharad Tukaram Jadhav, Dr. Kaustubh M Gaikwad, Dr. Mousami V. Munot

#### 54: SENSING SYSTEM, METHOD AND DEVICE FOR NON-INVASIVELY DETECTING CHRONIC KIDNEY DISEASE FROM EXHALED BREATH 00: -

A method is disclosed to detect chronic kidney disease non-invasively from exhaled breath. Breathbased testing can be used as an alternative to blood-based screening for many disorders because exhaled breath contains various disease-revealing components. The salivary urease breaks down the stored urea into ammonia, which is then expelled through breathing. Therefore, it is possible to detect the presence of elevated urea levels in the body by monitoring the breath ammonia concentration. A novel sensing module is designed and implemented to determine the ammonia concentration in the exhaled breath to detect kidney disease. The output of the sensor response is applied to the deep learning hybrid model consisting of a convolutional neural network and SVM algorithm which then classifies the sample to respective classes. The proposed invention provides a quick and reliable non-invasive approach for detecting kidney disease. The findings of this study suggest that ammonia breath testing may be a reliable technique for diagnosing kidney disease. People can get routine checks for kidney disease because the sample extraction procedure is easy and affordable.



- 21: 2023/07821. 22: 2023/08/10. 43: 2024/02/12
- 51: E02D; E04B; E04C
- 71: ANC CAPITAL INC.
- 72: NEILL, Andrew
- 33: US 31: 63/334,167 32: 2022-04-24
- 33: US 31: 63/398,090 32: 2022-08-15
- 33: US 31: 18/127,855 32: 2023-03-29

54: CONCRETE VOID FORM AND METHOD OF MODULAR CONSTRUCTION THEREWITH 00: -

The present specification relates generally to modular construction and more specifically to a sacrificial concrete void form and method of modular construction therewith. The concrete void form includes a steel frame having a top face, a bottom face, and four side faces, wherein at least one of the four side faces and the top face are covered with at least one sheet of corrugated steel decking. The method of modular construction includes constructing at least one concrete void form, the at least one concrete void form comprising a steel frame having a top face, bottom face and four side faces, wherein at least one of the four side faces and the top face are covered with at least one sheet of corrugated steel decking, installing the at least one

concrete void form at a construction site, and pouring concrete over or adjacent to the at least one concrete void form.



21: 2023/07840. 22: 2023/08/11. 43: 2024/02/12 51: F25C; F25D

71: Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences 72: ZHOU, Ping, WANG, Feiteng, ZHANG, Hui, WANG, Fanglong, XU, Chunhai 33: CN 31: 2023106237202 32: 2023-05-30

54: SNOW STORAGE SYSTEM AND METHOD 00: -

The present disclosure provides a snow storage system and method, which relate to the technical field of snow storage. The snow storage system includes a snow storage warehouse, a water storage tank, an air conveying mechanism, a water conveying mechanism and a covering unit. The snow storage warehouse is configured for storing snows; the water storage tank includes a water storage chamber and a ventilation chamber, the snow storage warehouse communicates with the water storage chamber, and the water storage chamber is configured for collecting snow water formed by melting the snows in the snow storage warehouse, and the snow water in the water storage chamber is configured for cooling air that flows in the ventilation chamber. The covering unit is provided with a first chamber with at least one first outlet, at least one ventilation hole, and a second chamber with at least one second outlet, the first chamber communicates with the at least one ventilation hole,

and the first chamber and the second chamber are arranged as stacked. The covering unit is configured for covering a surface of a snowdrift located outside the snow storage warehouse, and the first chamber is close to the snowdrift, the at least one ventilation hole is configured for guiding water vapor formed by evaporation of the snowdrift to the first chamber, the air conveying mechanism communicates with the first chamber, and the water conveying mechanism communicates with the second chamber. The melting speed of the snowdrift is slow, and the snow storage effect is good.



21: 2023/07848. 22: 2023/08/11. 43: 2024/02/20 51: C04B; F27B; F27D 71: CBMI CONSTRUCTION CO., LTD. 72: DENG, Yuhua, ZHANG, Chao, WANG, Qiang, CAO, Xinming, ZHANG, Haiping, SUN, Xuecheng, WANG, Guomin, ZHENG, Xianming 33: CN 31: 202210990114X 32: 2022-08-17 **54: NOVEL CEMENT CLINKER CALCINER** 00: -

A cement clinker calciner is disclosed comprising lower and upper volute portions, and lower and upper calciner bodies. The lower volute portion comprises a lower volute channel and an air inlet. The lower volute channel feeds gas into the lower volute portion via an outlet communicated with a sidewall of the lower volute portion. The lower volute channel is communicated with a first to-be-calcined material inlet and a first fuel inlet. A second to-becalcined material inlet and a second fuel inlet are arranged on the sidewall of the lower volute portion. A contraction portion at the bottom of the upper calciner body has an increasing diameter along a vertical upward direction. An upper side outlet communicated with the upper volute portion is arranged on a side of the upper calciner body. The upper volute portion comprises an upper volute channel having an inlet communicating to the upper side outlet.



21: 2023/07873. 22: 2023/08/14. 43: 2024/02/19 51: C22C

71: CHINA COPPER HUAZHONG COPPER CO., LTD.

72: ZHAO, Zhiyong, ZHAO, Jian, MA, Lingzhi, WANG, Yuming, LIU, Min, PAN, Fei

#### 54: AGING-STRENGTHENED CU-CR-NB-MG ALLOY AND PREPARATION METHOD THEREFOR 00: -

The present invention provides an agingstrengthened Cu-Cr-Nb-Mg alloy, which relates to the technical field of high-performance alloys. The aging-strengthened Cu-Cr-Nb-Mg alloy provided by the present invention includes the following

elemental constituents in percentage by mass: 7-13 percent of Cr, 0.15-1 percent of Nb, 0.03-0.5 percent of Mg, the sum of inevitable impurities is less than 0.2 percent, and the rest is Cu. The agingstrengthened Cu-Cr-Nb-Mg alloy provided by the present invention introduces the trace element Nb, and after aging treatment, a dispersed hightemperature resistant phase is generated, which cooperates with Cr to strengthen a copper matrix; and further, the addition of Mg element can form an intermetallic compound with Cr, which plays the role of multiphase precipitation to strengthen the copper matrix after aging treatment, thus greatly improving hardness of the alloy under a condition of little conductivity loss.



- 21: 2023/07874. 22: 2023/08/14. 43: 2024/02/19
- 51: C05F; C05G
- 71: Moutai Institute

72: ZHENG, Yuxi, LI, Baihan, WU, Ganghong 54: METHOD FOR PREPARING AN ORGANIC FERTILIZER BY USING DISTILLER'S GRAIN WASTE LIQUID AND STRAW 00: -

The present disclosure provides a method for preparing an organic fertilizer by using distiller's grain waste liquid and straw, and belongs to the technical field of waste treatment. The method for preparing an organic fertilizer by using distiller's grain waste liquid and straw comprises: mixing distiller's grain waste liquid, straw and urea, inoculating a microbial agent filamentous fungus Monascus pilosus YX1125, and carrying out aerobic fermentation. In the present disclosure, by

inoculating the filamentous fungus Monascus pilosus YX1125 and adjusting the parameters during aerobic composting fermentation, the toxicity of the distiller's grain waste liquid can be reduced, the organic matter content in the organic fertilizer is reduced, thereby increasing the germination index of seeds and providing a new direction for the subsequent disposal of distiller's grain waste liquid and straw wastes.



21: 2023/07875. 22: 2023/08/14. 43: 2024/02/19 51: G06Q

71: NINGBO JINYU TECHNOLOGY INDUSTRY CO., LTD.

72: HUANG, Guojun, HUANG, Qiwen, HAN, Chongya, ZHOU, Dongmei, LIN, Wanglei, CHENG, Zhixiang, FAN, Bin, ZHOU, Jie, YU, Jianfeng, LIU, Shasha

#### 54: NOVEL DIGITAL FACTORY INTELLIGENT DETECTION INSPECTION SYSTEM 00: -

The present invention discloses a novel digital factory intelligent detection inspection system, including an interactive terminal, a cloud server including a three-dimensional (3D) unit, a graphic server, and an operation unit, as well as a background workstation including a data collection monitoring unit which collects operation data of a target factory; the graphic server, based on the data, uses a 3D visualization modeling technology to perform 3D modeling on the target factory to obtain the digital factory; the 3D unit adaptively adjusts a display angle of the digital factory, so that the inspection personnel perform an inspection in the digital factory in a roaming manner; and the operation unit determines an operation plan, an inspection route, and an inspection task list

according to the data and information about a current workshop before pushing to the interactive terminal in real time.



#### 21: 2023/07876. 22: 2023/08/14. 43: 2024/02/19 51: C04B

71: Chengdu Polytechnic

72: Qiuling Chen, Yuntian Wang, Lin Feng, Yuan Zhou, Chunhong Zhang, Yushu Li, Min Yang 54: A CONSTRUCTION WASTE AND SLAG MICRO-POWDER PREFABRICATED COMPONENT AND A MANUFACTURING METHOD THEREOF

00: -

The invention discloses a construction waste and slag micro-powder prefabricated components, which relates to the technical field of building prefabricated components production, including a prefabricated components body, on which a collecting flume is provided, the collecting flume is arranged in a number of arrays, the bottom of the collecting flume is provided with an mounting groove, the mounting groove runs through the prefabricated component body, and the mounting groove is provided with a drainage structure. After the prefabricated pavement is laid, when encountering rain weather, the rainwater on the pavement first flows into the flow guide groove, then flows into the collecting tank through the flow guide groove, then flows into the filter pipe through the collecting tank, and finally flows into the ground through the filter pipe to achieve drainage. The pavement paved with the prefabricated component can discharge the rainwater falling on the pavement in time when encountering rain weather. It can effectively reduce the water on the road, reduce the splash of rain when stepping on the road, reduce the wet road, and is more conducive to people walking.



21: 2023/07877. 22: 2023/08/14. 43: 2024/02/19 51: A61M

- 71: Shandong Normal University
- 72: Yulin Xie

# 54: INTELLIGENT MONITORING MANAGEMENT REMINDING SYSTEM AND METHOD AFTER THYROIDECTOMY

00: -

The invention discloses an intelligent monitoring management reminding system and method after thyroidectomy, which comprises a medical management terminal and a patient user terminal. The medical management terminal sends reminding messages such as medication on time, reexamination and the like to the patient user terminal through the Internet; the medical management terminal is connected with an electronic medical record (EMR) and a platform cloud server real-time database system through the Internet, and receives the standard medication and reexamination information of the management object fed back by the long-term medical orders and temporary medical orders, and updates the latest medication and reexamination information in time according to the reexamination feedback; the patient user terminal is a mobile phone application program, with the process priority set as the highest, and is connected to the mobile phone audio equipment, and sends a prompting voice on time to remind the patients to take medicine on time, and feeds back the medication reexamination information. the medical management terminal also compares the actual medication and reexamination information fed back by the patient user terminal with the standard medication and reexamination information, and reminds the patient to take medication correctly and reexamine on time by calculating the medication

accuracy rate and the punctuality rate of medication and reexamination. After receiving the reexamination information, the medical management terminal immediately queries the electronic medical record to update the medication reexamination information. The invention will use the information Internet technology to build a postoperative monitoring platform, so as to effectively avoid the adverse effects on postoperative recovery caused by improper medication, such as missed medication, wrong medication, and forgetting reexamination.



21: 2023/07887. 22: 2023/08/14. 43: 2024/02/19 51: G09B 71: SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES 72: GUO, Jiachen, ZHOU, Liang, ZHAO, Wenlong, NANDAL, Amita, DHAKA, Arvind **54: BIONIC PHOTON SKIN** 00: -Disclosed is bionic photon skin, which relates to the field of intelligent sensing. The bionic photon skin includes a gel bionic cortex and an optical fiber micro-nano bionic nerve, where an outer part of the optical fiber micro-nano bionic nerve is wrapped in the gel bionic cortex, and the optical fiber micronano bionic nerve is an optical fiber micro-nano device with an evanescent field region; and when the gel bionic cortex senses external stimuli, mechanical behavior change, mechanical morphologic change or refractive index change is produced, which causes optical parameters of transmitted light in the optical fiber micro-nano bionic nerve to change, so as to determine skin perception

of the external stimuli. The present invention can sense the external stimuli with high sensitivity and further solve the problems of insufficient electromagnetic interference resistance and poor waterproof performance.



21: 2023/07891. 22: 2023/08/14. 43: 2024/02/19 51: G09F

71: Anhui Science And Technology University
72: Zheng yulian, Cheng Bin, Cao Hao, Tong yuke, Chen tao, Chen xuemin, Jiao xuesong
33: CN 31: PCT/CN2023/101951 32: 2023-06-21
54: A DEVICE FOR SHOWCASING GUIDANCE ON INNOVATIVE ENTREPRENEURSHIP
00: -

This invention provides a device for showcasing guidance on innovative entrepreneurship. It consists of a box-shaped structure with two sets of hinged panels at the rear end, positioned opposite each other on one side of the box. The front of the box is equipped with a display panel fixed by bolts. The innovation of this invention lies in the use of an Lshaped bracket that is slidably connected to the upper and lower sides of the front surface of the display panel. On the inner side of the L-shaped bracket, a pressure plate is provided, which can be pulled by a rod and has a spring mechanism for reset, to fix relevant charts and promotional posters related to innovative entrepreneurship. This allows for easy adjustment of the device and enables fixation of different sizes of relevant charts and promotional posters. Additionally, a motor-driven threaded block is used to extend or retract support columns from the box to adjust their height accordingly. The support columns can also be conveniently stored inside the box. Furthermore, the device can be folded and merged by employing hinged panels on both sets of the box, which can be securely locked using threaded rings on the first halfround threaded columns at the top and bottom ends of the two sets of panels.



- 21: 2023/07905. 22: 2023/08/15. 43: 2024/02/19 51: A47B
- 71: Ningbo Tenghao Outdoor Co., Ltd.
- 72: Liang SUN
- 33: CN 31: 202210988588.0 32: 2022-08-17
- **54: FOLDING TABLE** 00: -

A folding table includes: a table top, a plurality of table legs hinged to the table top, a plurality of folding stools detachably fixed to the bottom of the table top, and folding support bars disposed between the table top and the table legs. The folding support bars include first support bars pivotally connected to the table legs and second support bars pivotally connected to the table top; the first support bars are hinged to the second support bars; a clamping part is disposed between each first support bar and each second support bar to position the first support bar and the second support bar when the folding table is in an unfolding state.



- 21: 2023/07906. 22: 2023/08/15. 43: 2024/02/19
- 51: G01N
- 71: Central People's Hospital of Zhanjiang 72: PANG, Lijuan, JIN, Shan, CAI, Wenping, WANG, Jilin, YAO, Yunging
- 33: CN 31: 202222141315.0 32: 2022-08-15

# 54: FIXATOR FOR FREEZING AND SAMPLING LUNG TISSUE

#### 00: -

Disclosed is a fixator for freezing and sampling a lung tissue, including a sampling board, a support frame and a plurality of fixed parts. The support frame is arranged at the top of the sampling board, the plurality of fixed parts all are arranged on the support frame, each of the fixed parts includes a connecting rope and a fixation needle, and one end of the connecting rope is connected to the support frame and the other end thereof is connected to the fixation needle. The present invention belongs to the technical field of medical experimental equipment and is intended to solve the problem that the lung tissue is hardly fixed during sampling of the lung tissue in the prior art.



21: 2023/07907. 22: 2023/08/15. 43: 2024/02/19 51: G01C

71: Xi'an Jinshan Yinshan Technology Co., Ltd. 72: SUN Youreng, TANG Xiao, ZHANG Jieyu **54: LIGHTING ANGLE MEASUREMENT DEVICE** FOR PHOTOVOLTAIC MODULES USED IN PHOTOVOLTAIC POWER GENERATION 00: -

This utility model discloses a lighting angle measurement device for photovoltaic modules used in photovoltaic power generation, which includes a support plate, and the upper end face of the support plate is equipped with a first motor, one end of the first motor is connected to a first bracket, one end of the first bracket is equipped with a connecting shaft, the connecting shaft is located on the first bracket and rotationally connected to a second bracket, and one end of the second bracket is equipped with a buckle, which is fixedly connected to the bottom of a photovoltaic panel body, and a support plate is installed above a driven gear, and a third motor is

installed at the upper end of the photovoltaic panel body. One end of the third motor is equipped with a belt, and both ends of the belt drive two threaded rods to rotate. The outer walls of the two threaded rods are equipped with a sliding block, and the sliding block is fixedly connected with a cleaning brush, which can achieve multi angle rotation measurement of the photovoltaic panel and clean the surface of the photovoltaic panel, avoid fixing the position of the photovoltaic panel, which may cause deviation in the measurement data, as well as issues such as rain, snow, and dust adhering to the photovoltaic panel, which may affect the measurement effect.



- 21: 2023/07908. 22: 2023/08/15. 43: 2024/02/19 51: A61K
- 71: Shilai Liang

72: Shilai Liang, Leixin Liang

33: CN 31: 202211574714.4 32: 2022-12-08 54: A TRADITIONAL CHINESE MEDICINE SPRAY FORMULATION FOR TREATING BURNS AND SCALDS 00: -

A traditional Chinese medicine spray formulation for treating burns and scalds, which belongs to the field of Chinese herbal medicine pharmaceutical technology, consisting of Radix et Rhizoma Polygoni Cuspidati, Artemisia anomala S. Moore, Radix Arnebiae, Catharanthus roseus, sulfur, Radix Sanguisorbae, Cortex Ilicis Rotundae. After soaking, cutting and extracting, it can be made into traditional Chinese medicine spray, which can be directly sprayed on the affected area. The advantageous effects of the invention are as follows: 1. This

formulation has the effects of clearing heat and detoxifying, reducing inflammation and relieving pain, clearing away the toxic heat, dispelling dampness, antibacterial and removing dirt, eliminating necrotic tissues and promoting tissue regeneration. 2. This formulation is a pure natural Traditional Chinese Medicine preparation, without any chemical products, no irritation, no pollution. It can heal mild burns in 3-5 days, moderate burns in 7-15 days, and deep burns in 30 days without leaving any scars, restoring the skin to its original state, thus relieving patients from pain and trauma. It is a great boon for burn patients, has cured countless patients, and left no scars on anyone.

21: 2023/07909. 22: 2023/08/15. 43: 2024/02/19 51: E21D

71: China Railway Seventh Bureau Group Third Engineering Co., Ltd, China Railway Seventh Bureau Group Co., Ltd

72: Ning Li, Chao Wang, Heng Wang, Junqiang Yang, Zhiqiang Gou, Yuxiang Chen, Shunyan Li, Zhigang Gao, Chao Ma, Mingjun Gao

#### 54: SHOTCRETE TRUCK FOR PRELIMINARY TUNNEL CONSTRUCTION 00: -

A shotcrete truck for preliminary tunnel construction includes a truck body, and a bearing member is fixedly connected to one end of a mechanical arm. According to the present disclosure, an adjustment rod is provided inside a first groove, a connecting rod is provided on an outer wall of the adjustment rod, an extrusion member is provided at one end of the connecting rod, a fixed plate is provided inside the first groove, and a first sliding groove is formed in an outer wall of the fixed plate, such that a clamping member can slidably move inside the first groove. In the present disclosure, a concrete mixer truck is required to transport concrete into the shotcrete truck, and then delivery pipelines and nozzles are driven by a mechanical arm to spray concrete into a tunnel. The equipment can quickly dismantle and clean the nozzles.



#### 21: 2023/07910. 22: 2023/08/15. 43: 2024/02/19 51: E21F; G06F

71: Liupanshui Normal University

72: HUANG, Mingda, GAO, Ying, SUN, Kui, YANG, Junwei, LI, Tao, ZHANG, Peng, SHI, Wenbing, ZHAN, Kaiyu

33: CN 31: 2023108864523 32: 2023-07-19 54: SURFACE WATER DISASTER PREVENTION AND CONTROL METHOD AND SYSTEM FOR STEEP COAL SEAM DURING MINING 00: -

Disclosed are a surface water disaster prevention and control method and system for a steep coal seam during mining. The method includes the following steps of: acquiring a mining thickness and a position of the steep coal seam; determining a setting position of a retaining dam according to a catchment amount constraint condition, the mining thickness and position of the steep coal seam and a water flow direction of surface water, and setting the retaining dam at the setting position; and during the mining of the steep coal seam, filling generated surface cracks in case of no rain, setting a surface drainage pipe based on the retaining dam for water drainage, filling the generated surface cracks in case of rain, setting the surface drainage pipe based on the retaining dam, and implementing a water resource transferring borehole to collaborate with the water drainage.



21: 2023/07931. 22: 2023/08/16. 43: 2024/02/19 51: G01N

71: Nantong University, Jiangsu Wanda Special Bearing Co., Ltd

72: ZHANG Cheng, CHEN Baoguo, ZHU Xiaohong, SHI Yinfei, QIAN Yongming, LI Zhuang 54: SLEWING BEARING FATIGUE TESTING

# MACHINE CONVENIENT FOR LOADING BENDING MOMENT

00: -

The invention discloses a slewing bearing fatigue testing machine convenient for loading bending moment, which comprises a frame, a variable-speed turntable system, an axial force loading system, a pressure loading head moving system and a signal acquisition and processing system; the frame is used for installing the tested slewing bearing and other components, and the variable speed turntable system is used for connecting the inner ring of the tested slewing bearing and driving the inner ring of the tested slewing bearing to rotate according to the specified rotation speed; the axial force loading system is used for applying axial force and bending moment on the tested slewing bearing through a pressure loading head, and loading through the vertical hydraulic cylinder and a pressure loading head moving system; the pressure loading head moving system is used for moving the position of the pressure loading head in the transverse direction, so as to adjust the bending moment applied by the pressure loading head; the signal acquisition and processing system is used to collect signals and send them to PLC and upper computer. The invention enables the slewing bearing fatigue testing machine to load bending moment conveniently, and

at the same time improves the reliability and operability of the equipment.



21: 2023/07932. 22: 2023/08/16. 43: 2024/02/19 51: C07D

71: HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY

72: WANG Changyuan, CAO Rongan, ZHANG Shu 54: COMPOUND LIQUID CONTAINING PROTEIN POLYPHENOLS AND APPLICATION THEREOF IN PREPARING DOUBLE-PROTEIN MILK 00: -

The invention belongs to the technical field of double-protein milk, in particular to a compound liquid containing protein polyphenols and an application thereof in preparing double-protein milk. The compound liquid containing protein polyphenols includes the following components in parts by weight: 5-10 parts of egg white protein, 10-20 parts of coarse cereal protein, 5-25 parts of whey protein concentrate, 1 part of fruit and vegetable polyphenol, 15-65 parts of whole milk powder and 200-1,000 parts of water. According to the invention, the concept of double protein is combined with the concept of protein-polyphenol interaction, and the protein of common and nutritious coarse cereals is extracted and mixed with whey protein concentrate, fruit and vegetable polyphenols and whole milk

powder; by adding a specific proportion of fruit and vegetable polyphenols, protein and polyphenols can be covalently or noncovalently combined, which can not only increase the solubility, foamability and emulsification properties of plant proteins and animal proteins, but also improve the oxidation resistance of plant polyphenols, which is very beneficial to human health.

21: 2023/07935. 22: 2023/08/16. 43: 2024/02/19 51: B66F

71: NO. 719 RESEARCH INSTITUTE OF CHINA STATE SHIPBUILDING CORPORATION LIMITED 72: JIANG Shiliang, WANG Shuai, LIU Wei, FANG Chang, BAI Qiang, CHEN Zheng 54: AERIAL WORK PLATFORM WITH THREE-DIMENSIONAL MOTION 00: -

The disclosure discloses an aerial work platform with three-dimensional motion, comprising: upper rails, lower rails, and a stacker; wherein the stacker comprises an upper beam mechanism, a lower beam mechanism, a hoisting mechanism, a cargo stage, and a work platform; and wherein, the upper beam mechanism cooperates with the upper rail, and the lower beam mechanism cooperates with the lower rail, so that the stacker can walk between the upper rail and the lower rail; and wherein the upper beam mechanism and the lower beam mechanism are supported and fixed by columns; and wherein the cargo stage cooperates with the column by guiding wheels, so that the cargo stage can walk upand-down along the column, and then hoisting and lowering drive of the cargo stage is realized by the hoisting mechanism; and wherein the cargo stage is provided with a telescopic mechanism for realizing a telescopic motion of the work platform. The present disclosure the three-dimensional motion of the work platform is realized by the walking mechanism, hoisting mechanism and telescopic mechanism, thereby working area of the platform is effectively expanded, working intensity of labourers is greatly reduced, difficulty of transportation is reduced and working efficiency is improved.



21: 2023/07936. 22: 2023/08/16. 43: 2024/02/19 51: G01M

71: No. 719 Research Institute of China State Shipbuilding Corporation Limited

72: JIANG Shiliang, WANG Shuai, TIAN Mengnan, XU Yingzhe, ZHAO Bo

#### 54: STATIC PERFORMANCE TEST SYSTEM FOR RUBBER VIBRATION ISOLATOR 00: -

The present disclosure discloses a static performance test system for rubber vibration isolator, which includes an upper frame assembly, a lower frame assembly and several test units; the test units include a top plate, a movable plate and a bottom plate sequentially distributed from top to bottom, the top plate being fixedly connected to the bottom plate by a guide shaft, and the movable plate being slidably connected to the guide shaft by an oil-free bushing; the top plate being mounted with a servo electric cylinder thereon, and an output shaft of the servo electric cylinder being fixedly connected to the movable plate by a connection seat; the bottom plate being mounted with a mounting platform thereon, and the mounting platform being mounted with a fixing tool of a rubber vibration isolator thereon; a bottom of the movable plate being connected to an actuating member by a force sensor. The static performance test system provided by the present disclosure is applicable to a wide range of vibration isolator models and a wide range of loading force can be applied by the static performance test system, and a uniform force endured by each mounting hole of the vibration isolator can be ensured by a design of a loading transition plate of the vibration isolator. The static performance test

system has the advantages of low manpower and material cost, small footprint, high measurement accuracy, uniform force endured by the vibration isolator.



21: 2023/07939. 22: 2023/08/16. 43: 2024/02/19 51: B23K

71: China Railway Seventh Bureau Group Co., Ltd, China Railway Seventh Bureau Group Third Engineering Co., Ltd

72: Heng Wang, Chao Wang, Ning Li, Xiaochao Liu, Feihong Feng, Junfeng Hao, Juntao Zhu, Xiaoe He, Pingxiao Wang, Yanxia Zhou

# 54: DOUBLE-SIDED BEVELING DEVICE FOR STEEL PLATES

00: -

The present disclosure discloses a double-sided beveling device for steel plates, specifically relating to the technical field of steel plate machining, and including a base. A blade is provided on an outer wall of a machining mechanism, and a box body is provided at a bottom end of the blade. According to the present disclosure, a clamping groove is formed in one end of an adjustment rod, a clamping member is provided at one end of a rotating rod, and a rotating plate is provided on an outer wall of the rotating rod, such that a limiting plate can slidably move inside a second groove. In the present disclosure, when a steel plate is placed at the bottom of Hard alloy blade, a bottom support plate is required to support the steel plate, and when a beveling device is configured to machine the steel plate, and Hard alloy blade rotates at high speed to

machine the steel plate, some debris is generated outside the steel plate. The device can collect most of the debris, such that subsequent ground cleaning is easier, it is convenient to clean and disassemble a material receiving plate, and the problem that subsequent debris collection is poor due to the fact that the debris inside the material receiving plate is too full is prevented.



21: 2023/07965. 22: 2023/08/16. 43: 2024/02/19 51: B65G 71: SHANDONG FANGDA ENGINEERING CO.,

# LTD

72: ZHANG, Wenxin, ZUO, Guodong, MA, Yonglong, LI, Xinhua, DENG, Weibin, WANG, Zetao, WANG, Qiangqiang, LIU, Xu, ZHANG, Yadong, LIU, Zeyong

#### 33: CN 31: 202211256636.3 32: 2022-10-13 54: CONVEYOR BELT CLEANING DEVICE AND USING METHOD THEREOF 00: -

Disclosed are a conveyor belt cleaning device and a using method thereof. The device includes a conveying belt, side baffles, a material receiving box, a spraying pipe, a liquid storage tank, a settling tank, a U-shaped pipe, a supporting frame and triangular scraping plates, where the conveying belt is wound on conveying rollers, sides of the side baffles are plugged with fixed shafts, a blanking port is formed in a top face of the material receiving box, the spraying pipe is adhered to a supporting plate, left and right sides of the liquid storage tank are

symmetrically welded with fixed rods, a mesh drum is installed inside the settling tank, the U-shaped pipe includes a blowing section and a heating section, and a bottom end of the supporting frame is welded together with the fixed rods.



21: 2023/07974. 22: 2023/08/17. 43: 2024/02/19 51: A01B

71: Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences

72: TIAN, Lu, GUO, Xiaoxia, SU, Wenbin, HUANG, Chunyan, LI, Zhi, ZHANG, Peng, JIAN, Caiyuan, HAN, Kang, LIANG, Yahui, LIU, Jia, KONG, Dejuan, WANG, Zhenzhen, ZHANG, Peng, WANG, Siming, ZHANG, Li

33: CN 31: 202223395814.9 32: 2022-12-19 54: SOIL REMOVAL DEVICE FOR SUGAR BEET 00: -

Disclosed is a soil removal device for sugar beet, which relates to the technical field of agricultural machinery, including a feed mechanism, a rotary disc soil removal mechanism, and a discharge mechanism. A feed inlet of the rotary disc soil removal mechanism is provided with the feed mechanism and a discharge outlet thereof is provided with the discharge mechanism. Mud leakage holes are provided on a rotary disc of the rotary disc soil removal mechanism. The sugar beet can be transferred from the feed mechanism to the rotary disc soil removal mechanism and discharged from the discharge mechanism. The present disclosure is reasonable and compact in structure. The mud on sugar beet can be effectively cleaned using the mud leakage holes on the rotary disc and the centrifugal force, thus the cleaning effect is greatly improved compared with manual cleaning.



21: 2023/07975. 22: 2023/08/17. 43: 2024/02/19 51: C02F

71: Xi'an University of Architecture and Technology, Water Resource Research Institute of Inner Mongolia

72: SUN Xin, ZHANG Qiqi, GAO Feng, YANG Yu 54: SELF-CLEANING ALGAE-BACTERIA IMMOBILIZATION DECONTAMINATION DEVICE 00: -

The invention discloses a self-cleaning algaebacteria immobilization decontamination device, which includes a treatment tank, where the upper end face of the treatment tank is provided with a motor; one end of the motor is connected to the middle part of a connecting frame and one end of the connecting frame is connected to a gear ring; one end of the motor penetrates through the middle part of the connecting frame and is connected with a stirring rod; the outer wall of the stirring rod is sleeved with a main gear and the main gear is meshed with a second gear; the second gear is meshed with a first gear and the first gear is meshed with the gear ring. The out wall of the stirring rod is fixedly connected with a mounting plate, and the lower end face of the mounting plate is provided with a positioning rod; both end of the positioning rod are provided with brackets and the brackets are connected with a fixed plate; the front side of the fixed plate is provided with a cleaning brush; the lower end face of the treatment tank is provided with a support plate; the front side of the support plate is provided with a plug-in plate; and the front side of the plug-in plate is provided with a guide rod, so that the algae and bacteria in sewage can be stirred and the pipe wall can be quickly cleaned and the filter screen can be quickly disassembled.



21: 2023/07976. 22: 2023/08/17. 43: 2024/02/19 51: G10L

71: China University of Mining and Technology 72: MENG LEI, LIANG ZOU, ZULONG YAN, HUIXUAN LING, XINHUI YU, LINA ZHENG, YONG XUE

# 54: METHOD AND SYSTEM FOR TRAINING SPEECH EMOTION RECOGNITION MODEL 00: -

The present invention discloses a method and system for training a speech emotion recognition model, and belongs to the technical field of intelligent speech processing. The present invention fuses emotion-related phoneme recognition into a model based on emotion recognition of a single-task deep learning model, and thereby the recognition rate of the model for emotions is improved. In order to avoid information loss caused by the use of a frequency-domain feature, the present invention uses a WAV2VEC2.0 self-supervised network based on a time-domain signal as a backbone network of the model, extracts an acoustic feature and a semantic feature of speech, and utilizes an attention mechanism to fuse two types of the features as a self-supervised feature. In order to fully utilize text emotion information in the speech, the emotionrelated phoneme recognition is used as an auxiliary task, to dig a text emotion in the self-supervised feature by multi-task learning. The present invention

may effectively utilize the text feature information in the speech, and improve the recognition rate of the speech emotion.



21: 2023/07977. 22: 2023/08/17. 43: 2024/02/19 51: A23K

71: Ocean University of China

72: CHEN, Guidong, JIANG, Xiaoming, XUE, Yong, XUE, Changhu, MA, Lei, WANG, Yuming 54: NUTRITIONAL FLAVOURING MADE OF ANTARCTIC KRILL FOR PETS AND PREPARATION METHOD THEREFOR 00: -

The present invention relates to a nutritional flavouring made of antarctic krill for pets. The present invention provides a nutritional flavouring made of antarctic krill for pets. A production process of the nutritional flavouring includes the steps of extracting a crude enzyme liquid, homogenizing raw materials, fermenting the raw materials, performing autolysis enzymolysis, performing second-stage enzymolysis, performing a thermal reaction for aroma enhancement, performing blending, performing microwave drying for aroma enhancement, performing anti-caking and antioxidation treatment, performing packaging and performing radiation sterilization. The product has the functions of nutrition enhancement and flavor food attraction, has strong characteristic flavor of the antarctic krill, and has good palatability and a good food taking promotion effect for the pets. All kinds of essential amino acids are contained, rich Omega-3 polyunsaturated fatty acids help the pet's intellectual development and vision keeping, improve the gloss of pet hair.

71: Henan University of Urban Construction

<sup>21: 2023/07978. 22: 2023/08/17. 43: 2024/02/19</sup> 

<sup>51:</sup> B01J

72: Yan Xu, Mao Yanli, Kang Haiyan, Ma Mengxia, Zhu Xinfeng, Zhou Jieqiang, Li Baixin, Zhu Han, Cui Leqi, Li Yanna

#### 33: CN 31: 2023109228281 32: 2023-07-25 54: A SILVER-DOPED CDS-ZNIN2S4 COMPOSITE PHOTOCATALYST AND ITS PREPARATION METHOD 00: -

The present invention discloses a silver-doped CDs-ZnIn2S4 composite photocatalyst and its preparation method, which belongs to the field of catalyst preparation. In the present invention, a solventthermal reaction is carried out between zinccontaining compound, indium-containing compound, and thioacetamide to obtain ZnIn2S4. Then, the carbon quantum dots, silver nitrate, and peroxydisulfate solution are reacted with it to obtain the silver-doped CDs-ZnIn2S4 composite photocatalyst. The preparation process of the present invention is simple, with low production cost and easy operation. The raw materials are readily available. Combining the advantages of advanced oxidation processes, it exhibits high photocatalytic activity, thereby demonstrating great potential for practical applications of the CDs-ZIS composite photocatalyst.



21: 2023/07980. 22: 2023/08/17. 43: 2024/02/27 51: G06F

71: Shenzhen Kingspec Electronics Technology Co., Ltd.

72: Shen Jiaqi, Shen Jinliang, Tan Yong 33: CN 31: CN202310586387.2 32: 2023-05-24 54: CONTROL METHOD OF SOLID STATE DRIVE WITH BUILT-IN RFID ENCRYPTION 00: - The present invention relates to the technical field of solid state drives, and particularly discloses a control method of a solid state drive with built-in radio frequency identification (RFID) encryption, and the control method includes the following steps: generating authority verification information according to a user's access request to one or more area (s) of the solid state drive; judging whether the user has access authority according to the authority verification information input by the user; prompting the user with the access authority to continue decoding verification, making the solid state drive connected to a radio frequency tag in communication, and verifying whether decoding information of the radio frequency tag is correct; and opening an area of the solid state drive to which the user has the access authority if the decoding information of the radio frequency tag is correct. Only passing through the double verification of the access authority and the radio frequency tag can a user access a specific area of the solid state drive, so that although the radio frequency tag is stolen, the data in the solid state drive cannot be obtained without the access authority verification; and the access authority settings in multiple areas of the solid state drive are different, thus further improving a use security of the solid state drive.



21: 2023/07981. 22: 2023/08/17. 43: 2024/02/21 51: G09B

71: North China University of Science and Technology

72: Wang Lei, Liu Tianji, Guo Lan

54: LEARNING AUXILIARY DEVICE BASED ON THE ON-LINE OPENING COURSE OF CURRICULUM THOUGHT POLITICS

00: -

The present invention discloses a learning auxiliary device based on the on-line opening course of curriculum thought politics, including a first support sleeve, the both sides of an upper and lower of a

front end of the first support sleeves run through and are provided with grooves. In the present invention, when the tablet computer needs to be tilted, the deflect of the first support sleeve and the second support sleeve can be matched to achieve through the spherical joint body and the spherical joint seat, so that the tablet computer can be driven to deflect, when you need to adjust the lighting angle of the illumination lamp, you can through the first connecting rod, the second connecting rod, the connecting piece to match with the lighting angle of the illumination lamp can be adjusted.



21: 2023/07982. 22: 2023/08/17. 43: 2024/02/27 51: G09F

71: North China University of Science and Technology

72: Liu Tianji, Wang Lei

#### 54: PROPAGANDA DEVICE FOR IDEOLOGICAL AND POLITICAL EDUCATION OF COLLEGE STUDENTS IN THE NEW ERA 00: -

The invention discloses a propaganda device for ideological and political education of college students in the new era, and the device includes a base, wherein the four corners of the outer wall at the lower end of the base are fixedly connected with four fixed frames. According to the invention, the object at the upper end of the movable seat does not rotate, but moves up and down, and thus the placing frame moves up and down; the energy-saving lamps enable the propaganda board to be seen at night, and the cylinder at the upper end of the rear protective cover enables the aluminum alloy door to be opened automatically to replace the propaganda poster; the second motors on both sides enable the propaganda board to be turned over, specifically, the front propaganda board is turned over after being used, so that the invention has high practicability and is convenient for spreading correct ideas.



21: 2023/08013. 22: 2023/08/18. 43: 2024/02/27 51: A61K; C12N; C12P; C12R; A61P; A61Q; C07K 71: Moutai Institute

72: ZHENG, Yuxi, LI, Baihan, WU, Ganghong 54: FERMENTATION PRODUCT, MONASCUS AND SORGHUM FERMENTATION FILTRATE, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present disclosure discloses a fermentation product, a Monascus and Sorghum Fermentation Filtrate, preparation methods and applications thereof, and belongs to the technical field of fermentation. According to the present disclosure, Monascus pilosus YX-1125 is used as a fermentation strain and sorghum is used as a fermentation substrate. The fermentation product is filtered to obtain a Monascus and Sorghum Fermentation Filtrate (MSFF). Due to the high antioxidant activity, MSFF can reduce apoptosis, redox imbalance, the production of pro-inflammatory cytokines and the expression of MMPs. The extremophile fermentation product provided by the present disclosure can be applied in the field of health care to resist the damage of oxygen free radicals and inflammation to the body, especially has great application potential in the fields of health foods and skin care.



21: 2023/08014. 22: 2023/08/18. 43: 2024/02/21 51: F23G

71: CBMI CONSTRUCTION CO., LTD. 72: ZHANG, Chao, WANG, Guomin, YAO, Xiuli, WANG, Qiang, CAO, Xinming, DENG, Yuhua, ZHENG, Xianming

33: CN 31: 2022110377583 32: 2022-08-27 54: VERTICAL TWO-SECTION INCINERATOR AND METHOD FOR DISPOSING COMPLEX COMBUSTIBLE SOLID WASTES THEREOF 00: -

A vertical two-section incinerator and a method for disposing complex combustible solid wastes thereof are disclosed, which belong to the field of solid waste calcination technology. The vertical twosection incinerator, which adopts a two-section three-dimensional oblique staggered arrangement, includes an upper and lower incinerator section, so as to realize the residence and combustion of solid waste in the incinerator. The bottom of the lower incinerator section is connected with a decomposing furnace through a flue gas and ash outlet. The upper incinerator section includes a solid waste inlet, semisolid waste inlets, a tertiary air inlet, a raw meal inlet, a stepped material bed and an aeration unit. The lower incinerator section also includes a stepped material bed and an aeration unit, and an inclination direction of the stepped material bed of the lower incinerator section is the same as that of the stepped material bed of the upper incinerator section.



21: 2023/08015. 22: 2023/08/18. 43: 2024/02/13 51: F23G

71: CBMI CONSTRUCTION CO., LTD. 72: ZHANG, Chao, WANG, Guomin, YAO, Xiuli, DENG, Yuhua, ZHENG, Xianming, WANG, Bin, WANG, Qiang, TAO, Ying, SUN, Xuecheng, ZHENG, Wang

33: CN 31: 2022110276972 32: 2022-08-25 54: METHOD FOR DISPOSING COMPLEX COMBUSTIBLE SOLID WASTES BY USING VERTICAL SECTIONAL INCINERATOR 00: -

The present disclosure provides a method for disposing complex combustible solid wastes by using a vertical sectional incinerator, which belongs to the field of solid waste calcination technology. The vertical sectional incinerator has three or more sections which are arranged in a three-dimensionally staggered stacking manner, so as to realize the residence and combustion of solid wastes in the incinerator, and the bottom of the vertical sectional incinerator is connected with a decomposing furnace through an exhaust gas and ash outlet; and the vertical sectional incinerator consists of an upper incinerator section, at least one middle incinerator section and a lower incinerator section. The present disclosure can effectively solve the problem on how to achieve high applicability, a high mixing degree of

solid waste, a large area of contact with oxygencontaining gas and a high burnout degree.



21: 2023/08016. 22: 2023/08/18. 43: 2024/02/27 51: G01N

71: Zaozhuang University, Zaozhuang Fushan Industrial Co., Ltd

72: Yangjunyan, Sun Haojie, Min Hong, Gu Jianguo, Zhang Shengdong, You Shihui

33: CN 31: 2023107962181 32: 2023-07-03 54: METHOD FOR CALCULATING THE BALL DIAMETER OF GRINDING BALLS OF BALL MILL 00: -

The purpose of the invention is to provide a method for calculating the ball diameter of grinding balls of ball mill, improve the granularity uniformity of ball mill discharge, reduce the over-grinding phenomenon, and realize the saving of power consumption and ball consumption of the ball mill. In order to achieve the above purpose, the technical scheme adopted by the invention is as follows: The invention relates to a method for screening the ball diameter of the initially-loaded ball of ball mills, and a method for calculating the ball diameter of grinding balls of ball mill, wherein, 1) select ores and divide them into equal sizes to obtain the hardness characteristics of the ores; 2) carry out particle size analysis on the feeding and discharging of the ball mill, and calculate the average particle size of the feeding and discharging; 3) group the particle sizes of the feeding and discharging ores, and measure the mass of the grouped ores; 4) obtain the parameters of the ball mill, wherein the parameters of the ball mill include the rotating speed, the grinding ball density and the diameter of the intermediate polycondensate layer of the grinding ball; 5) calculate the diameter of the grinding ball according to the parameters of the ball mill and the hardness characteristic parameters of the ores; 6) determine the weight ratio of grinding balls with different ball diameters according to the weight ratio of grouped particle sizes.

#### 21: 2023/08018. 22: 2023/08/18. 43: 2024/02/26 51: A61B

71: HUAINAN NORMAL UNIVERSITY 72: GUO Xiangpeng, ZHOU Yi, ZUO Hongkun, HUO Yuhong, FAN Jianmei

#### 54: DETECTION DEVICE FOR DETECTING NEURONAL CALCIUM SIGNAL CONDUCTION 00: -

The invention discloses detection device for detecting neuronal calcium signal conduction, belonging to the technical field of neuronal signal conduction detection, including a base, where a fixing part is arranged on the base; the translation block is slidably connected with the base; a guide rod passes through the translation block; the translation block is provided with a first driving assembly; the lifting rod includes a fixed rod fixedly connected with the translation block, a moving rod is slidably connected with the fixed rod, and a second driving assembly is arranged between the fixed rod and the moving rod; the telescopic rod comprises a lifting block slidably sleeved on the lifting rod, the side wall of the lifting block is fixedly connected with a mounting base, and the mounting base is rotatably connected with a supporting rod with telescopic function; the detection part comprises a control module fixedly connected to the telescopic rod, and the control module is electrically connected with the identification module and the detection module. The invention realizes the detection of neuronal calcium signal conduction of free-moving model animals

under the condition of non-contact stimulation, and is convenient to use, high in detection structure accuracy and convenient for popularization and application.



21: 2023/08019. 22: 2023/08/18. 43: 2024/02/29 51: A01G

71: SICHUAN ACADEMY OF FORESTRY, CHINESE ACADEMY OF FORESTRY, XINJIANG ACADEMY OF FORESTRY

72: Pijun LI, Wenxi XING, Junpei ZHANG, Qiang ZHANG, Chongwen ZHENG, Ningzi WU, Zeliang WANG, Junlong LI, Jiandong LIN, Yuliang DONG **54: METHOD FOR DRAINING WATER DURING WALNUT BARK GRAFTING** 00: -

The present disclosure provides a method for draining water during walnut bark grafting, including the following steps of: 1) Cutting an upper end of the walnut rootstock into a flat surface, peeling from bottom to top into a slope, to intersect the upper end of the slope with the flat surface; 2) Splitting longitudinally to form a groove at the middle position of the inclined surface of the walnut rootstock in step 1); 3) Inserting the scion sharpened at the lower end into the groove of the walnut rootstock obtained in step 2), so that the rootstock and the scion cambium contact, and exposing the inserted scion; 4) Splitting the lowest end of the inclined surface of the walnut rootstock in step 3) vertically downward to the drainage; 5) According to the location of the rootstock and scion of step 3), exposing the drainage; and 6) Fixing the position of rootstock and scion according to step 4) and exposing the drainage. By using the technique of leaving a drainage of draining water, the grafting survival rate

is 85% or above, and the grafting survival rate is increased by 20% to 35%.



21: 2023/08020. 22: 2023/08/18. 43: 2024/02/21 51: A01G

71: SICHUAN ACADEMY OF FORESTRY, CHINESE ACADEMY OF FORESTRY, XINJIANG ACADEMY OF FORESTRY

72: Pijun LI, Junpei ZHANG, Wenxi XING, Chongwen ZHENG, Qiang ZHANG, Ningzi WU, Zeliang WANG, Junlong LI, Jiandong LIN, Yuliang DONG

# 54: WALNUT TOP GRAFTING METHOD 00: -

The present disclosure provides a walnut top grafting method, specifically relates to the technical field of walnut grafting. The method includes the following steps of: selecting a rootstock with a diameter size of 3 to 5 cm; providing a scion; and contacting the rootstock with the scion cambium and binding. After years of research, it has shown that the top grafting method of the present disclosure has a grafting interface healing rate of 85.7% or above, and an average grafting cost of about 20 yuan/plant; the formation of a high-yield tree shape is early, making it easy to achieve high and stable yields. For low-quality and low-yield forests with 4 to 5 years of age, when the size of the rootstock at the grafting site of the high-yield tree is controlled at 3 to 5 cm, the high-yield tree shape can generally be formed within 2 to 3 years, and the yield can reach 1.5 to 2 kilograms per plant in the third year; and when the size of the grafting site rootstock is controlled 5cm or above, the high-yield tree shape generally takes 4 to 5 years to grow, and the yield can reach 1.5 to 2 kilograms per plant in the fifth year.



21: 2023/08023. 22: 2023/08/18. 43: 2024/02/21 51: F16C

71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: CHEN, Liwen, CUI, Bingyan, LONG, Haiyang, MA, Zhe, SHANG, Lin, WU, Weiying

54: MAGNETIC LIQUID DOUBLE SUSPENSION BEARING

00: -

Disclosed in the present invention is a magnetic liquid double suspension bearing. The magnetic liquid double suspension bearing comprises a main shaft, a stator and a rotor, wherein a housing of the stator is internally provided with radial magnetic poles and a flux sleeve, the radial magnetic poles are arranged in pairs, each radial magnetic pole is provided with a radial coil and a radial oil intake hole, and an end portion of each radial magnetic pole is provided with a non-magnetic conduction porous medium gasket; and axial magnetic poles are further fixed in an axial direction of the stator and are arranged in pairs, axial coils are sleeved on the axial magnetic poles, the axial magnetic poles on two sides of the rotor form magnetic flux loops with a first permanent magnet and a second permanent magnet respectively.



21: 2023/08024. 22: 2023/08/18. 43: 2024/02/27 51: B01J

71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: SUN, Ruijing, ZHANG, Wei, XING, Hongwei, KANG, Yue, LIU, Chao, LIN, Wenlong, SHAO, Chen 54: SLAG HOLLOW MICRO-BEAD PREPARATION NOZZLE AND PREPARATION METHOD THEREFOR

00: -

Disclosed in the present invention are a slag hollow micro-bead preparation nozzle and a preparation method therefor, belonging to the technical field of metallurgical slag comprehensive utilization. The preparation nozzle comprises a nozzle body. A spraying end of the nozzle body is provided with gas nozzles used for spraying high-pressure gas and mist nozzles used for spraying cooling liquid drops. The mist nozzles and the gas nozzles are arranged in an array at intervals. The preparation method comprises: S1: melting blast furnace slag into a liquid state; S2: pouring the liquid blast furnace slag into a flow groove launder, and enabling the liquid blast furnace slag to flow along the flow groove to form a molten slag flow; and S3: opening the nozzle body, synchronously spraying using the mist nozzles and the gas nozzles, so as to scatter the molten slag flow and blow the molten slag flow to a micro-bead collection chamber to obtain hollow micro-beads. The high-pressure gas can scatter the slag flow to form slag flow liquid drops, and the cooling liquid drops hits the slag flow liquid drops to enable same to be rapidly cooled and cured on the surface in contact with the cooling liquid drops. Under surface

tension and viscosity, the slag flow liquid drops rapidly wrap the cooling liquid drops, the cooling liquid drops absorb heat and rapidly evaporate in the wrapping process, and then the hollow micro-beads are formed.



21: 2023/08025. 22: 2023/08/18. 43: 2024/02/20 51: A61K; C12N; A61P 71: PENG, Shuanghong 72: PENG, Shuanghong, SUI, Yunpeng 33: CN 31: 202110089068.1 32: 2021-01-22 54: GENE TRANSCRIPTION FRAMEWORK, VECTOR SYSTEM, GENOME SEQUENCE EDITING METHOD AND APPLICATION 00: -

The invention provides a gene transcription framework, a vector system, a genome sequence editing method and the application thereof. The gene transcription framework is based on a eukaryotic retrotransposition mechanism and can be mediated by a DNA, RNA or RNP pathway, and comprises the transcription production sequence comprising one or more upstream sequence of target site, a sequence to be inserted and a downstream sequence of target site, one or more SINE (element(s)), one or more LINE (element(s)), one or more ORF1p coding sequence(s) and/or one or more ORF2p coding sequence(s). According to the gene editing method, on the premise that foreign systems or substances are not introduced as much as possible and doublestrand breaks are not generated, by transferring the gene editing system into nucleus or cytoplasm through a DNA, RNA or RNP pathway (RNA or RNP is transferred from cytoplasm to nucleus through ORF1p and/or ORF2p mediation), the target fragment is inserted into a designated site in a genome or the designated fragment in the genome

is deleted or replaced, and high targeting accuracy is achieved.



21: 2023/08064. 22: 2023/08/21. 43: 2024/02/21 51: A61K 71: XIANG Erlei

72: XIANG Erlei

54: TRADITIONAL CHINESE MEDICINE PILL FOR RELIEVING BREAST ACUTE MASTITIS, NODULE, HYPERPLASIA AND TOXIC SWELLING, AND PREPARATION METHOD THEREOF 00: -

Disclosed are a traditional Chinese medicine pill for relieving breast acute mastitis, nodule, hyperplasia and toxic swelling, and a preparation method thereof, with vinegar-processed Bupleurum, Radix Curcumae, earth-fried white atractylodes, stir-fried unripe bitter orange, Bulbus Fritillariae Thunbergii, gleditsia thorn, Parispolyphylla, kelp, tribulus terrestris, Semen Persicae, Caulis Sargentodoxae, Herba Taraxaci, Semen Vaccariae, vinegarprocessed Rhizoma Corydalis, roasted Olibanum, vinegar-processed Faeces Togopteri, Radix Glycyrrhizae, menthol, and Moschusl as raw materials. Most of the above medicinal materials have the effects of promoting blood circulation, relieving pain, relieving swelling, resolving hard mass, and clearing away heat and toxic materials. Through reasonable compatibility and processing, traditional Chinese medicine pills for relieving breast acute mastitis, nodule, hyperplasia and toxic swelling are obtained. The overall preparation process is simple, and the loss of effective components in the medicinal materials may hardly be caused during the preparation process. Adult patients with breast nodule, nameless toxic swelling and hyperplasia at all ages take 2-3 pills a day for 3-5 courses of treatment (15 days for a course of

treatment), and the effect is remarkable after that, so the pills may effectively relieve the symptoms without any side effects.

21: 2023/08065. 22: 2023/08/21. 43: 2024/02/21 51: B44D

71: Duan Song

72: Duan Song, Jinguo Guan, Yufeng Zhai, Zhihui Liu

# 54: COLORING DEVICE FOR ART DESIGN 00: -

The invention belongs to the technical field of art coloring, in particular to a coloring device for art design, comprising a base; the center of the upper wall of the base is provided with a rotating support plate, and the center of the upper wall of the support plate is provided with a main lifting hydraulic rod; the upper outer wall of the fixed end of the main lifting hydraulic rod is provided with a movable rotating disk; the upper wall of the movable rotating disk is arrayed with coloring grooves, and the coloring groove is arranged in a conical shape; the lower part of the movable rotating disk is provided with an anticuring and blocking rotary scraping and washing integrated mechanism; the upper end of the movable end of the main lifting hydraulic rod is provided with a rotary pigment placement mechanism, and the middle part of the movable end of the main lifting hydraulic rod is provided with a double-acting automatic coloring and flushing mechanism. The invention integrates color mixing and cleaning together, and uses the lifting of the blocking rod to complete the deployment and storage of the cleaning scraping rod on the one hand, and to discharge and collect the cleaned sewage in time on the other hand; simultaneously, the blocking sealing head on the blocking rod can seal the feeding pipe of the pigment cylinder.



#### 21: 2023/08066. 22: 2023/08/21. 43: 2024/02/21 51: C12N 71: Guangxi Academy of Specialty Crops

72: LOU Binghai, SONG Yaqin, LEI Cuiyun, LI Yijie, ZHANG Song, HAN Yang

# 54: MICROBIAL AGENT CONTAINING ASPERGILLUS ACULEATUS AND APPLICATION THEREOF

00: -

The invention discloses a microbial agent containing Aspergillus aculeatus and its application, belonging to the field of biotechnology. The microbial agent comprises Aspergillus aculeatus YS-1, sodium alginate, alkyl glucoside and fatty acid glyceride; among them, the Aspergillus aculeatus YS-1 is preserved in the Guangdong Microbial Culture Collection Center on July 7, 2020, with the preservation number of GDMCC No:61081. The strain is isolated from the dead citrus psyllid. The toxicity test shows that Aspergillus aculeatus YS-1 is a kind of insecticidal fungus with strong toxicity to citrus psyllid. After 5 days of treatment with 1x107 pieces/mL of Aspergillus aculeatus YS-1 spore suspension, the corrected mortality rate of citrus psyllid is 71.4%, the dead psyllid is 88.1%, and the insecticidal speed is relatively fast. The fungicide prepared from it can be applied to kill citrus psyllid with low environmental impact and reduced pesticide residues.



21: 2023/08067. 22: 2023/08/21. 43: 2024/02/21 51: C02F

71: Xi'an Jinshan Yinshan Technology Co., Ltd. 72: SUN Youreng, TANG Xiao, ZHANG Yan 54: HIGH-EFFICIENCY REACTION KETTLE DEVICE FOR SEPARATING ALGAE LIQUID 00: -

The invention discloses a high-efficiency reaction kettle device for separating algae liquid, which includes a reaction kettle, where the upper end of the reaction kettle is detachably connected with a kettle cover; the upper end of the kettle cover is fixedly connected with an extrusion cylinder; the movable end of the extrusion cylinder extends into the reaction kettle through the upper end of the kettle cover; the movable end of the extrusion cylinder is fixedly connected with an extrusion block; the side wall of the kettle cover is fixedly connected with a feed pipe for feeding; the side wall of the reaction kettle is fixedly connected with a liquid outlet pipe for discharging liquid; and the lower end of the reaction kettle is fixedly connected with a discharge pipe for discharging solids. The side wall of the reaction kettle is fixedly connected with a support frame for supporting. The high-efficiency reaction kettle device for separating algae liquid ensures the overall good solid-liquid separation effect, facilitates subsequent treatment, and facilitates the installation and disassembly of the first filter screen and the second filter screen as a whole,

thus facilitating the replacement and cleaning of the first filter screen and the second filter screen, and increasing the overall flexibility.



21: 2023/08068. 22: 2023/08/21. 43: 2024/02/21 51: E04G 71: CHINA CONSTRUCTION FIFTH ENGINEERING BUREAU CO., LTD. 72: YE, Kuifang, LIU, Yang, SU, Guangyuan, CHEN, Zhaojun, CHEN, Jiexiang, DENG, Shengqiang, WANG, Rongyuan, KANG, Guixin, WANG, Mengzhao, ZHENG, Yinrao 54: AN ADJUSTABLE WALL CONNECTING PIECE 00: -

The present invention discloses an adjustable wall connecting piece, and relates to the technical field of

building construction. The adjustable wall connecting piece comprises an embedded part, a fixed outer column, a fixed inner column, a moving plate and a connecting device; wherein, wherein, one end of the fixed outer column penetrates the wall body and is fixedly connected to the embedded part through threads, and one end of the fixed outer column close to the embedded part is internally provided with a fixing device; one end of the fixed inner column is provided with a fixed plate, the other end penetrates one end of the fixed outer column away from the wall body and abuts against the fixing device; the fixed inner column is connected to the fixed outer column through threads, and one end of the moving plate is rotatably connected to a position on the fixed inner column close to the fixed plate, and the other end is provided with a positioning device, and one end of the connecting device is removably connected to a middle position of the moving plate, and the other end is connected to a scaffold. In the present invention, by rotating the moving plate, the connecting device can be connected to a horizontal or a vertical scaffold, and the horizontal or the vertical spacing is adjustable. The secondary fixing of the fixed outer column can be achieved through a fixing device. It's easy to remove the fixed outer column and the embedded part, which is convenient for construction.



21: 2023/08069. 22: 2023/08/21. 43: 2024/02/09 51: A01G

#### 71: SHANGHAI ACADEMY OF LANDSCAPE ARCHITECTURE SCIENCE AND PLANNING 72: ZHANG Lang, ZHANG Dongmei, YANG Na, HAO Guanjun, FU Renjie, YIN Lijuan 33: CN 31: 202211510344.8 32: 2022-11-29 54: PLANTING SOIL PREPARED BY USING SOLID WASTE AS RAW MATERIAL AND APPLICATION OF SAME 00: -

The present invention provides a planting soil prepared by using solid waste as raw material and an application thereof, the planting soil includes 60% of raw soil, 5~30% of solid waste, 10~30% of subsidiary material and 0~5% of sandy soil, by mass, wherein the solid waste is one or more of a construction waste, a primary fermentation product of kitchen waste, and a farming and forestry waste compost. The present invention can reduce costs by mixing the solid waste with the planting soil, and mixing the waste will not affect the growth of plants, but can ameliorate the physical and chemical properties of the soil, and achieve the effect of digesting the waste while reducing costs.



21: 2023/08084. 22: 2023/08/21. 43: 2024/02/21 51: B60P; B60R 71: SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES

#### 72: ZHAO, Wenlong, ZHOU, Liang, GUO, Jiachen, NANDAL, Amita, DHAKA, Arvind 54: TELEOPERATED TRANSFER DEVICE AND METHOD FOR COMPONENT MAINTENANCE OF NUCLEAR FUSION DEVICE 00: -

Disclosed in the present invention is a teleoperated transfer device for component maintenance of a nuclear fusion device. The device is mainly composed of a transfer trolley main body, a doublesealing door, a trailer, a hoisting mechanism, a trolley body driving system, a maintenance component fixing platform, a heavy-load guide rail, etc. A transfer solution mainly includes the following steps: completing docking processes between a first transfer trolley and a window flange of a vacuum chamber, and between a second transfer trolley and the first transfer trolley; and completing a transfer process of conveying a component to be maintained from the vacuum chamber to a front portion of the second transfer trolley, namely below the hoisting mechanism by using a transfer mechanism and the trailer.



21: 2023/08085. 22: 2023/08/21. 43: 2024/02/21 51: B01D

71: SHANDONG FANGDA ENGINEERING CO., LTD

72: SONG, Shouxin, WANG, Chao, XU, Shijie, WANG, Houmin, YUAN, Mingyong
33: CN 31: 202210894478.8 32: 2022-07-27
54: ENERGY-SAVING AND ENVIRONMENT-FRIENDLY DUST REMOVAL DEVICE FOR ARCHITECTURAL DECORATION, AND USING

# **METHOD** 00: -

Disclosed are an energy-saving and environmentfriendly dust removal device for architectural decoration, and a using method. The device includes: a housing which includes a left blocking portion, a rear convex portion and a right blocking portion; conveying nets which are wound around rotating rods and rotating pipes; foam boxes which are welded and fixed on a fixing column; the fixing column, where a middle upper portion of a side surface of the fixing column is provided with a sliding groove; a liquid storage tank which is fixed on an inner wall of a front side plate of the housing in a threaded connection manner; axial flow fans which are mounted in the rear convex portion; rotating cylinders which are mounted in recovery grooves; metering pumps, where two ends of the metering pump are connected to a water input pipe and a water discharge pipe respectively; and a foaming pipe.



21: 2023/08087. 22: 2023/08/21. 43: 2024/02/21 51: C12Q; G01N 71: ORIGINAL G B.V 72: GAZENDAM, Joost Alexander Christiaan, BURTON, Matthew Francis 33: NL 31: NL 2027785 32: 2021-03-19 54: A METHOD FOR THE IN VITRO DIAGNOSIS OF INFECTION 00: -

The present invention relates to a method for in vitro diagnosing infection in bodily fluid samples, a lyophilized bead comprising a reagent and carbohydrate, the use of a lyophilized bead comprising a reagent and carbohydrate in an enzymatic assay, a system for detecting the presence of infection in a bodily fluid and a kit for detecting the presence of infection in a bodily fluid.

21: 2023/08098. 22: 2023/08/21. 43: 2024/02/26 51: G01M; H02P

71: INNER MONGOLIA AUTONOMOUS REGION INSTITUTE OF PRODUCT QUALITY INSPECTION 72: YUN, Jianbin, REN, Wei, WANG, Huijuan, DUAN, Bin, LI, Xinzhao, ZHOU, Lu, LIU, Lu, ZHANG, Wenqing, MA, Yanqing 54: QUALITY INSPECTION METHOD FOR WIND POWER EQUIPMENT

00: -

The invention belongs to the technical field of wind power generation, and relates to a quality inspection method for wind power equipment. The specific

steps of the quality inspection method for wind power equipment are as follows: step 1: inspection of a turbine blower: firstly, starting the turbine blower, and rapidly accelerating to a maximum speed; then rapidly stopping; starting the turbine blower normally; collecting pressure and flow signals of the turbine blower to form a pressure-time curve and a flow-time curve; judging whether the pressuretime curve and the flow-time curve are within preset ranges; and if the pressure-time curve and the flowtime curve are within the preset ranges, then the turbine blower is qualified. The quality inspection method can effectively inspect the turbine blower, a generator, a transmission system, a tower and a power control system, and involves hardware, software and the power system.



21: 2023/08099. 22: 2023/08/22. 43: 2024/02/22 51: B01F

71: Xi'an Jinshan Yinshan Technology Co., Ltd. 72: SUN Youreng, TANG Xiao, SUN Junyu 54: NANOBUBBLE GENERATING DEVICE WITH ANTI-BLOCKING FUNCTION BASED ON WATER FLOW SHEARING 00: -

The invention discloses a nanobubble generating device with anti-blocking function based on water flow shearing, which includes a nanobubble generator body, where the output end of the nanobubble generator body is fixedly connected with a main connecting pipe; a movable connecting pipe is movably connected inside the main connecting pipe; one end of the movable connecting pipe far away from the main connecting pipe is fixedly connected with a limiting sleeve; a rotating adjusting pipe is rotatably connected inside the limiting sleeve. One end of the rotating adjusting pipe far away from the limiting sleeve is fixedly connected with a bubble generating head for generating nanobubbles, and the device ensures that the whole can control the bubble generating position according to the actual situation, thereby increasing the overall flexibility, facilitating the overall adjustment of the angle for generating nanobubbles, and facilitating the overall generation and adjustment of the position of water flow shearing force, thereby ensuring the overall good bubble generating effect; and a sealing shaft sleeve is added at the outer side of the movable connecting pipe to ensure the sealing effect during the overall adjustment and ensure the overall stable adjustment.



- 21: 2023/08100. 22: 2023/08/22. 43: 2024/02/22 51: C12N
- 71: Tibet University

72: CAO Pengxi, LA Qiong, ZHANG Jifeng, ZHOU Yonghong, LIU Yixuan, MA Hongmei, PU Dun, LIU Xing

33: CN 31: 2022111266520 32: 2022-09-16 54: METHOD FOR EXTRACTING TOTAL RNA FROM PLATEAU PLANT OXYTROPIS GLACIALIS 00: -

The invention discloses a method for extracting total RNA from plateau plant Oxytropis glacialis, belonging to the field of molecular biology. The method includes the following steps: (1) grinding Oxytropis glacialis material with liquid nitrogen, adding a first lysing solution, mixing and lysing, and centrifuging to obtain supernatant; then adding a second lysing solution into the supernatant for lysing, and centrifuging to obtain the supernatant; (2) adding chloroform, mixing, centrifuging to obtain supernatant, adding isopropanol, and centrifuging to obtain precipitate; (3) after rinsing with ethanol, dissolving in DEPC H2O and storing at low temperature. According to the invention, by grinding plant materials with liquid nitrogen and combining the first lysing solution and the second lysing solution with a reasonable ratio, RNA samples with higher concentration and purity can be extracted to the maximum extent, which lays an important foundation for subsequent molecular biology analysis such as Oxytropis glacialis total RNA gene library and transcriptome sequencing.



18S

21: 2023/08101. 22: 2023/08/22. 43: 2024/02/22 51: E02B

71: Xi'an Yiyangze Environment Technology Co., Ltd.

72: SUN Xiaoxiao, SUN Xin, LI Haocheng, WANG Weiqiao

# 54: WATER SURFACE GARBAGE COLLECTION DEVICE

00: -

The present invention discloses a water surface garbage collection device, which relates to the technical field of water surface garbage cleaning, aiming to solve the problem of existing surface water surface garbage cleaning operations often relying on manual salvage, high workload, and poor cleaning effect. The technical solution key points include connecting brackets, with two ends of the connecting brackets fixedly installed with a floating box, and one side of the outer surface of the floating box fixedly connected with an installation frame, and the installation frame is located on one side of the connecting bracket, and the external sleeve of the installation frame is fixed with a collection net bag, and the lower surface of the connecting bracket is fixedly equipped with an expansion rod, and the fixed end of the expansion rod is fixedly connected to the connecting bracket, and the movable end of the expansion rod is fixedly connected to a submersible pump, and a connector is fixedly installed at the outlet port of the submersible pump, and a water conduit is fixedly installed on the symmetrical outer surface of the connector, the outer surface of the water conduit is provided with a through hole. The effect of automatic cleaning of water surface garbage has been achieved.



21: 2023/08102. 22: 2023/08/22. 43: 2024/02/22 51: F27B; F27D 71: CBMI CONSTRUCTION CO., LTD. 72: ZHANG, Chao, ZHENG, Xianming, DENG, Yuhua, WANG, Bin, TAO, Ying, YAO, Xiuli, LI, Runguo, WANG, Guomin, SUN, Xuecheng 33: CN 31: 2023103874092 32: 2023-04-12

# 54: CARBON CAPTURE ASSISTANT SYSTEM AND CO2 SEALING METHOD FOR CEMENT PRODUCTION LINE

#### 00: -

A carbon capture assistant system and CO2 sealing method for a cement production line are provided. The system includes a sealed gas piping network. CO2 gas is input to an input end of the piping network. First, second and third branch pipes are arranged at an output end of the piping network. Orifices of the first branch pipes are communicated to a kiln head sealing point and a kiln tail sealing point, an orifice of the second branch pipe is communicated to a gate valve sealing point, and orifices of the third branch pipes are respectively communicated to a raw meal feeding sealing point, an ash outlet sealing point and a dust collector outlet sealing point. Each of the sealing points is internally provided with a pressure sensor. Each of the branch pipes are internally provided with a control fan. A controller is connected with the fans and pressure sensors.



21: 2023/08103. 22: 2023/08/22. 43: 2024/02/22 51: G06F 71: Jiaxing Vocational & Technical College

72: Shengyu Xie, Yun Pan

33: CN 31: 202310924681.X 32: 2023-07-26 54: A METHOD FOR STUDENTS' PRIVATE INFORMATION PROTECTION BASED ON DEEP LEARNING 00: - The invention discloses a method for protecting students' private information based on Deep Learning Fusion, which combines deep learning and blockchain technology to ensure the safe protection of students' personal information by pre-treatment the students' personal information data uploaded by users and training the pre-treated data by using deep learning algorithm, it is mainly used for encrypting and decrypting the personal information, the encrypted information is stored on the blockchain in the Hyperledger Fabric network. In order to protect the privacy of students' personal information, intelligent contracts and access control policies are used to manage the access rights of students' information; only authorized users can view or modify students' personal information, which ensures the security and privacy of students' personal information through the non-tampering and distributed features of blockchain, when an authorized user uses the student's personal information, the encrypted information is decrypted using the corresponding key and the depth learning model.



- 21: 2023/08104. 22: 2023/08/22. 43: 2024/02/22 51: B65B
- 71: Anhui Science And Technology University

#### 72: ZHENG, Haibo, XIONG, Guoyuan, LI, Jingjun, GAO, Shusheng, LI, Xianbao, WU, Xiaowei 54: UNIFORM WARMING INDUSTRIAL MICROWAVE STERILIZATION DEVICE 00: -

Provided is an uniform warming industrial microwave sterilization device, relating to the technical field of microwave sterilization. The device includes a support frame, a protective housing, a control module, a plurality of first heating cavity shells and a plurality of second heating cavity shells, a top end of each first heating cavity shell and a bottom end of each first heating cavity are both equipped with heating devices, and a conveying device is configured to convey a packaging bag into the protective housing and to enable a packaging bag to be placed between each first heating cavity shell and each second heating cavity shell. The uniform warming industrial microwave sterilization device provided by the present disclosure can effectively improve the heating uniform degree of the packaging bag.



21: 2023/08105. 22: 2023/08/22. 43: 2024/02/22 51: E01D

71: CCCC FIRST HIGHWAY ENGINEERING GROUP CO., LTD, THIRD ENGINEERING CO.,LTD OF CCCC FIRST HIGHWAY ENGINEERING GROUP

72: Zhenhua ZHAO, Zhenguo LIU, Yongwei GUO, Junlin BAI, Zhifei ZHANG, Yong LI, Jianyun LI, Gongxiang SHANG, Song CHENG, Zhiyong SUN, Tianwei TANG, Xinyu YAN, Dengke GUO, Cheng ZHANG, Li WANG, Xiaowei QIAO 54: POSITION-ADJUSTABLE CABLE ERECTION DEVICE OF CABLEWAY BRIDGES 00: -

A position-adjustable cable erection device of cableway bridges is disclosed in this invention, which relates to the technical field of cableway bridge construction, including a saddle set at the top of the underframe, a saddle moving device set below the saddle, a storage side plate symmetrically fixed on both sides of the saddle, and a carriage platform mechanism which is in a rotary connection inside the storage side plate. After the saddle is moved and fixed, the platform is rotated and expanded, the position of the fixed platform and the storage side plate is fixed by bolts, and the installation of the transportation of the carriage is completed by combining the extension plate. Through the above structure, the invention solves the following problem: the position of the saddle is difficult to adjust after hoisting when the existing cable erection device of the cableway bridge is built, after the installation of the saddle, it is necessary to build the carriage platform through the tower crane hoisting equipment in turn after the installation of the saddle, and the work efficiency is low.



21: 2023/08106. 22: 2023/08/22. 43: 2024/02/22 51: F27B

71: CBMI CONSTRUCTION CO., LTD.

72: SUN, Xuecheng, ZHANG, Chao, WANG, Qiang, CAO, Xinming, DENG, Yuhua, ZHANG, Haiping 33: CN 31: 2022222903301 32: 2022-08-30 54: A CLAY CALCINATION ROTARY KILN STRUCTURE 00: -

A clay calcination rotary kiln structure is provided comprising a cylinder body, an inlet hood, an air inlet and a feeding inlet. The cylinder body is provided with a cylinder inlet and a cylinder outlet at two ends thereof along the length direction. The cylinder body is rotatable about its axial direction. The inlet hood is in communication with the cylinder inlet, and the air

inlet in communication with the inlet hood for introducing flue gas into the inlet hood. The feeding inlet is in communication with the inlet hood for introducing clay powder to the inlet hood. The inside of the cylinder body is provided with lifting boards at intervals near the cylinder inlet, the lifting boards extending inwardly along the radial direction of the cylinder body and/or the air inlet. The feeding inlet is constructed to be arranged at intervals in the same orientation at the inlet hood.



21: 2023/08107. 22: 2023/08/22. 43: 2024/03/11 51: A23L

71: Dr. R. UmaRani, Dr. J. Rajesh Banu 72: Dr. R. UmaRani, Dr. J. Rajesh Banu, Dr. S. AdishKumar, Dr. S. Kaliappan

#### 54: A SYSTEM TO PERFORM MICROWAVE PRETREATMENT AND ANALYZE ITS IMPACT ON ANAEROBIC DIGESTION OF SLUDGE 00: -

A system (100) to perform microwave pretreatment and analyze its impact on anaerobic digestion of sludge, comprises of: an inlet chamber (102) for collecting a WAS from an effluent treatment plant; a microwave oven (104) comprising of a vessel (106) for irradiating the collected WAS, wherein 200-300 mL of the sludge is supplied to the vessel (106) and penetrated with a microwave irradiation; a pair of anaerobic digestion reactor (108) for analyzing an effect of the microwave pretreatment on anaerobic biodegradability based on BMP assay as an index of anaerobic biodegradation potential for complete digestion; at least a pump (110) for performing feeding and draining of the sludge at regular intervals in a semi continuous mode; and a plurality of test tubes (112) for displaying water movement to measure quantity of biogas produced from the reactor.



21: 2023/08112. 22: 2023/08/22. 43: 2024/02/22 51: G06F

71: Shrabani Sutradhar, Dr. Sunil Karforma, Dr. Rajesh Bose, Dr. Sandip Roy

72: Shrabani Sutradhar, Dr. Sunil Karforma, Dr. Rajesh Bose, Dr. Sandip Roy

#### 54: A SYSTEM AND METHOD FOR ENHANCING THE QUALITY OF SERVICE OF THE INTERNET OF MEDICAL THINGS 00: -

The present disclosure relates to a system and method for enhancing the guality of service of the internet of medical things. The Internet of Medical Things, or IoMT, offers many benefits for healthcare, including telemedicine, facility and clinic repositories, and remote patient monitoring. The two tricky knots in IoMT are data encryption and QoS. As a result of this research, a major and scalable access control approach is suggested. In this study, encryption in IoMT medical devices is accomplished using a DS-TEA. The encrypted data is transmitted over the network using the Energy Efficient Routing Protocol (EERP). The findings demonstrate that, in comparison to competing approaches, our suggested solution significantly improves QoS and network performance in terms of lifetime, communication overhead, storage footprint, and power consumption.



- 21: 2023/08113. 22: 2023/08/22. 43: 2024/02/22
- 51: H04N
- 71: Lu'an JingShunChangHua Technology Co., Ltd. 72: WANG, Xiuli

#### 54: DTMB SET-TOP BOX WAKEN UP BY FM-CDR AND USED FOR EMERGENCY BROADCAST 00: -

The present invention provides a digital terrestrial multimedia broadcast (DTMB) set-top box waken up by a frequency modulation-China digital radio (FM-CDR) and used for an emergency broadcast, which relates to the field of emergency broadcasts. According to the present invention, the DTMB set-top box receives an emergency instruction and emergency content transmitted by an FM-CDR signal in real time by means of an FM-CDR receiving and demodulating module, a decoding, parsing and signature verification module and a first controller, and the DTMB set-top box can intercut the emergency broadcast when being in a standby state and in a playing state by means of the first controller, a second controller and an output module.



#### 21: 2023/08114. 22: 2023/08/22. 43: 2024/02/22 51: H04N

71: Lu'an JingShunChangHua Technology Co., Ltd. 72: WANG, Xiuli

#### 54: DTMB SET-TOP BOX RESPONDING TO EMERGENCY BROADCAST VIA FM-CDR 00<sup>-</sup> -

The present invention provides a digital terrestrial multimedia broadcast (DTMB) set-top box responding to an emergency broadcast via a frequency modulation-China digital radio (FM-CDR), which belongs to the field of emergency broadcasts. The DTMB set-top box includes: an FM-CDR signal receiving module configured to receive and parse an FM-CDR signal to obtain an emergency instruction and emergency content; a DTMB signal receiving module configured to receive and parse a DTMB signal to obtain video and audio data of a broadcast television program; a first controller configured to execute the emergency instruction when receiving the emergency instruction and the emergency content; a second controller configured to receive the video and audio data of the broadcast television program; and a switching module configured to play the emergency content when

receiving the emergency content and play the video and audio data of the broadcast television program when not receiving the emergency content.



21: 2023/08115. 22: 2023/08/22. 43: 2024/02/22 51: H04N

71: Lu'an JingShunChangHua Technology Co., Ltd. 72: WANG, Xiuli

# 54: DTMB SET-TOP BOX WAKEN UP BY FM-CDR FOR EMERGENCY BROADCAST

00: -

Disclosed in the present invention is a digital television terrestrial multimedia broadcasting (DTMB) set-top box waken up by a frequency modulation-China digital radio (FM-CDR) for an emergency broadcast. The DTMB set-top box waken up by an FM-CDR for an emergency broadcast provided by the present invention includes an FM-CDR receiving and demodulating module, a decoding, parsing and signature verification module, a controller, a DTMB receiving and demodulating module, a DTMB decoding, decrypting and parsing module and an output module. The controller is configured to execute a user instruction to be in standby or transmit video and audio data of a broadcast television program to the output module for playing, receive an emergency instruction and emergency content and execute the emergency instruction on time to transmit the emergency content to the output module for playing, where the priority of the emergency instruction is higher than that of the user instruction.



21: 2023/08129. 22: 2023/08/22. 43: 2024/02/22 51: B29C; B60C

71: KT PROJEKTENTWICKLUNGS-GMBH 72: TSIBERIDIS, Konstantin, SPINDLER, Martin 33: DE 31: 10 2021 101 463.8 32: 2021-01-25 54: TIRE REPAIR KIT AND METHOD FOR INFLATING AND/OR SEALING A TIRE 00: -

The invention relates to a tire repair kit (1) for inflating and/or sealing, as required, a tire mounted on a rim (2) of a vehicle wheel. The tire repair kit (1) can in particular be temporarily mounted on the vehicle wheel and comprises an in particular bowlor pot-like support body (3), which can be replaceably received in the central recess (4) of the vehicle wheel rim (2). The tire repair kit (1) also comprises a compressor unit (5), which has a drive, and a compressor portion (7), which has at least one working chamber. The tire repair kit (1) can optionally have a sealant container (B), which is toroidal at least in regions and is in particular rotationally toroidal, and which surrounds the compressor portion (7) of the compressor unit (5) at least in part or in regions.

72: Zhenxi AI, Junlin BAI, Yongwei GUO, Zhifei ZHANG, Yong LI, Jianyun LI, Gongxiang SHANG, Song CHENG, Zhiyong SUN, Tianwei TANG, Xinyu YAN, Dengke GUO, Cheng ZHANG, Li WANG, Xiaowei QIAO

#### 54: A VIBRATING DEVICE WHICH IS CONVENIENT FOR CONCRETE FORMING 00: -

The present invention discloses a vibrating device which is convenient for concrete forming, including a steel formwork seat and a vibrating seat. The surface of the vibrating seat is fixedly connected with a sealing cavity, the inner part of the sealing cavity is connected with a gear seat, and the upper end of the gear seat is connected with a supporting rod. The lower end of the gear seat is connected with a rotating shaft, the bottom end of the rotating shaft is connected with a disturbance seat, and the surface of the disturbance seat is connected with a vibrating plate; the vibrating seat is internally connected with a cam. The present invention adopts the abovementioned vibrating device which is convenient for concrete forming, and improves the forming quality. It also improves the smoothness of concrete forming.





21: 2023/08138. 22: 2023/08/23. 43: 2024/02/26 51: B28B

71: CCCC FIRST HIGHWAY ENGINEERING GROUP CO., LTD, THIRD ENGINEERING CO.,LTD OF CCCC FIRST HIGHWAY ENGINEERING GROUP 21: 2023/08139. 22: 2023/08/23. 43: 2024/02/27 51: G08G

71: Anhui Polytechnic University, Electronic Radar (Wuhu) Technology CO., Ltd, Yangtze River Delta HIT Robot Technology Research Institute 72: WANG Lulin, LI Shengjie, LIU Guiru, SUN Jian, WANG Wei, CHEN Shuang

#### 54: TRAFFIC LIGHT CONTROL SYSTEM AND CONTROL METHOD THEREOF 00: -

The invention discloses a traffic light control system, which comprises at least one group of motor vehicle traffic light devices arranged at a local intersection, and an violation video monitoring system arranged at an opposite intersection for collecting image information of the local intersection, a motor vehicle traffic light control unit outputs a driving signal to the motor vehicle traffic light devices, and each traffic light of the motor vehicle traffic light devices is provided with two groups of light sources, one is a common light source, and the other is a redundant light source. The new traffic light control system works more stably and reliably, and through redundant design, the possibility of traffic paralysis caused by faults is reduced.



- 21: 2023/08142. 22: 2023/08/23. 43: 2024/03/11 51: E02D
- 71: Nanchang Institute of Technology
- 72: Li Xinyou, Ye Qing

# 54: ANTI-COLLAPSE SUPPORTING DEVICE FOR FOUNDATION PIT IN CIVIL ENGINEERING CONSTRUCTIONS

#### 00: -

The present invention discloses an anti-collapse supporting device for foundation pit in civil engineering constructions, including a fixed block, four corners of a left side and a right side of the fixed block are fixedly connected to column bolts, the left side and the right side of the fixed block are fixedly connected to second fixed plates, four corners of a left part and a right part of the second fixed plate are penetrated by and arranged with holes, and the column bolt is located in the hole. According to the present invention, firstly, after a second hydraulic cylinder is extended to a specified length, based on the different angles between a pit wall and a pit bottom and under the cooperation between a hinge and the second hydraulic cylinder, the cooperation between a first articulated seat and a cross chute makes a pushing plate and the pit wall fixed, so as to protect the foundation pit.



21: 2023/08175. 22: 2023/08/24. 43: 2024/02/26 51: C22C

71: Shandong University of Technology, Tianrun Industrial Technology Co., Ltd

72: CONG, Jianchen, YUAN, Wei, SUN, Jun, SHAO, Shibo, CHEN, Shutong, ZHOU, Yangfan 54: PREPARATION METHOD FOR CRANKSHAFT REMOVING GRAPHITE NODULES FROM SURFACE AND HAVING RANDOM TEXTURE

#### 00: -

Disclosed is a preparation method for a crankshaft removing graphite nodules from a surface and having a random texture, which belongs to the technical field of a surface of a mechanical motion friction pair. According to a preparation technology for a random texture, a surface of a journal of a nodular cast iron crankshaft of an engine is taken as a base surface, a binding force between graphite particles and a matrix is reduced through three working procedures of heating, heat retention and rapid cooling by utilizing a difference between

coefficients of thermal expansion of graphite and the matrix in nodular cast iron, crushed brown corundum powder is further coated and pressed gaps between the graphite particles and the matrix, the graphite nodules are occupied by brown corundum particles under an action of a multi-dimensional pressing force, and irregular pits are formed at initial positions of the graphite nodules.



#### Xuesong, GUO Lilong, WANG Jinqiao 54: CRACK LOCATION METHOD OF CONTINUOUS BEAM UNDER MOVING LOAD BASED ON STRAIN CHARACTERISTICS 00: -

The invention discloses a damage identification method for continuous beam based on shape characteristics of strain influence lines, which belongs to the field of bridge damage detection, including: fitting the discrete points of strain influence line with quintic polynomial interpolation function, making a difference between the data of discrete points before and after the damage of the strain influence line to obtain the absolute value, and calculating the first and second derivatives of the fitting curve. Compared with the prior art, the present invention provides a continuous beam crack damage identification method with a fifth-degree polynomial interpolation function of strain influence lines, which improves the computational efficiency and accuracy in multi-element computation, adopts a collaborative judgement of multi-influence lines, which is simpler to compute, and makes the vibration point more obvious, and more resistant to clutter interference.



21: 2023/08177. 22: 2023/08/24. 43: 2024/02/26 51: G08G

71: Anhui Polytechnic University, Electronic Radar (Wuhu) Technology CO., Ltd, Yangtze River Delta HIT Robot Technology Research Institute 72: LIU Guiru, CHEN Weisong, WANG Lulin, SUN Jian, WANG Wei, CHEN Shuang

# 54: ANTI-COLLISION EARLY WARNING CONTROL SYSTEM FOR CURVE VEHICLES AND CONTROL METHOD THEREOF

00: -

The invention discloses an anti-collision early warning control system for curve vehicles. The system is provided with a monitoring early warning device at the curve entrance at both ends of the curve; each monitoring early warning device comprises a millimeter-wave radar for detecting vehicles in the bending direction, an alarm display screen for displaying information in the bending direction, a main control unit and a wireless communication module; the millimeter-wave radar outputs signals to the main control unit; the main control unit outputs an alarm signal to an alarm display screen; the wireless communication module communicates with the main control unit; two wireless communication modules of the monitoring early warning device communicate. This system can effectively improve the safety of driving in mountain bends and reduce the probability of accidents.



21: 2023/08178. 22: 2023/08/24. 43: 2024/02/26 51: G01N

71: China University of Mining and Technology 72: Yanan GAO, Donghao LAN, Yunlong WANG, Feng DING, Chengzheng CAI, Yao ZHANG, Zhenping SUN, Defei ZHANG, Zhenwei TANG, Xiaoli ZHU

54: A METHOD FOR IMPROVING THE ACCURACY OF LABORATORY SIMULATION OF ROCK FRAGMENTATION KINETIC ENERGY UNDER DEEP DISTURBANCE 00: -

The present invention discloses a method for improving the accuracy of laboratory simulation of rock crushing kinetic energy under deep disturbance, comprising the following steps: S1. after making a red sandstone into multiple rock samples, and selecting odd rock samples for wave velocity test; S2. performing X-ray diffraction tests on the rock samples selected in S1; S3. the rock sample is fixed into the rock test system for loading, and the principal stress of the rock sample during loading is recorded; S4. calculating the elastic energy Ue accumulated in the process of loading the rock sample to the peak value; S5. measuring the area A of the broken surface of the rock sample after crushing, and calculate the dissipated energy during the crushing process of the rock sample; S6. according to the law of energy distribution, the kinetic energy of rock sample after crushing is calculated. The present invention adopts the abovementioned method for determining the kinetic energy of rock breaking under deep disturbance, which greatly improves the accuracy of simulating the rock breaking process under deep disturbance in the laboratory. At the same time, it also ensures the characteristics of the specimen under the disturbance stress state, and can meet the different excavation surface shapes, so that the kinetic energy is more in line with the actual data.



21: 2023/08179. 22: 2023/08/24. 43: 2024/02/26 51: G01N

71: Xi'an Yiyangze Environment Technology Co., Ltd.

72: SUN Xin, SUN Xiaoxiao, WANG Weiqiao, LI Haocheng

# 54: ADJUSTABLE WATER QUALITY MONITORING DEVICE

### 00: -

The invention discloses an adjustable water quality monitoring device, which relates to the technical field
of water quality monitoring, and aims to solve the problems that the existing water quality monitoring device is relatively simple in function, and the monitored value cannot fully reflect the whole aquaculture water quality situation, and the practicability and functionality need to be improved. The key point of the technical scheme is as follows: a floating box is included, characterized in that a through hole is arrange at the position of the central axis of the floating box, and a screw rod penetrates through the through hole, one end of the screw rod is fixedly connected with an installation pipe socket, the outer surface of the installation pipe socket is provided with a plurality of mounting holes, and a pH sensor, a dissolved oxygen sensor, a chemical oxygen demand sensor, an ammonia nitrogen sensor and a turbidity sensor are respectively fixedly installed in the mounting holes. It has achieved the effects of monitoring water quality, performing oxygen-increasing operation on water quality and reflecting the actual situation of water quality more comprehensively.



21: 2023/08180. 22: 2023/08/24. 43: 2024/02/26 51: G01N

71: INNER MONGOLIA AUTONOMOUS REGION INSTITUTE OF PRODUCT QUALITY INSPECTION 72: YUN, Jianbin, REN, Wei, DUAN, Bin, WANG, Huijuan, HAO, Wenying, GAO, Fei, LIU, Qi, ZHANG, Wenging, LIANG, Xuelian

## 54: QUANTITATIVE NONDESTRUCTIVE TESTING METHOD FOR REMAINING LIFE OF PIPELINE STEEL

00: -

The present invention belongs to the technical field of pipeline quality inspection, in particular to a quantitative nondestructive testing method for remaining life of pipeline steel. The specific steps of the quantitative nondestructive testing method for the remaining life of the pipeline steel are as follows: step 1: firstly, measuring the length of a pipeline to be tested, dividing the pipeline with the length into equal lengths, and comprehensively testing each length, wherein testing items comprise cathodic protection condition detection, stray current interference condition detection, anticorrosive layer damage point detection, pipeline buried depth

detection, operating pressure capacity detection and steel pipe material detection. The quantitative nondestructive testing method has simple operation steps, can accurately test the remaining service life of the pipeline, and can predict the later corrosion degree of the pipeline according to the corrosion capacity of the soil around the pipeline, so as to facilitate early intervention.

## 21: 2023/08181. 22: 2023/08/24. 43: 2024/02/26 51: E04H

71: CHINA CONSTRUCTION FIFTH ENGINEERING BUREAU CO., LTD. 72: SU, Ziru, LIAO, Song, QIU, Yang, HUANG, Long, WANG, Libin, ZHANG, Peng, XIE, Xiaohan, CAO, Minghui

# 54: A VIBRATION DAMPER FOR STEEL WORK 00: -

The present invention discloses a vibration damper for steel work. It relates to the technical field of building shock absorption. The vibration damper comprises a top plate, base, first damping mechanism, first supporting mechanism, second damping mechanism and second supporting mechanism. The top plate is in sliding connection with the base top that has an opening. The first supporting mechanism is set at the bottom of the top plate for support, and the second supporting mechanism at the bottom of the first supporting mechanism for support. The first damping mechanism has one end fixedly connected to both sides of the bottom of the top plate, and the other end in sliding connection with the inside of the base. The first driving mechanism is in sliding connection with the first damping mechanism on one end, and the other end with the first supporting mechanism. The second damping mechanism is in sliding connection with the bottom of the base. The second driving mechanism has one end articulated to the second supporting mechanism, and the other end with the second damping mechanism. The present invention enhances the damping result through a plurality of damping mechanisms and supporting mechanisms, saving costs and without affecting the building layout.



21: 2023/08201. 22: 2023/08/25. 43: 2024/02/26 51: H02S

71: ANHUI POLYTECHNIC UNIVERSITY 72: HUANG, Wei, LIU, Sanmin, ZHAO, Senyan, CHEN, Meng

## 54: COMPUTER INTELLIGENT ADJUSTMENT SYSTEM FOR SOLAR PANELS ORIENTED TO PHOTOVOLTAIC INDUSTRY

00: -

Disclosed is a computer intelligent adjustment system for solar panels oriented to the photovoltaic industry, which relates to the technical field of embedded system control. By a Hall sensor, the rotation speed of a motor is detected, and a detection square wave is output. The light intensity is detected by an optical reconnaissance detector. A single-chip microcomputer generates a control instruction to a pulse width modulation (PWM) circuit according to the light intensity, the PWM circuit changes a duty ratio according to the control instruction, and the PWM circuit controls and adjusts the rotation speed of the motor. The single-chip microcomputer counts the number of square wave pulses in one second, calculates the speed of the motor, and realizes the feedback control of a direct current motor. By two-way adaptive control, the intelligent speed adjustment and variable speed functions are realized, with the two-way closed-loop consumption being independently controllable.



21: 2023/08202. 22: 2023/08/25. 43: 2024/02/26 51: C12M

71: Hangzhou City University

72: Juxin YIN, Ying MU, Jianjian ZHUANG 54: A DIGITAL PCR CHIP FOR MULTI-TARGET DETECTION AND ITS PREPARATION METHOD 00: -

The present invention discloses a digital PCR chip for multi-target detection and a preparation method thereof, including a base layer, a chamber layer, a support layer and a sealing layer adhered from bottom to top in turn; where the chamber layer includes a first-level injection port, a detection area, a secondary injection port, a main channel, a reaction unit, a sample outlet, a reaction unit and a sample outlet connected in turn. The present invention adopts the above-mentioned digital PCR chip for multi-target detection and its preparation method, improves the multiple detection ability and dynamic detection range of the digital PCR chip, avoids the dependence on expensive instruments, and is very suitable for nucleic acid detection scenarios.

71: Anhui Polytechnic University

72: Youyu LIU, Yi LI, Guodong HU, Wanbao TAO, Hongwei LI

33: CN 31: 2023103831044 32: 2023-04-06 54: A GAS-LIQUID ISOLATION SYSTEM FOR A NEGATIVE PRESSURE SUCTION CUP IN A LIQUID ENVIRONMENT AND ITS OPERATIONAL METHOD 00: -

The present invention relates to the field of negative pressure gas-liquid isolation technology, in particular to a gas-liquid isolation system for a negative pressure suction cup in a liquid environment and its operational method, where the gas - liquid isolation system includes a negative pressure air source, an electromagnetic directional valve, a gas-liquid isolator, a negative pressure suction cup, liquid and air, the B port on the electromagnetic directional valve is connected to the negative pressure air source, and the A port is connected to the air, the gas-liquid isolator is connected to the P port on the electromagnetic directional valve through the trachea and the negative pressure suction cup, the negative pressure suction cup is located below the liquid surface, and the negative pressure gas source, electromagnetic directional valve and gasliquid isolator are located in the air. The present invention uses the piston structure to achieve gasliquid isolation, the structure is simple and reliable, and the manufacturing cost is low, also, the buffer springs set at both ends of the piston ensure the safety of the invention in extreme scenarios.



21: 2023/08203. 22: 2023/08/25. 43: 2024/02/26 51: B01D



21: 2023/08204. 22: 2023/08/25. 43: 2024/02/26 51: C08L

71: SUZHOU UNIVERSITY

72: XIE, Xusheng, SHEN, Xun, LI, Fajun, ZHANG, Keying, ZHUO, Xin, SHI, Hongwei

## 54: BIO-BASED CARBON FIBER MATERIAL AND PREPARATION METHOD THEREOF

00: -

The present invention provides a bio-based carbon fiber material and a preparation method thereof, and belongs to the technical field of fiber materials. The present invention takes degummed cooked silk as a base material and adopts a hydrothermal method, a calcining method and a boronizing reaction to realize the application of the degummed cooked silk in electrocatalytic hydrogen production. The operation is simple, and electrocatalytic performance is enhanced.



21: 2023/08206. 22: 2023/08/25. 43: 2024/02/26 51: E21D

71: Anhui Jintian Environmental Protection Technology Co., Ltd.

72: Jianguo Xu

33: CN 31: 2023109224967 32: 2023-07-26 54: AN AUTOMATIC SHOTCRETE DRY MATERIAL SUPPLY SYSTEM FOR MINING 00: -

An automatic shotcrete dry material supply system for mining comprises automatic output carriages and other equipment used for transporting automatic output carriages: a tracting semi-trailer, a narrowgauge flatbed truck for mining, a monorail crane, and a carriage guide rail; the automatic output carriage comprises a main carriage body, a base plate, a horizontally spiral conveyor and a vertically spiral conveyor; through the cooperation of the automatic output carriages and the tracting semi-trailer, the narrow-gauge flatbed truck for mining, the monorail crane, and the carriage guide rail, it can meet the specific transportation requirements at different stages in vertical shaft mining, and transport the shotcrete dry material from the ground production base to the location for underground operations in a sealed condition. After being connected with the underground hydraulic power pack and equipment, the shotcrete material is continuously and quantitatively supplied according to the needs of the downstream equipment. The weighing system monitors the weight of raw materials in the carriages in real time, combined with the sprayed area, the thickness of the spray layer can be calculated; according to the requirements, the output quantity and spraying speed of the automatic output carriages are adjusted to ensure that the thickness

of the sprayed layer meets the design requirements. Compared with the existing technology, labor can be saved, dust can be eliminated, and the quality of the project can be improved.



21: 2023/08207. 22: 2023/08/25. 43: 2024/02/26 51: H05H

71: Xi'an Jinshan Yinshan Technology Co., Ltd. 72: SUN Youreng, ZHANG Jieyu, TANG Xiao 54: PLASMA GENERATING DEVICE USED IN WATER

00: -

The invention discloses a plasma generating device used in water, which comprises a fixed mounting frame, wherein the plasma generating device is detachably connected inside the fixed mounting frame; the upper end of the fixed mounting frame is detachably connected with a limiting block for limiting the movement of the plasma generating device; the outside of the plasma generating device is fixedly connected with a positioning block; the rear end of the fixed mounting frame is movably connected with a positioning mounting plate, and the rear end of the positioning mounting plate is movably connected with an adjusting fixing plate for adjusting and fixing. The plasma generating device used in water is convenient for the whole to be stably fixed with containers with different specifications, and is convenient for the whole plasma generating device to be installed and disassembled, thereby increasing the whole flexibility, preventing the whole output end from touching the water, and ensuring the whole stable operation.



21: 2023/08208. 22: 2023/08/25. 43: 2024/02/26 51: A61K

71: Universidad Bernardo O'Higgins, Claudio Ruff, Karina Cano, Nicolás Ruff, Benjamín Ruff, Catalina Ruff, Edith Pinto, Cristián Cornejo, Marcelo Ruiz 72: Claudio Ruff, Karina Cano, Nicolás Ruff, Benjamín Ruff, Catalina Ruff, Edith Pinto, Cristián Cornejo, Marcelo Ruiz

#### 54: A COSMETOLOGICAL OINTMENT COMPOSITION TO REPAIR SKIN LESIONS AND ITS PREPARATION PROCESS THEREOF 00: -

The present invention generally relates to a process for preparing a cosmetological ointment to repair skin lesions. The process comprises collecting and processing leaf and flower of Malva sylvestris and obtaining an extract of the leaf and flower of Malva sylvestris; maintaining a dynamic viscosity of the extract; mixing 2-8 weight % of beeswax with 5-15 weight % of mallow extract in a pot to obtain a solution; and cooking the solution at a boiling temperature of 100° Celsius for a time of at least 60 minutes using a Balneum Mariae method and cooling the solution for preparing cosmetological ointment.



21: 2023/08209. 22: 2023/08/25. 43: 2024/02/26 51: B65F

## 71: CHINA CONSTRUCTION FIFTH DIVISION SOUTHERN CONSTRUCTION SUBSIDIARY CORP., LTD

72: SHAN, Chuan, ZHANG, Zhang, WANG, Qianhong, FAN, Lixiong, LIU, Pei, GUO, Yunnan, LI, Xiaowei, HE, Songwen, SONG, Yongjie, XIE, Liangpu, ZHANG, Jialong, ZHANG, Zhibin, LIU, Xiaofeng

## 54: AN ENERGY-SAVING TYPE DUST RECOVERY SYSTEM FOR CONSTRUCTION SITES

00: -

The present invention disclosures an energy-saving type dust recovery system for construction sites, which relates to the field of dust recovery equipment, and comprises the dust removal unit and the power generation unit. The said power generation unit is fixed on the top of the dust removal unit, and the said dust removal unit comprises a dust removal box, wherein the internal part is provided with a separation plate, which separate the dust removal box into a filtering area and an air exhausting area. The separation plate is provided with a large rounded hole in the middle area, wherein a dust filtering cover is fixed at the edge of the bottom. The internal part of the air exhausting area is provided with a driving mechanism, wherein the output terminal reaches into the filtering area and is connected to the cleaning mechanism. In the present invention, by a dual axis tracker, the tilt direction of the photovoltaic panel is capable to be adjusted intelligently, so as to store more power to the dust recovery system, reduce the power consumption during the dust recovery, and save the cost of construction; by the collaboration of the driving mechanism and the cleaning mechanism, the dust attached to the dust filtering cover is capable to be cleaned, so as to increase the service life and the recovery efficiency of the dust filtering cover.



21: 2023/08242. 22: 2023/08/28. 43: 2024/03/01 51: B01J; C07C; B82Y

71: Dr. Naresh Podila, Dr. Gokul S. Talele, Dr. Swati G. Talele, Dr. Atul Rupchand Bendale, Unmesh Gulabrao Bhamare, Dr. Jubie Selvaraj, Dr. Mithun Rudrapal, Dr. Sanapala Arun Kumar, Muddisetti Sreelatha

72: Dr. Naresh Podila, Dr. Jubie Selvaraj, Dr. Mithun Rudrapal, Dr. Gokul S. Talele, Dr. Swati G. Talele, Dr. Atul Rupchand Bendale, Unmesh Gulabrao Bhamare, Dr. Sanapala Arun Kumar, Muddisetti Sreelatha

## 54: METHOD FOR SYNTHESIS OF AMINO CINNAMIC ACID AND DERIVATIVES USING CATALYTIC DCC-HOBT COUPLING APPROACH 00: -

The present invention relates to a method for the synthesis of amino cinnamic acid and its derivatives. The method involves a series of reactions using specific reagents and conditions to achieve the desired compounds. The synthesis process is carried out in a stepwise manner, utilizing catalytic DCC (dicyclohexyl carbodiimide) and HOBt (1-hydroxy Benzotriazole) coupling as key steps. Different hydrazines are employed for the synthesis of amino cinnamic acid, and subsequent reactions are conducted to obtain cinnamic acid derivatives and cinnamic acid thiadiazole derivatives. The

described method offers a reliable and efficient approach for the synthesis of these compounds, which can find application in various fields including pharmaceuticals and organic chemistry.



#### 21: 2023/08243. 22: 2023/08/28. 43: 2024/03/01 51: C04B

71: Henan University of Urban Construction 72: ZHANG, Jianwu, JIN, Biao, WANG, Xiao, MA, Xianwei, LI, Zhixin, XUE, Kaiwang, LUO, Qing 54: DOUBLE-LIQUID GROUTING MATERIAL, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

#### 00: -

The present invention belongs to the technical field of building materials, and particularly relates to a double-liquid grouting material, and a preparation method therefor and an application thereof. The double liquid grouting material includes a component A and a component B. The component A includes the following in parts by weight: 45 - 50 parts of sulfoaluminate cement clinker, 0 - 5 parts of a suspending agent, 0.25-0.75 parts of a retarder, 0.5 - 1 part of a water reducer, 0.025 - 0.075 parts of an early strength agent and 36 - 40 parts of first mixing water; and the component B includes the following in parts by weight: 60 - 87 parts of salt gypsum, 10 - 20 parts of carbide slag, 1 - 10 parts of lithium aluminum hydrotalcite, 2 - 10 parts of a water reducer, and 56 - 94 parts of second mixing water.

21: 2023/08244. 22: 2023/08/28. 43: 2024/03/01 51: C09J 71: HENAN UNIVERSITY OF URBAN CONSTRUCTION 72: LI Wei, ZHANG Xiaoguo, LIU Zhiqing

#### 54: PHOTOVOLTAIC PACKAGING ADHESIVE FILM AND PREPARATION METHOD THEREOF 00: -

The invention discloses a photovoltaic packaging adhesive film and a preparation method thereof, which comprises the following steps: raw material preparation, modification treatment of main materials, secondary modification treatment and casting to form a film. According to the invention, ethylene-vinyl acetate copolymer, POE resin and PVB resin are respectively modified for the first time through the first modifier, the second modifier and the third modifier, so as to improve their comprehensive performance and film-forming property, then the modified resin main materials are modified for the second time through the crosslinking agent, and a complex system with strong weather resistance is formed by combining various additives. So as to improve the comprehensive properties of the molded photovoltaic packaging adhesive film, such as aging resistance, light transmittance, adhesiveness, high temperature resistance, resistivity and the like, and reduce its water permeability, so that it is not easy to enter water vapor in the assembly process, and the aging resistance is improved, and the aging speed in harsh weather environment is reduced, so that the problem of power attenuation is not easy to occur in photovoltaic cell modules.



21: 2023/08245. 22: 2023/08/28. 43: 2024/03/01 51: C09J

71: HENAN UNIVERSITY OF URBAN

CONSTRUCTION

72: LI Wei, LIU Zhiqing

## 54: PHOTOVOLTAIC FILM MATERIAL AND PREPARATION METHOD THEREOF 00: -

The invention provides a photovoltaic film material and a preparation method thereof. The photovoltaic film material comprises the following materials in parts by weight: 20-30 parts of copper sulfide, 20-30 parts of metallic bismuth, 20-30 parts of PET material, 10-20 parts of graphene, 5-8 parts of antioxidant, 4-6 parts of anti-ultraviolet agent, 4-6 parts of titanium dioxide and 10-20 parts of nano magnesium oxide; the preparation method comprises: preparing materials, preparing upper film materials, film evaporation and film annealing. According to the invention, the preparation is carried out in a double-layer film mode; the copper bismuth sulfide thin film material prepared by using metal bismuth and copper sulfide has good carrier transmission speed and stability; and the upper layer thin film material is obtained by combining with the PET material, graphene, titanium dioxide and nano magnesium oxide, which has good reflectivity and corrosion resistance, enhances the mechanical properties and stability of the photovoltaic thin film material, and also has the advantage of improving the conversion efficiency.



21: 2023/08246. 22: 2023/08/28. 43: 2024/03/01 51: G06F

71: Dr. Kishore Kumar Ponnuswamy Krishnan, Dr. Thirumal Pattabi, Dr. Vutukuru Shravan Koundinya, Srinivas Kumar Seepuram, Dr. Parthasarathi Patra Harekrushna, Dr. Kasi Viswanathan Palanisamy, Dr. Kiran Kumar Kommineni

72: Dr. Kishore Kumar Ponnuswamy Krishnan, Dr. Thirumal Pattabi, Dr. Vutukuru Shravan Koundinya, Srinivas Kumar Seepuram, Dr. Parthasarathi Patra Harekrushna, Dr. Kasi Viswanathan Palanisamy, Dr. Kiran Kumar Kommineni

## 33: IN 31: 202341053751 32: 2023-08-10 54: SMART INTER-TRANSFER DATA DRIVE 00: -

The present embodiment relates to data storage and retrieval devices, and more particularly is discloses a device to efficiently transfer an electronic data from one or more storage devices to a plurality of other devices with no purpose for a computing device. The device drive is configured to comprise a plurality of ports to receive a plurality of storage devices and further configured to accommodate a touch interfaced interactive console to correspondingly access a respective drive and interact aiming at the navigating and performing a hassle free transaction.



21: 2023/08247. 22: 2023/08/28. 43: 2024/03/01 51: C03B

71: Anhui Polytechnic University

72: Yi LI, Youyu LIU, Guodong HU, Songsong LU, Hongwei LI

#### 33: CN 31: 2023101477197 32: 2023-02-15 54: ULTRA-THIN GLASS FRICTION SEPARATION DEVICE AND ITS OPERATION METHOD 00: -

The invention relates to the technical field of ultrathin glass production device, in particular to an ultrathin glass friction separation device and its operation method. The friction separation device includes a conveyor belt component, a rear baffle component, a feeding component, a moving base component, a front baffle component, and a top pressure plate component, the moving base component is connected to the lower end of the conveyor belt component, the top pressure plate component is connected to the upper end of the conveyor belt component, the feeding component is connected to the upper end of the conveyor belt component and is located on the right side of the top pressure plate component, the front baffle component is connected to the upper end of the conveyor belt component and is located on the front side of the top pressure plate component, and the rear baffle component is connected to the upper end of the conveyor belt component and is located on the rear side of the top pressure plate component. Through the cooperation

between various components, the invention utilizes the friction force of the conveyor belt on ultra-thin glass to achieve an ultra-thin glass separation with high efficiency, high quality, and low cost.



21: 2023/08248. 22: 2023/08/28. 43: 2024/03/01 51: C02F

71: Xi'an Yiyangze Environment Technology Co., Ltd.

72: SUN Xiaoxiao, SUN Xin, WANG Weiqiao, LI Haocheng

## 54: EFFICIENT WATER PURIFICATION DEVICE FOR AQUACULTURE

00: -

The invention discloses an efficient water purification device for aquaculture, which relates to the technical field of water purification, and aims to solve the problem that the existing water purification operation of aquaculture ponds is often to replace aquaculture water or spray water purification agents, so that the operation is complicated and the water purification effect cannot be ensured for a long time. The key points of its technical solution include a buoyancy tank, wherein a connecting rod is fixedly connected to the lower surface of the buoyancy tank, a purification cylinder is fixedly connected to one end of the connecting rod, a filter cylinder is fixedly sleeved at the liquid inlet of the purification cylinder, fiber ball filter material is filled in the filter cylinder, and a plurality of UV lamps are fixedly installed on the inner wall of the purification cylinder; the purification cylinder is L-shaped, and a feed hopper

is vertically connected to the liquid outlet port of the purification cylinder. A through hole is arranged on the outer surface of the buoyancy tank, and the feed hopper penetrates through the inside of the through hole, thus achieving that effects that the water purification effect of the culture pond can be ensured continuously for a long time, and the purification operation is convenient.



21: 2023/08249. 22: 2023/08/28. 43: 2024/03/01 51: C02F

71: Xi'an Yiyangze Environment Technology Co., Ltd.

72: SUN Xin, SUN Xiaoxiao, LI Haocheng, WANG Weiqiao

# 54: MOVABLE SOLAR WATER MIXING AND OXYGENATION DEVICE

00: -

The invention discloses a movable solar water mixing and oxygenation device, which comprises a support platform of water mixing equipment and a stirring part for mixing water. The stirring part comprises a plurality of groups of first support columns arranged circumferentially at one side of the support platform, a main solar panel arranged at the top of the first support columns, a mounting frame arranged at the top of the support platform, a motor arranged at one side of the mounting frame and a driving rod arranged at one side of the motor. According to the invention, the support platform, the supporting rod, the mixing chamber and the water outlet hole are arranged, the rotating tube drives a plurality of stirring columns outside the stirring rod to stir and mix the water body, and the blade drives the equipment to move, so that the problem that the existing equipment can not fully stir the water body and can not conveniently drive the equipment to move is solved, which easily leads to low dissolved oxygen in the water body of the lake and the reservoir, and affects the practicability of the equipment in the oxygenation operation of the water body of the lake and the reservoir.



21: 2023/08251. 22: 2023/08/28. 43: 2024/03/01 51: H01L

71: Guizhou Academy of Tobacco Science 72: MA Yunfei, CHEN Wei, XIONG Chengfei, PAN Fenghua, LI Delun, CHEN Lili, MO Jingjing, LIN Yechun, GAO Weichang

## 54: TOBACCO LEAF WASTE DETERMINATION METHOD BASED ON PHOTOSHOP AND EDGE DETECTION

00: -

The invention discloses a tobacco leaf waste determination method based on Photoshop and edge detection, which comprises the following steps: S1, tobacco leaf pretreatment: pretreating the tobacco leaf to be detected so that the moisture content of the tobacco leaf is in a set period; S2, image acquisition: acquiring images of the tobacco leaves to be detected; S3, acquiring the total pixel value of the tobacco leaves to be tested: acquiring the total pixel value of the tobacco leaves to be tested by using a Photoshop software magnetic lasso tool, and recording it as X; S4, obtaining pixel values of the waste parts: accurately selecting diseased spots, scorched or waste parts on the tobacco leaves to be detected by using Photoshop software, magnetic lasso tools and magic wand tools, reading pixel values by using histograms, and calculating pixel values of the waste parts on the

tobacco leaves to be detected, and recording them as Y; S5, calculating the waste of the tobacco leaves to be tested: waste =(Y/X)\*100 percent. The method provided by the invention is simple, convenient and quick to operate, has no influence on tobacco leaves, can accurately and quantitatively measure the waste ratio of tobacco leaves, and fills the blank of the waste measurement method of tobacco leaves.



21: 2023/08252. 22: 2023/08/28. 43: 2024/03/01 51: A61K

71: Dr. Debasish Pradhan, Dr. Bandana Behera, Dr. Shaktiprasad Pradhan, Mr. Nalini Ranjan Nayak, Mr. Lalatendu Mohanty, Ms. Adyasa Samantaray 72: Dr. Debasish Pradhan, Dr. Bandana Behera, Dr. Shaktiprasad Pradhan, Mr. Nalini Ranjan Nayak, Mr. Lalatendu Mohanty, Ms. Adyasa Samantaray 54: ANTI-AGING AND ANTI-WRINKLE FORMULATION FROM VITIS VINIFERA AND TINOSPORA CORDIFOLIA EXTRACTS 00: -

The present invention relates to an advanced approach to formulating potent anti-wrinkle and antiaging skincare products using a Nano Layer-By-Layer Delivery System. It involves encapsulating essential active compounds within Silica Shells (MSNs), enhancing them through co-encapsulation and surface modification. The method employs a precise conjugation process to prepare CPPschitosan, further enriching the nanoparticles with argieline-8 peptide and Vitamins C and E. The resulting nanoparticles are assembled layer-bylayer, then purified and lyophilized for preservation. These innovative techniques are utilized to develop various skincare products, incorporating natural ingredients like Red Grape seed extract and phenolic compounds. The formulation process ensures product efficacy through controlled cooling, allowing for the integration of minerals and oils. Overall, this invention presents a promising approach to revolutionize anti-aging skincare



21: 2023/08256. 22: 2023/08/28. 43: 2024/03/01 51: A01N; B01L

71: ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY

72: CHEN, Li, CAI, Lijun, ZHANG, Jingjing, TONG, Lei, YANG, Zhanfeng, XU, Xiaoxia, ZHAO, Wenhao, YANG, Wanpeng

#### 54: SPECIMEN STORAGE DEVICE FOR BASIC MEDICAL TEACHING 00: -

The present invention relates to a specimen storage device for basic medical teaching. Because specimens are usually stored in a storage box for a long time, the phenomenon of moisture regain is easy to occur, which will damage the specimens, the following solution is proposed, which comprises a base; a baffle plate is fixedly installed in the base; a rotating shaft is rotatably connected to the baffle plate; the top end of the rotating shaft is fixedly connected with a lifting seat; both ends of the top of the lifting seat are fixedly connected with auxiliary seats; sliding rods are fixedly connected in the two auxiliary seats; springs are sleeved on the two sliding rods; the two sliding rods are slidably connected with connecting plates; a storage box is fixedly connected between the two connecting

plates; and a dehumidification box is fixedly installed on one side of the storage box.



21: 2023/08257. 22: 2023/08/28. 43: 2024/03/01 51: A61J

# 71: ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY

72: LI, Juan, SHEN, Xiaofang, MA, Li, WU, Yuedan, HUANG, Huimin, FANG, Yuxin, LI, Manling 54: MEDICAL SPRAY TYPE SOLID POWDER DRUG FEEDER

00: -

Disclosed is a medical spray type solid powder drug feeder. As it is not convenient to mix solid powder drugs in the existing skin administration, and not convenient to control the dosage when the solid powder drugs are introduced, the following is proposed, which comprises a box body; the top of the box body is provided with a dispensing box; the bottom of the dispensing box is provided with a guide mechanism; the top of the box body is fixedly provided with a supporting rod; the top end of the supporting rod is fixedly provided with a conversion box; one side of the conversion box is rotatably connected with a guide box; one side of the guide box is provided with a through hole; the through hole and the conversion box are communicated with each other; one side of the guide box is provided with a liquid outlet pipe.



21: 2023/08259. 22: 2023/08/28. 43: 2024/02/29 51: E04B; E04C; E04F 71: CHINA CONSTRUCTION FIFTH DIVISION SOUTHERN CONSTRUCTION SUBSIDIARY

CORP., LTD 72: ZHOU, Zhizhi, ZHANG, Wenyang, FAN, Lixiong, WANG, Qianhong, HUANG, Zhanxin, ZHANG, Saisai, LIU, Cheng, CHEN, Jianping, XIAO, Changcheng, GAN, Jun

## 33: CN 31: 2023109869280 32: 2023-08-07 54: AN INSTALLATION AND CONSTRUCTION METHOD FOR A LIGHTWEIGHT AND SELF-HEAT-PRESERVATION CONCRETE PREFABRICATED EXTERIOR WALL HANGING BOARD

00: -

The present invention discloses an installation and construction method for lightweight self-heatpreservation concrete prefabricated exterior wall hanging boards, belongs to the technical field of building construction. The method comprises the following steps: performing deepening design of prefabricated exterior wall hanging boards, constructing the embedded parts, measuring and setting out, hoisting the prefabricated exterior wall hanging boards, installing a diagonal support, installing the inner and outer adjusting and fixing sets, vertical adjusting and fixing sets, calibrating, binding beam-slab rebars, pouring concrete, and performing waterproofing of the prefabricated exterior wall hanging board. In the present invention, the upper rebars of the prefabricated exterior wall hanging board are anchored with the edge beam

rebars of the floor top plate. The slab edge beam is cast-in-situ concrete, the assembled add-on wall boards can be inserted at the main stage in this method. Compared with the method in which the exterior wall hanging boards are installed after the construction of the major structure is completed, the method of the present invention can reduce the requirements on the construction precision of the main structure and the manufacture precision of PC components, is conducive to reducing the costs of component molds and the main structure construction and the installation difficulty and also is conducive to improving the construction progress.



21: 2023/08260. 22: 2023/08/28. 43: 2024/03/01 51: H01M

71: XEROTECH LIMITED

72: FLANNERY Barry, McFADDEN Seán, COLLINS Meaghan, QUINN Neil

33: GB 31: 2101121.8 32: 2021-01-27 54: MODULAR BATTERY PACK

#### 00: -

A battery pack (1) comprises one or more battery modules (10). A battery module (10) comprises one or more cells (120) and a thermal management arrangement (140) for thermally managing the one or more cells (120). The thermal management arrangement (140) comprises at least one thermal management duct (141), an intake-side fluid delivery arrangement (200c) and an outlet-side fluid delivery arrangement (200d). The inlet-side fluid delivery arrangement (200c) is in fluid communication with the outlet-side fluid delivery arrangement (200d) via the at least one thermal management duct (141). Each fluid delivery arrangement (200) comprises first and second fluid connection arrangements for allowing a thermal management fluid to enter and/or exit the thermal management arrangement (140).



21: 2023/08261. 22: 2023/08/28. 43: 2024/03/01 51: H04L

71: DALIAN MARITIME UNIVERSITY
72: Hu Qing, Liu Jiabing
33: CN 31: 202210863231.X 32: 2022-07-20
54: A SOFTWARE-DEFINED NETWORKING
(SDN)-BASED INTELLIGENT SHIP NETWORK

#### **SYSTEM** 00: -

The invention provides an intelligent ship network system based on SDN, including an internal communication network and an external communication network. The internal communication network consists of sequentially connected data plane, control plane, and application plane. The control plane includes an intelligent ship SDN network controller. The control plane interacts with the application plane through the northbound interface of the intelligent ship SDN network controller for data exchange and interacts with the

data plane through the southbound interface of the intelligent ship SDN network controller. The data plane includes intelligent ship masters, backup switches, first-level security network, second-level security network, and third-level security network. The external communication network includes SDN gateway/router, 4G/5G network communication devices, AIS/VDES communication devices, NAVDAT communication devices, BeiDou communication devices, and satellite communication devices. This invention designs an intelligent ship communication network system based on the SDN network architecture to ensure the flexibility, security, reliability, and real-time capability of the intelligent ship network.

21: 2023/08262. 22: 2023/08/28. 43: 2024/03/11 51: B25F; B27C 71: POWER BOX AG 72: PIKARSKI, Daniel 33: GB 31: 2101358.6 32: 2021-02-01 54: IMPROVEMENTS TO POWER TOOL APPARATUS 00: -

The invention relates to a power tool (2), a kit of parts, and method of controlling the operation of the same depending upon the configuration of use of the power tool (2) at an instant of time. The power tool (2) can, in one embodiment be a router power tool to perform work on a workpiece (32), and switching means (28, 42) allow the selective operation of the power tool (2) by controlling an electrical power source. First switching means (28) include a no Voltage release (NVR) function and means are provided to selectively disable the NVR function of the first switching means (28) when the power tool (2) is used in at least one predetermined configuration. Typically, this allows second switching means (42) which include a NVR function to be used to control the power to the tool (2). A fence body for use with a router is also disclosed.



21: 2023/08285. 22: 2023/08/28. 43: 2024/03/01 51: E01C; B23Q; E21B; F16P; G05D; H04W 71: JOY GLOBAL SURFACE MINING INC. 72: MALEGAM, Keshad, Darayas 33: US 31: 17/179,757 32: 2021-02-19 33: US 31: 17/179,765 32: 2021-02-19 54: SYSTEM AND METHOD FOR OPERATING A MINING MACHINE WITH RESPECT TO A GEOFENCE USING A DYNAMIC OPERATION ZONE 00: -

Systems and methods for operating a mining machine with respect to a geofence. One system includes an electronic processor configured to determine a first virtual operation zone positioned around the mobile industrial machine, where the first virtual operation zone is a dynamic area around the mobile industrial machine. The electronic processor is also configured to modify a parameter of the first virtual operation zone.



21: 2023/08286. 22: 2023/08/28. 43: 2024/03/01 51: B29C; B29D; B32B 71: TENSAR INTERNATIONAL CORPORATION 72: CURSON, Andrew, JENKINS, Tom, Ross, WALLER, Andrew, Edward, GALLAGHER, Daniel, John, BAKER, Daniel, Mark, TYAGI, Manoj, Kumar, CAVANAUGH, Joseph

33: US 31: 63/154,209 32: 2021-02-26 33: US 31: 63/154,588 32: 2021-02-26

#### 33: US 31: 17/355,843 32: 2021-06-23 33: WO 31: PCT/US2021/038863 32: 2021-06-24 54: HORIZONTAL MECHANICALLY STABILIZING GEOGRID WITH IMPROVED GEOTECHNICAL INTERACTION 00: -

Aspects of a geogrid system for improving substrate interactions within a geotechnical environment is disclosed. In one aspect features of a geogrid system aid in trapping and restraining aggregate and soil. In one aspect a geotechnical environment is configured with a horizontal multilayer mechanically stabilizing geogrid. In said aspect the geogrid is extruded with a polymeric material and a compressible cellular layer. In said aspect, the horizontal multilayer mechanically stabilizing geogrid is comprised of either a cap or a core of polymeric material or is further comprised of at least one compressible cellular layer configured to the polymeric material. Further, the horizontal multilayer mechanically stabilizing geogrid is configured with a triangle or triaxial geometry with patterned discontinuities and a plurality of strong axes. Said configuration increases soil and aggregate trapping while reducing polymeric use.



21: 2023/08299. 22: 2023/08/29. 43: 2024/03/06 51: C12N

71: Peking University

72: Xunde XIAN, Yuhui WANG, Wei HUANG, Ling ZHANG

# 54: A CONSTRUCTION METHOD OF IL-10 GENE NON-EXPRESSION HAMSTER MODEL

The present invention discloses a construction method of IL-10 gene non-expression hamster model, and the steps are as follows: S1. designing the specific targeting sequence of hamster IL-10 gene; S2. synthesis of templates and transcription into sgRNA; S3. mating the male and female hamsters, and collecting enough fertilized eggs after 17-20 h of mating; S4. fully mixing the sgRNA obtained by the step S2 with Cas9 mRNA and injecting into the cytoplasm of the fertilized egg obtained by the step S3 to obtain the fused fertilized egg; S5. the microinjected fertilized eggs with intact cell morphology are implanted into the oviducts of the surrogate hamsters, and the mice are normally cultured until the birth of the mice, the newborn hamsters are the F0 generation hamsters. The present invention provides a construction method of IL-10 gene non-expression hamster model, which can successfully construct IL-10 gene knockout hamster model. The method is simple, fast, safe and effective. IL 10 gene knockout is complete and the experimental animals are less painful. It can be used to study the relationship between IL 10 and lipid metabolism and As, and provide a strong experimental basis for elucidating its mechanism of action and the treatment of clinical cardiovascular diseases.



- 21: 2023/08300. 22: 2023/08/29. 43: 2024/03/06 51: C12N
- 71: Peking University

72: Xunde XIAN, Yuhui WANG, Wei HUANG, Ling ZHANG

## 54: A CONSTRUCTION METHOD OF APOC3 GENE NON-EXPRESSION HAMSTER MODEL 00: -

The invention discloses a construction method of ApoC3 gene non-expression hamster model, and the steps are as follows: S1. designing the target sequence; S2, obtaining sgRNA; S3. Collecting fertilized eggs and culture; S4. microinjection to obtain fusion fertilized eggs; S5. obtaining pseudopregnant mice; S6. fusion fertilized eggs were reinfused into the fallopian tubes of pseudopregnant mice, normally cultured until the mice were born, and the born hamsters were F0 generation hamsters. The present invention provides a construction method of ApoC3 gene nonexpression hamster model, which can successfully construct ApoC3 gene non-expression hamster model. The method is simple, fast, safe and effective, ApoC3 gene is not expressed, and the

experimental animals are less painful, it can be used to study the relationship and mechanism between ApoC3 and lipid metabolism and atherosclerosis, and provide a strong theoretical and experimental basis for the clinical treatment/cure of lipid metabolism and atherosclerosis diseases.

Primer P	
72bp	+1bp +140bp
	Exon 1 2 3 4
wт	AGTGCCAAGA GGGCAACAATGAGGAGCGTCCGG GGC
Chimera	AGTGCCAAGA GGGCAACAATG37 bp deletion

21: 2023/08301. 22: 2023/08/29. 43: 2024/03/06 51: G01N

71: Hainan University, Shenzhen Academy of Environmental Sciences, Hainan Qingxiao Environmental Testing Co., Ltd.

72: Wang Sai, Chen Xiao Dan, Cheng Gong, Wang Tuan Tuan, Wu En Ni, Tang Wang Qing, Yang Yu Qian, Zi Rong Mei, Yang Jia Lin, Tang Min
33: CN 31: 2022114375695 32: 2022-11-21
54: A PORTABLE WATER ENVIRONMENT EDNA SAMPLING DEVICE

00: -

This invention discloses a portable water environment eDNA sampling device, which relates to the field of water environment sampling technology. The portable water environment eDNA sampling device employs a filtering component. After the water passes through the PES filter, the filtering head is separated from the liquid conduit and the tubing by pulling it, and then the filtering head is placed into a sealed bag for sealing and marking. Hydrophilic plastic enables immediate drying and preservation of eDNA at ambient temperature. The samples are then stored at room temperature, awaiting batch processing. When batch processing is to be carried out, the top shell is first opened, and the filter membrane is then extracted. This method reduces the potential for sample contamination, eliminates the need for time-consuming ethanol and other slow filtering processes as in traditional methods, and improves work efficiency.



21: 2023/08302. 22: 2023/08/29. 43: 2024/03/06 51: G01N

71: China Tobacco Henan Industrial Co., Ltd. 72: Feng Bai, Weidong Duan, Bo Li, Xianghong Cheng, Zhiyong Wu

33: CN 31: 202211691493.9 32: 2022-12-28 54: AN EXTRACTION AND ANALYSIS METHOD OF CIGAR CHARACTERISTIC AROMA COMPONENT

00: -

The invention belongs to the technical field of cigar component extraction, and in particular provides an extraction and analysis method of cigar characteristic aroma component. The pre-treatment method of SPME combined with simultaneous distillation extraction (SDE) can effectively extract the main characteristic odorant components in cigars. The aroma components were characterized by gas chromatography-odor-mass spectrometry (GC-O-MS), and the key aroma substances contributing to the overall aroma characteristics of cigar were obtained. This provides an effective extraction and analysis method for the research and development of cigar style characteristics.



21: 2023/08303. 22: 2023/08/29. 43: 2024/03/06

## 51: B01D

71: Xi'an Yiyangze Environment Technology Co., Ltd.

72: SUN Xin, SUN Xiaoxiao, WANG Weiqiao, LI Haocheng

#### 54: FILTRATION DEVICE FOR SEWAGE TREATMENT 00: -

The invention discloses a filtration device for sewage treatment, which relates to the technical field of sewage treatment, and aims to solve the problems that the existing retention device only performs filtering operation in a simple way, which is easy to block the filtering holes, affect the discharge of sewage, and easily cause damage to organisms, and the practicability needs to be improved. According to the technical scheme of the invention, a floating box is included. The middle position of the lower surface of the floating box is provided with a connecting rod, one end of the connecting rod is fixedly connected with a separation cylinder, and the middle position of the upper surface of the separation cylinder is fixedly provided with a submersible motor. A separation rotating cylinder is fixedly installed at one end of the rotating shaft of the submersible motor, the separation rotating cylinder is located inside the separation cylinder, the lower end faces of the separation cylinder and the separation rotating cylinder are provided with openings with the same diameter, and an interlayer cavity is arranged between the separation rotating cylinder and the inner wall of the separation cylinder. The effect of ensuring continuous and stable biological retention operation and avoiding biological damage is achieved.



21: 2023/08304. 22: 2023/08/29. 43: 2024/03/06 51: C02F

71: Hainan University, Shenzhen Academy of Environmental Sciences

72: Wang Sai, Cheng Gong, Chen Xiao Dan, Wang Tuan Tuan, Wu En Ni, Tang Wang Qing, Chen Nan Lin, Wu Dong Hai

33: CN 31: 2022112506729 32: 2022-10-13 54: AN EMERGENCY TREATMENT SYSTEM FOR PREVENTING EUTROPHICATION IN RESERVOIR WATER BODIES USING OZONE TREATMENT 00: -

This invention discloses an emergency treatment system for preventing eutrophication in reservoir water bodies using ozone treatment. The system includes a filtration tank with a middle water tank located on its right side. The middle water tank is connected to a treatment tank on its right side. A ozone generator is positioned on the right side of the treatment tank, with a conduit connecting the ozone generator and the treatment tank. This invention pertains to the field of water treatment technology. The ozone-based emergency treatment system for preventing eutrophication in reservoir water bodies introduced here utilizes a transmission mixing

mechanism. This mechanism facilitates the use of water flow impact to provide the power necessary for mixing water bodies. This mixing ensures proper blending of ozone with the water, enhancing the efficiency of water improvement. By effectively preventing water eutrophication, the system eliminates the need for a motor to provide agitation, thus saving on operational costs. The system incorporates preliminary filtering of water bodies using a filter mesh. Additionally, a clamping mechanism is incorporated to facilitate rapid disassembly and assembly of the filter mesh, streamlining post-use cleaning of the filter mesh.



21: 2023/08305. 22: 2023/08/29. 43: 2024/03/06 51: B09B

71: Hainan University, Shenzhen Academy of Environmental Sciences, Hainan Qingxiao Environmental Testing Co., Ltd.
72: Wang Sai, Chen Xiao Dan, Cheng Gong, Wang Tuan Tuan, Wu En Ni, Tang Wang Qing, Wu Dong Hai, Wang Xiao Di, Feng Yu, Tang Min 33: CN 31: 2022114618790 32: 2022-11-21

## 54: AN EXPERIMENTAL APPARATUS FOR STUDYING THE BIODEGRADATION OF PLASTICS

00: -

The present invention discloses an experimental apparatus for studying the biodegradation of plastics, relating to the field of plastic degradation technology. The apparatus includes a container body with evenly fixed partitions connected to the bottom of the cavity of the container body. In order to study the biodegradation of plastics, the experimental apparatus is equipped with three containers. Among these, two containers utilize top blocks to compress airbags, allowing the addition of bacterial solution while transporting plastic fragments. Additionally, above the first top block position in the counterclockwise direction, a container is equipped with a simulated sunlight lamp. Among the containers, the one containing only plastic fragments serves as a blank control group, the container containing both plastic fragments and bacterial solution serves as the first experimental group, and the container containing plastic fragments, bacterial solution, and a simulated sunlight lamp serves as the second experimental group. By comparing the different situations within these three experimental groups, the biodegradation of plastics can be accurately assessed. This includes determining the impact of microorganisms on plastic degradation, as well as the effect of illumination on microbial digestion and degradation. Ultimately, this enhances the accuracy of the experiments conducted.



21: 2023/08307. 22: 2023/08/29. 43: 2024/03/06 51: C04B

71: Henan University of Urban Construction 72: ZHANG, Jianwu, JIN, Biao, WANG, Xiao, MA, Xianwei, LI, Zhixin, XUE, Kaiwang, LUO, Qing 54: HIGH EARLY STRENGTH IMPERMEABLE CEMENT-BASED GROUTING MATERIAL, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF 00: -

The present invention belongs to the technical field of grouting materials, and particularly relates to a high early strength impermeable cement-based grouting material and a preparation method therefor. The high early strength impermeable cement-based grouting material provided by the present invention includes the following components in parts by weight: 70 - 85 parts of sulfoaluminate cement, 10 -20 parts of coal ash, 25 - 40 parts of magnesium oxide, 8 - 10 parts of potassium dihydrogen phosphate, 5 - 10 parts of a suspending agent, 0.75 - 1.25 parts of a water reducer, 1.0 - 2.5 parts of a retarder, 0.05 - 0.2 part of graphene oxide and 50 - 60 parts of water. By adding graphene oxide, internal defects of hydrated microstructures in early hydration period of the sulfoaluminate cement-based grouting material in the present invention can be effectively reduced.

21: 2023/08308. 22: 2023/08/29. 43: 2024/03/06 51: C02F

71: BGRIMM TECHNOLOGY GROUP 72: SHAO, Linan, YANG, Xiaosong, SUN, Chao 54: SELECTIVE ADSORBENT MATERIAL FOR TREATING BERYLLIUM-CONTAINING WASTEWATER, PREPARATION METHOD THEREOF AND METHOD FOR TREATING BERYLLIUM-CONTAINING WASTEWATER USING SAME

00: -

Disclosed is a selective adsorbent material for treating beryllium-containing wastewater, a preparation method thereof and a method for treating beryllium-containing wastewater using same. The method comprises: mixing activated carbon with nitric acid, heating at 50-80°C for 2-3 h, washing to neutral, drying at constant temperature of 80-110°C to obtain modified activated carbon; mixing aluminum chloride, ethanol, maleimide and mercaptoethylamine to obtain a supported solution; mixing the modified activated carbon, the supported solution and 4- (N-maleimidomethyl) cyclohexane-1carboxylic acid 3- sulfo- N-hydroxysuccinimide ester sodium salt, adding ammonium hydroxide to adjust a pH value to 9-10, conducting first heat treatment and second heat treatment successively to obtain a primary adsorbent material; cleaning the primary adsorbent material and conducting vacuum drying to obtain the selective adsorbent material for treating beryllium-containing wastewater. The material prepared enables the wastewater after treatment to reach the limit of the integrated wastewater discharge standard.

21: 2023/08309. 22: 2023/08/29. 43: 2024/03/06 51: C02F

71: BGRIMM TECHNOLOGY GROUP 72: SHAO, Linan, YANG, Xiaosong, LI, Yonghui 54: SELECTIVE ADSORBENT MATERIAL FOR TREATING SELENIUM-CONTAINING WASTEWATER, PREPARATION METHOD

## THEREOF AND METHOD FOR TREATING SELENIUM-CONTAINING WASTEWATER USING SAME

00: -Disclosed is a selective adsorbent material for treating selenium-containing wastewater, a preparation method thereof and a method for treating selenium-containing wastewater using same. The preparation method comprises: conducting heat treatment of activated carbon with nitric acid, then washing to neutral, and drying at constant temperature to obtain modified activated carbon; mixing magnesium chloride, ethanol, dodecyl trimethyl ammonium chloride and 2-hydroxy-1-ethanethiol to obtain a supported solution; mixing the modified activated carbon, the supported solution and 4- (N-maleimidomethyl) cyclohexane-1carboxylic acid 3- sulfo- N-hydroxysuccinimide ester sodium salt, adding ammonium hydroxide to adjust a solution pH value to 10-11, and conducting first heat treatment and second heat treatment successively to obtain a primary adsorbent material; cleaning the primary adsorbent material and then conducting vacuum drying. The material prepared by the method provided in the present application enables the wastewater after treatment to reach primary standard limit (0.1 mg/L) for integrated wastewater discharge.



21: 2023/08314. 22: 2023/08/29. 43: 2024/02/29 51: A61B

71: NANTONG MATERNITY AND CHILD CARE HOSPITAL

72: ZHANG, Haibo, ZHANG, Lin, WANG, Wenwen, WU, Le, WANG, Xingmin, CHEN, Zhifang, ZHANG, Liqin, DONG, Hongli

#### 54: REMOTE FETAL HEART MONITORING SYSTEM BASED ON WEARABLE ULTRASONIC COMPOSITE SPEAKER 00: -

The present disclosure provides a remote fetal heart monitoring system based on a wearable ultrasonic composite speaker. The system includes a wearable ultrasonic composite speaker, a monitoring and

detection system, a remote server, and user terminals. The system can not only obtain detection data by using ultrasound, but also directly obtain real-time detection results through models or false grabbing based on detection images acquired by passive detection speakers, so that the randomness of samples is effectively avoided and the reliability of the output results is greatly improved.



21: 2023/08315. 22: 2023/08/29. 43: 2024/02/29 51: A01N

## 71: INNER MONGOLIA ACADEMY OF AGRICULTURAL & ANIMAL HUSBANDRY SCIENCES

72: WU, Haiqing, SU, Shaofeng, QIAO, Jianmin, TERI, Gele, TIAN, Jing, JIA, Xiaoqing, MA, Yuejun, SUN, Peipei, BAI, Jinyu

#### 33: CN 31: 2023107110764 32: 2023-06-15 54: HIGH-EFFICIENCY ANTIOXIDANT DONKEY SPERM DILUENT, PREPARATION METHOD THEREFOR AND USE THEREOF 00: -

The present invention relates to the technical field of livestock sperm antioxidation, and provides a highefficiency antioxidant donkey sperm diluent, a preparation method therefor and use thereof. The high-efficiency antioxidant donkey sperm diluent comprises a base solution and an additive, wherein the base solution comprises the following components in each 1000 mL of water by weight: 30-60 g of glucose, 4-6 g of 4-

hydroxyethylpiperazine ethyl sulfonate sodium salt, 12-24 g of skimmed milk powder, and 0.5-1.1 g of potassium citrate; and the additive comprises the following components in each 1000 mL of the base solution by weight: 5-10 mg of sulforaphane, 0.1-0.2 mg of stigmasterol, 40-100  $\mu$ g of an enrofloxacin concentrated solution, and 3-5 mg of ceftiofur sodium. The present invention can effectively improve the conception rate of female donkeys, reduce the incidence rate of metritis, and improve sperm motility in vitro.



21: 2023/08316. 22: 2023/08/29. 43: 2024/02/29 51: A61K

71: INNER MONGOLIA ACADEMY OF AGRICULTURAL & ANIMAL HUSBANDRY SCIENCES

72: WU, Haiqing, SU, Shaofeng, QIAO, Jianmin, TERI, Gele, TIAN, Jing, JIA, Xiaoqing, MA, Yuejun, SUN, Peipei, BAI, Jinyu

#### 33: CN 31: 2023107110923 32: 2023-06-15 54: DILUENT FOR PROMOTING ENERGY SUPPLY OF DONKEY SPERMS, PREPARATION METHOD THEREFOR AND USE THEREOF 00: -

The present invention relates to the technical field of energy supply of livestock sperms, and provides a diluent for promoting energy supply of donkey sperms, a preparation method therefor and use thereof. The diluent for promoting energy supply of donkey sperms comprises a base solution and an additive, wherein the base solution comprises the following components in each 1000 mL of water by weight: 30-60 g of glucose, 4-6 g of 4hydroxyethylpiperazine ethyl sulfonate sodium salt, 12-24 g of skimmed milk powder, and 0.5-1.1 g of potassium citrate; and the additive comprises the following components in each 1000 mL of the base solution by weight: 200-800 mg of NADH, 40-100 µg of an enrofloxacin concentrated solution, and 3-5 mg of ceftiofur sodium. According to the present invention, the addition of a proper amount of enrofloxacin and ceftiofur sodium can effectively reduce the probability of metritis of the female donkey, ensures the healthy uterine environment of the female donkey, and promotes the application and popularization of the deep horn insemination mode, thus providing a powerful guarantee for improving the conception rate.



21: 2023/08319. 22: 2023/08/29. 43: 2024/03/08 51: B01D; C01C

71: JIANGNAN ENVIRONMENTAL PROTECTION GROUP INC.

72: ZHANG, Jun, LUO, Jing, XU, Tianqi 33: CN 31: 202110510852.5 32: 2021-05-11 54: INTEGRATED AMMONIA-BASED DESULFURIZATION AND DECARBONIZATION APPARATUS AND METHOD 00: -

The present invention is applicable to the desulfurization and decarbonization of a process gas containing sulfur oxides and CO2, and belongs to the field of environmental protection. Ammonia is used as a desulfurizing and decarbonizing agent. The gas enters first a desulfurization apparatus for desulfurization, to produce an ammonium sulfate fertilizer. The desulfurized gas enters a decarbonization apparatus to remove carbon dioxide in the gas, and to produce an ammonium bicarbonate fertilizer. The decarbonized gas, that contains free ammonia, is washed with a desulfurization circulating fluid and then with water. The washing fluids are returned to the desulfurization tower for use as an absorbing agent for desulfurization. This technology integrates decarbonization and desulfurization technologies organically, and uses acidic desulfurization circulating fluid to wash ammonia, thereby achieving a high ammonia washing efficiency and solving the ammonia slip problem suffered by decarbonization processes. The process is simpler, the investment and operation costs are low, ammonium sulfate and ammonium bicarbonate fertilizers are co-produced, and there is no need to inject all of CO2 back to underground for sequestration. Rather, part of CO2 can be used to produce downstream products such as urea, soda ash, etc. The product mix can be flexibly adjusted, and by-product ammonia can be

used, thereby realizing treating wastes with wastes and a circular economy.



21: 2023/08336. 22: 2023/08/29. 43: 2024/03/06 51: B03C

71: TANGSHAN DINGHUI FOOD CO., LTD.
72: Chen Hongling, Liu Xiaowei
54: AUTOMATIC FEEDING DEVICE FOR CORN
STARCH PROCESSING
00: -

The present invention discloses an automatic feeding device for corn starch processing, and The device includes a base, specifically, a circulating material selection mechanism is rotatably installed at a top end of the base, and a steady-flow feeding mechanism is installed on an outer side of the circulating material selection mechanism. According to the present invention, self-weight of corn kernels can be effectively used to drive rolling inner barrels to rotate so as to separate the corn kernels from impurities, and a magnetic repulsion force is used to provide the rolling inner barrels with an auxiliary driving force so that a friction force in a process of screening the corn kernels can be effectively offset to screen more stably and efficiently, thus realizing circulating screenings of the corn kernels and greatly improving stability and reliability of screening the corn kernels.



21: 2023/08338. 22: 2023/08/29. 43: 2024/03/06 51: F16C 71: EVAPCO, INC. 72: VADDER, Davey Joe 33: US 31: 17/190,306 32: 2021-03-02 54: BEARING PROTECTOR 00: -

A split bearing protector with a flexible design that adds improved moisture protection to a bearing and can be installed without removing the bearing from the machine in which it is installed.



21: 2023/08346. 22: 2023/08/30. 43: 2024/03/11 51: A01G

71: Zhuhai City Polytechnic

72: ZHU, Shaoping, YANG, Yu, QIU, Xiaoqun, ZHU, Ping, LIU, Yujie

#### 33: CN 31: 2023209079600 32: 2023-04-21 54: AGRICULTURAL PRECISION PLANTING SYSTEM BASED ON BIG DATA 00: -

Disclosed is an agricultural precision planting system based on big data. According to the agricultural precision planting system based on big data, by using a wireless communication network technology, a main control box is electrically connected to a pantilt with a pest and disease information database, and relevant data are obtained by various sensor nodes deployed in an agricultural production site, remote accurate monitoring of an agricultural production environment and pest and disease monitoring are realized, and further, pest and disease information is determined by using the pest and disease information database of the big data component; and further, by using a manner that a liquid pesticide storage tank matches a plurality of liquid pesticide spraying pipes, liquid pesticide in the liquid pesticide storage tank can be quickly transported to the liquid pesticide spraying pipes under action of a booster pump.



21: 2023/08347. 22: 2023/08/30. 43: 2024/03/11 51: E01D

71: ROAD AND BRIDGE INTERNATIONAL CO., LTD., ROAD AND BRIDGE SOUTH ENGINEERING Co., LTD.

72: HUANG, Can, LI, Lingyu, LIU, Zhihong, LI, Ming, WANG, Yuhang, CHEN, Songzhou, DAI, Heng, ZHANG, Suo

33: CN 31: 202320081144.9 32: 2023-01-12 54: LIMIT ADJUSTING DEVICE FOR HORIZONTAL SWIVEL CONSTRUCTION 00: -

Disclosed is a limit adjusting device for horizontal swivel construction. The limit adjusting device for horizontal swivel construction includes a limiting main beam, where the limiting main beam is made of an I-beam, and the I-beam is inverted and welded on

a circular steel plate located on a lower rotary table; an arm-brace is provided in front of the limiting main beam, a movable limiting steel plate assembly is provided between the arm-brace and the limiting main beam, and the movable limiting steel plate assembly is formed by combining at least two steel plates with thicknesses of a steel plate having a thickness of 1 mm, a steel plate having a thickness of 2 mm, a steel plate having a thickness of 4 mm, a steel plate having a thickness of 10 mm and a steel plate having a thickness of 20 mm.



21: 2023/08348. 22: 2023/08/30. 43: 2024/03/12 51: C22C; E21C

71: Lanzhou University of Technology

72: DU, Xueyan, LI, Bin, SHEN, Yingying, LI, Jinlin, SUN, Mingxuan, YANG, Lushun
33: CN 31: 2023107142197 32: 2023-06-16
54: METHOD FOR PREPARING IRON-BASED

## ALLOY AND MAGNETIC HIGH-ENTROPY ALLOY BY USING IRON-RICH METALLURGICAL SLAG 00: -

The present disclosure provides a method for preparing an iron-based alloy and a magnetic highentropy alloy by using iron-rich metallurgical slag, and relates to the technical field of resource utilization of metallurgical slag. In the present disclosure, the iron-containing phase in the iron-rich metallic slag is reconstructed at high temperature through molten oxidation, and the elements of Fe, Ni, Co and Cu are transformed into (Fe, Ni, Co, Cu)Fe2O4 magnetite phase, then the magnetite is extracted and recovered through magnetic separation, and then the iron-based alloy with low impurity content is prepared by using the coal-based direct reduction melting and separation process, which realizes the co-enrichment and efficient extraction and recovery of Fe, Ni, Co and Cu. The obtained iron-based alloy, Ni, Co and Cu are subjected to vacuum melting to obtain magnetic high-entropy alloy (FeNiCo)100-xCux.



21: 2023/08349. 22: 2023/08/30. 43: 2024/03/12 51: H01F

71: Lanzhou University of Technology

72: DU, Xueyan, LI, Bin, SHEN, Yingying, YAN, Pengze, HUANG, Ziniu, CHONG, Junkai, ZHANG, Wenjuan

## 54: NICKEL WAVE-ABSORBING MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention provides a nickel waveabsorbing material and a preparation method and application thereof in the technical field of electromagnetic wave absorbing materials. The nickel wave-absorbing material, provided by the present invention, includes the following components by mass percentages: 58 to 78 percent barium ferrite, 15 to 35 percent silicon dioxide, 5 to 10 percent nickel oxide, and 7 to 10 percent aluminum oxide. The present invention provides a nickel waveabsorbing material containing barium ferrite, which has a high saturation magnetization, coercivity, and magneto-crystalline anisotropy constant and can be used as an electromagnetic wave absorber. The resulting nickel wave-absorbing material has a low minimum reflection loss of less than or equal to -25 decibels and excellent wave-absorbing performance.

71: Lanzhou University of Technology

72: DU, Xueyan, LI, Bin, SHEN, Yingying, CHONG, Junkai, HUANG, Ziniu, YAN, Pengze, ZHANG, Wenjuan

54: LEAD-ZINC WAVE-ABSORBING MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention provides a lead-zinc waveabsorbing material and a preparation method and

<sup>21: 2023/08350. 22: 2023/08/30. 43: 2024/03/12</sup> 51: H01F

application thereof in the technical field of electromagnetic wave absorbing materials. The lead-zinc wave-absorbing material, provided by the present invention, includes the following components by mass percentages: 46 to 65 percent barium ferrite, 23 to 45 percent silicon dioxide, 3 to 7 percent zinc oxide, and 2 to 4 percent lead oxide. The present invention provides a lead-zinc waveabsorbing material containing barium ferrite, which has a high saturation magnetization, coercivity, and magneto-crystalline anisotropy constant and can be used as an electromagnetic wave absorber. The resulting lead-zinc wave-absorbing material has a low minimum reflection loss of less than or equal to -30 decibels and excellent wave-absorbing performance.

21: 2023/08351. 22: 2023/08/30. 43: 2024/03/12 51: H01F

71: Lanzhou University of Technology 72: DU, Xueyan, LI, Bin, SHEN, Yingying, HUANG, Ziniu, CHONG, Junkai, YAN, Pengze, ZHANG, Wenjuan

## 54: COPPER WAVE-ABSORBING MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention provides a copper waveabsorbing material and a preparation method and application thereof in the technical field of electromagnetic wave absorbing materials. The copper wave-absorbing material, provided by the present invention, includes the following components by mass percentages: 55 to 75 percent barium ferrite, 25 to 50 percent silicon dioxide, 2 to 7 percent cupric oxide, and 1 to 4 percent aluminum oxide. The present invention provides a copper wave-absorbing material containing barium ferrite, which has a high saturation magnetization, coercivity, and magneto-crystalline anisotropy constant and can be used as an electromagnetic wave absorber. The resulting copper waveabsorbing material has a low minimum reflection loss of less than or equal to -20 decibels and excellent wave-absorbing performance.

21: 2023/08352. 22: 2023/08/30. 43: 2024/03/12 51: G01N 71: No.24 China Railway Group Fujian Railway Construction Co., Ltd., Dalian University of Technology, Engineering Quality Supervision Station, China Railway Nanchang Group Co., Ltd.
72: TANG, Shibin, CHEN, Ximao, XU, Lizhong, LIN, Yu, ZHENG, Yi, WANG, Zhengzheng, WANG, Yuepeng, LI, Jiaming

#### 54: METHOD FOR REAL-TIME WAVE VELOCITY MEASUREMENT AND QUALITY EVALUATION OF ROCK MASS 00: -

Disclosed is a method for real-time wave velocity measurement and quality evaluation of a rock mass. The method includes: determining a distance between an ultrasonic transmission apparatus and each ultrasonic reception apparatus; obtaining ultrasonic transmission time of the ultrasonic transmission apparatus and ultrasonic reception time of each ultrasonic reception apparatus in real time; computing a real-time wave velocity of an ultrasonic wave in a current rock mass in real time according to the distance between the ultrasonic transmission apparatus and a current ultrasonic reception apparatus, the ultrasonic transmission time and the ultrasonic reception time of the current ultrasonic reception apparatus; drawing a time-wave velocity diagram of the current rock mass according to the real-time wave velocity in a preset time period; and determining quality of the current rock mass according to the time-wave velocity diagram of the current rock mass.



21: 2023/08353. 22: 2023/08/30. 43: 2024/03/12 51: A61K

71: Kunming University of Science and Technology 72: WANG, Feng, LIU, Weixin, TANG, Zhongqiong, LIN, Lianbing

#### 54: APPLICATION OF FUSION PEPTIDE IN INHIBITING BACTERIAL BIOFILM FORMATION DURING PREVENTION AND TREATMENT OF SKIN WOUND INFECTION 00: -

The present invention relates to the field of biological control, in particular to application of a fusion peptide in inhibiting bacterial biofilm formation during prevention and treatment of skin wound infection. The present invention provides application of a fusion peptide in preparing a biocontrol agent for preventing and treating skin wound infection, the fusion peptide includes a lyase MMPphg and a collagen binding peptide; and the collagen binding peptide is a collagen binding peptide PIGF2. According to the present invention, the fusion peptide can effectively prevent and treat bacterial biofilm infection of skin wounds, effectively inhibit formation of biofilms of Staphylococcus aureus and Pseudomonas aeruginosa, and has a small effective using amount and a certain popularization and application value.



## 21: 2023/08357. 22: 2023/08/30. 43: 2024/03/05 51: E21D

71: Xuzhou Huadong Machinery Co.LTD. 72: Jing ZHUANG, Qiang SUN, Lin LI, Haijun LYU, You LI, Xiaojun ZHU, Xin FENG, Xiangjun WANG, Fukang TENG, Dan LI, Sheng XU, Jian HUANG, Wenlong MIAO, Xiaoyun ZHANG, Zixian SHAN 54: A FOUR-PILLAR SHIELD HYDRAULIC SUPPORT FOR EXTREMELY THIN COAL SEAM 00: -

The present invention discloses a four-column shield hydraulic support for extremely thin coal seam, including a base, two rows of columns symmetrically arranged on the base, four columns arranged on the base, a hydraulic system arranged on the column, a top beam arranged on the top of the column, the right side of the top beam is hinged with the shield beam through the first pin, the lower part of the shield beam is provided with a front connecting rod and a rear connecting rod, the front connecting rod and the rear connecting rod are connected with the base, the middle part of the base is provided with a moving jack, the two sides of the moving jack are provided with a pressure block, the output end of the moving jack is provided with a rear push rod, and the rear push rod is connected with the front push rod. The forward putter tilt setting is described. The invention adopts the above-mentioned four-column shield hydraulic support for extremely thin coal seam, and the support strength is greater.



21: 2023/08361. 22: 2023/08/30. 43: 2024/03/11 51: G06F

71: ADRIAN NEIL STANLEY

#### 72: ADRIAN NEIL STANLEY 54: A SYSTEM FOR REVIEWING AND/OR SIGNING AN ELECTRONIC DOCUMENT, AND A METHOD OF REVIEWING AND/OR SIGNING A DOCUMENT ELECTRONICALLY 00: -

According to a first aspect of the invention, there is provided a system for reviewing and/or signing an electronic document, the system including one or more of the following: a digital reference, operable to enable a user access to additional multimedia content, wherein said reference is embedded into the electronic document at a predetermined position within the document. In an embodiment of the invention, said digital reference is provided in the form of a widget embedded into the document. In this embodiment, said widget is operable to provide a user with additional multimedia content that the user can follow or be guided to by clicking or tapping on the widget. In an embodiment of the invention, the additional multimedia content is provided in the form of predetermined audio and/or video and/or text-based content. In this embodiment of the invention, said predetermined audio and/or video and/or text-based content is provided in the example form of a contextual audio and/or video and/or textbased explanation of specific content within the document.



21: 2023/08365. 22: 2023/08/30. 43: 2024/03/12 51: G01N

71: BEIJING JINWOFU BIOENGINEERING TECHNOLOGY CO., LTD 72: WANG. Li

33: CN 31: 202211193877.8 32: 2022-09-28 54: TEST STRIP AND KIT FOR DETECTING HELICOBACTER PYLORI (HP) 00: -

The present disclosure relates to the technical field of microorganism detection, and in particular to a test strip and a kit for detecting Helicobacter pylori (HP). The test strip includes a test line; the test line is prepared from a monoclonal antibody for detecting the HP; and the monoclonal antibody is prepared from an antigen shown in SEQ ID NO: 1 as an immunogen, and monoclonal antibodies prepared from the antigen each have a high specificity. The present disclosure further provides a test strip including the monoclonal antibody prepared from the antigen and a corresponding kit, which can quickly and accurately detect the HP.



21: 2023/08398. 22: 2023/08/30. 43: 2024/03/05 51: B23C; B23Q 71: NORINCO GROUP AIR AMMUNITION RESEARCH INSTITUTE CO., LTD. 72: XU, Shixiang

#### 33: CN 31: 202211353740.4 32: 2022-11-01 54: CLAMPING DEVICE FOR AUTOMATIC MILLING OF FLAME-RETARDANT EPOXY GLASS CLOTH FOUR-LAYER LAMINATED CIRCUIT BOARD 00: -

Disclosed is a clamping device for automatic milling of a flame-retardant epoxy glass cloth four-layer laminated circuit board. The invention relates to a clamping device for mill-forming of circuit boards. The invention aims to solve the problems encountered during the production of circuit boards in the prior art, including the potential damage caused to a joint between a daughter board and a mother board due to manual force, resulting in potential risks to the quality of the daughter board; the labor-intensive nature of manual separation resulting in low production efficiency; and the inconsistent quality of the joint between the daughter board and the mother board after manual separation. The clamping device comprises a guiding and supporting component, a connecting and insulating component and a positioning and clamping component; the connecting and insulating component is installed on the guiding and supporting component, a positioning bottom plate fixing plate is installed on the connecting and insulating component, and a lower positioning plate is installed on a positioning bottom plate; and two positioning plate take-out handles are fixedly installed on the lower positioning plate, an upper clamping plate is rotatably connected to the positioning bottom plate, two locking blocks are installed on a bottom end of the lower positioning plate, and a pressing sponge is installed on an inner surface of the upper clamping plate. The invention belongs to the field of automatic milling of circuit boards.



- 21: 2023/08403. 22: 2023/08/31. 43: 2024/03/05
- 51: H01G
- 71: Suzhou University
- 72: CHEN, Chong, SUN, Li

54: HIGHLY-WRINKLED POROUS CARBON NANOSHEET AND PREPARATION METHOD THEREFOR 00: -

The present invention belongs to the field of carbon materials, and particularly relates to a highlywrinkled porous carbon nanosheet and a preparation method therefor. The preparation method for the highly-wrinkled porous carbon nanosheet is provided by the present invention and includes: uniformly mixing polyethylene and melamine to obtain a mixture precursor; pyrolyzing the mixture precursor in inert gas to obtain the highly wrinkled porous carbon nanosheet. According to the present invention, the polyethylene is used as a raw material, the melamine is used as an expanding agent, in a heating process, the polyethylene is melted at first, then a large amount of chemical gas is released by pyrolysis of the melamine to inflate the melted polyethylene, and finally, the highlywrinkled porous carbon nanosheet is obtained by pyrolysis in the range of 600-900 degree Celsius.



21: 2023/08405. 22: 2023/08/31. 43: 2024/03/05
51: C10B
71: Xinjiang University
72: Ren tiezhen, Yuan xinhua
54: A BIOMASS CARBON MATERIAL AND ITS
PREPARATION PROCESS

00: -

This invention discloses a biomass carbon material and its preparation process. Specifically, it involves immersing biomass material in a water solution containing acetic acid for dehydration, followed by grinding it into powder. Subsequently, the material is carbonized under an inert atmosphere to obtain the biomass carbon material. This process is simple, controllable, requires low equipment demands, has low operational costs, and can be easily scaled up for engineering applications using methods such as tubular furnaces or fluidized bed reactors. This advancement contributes to optimizing the performance of nanocarbon materials and their application in fields such as electrochemical energy storage and electronic devices.



21: 2023/08406. 22: 2023/08/31. 43: 2024/03/05 51: A61K 71: HENAN INTEGRATED MEDICINE HOSPITAL

#### 72: REN, Xiaode, LIU, Changhe, LI, Huani, WANG, Yanyan, ZHANG, Mingli, ZHANG, Xuexia, LIU, Hongyi, CHEN, Shenghu, JIAN, Dandan 54: EXTRACTION PROCESS OF PIGEON PEA LEAF EXTRACT 00: -

The present invention discloses an extraction process of a pigeon pea leaf extract, specifically comprising the following steps: material selection, crushing, ultrasonic extraction with hot ethanol, treatment of DA201, adsorption, elution with 95% ethanol, recovery of ethanol, treatment of NKA-9, water elution, elution with 60% ethanol, concentrating, sample mixing, column packing and three elutions. The present invention has the advantages of wide sources of raw materials, low price, simple extraction process, and simple chromatography process, and the separated compound has high purity, with purity of more than 95% by a high performance liquid normalization method, and can be used as a reference substance.

21: 2023/08407. 22: 2023/08/31. 43: 2024/03/05 51: G06F

71: Anhui Polytechnic University

72: Jiufang PÉI, Jinshi CHENG, Siyang YANG, Manman XU, Zhen ZHANG, Hai WANG 54: SIGNAL TRANSMISSION MECHANISM OF CONTROL SYSTEM OF EDUCATIONAL ROBOT 00: -

Disclosed is a signal transmission mechanism of a control system of an educational robot. The signal transmission mechanism of a control system of an educational robot includes: a personal computer (PC), a peripheral component interconnect (PCI) bus, a central control panel and robot joint control units, where the PC is connected to the central control panel through the PCI bus, the robot joint control units each include a motion control card, a servo driver, an alternating current servo motor, an encoder connected to the alternating current servo motor and an input/output (IO) signal receiver, and the robot joint control units are sequentially a first robot joint control unit, a second robot joint control unit, a third robot joint control unit, a fourth robot joint control unit, a fifth robot joint control unit and a sixth robot joint control unit. According to the present invention, the signal transmission mechanism of a control system of an educational robot is adopted, and serial design is performed, such that wiring is



simple and convenient, and a plugging error rate is greatly reduced.

21: 2023/08412. 22: 2023/08/31. 43: 2024/03/05 51: G06F

71: COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD.

72: YANG, Bin, YU, Yang, ZHANG, Baoqing, ZHANG, Libin, ZHUANG, Li

33: CN 31: 202310987327.1 32: 2023-08-07 54: METHOD FOR MYSQL INCREMENTAL DATA REAL-TIME SYNCHRONIZATION, COMPUTER-READABLE STORAGE MEDIA

00: -The method for MYSQL incremental data real-time synchronization, computer-readable storage media disclosed by some embodiments; the method includes steps: S1, Using Canal to monitor database changes, obtain incremental data, and send incremental data to Kafka; S2, Using Structured Streaming to read the data stream of Kafka, perform real-time processing and analysis, and write it into the external system to realize the synchronization of incremental data. Mysql incremental real-time data synchronization method, data acquisition and analysis processes based on Canal. Kafka and

analysis processes based on Canal, Kafka and Structured Streaming include the steps of installing and config Canal, connecting and synchronization data to Kafka, reading Kafka data using Structured Streaming, defining data structure and conversion operations, performing flow data processing logic, and output results or storing data to an external system. Mysql real-time incremental data synchronization method can realize real-time data acquisition, flow data processing and analysis, with high reliability, low latency and powerful data processing power.



21: 2023/08413. 22: 2023/08/31. 43: 2024/03/05 51: B65F

71: SHENZHEN TECHNOLOGY UNIVERSITY 72: WANG, Yanyan, HE, Zhan, YIN, Xiaohong 54: GARBAGE CLASSIFICATION METHOD BASED ON VOICE CLASSIFICATION, DEVICE THEREFOF, TERMINAL THEREFOF AND STORAGE MEDIUM THEREFOF 00: -

Disclosed are a garbage classification method based on voice classification, a device thereof, a terminal thereof and a storage medium thereof. After the collecting the voice signal representing the garbage name, the voice signal is converted into an Fbank feature map by characteristics extraction. Then the Fbank feature map is classified using a model obtained by performing transfer learning on the AST network to obtain the garbage category. The Fbank feature map can be trained as the input layer of the AST network, and the trained model can reason about the Fbank feature map and directly output related category. Compared with the process of semantic judgment after voice recognition of voice signals, the present disclosure does not require establishing a language model, the processor is simpler. At the same time, the recognition results of short voice signals such as garbage names are more accurate and stable.



## 21: 2023/08446. 22: 2023/09/01. 43: 2024/03/11 51: A01G

71: Gansu Desert Control Research Institute 72: HU, Jing, DUAN, Huirong, HU, Xiaoke, WAN, Shuxing, YU, Qiushi, CHEN, Sihang, XIAO, Bin, WANG, Zhongwen

#### 54: PLUG SEEDLING AND STRENGTHENING METHOD FOR LYCIUM RUTHENICUM 00: -

The present invention provides a plug seedling and strengthening method for Lycium ruthenicum, and belongs to the technical field of forest and grass cultivation. The method includes the following steps: soaking Lycium ruthenicum seeds with 1 percent potassium permanganate to disinfect the Lycium ruthenicum seeds; soaking the disinfected seeds in 35 - 45 degrees Celsius warm water for 20 - 30 h; then putting the seeds in a tray containing a vermiculite substrate; then covering the seeds with the substrate; watering the seeds every day to make the water content of the substrate reach 80%; performing accelerating germination at 20 - 35 degrees Celsius for 5 - 6 d; and irrigating the with a nutrient solution, where the nutrient solution based on an improved 1/2 Hogland nutrient solution further includes NaCl with the molar concentration being 25 - 100 mM.

21: 2023/08449. 22: 2023/09/01. 43: 2024/03/11 51: B21J

71: Anhui Polytechnic University

72: Jiufang PEI, Jinshi CHENG, Hai WANG, Chunlai YANG, Yanchang ZHENG

#### 54: A STABLE AND EASY-TO-UPGRADE ROBOT CONTROL SYSTEM FOR FORGING PROCESSING

#### 00: -

The invention discloses a stable and easy-toupgrade robot control system for forging processing, which belongs to the field of industrial automation technology, including an industrial computer for system management, trajectory planning and condition monitoring, a multi-axis motion control card for motion control, a servo driver for receiving control command pulses and driving AC motors, and servo motors and encoders for driving each joint of the robot to run as required. The industrial computer is connected to the multi-axis control card through the bus, the multi-axis motion control card is connected to the servo driver through the interface board, the servo driver is connected to the servo motor, and the encoder is installed on the axis of the servo motor. The invention adopts a stable and easy-to-upgrade robot control system for forging processing with the above structure, which is stable and reliable, the hardware system is easy to upgrade, the openness is good, the real-time performance is high, the software interface is friendly, the code is open, and it is easy to modify and upgrade the system function.



21: 2023/08450. 22: 2023/09/01. 43: 2024/03/11 51: A61B; G08B

71: Anhui Polytechnic University

72: Jiufang PEI, Jinshi CHENG, Siyang YANG, Manman XU, Zhen ZHANG, Hai WANG 54: A FRONT-END DEVICE OF A SMALL MEDICAL TRACKING AND MONITORING SYSTEM 00: -

The present invention discloses a front-end device of a small medical tracking and monitoring system, including a wireless transmitting module and a wireless receiving module; the wireless transmitting module is equipped with temperature sensor, pulse sensor, blood pressure sensor, signal conditioning circuit and ZigBee wireless transmitting module; the wireless receiving module includes ZigBee wireless receiving module, LCD display module, Ethernet controller, RAM storage module. The invention adopts the front-end device of the above-mentioned small medical tracking and monitoring system to realize the comprehensive collection and transmission of body temperature, blood pressure and pulse, and is small in size and easy to carry.



21: 2023/08451. 22: 2023/09/01. 43: 2024/03/11 51: C03B

71: Anhui Polytechnic University

72: Songsong LU, Youyu LIU, Hongwei LI, Yi LI, Guodong HU

## 33: CN 31: 2023105390722 32: 2023-05-11 54: SHEAR SLIP GLASS SEPARATION DEVICE AND ITS OPERATION METHOD

00: -

The invention relates to the field of glass separation technology, in particular to a shear slip glass separation device and its operation method, including a base, a shear slip component which is fixedly connected to the base, it can swing left and right to push the glass; a power component is fixedly connected to the base and connected to the side position of the shear slip component, it can provide a reciprocating motion for the shear slip component; a cover plate component is fixedly connected to the base and set at the middle position of the shear slip component, it can ensure a vertical restraint of the glass when the shear slip component pushes the glass, including the following steps: (1) placing the glass; (2) covering the glass; (3) separating the glass; (4) removing the glass. The shear slip principle is used to replace the traditional manual separation process of glass, which not only improves the efficiency, but also is easy to be realized by automatic equipment. The invention adopts an electric cylinder drive, it has the characteristics of fast response, the high-speed automatic control is easy to be realized, and the distance can be adjusted between the plates which has a wide working range.



21: 2023/08452. 22: 2023/09/01. 43: 2024/03/11 51: G06T

71: Anhui Polytechnic University

72: Youyu LIU, Yi LI, Hongwei LI, Qijie WANG, Songsong LU

#### 33: CN 31: 2023104804330 32: 2023-04-28 54: ONLINE MULTI OBJECT TRACKING METHOD COMBINED WITH THE LIGHTWEIGHT DEEP APPEARANCE EXTRACTION 00: -

The invention relates to computer vision technology, in particular to an online multi-object tracking method combined with the lightweight deep appearance extraction, inputting a video frame at the current moment, and obtaining a detection bounding box of all tracking objects through a detector; dividing all detection bounding boxes into a high confidence detection bounding box set and a low confidence detection bounding box set, and predicting the states of all detection bounding boxes at the current moment; clipping a video frame based on the high confidence detection bounding box to obtain an image block of the corresponding object, and inputting it into Fast OSNet to obtain an appearance embedding of the object; using the HAEMA to update the appearance state of all matched trajectories; the technical solution provided by the invention can effectively overcome the defects of low occlusion noise resistance, slow reasoning speed and large memory occupation in the existing technology.



21: 2023/08481. 22: 2023/09/04. 43: 2024/03/11 51: B65D

71: Chongqing University of Arts and Sciences

72: JIANG, Long, YANG, Liu, WANG, Feifei 54: OUTDOOR GARBAGE BIN

#### 00: -

Disclosed is an outdoor garbage bin. The outdoor garbage bin includes a bin body, a bin cap, and a pressing assembly, where the bin body includes an inner bin and a plurality of support columns arranged outside the inner bin at intervals in a circumferential direction of the inner bin; an upper end of the inner bin is provided with an opening, and an upper end surface thereof is configured as a slope and spaced from a lower side surface of the bin cap; and the pressing assembly includes a driving mechanism and a pressing plate, where the driving mechanism is fixedly arranged on the bin body or the bin cap, the pressing plate is arranged below the bin cap, and the driving mechanism is fixedly connected to the pressing plate.



- 21: 2023/08482. 22: 2023/09/04. 43: 2024/03/11 51: B22F
- 71: DU LAN JINHUI MINING CO., LTD 72: WANG, Qian, YE, Jiang, LI, Junbang 54: DIGESTION METHOD FOR GOLD AND SILVER COMPOSITE PARTICLES

#### 00: -

Disclosed is a digestion method for gold and silver composite particles. According to the present invention, the gold and silver composite particles are mixed with a nitric acid solution for nitric acid digestion to obtain a nitric acid digestion solution; molar concentration of the nitric acid solution is 3.2 mol/L; temperature of nitric acid digestion is greater than or equal to 87 degree Celsius; the nitric acid digestion solution is mixed with aqua regia for aqua regia digestion; temperature of aqua regia digestion is greater than or equal to 87 degree Celsius. According to the present invention, using amount of nitric acid and hydrochloric acid is reduced, and nitrogen oxide in a sample testing solution obtained by digestion can be more likely to remove, accuracy and stability of a gold and silver result detected by the fire assay method are ensured.

21: 2023/08483. 22: 2023/09/04. 43: 2024/03/11 51: A61K 71: Kai Xiao 72: Kai Xiao 33: CN 31: 2023103601396 32: 2023-04-06 54: TRADITIONAL CHINESE MEDICINE COMPOSITION, MEDICINAL LIQUOR FOR

#### TREATING SOFT TISSUE INJURY AND PREPARATION METHOD THEREOF 00: -

The invention discloses a traditional Chinese medicine composition for treating soft tissue injury, comprising safflower, dragon's blood, turmeric, notoginseng powder, dried rehmannia root, teasel root, corydalis tuber, cape jasmine, amur corktree bark, polygonum cuspidatum, borneol, mentholum, and camphor; taken a panoramic view of the prescription, the traditional Chinese medicine composition has reasonable compatibility of medicines, can effectively and quickly achieve the effects of clearing away heat and toxic materials, promoting blood circulation to remove blood stasis, dredge the meridians to relieve pain, diminishing inflammation, relieving swelling, treating fracture, strengthening bones and muscles and the like, can quickly remove the symptoms of red, swelling, heat, pain, inflammation etc. of soft tissue injury, and can effectively treat various soft tissue injuries, particularly sprain and contusion, muscle strain and various strains, with the characteristics of quick and significant effects.

21: 2023/08484. 22: 2023/09/04. 43: 2024/03/11 51: A61K; A61P 71: Wenxuan Zhao 72: Wenxuan Zhao 54: TRADITIONAL CHINESE MEDICINE FOR TREATING LATE COUGH CAUSED BY VIRAL

INFECTION 00: -

The invention discloses a traditional Chinese medicine for treating late cough caused by viral infection, comprising the following raw materials and parts by weight: 15 g of Scrophulariae Radix, 10 g of Caulis Bambusae In Taeniam, and 10 g of Licorice. The medicine of the invention can effectively treat the symptoms of pneumonia caused by lung virus infection and cough after turning overcast, and can also be used for cough caused by cold, dry cough, and cough with phlegm. The curative effect is good, there is no recurrence after healing; the traditional Chinese medicine preparation is adopted, and the side effects are few: the medicinal materials are easy to obtain, the decoction is convenient to take, and the economy is good, so it is suitable for popularization.

- 21: 2023/08485. 22: 2023/09/04. 43: 2024/03/11
- 51: A61K; A61P
- 71: Wenxuan Zhao
- 72: Xuefen Feng

## 33: CN 31: 202310932708X 32: 2023-07-27 54: ORAL DECOCTION FOR TREATING PAIN SYMPTOMS OF BRUISES AND PREPARATION METHOD THEREOF

#### 00: -

The invention discloses an oral decoction for treating pain symptoms of bruises, wherein the decoction is made of the following traditional Chinese medicine raw materials in parts by weight: 15 g of cassia twig, 15 g of hawthorn, 15 g of tangerine peel, 15 g of frankincense, 15 g of myrrh, 30 g of Angelica sinensis, 15 g of Radix cudraniae, 15 g of Sargentodoxa cuneata, 20 g of mulberry twig, 20 g of Gardenia, 25 g of Cinnamon, 60 g of raw Atractylodes macrocephala, 20 g of Poria cocos, 20 g of Codonopsis pilosula, 50 g of Eucommia ulmoides, 50 g of Rhizoma Chuanxiong, 15 g of teasel, and 9 g of ginger. The invention follows the principles of traditional Chinese medicine prescriptions, has reasonable prescriptions, safe medication, good curative effect and convenient use, and has the effects of promoting blood circulation and removing blood stasis, dredging collaterals and relieving pain, strengthening the spleen and protecting the liver. It can treat qi and blood stasis, pain in trusted subordinates, pain in legs and arms, bruises, bruises, internal and external sores, and accumulation of lumps in the abdomen. After clinical verification, it has been proved that the clinical curative effect is reliable, and it has a good therapeutic effect on the pain caused by falls and the pain caused by arthralgia syndrome.

21: 2023/08486. 22: 2023/09/04. 43: 2024/03/11 51: A61K; A61P 71: Xuefen Feng

72: Xuefen Feng 54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING PNEUMOVIRUS 00: -

The invention discloses a traditional Chinese medicine composition for treating pneumovirus, comprising: deerhorn slice, goral horn, Radix Astragali preparata, ginseng, pseudo-ginseng, radix glehniae, Chinese angelica, angelica root, baical

skullcap root, notopterygium root, wild buckwheat rhizome, heartleaf houttuymia herb, rhizoma pinelliae preparata, platycodon root, mongolian snakegourd fruit, radix scrophulariae, white peony root, raw bighead atractylodes rhizome, Japanese stemona root, earthworm, honeycomb, common hogfennel root, willowleaf swallowwort rhizome, prepared liquorice root, fresh ginger, momordica grosvenori, bamboo shavings, and glabrous greenbrier rhizome. The invention follows the principle of the traditional Chinese medicine prescription, and has advantages of reasonable composition, safe medication, good curative effect and convenient use, obvious curative effect on viral pneumonia and severe infected patients with high risk, can be taken by adults and children, and is worthy of clinical popularization.

21: 2023/08488. 22: 2023/09/04. 43: 2024/03/11 51: G01W

71: Henan University of Urban Construction, China Pingmei Shenma Holdings Group Co., Ltd., Henan Jinjian Xingye Municipal Road and Bridge Co., Ltd. 72: LIU, Xiaofei, LI, Ying, LI, Bingbing, ZHU, Tao, KUANG, Xu, ZHANG, Qiang, WEI, Pengfei, JIA, Zhe, LI, Changjun

## 54: SYSTEM FOR MEASURING EFFECTIVE RAIN FACTOR OF FARMLAND AND METHOD THEREFOR

00: -

The present invention discloses a system for measuring an effective rain factor of a farmland and a method therefor and relates to the technical field of soil moisture data measuring devices. The system includes an effective precipitation measuring device and a standard precipitation gauge. The effective precipitation measuring device includes a basement and an automatic weighing mechanism arranged inside the basement. The automatic weighing mechanism carries a gathering barrel, the bottom end of a support frame is placed on the bottom surface inside the gathering barrel, a supporting filter body is fixedly arranged at the top end of the support frame and can divide the internal space of the gathering barrel into a soil accommodation cavity and a water accommodation cavity, and the supporting filter body has a plurality of permeable holes.



21: 2023/08489. 22: 2023/09/04. 43: 2024/03/11 51: C03B

71: Anhui Polytechnic University

72: Wanbao TAO, Youyu LIU, Hongwei LI, Yi LI, Guodong HU

33: CN 31: 2023104013809 32: 2023-04-15 54: TRINITY ULTRA-THIN GLASS SEPARATION DEVICE AND OPERATION METHOD 00: -

The invention relates to the field of flexible ultra-thin glass separation processing technology, in particular to a trinity ultra-thin glass separation device and operation method. The separation device includes an exhaust mechanism, a roller separation mechanism, a nozzle component, and a sucking disc vibration mechanism; the exhaust mechanism is connected to the middle upper end of the sucking disc vibration mechanism, and the nozzle component is connected to the side upper end of the sucking disc vibration mechanism, the roller separation mechanism is connected to the lower side of the sucking disc vibration mechanism, and the nozzle component is on the same side as the roller separation mechanism, the gap between the roller separation mechanism and the sucking disc vibration mechanism is the water outlet direction of the nozzle component; the roller separation mechanism is parallel to the lower end plane of the sucking disc vibration mechanism. The invention adopts a roller separation mechanism, a nozzle component, and a sucker vibration mechanism to realize the requirements of replacing manual separation and high automation.



21: 2023/08490. 22: 2023/09/04. 43: 2024/03/11 51: A01G

71: Zhejiang Chinese Medical University Songyang Research Institute Co., Ltd., Zhejiang Chinese Medical University

72: SHEN, Yufeng, SHEN, Xiaoxia, SUN, Yiming, FANG, Zheng, YE, Ping

#### 54: MEDIUM FOR CULTURING MONOCHASMA SAVATIERI FRANCH. EX MAXIM. AND APPLICATION THEREOF, AND METHOD FOR RAPIDLY CULTIVATING SEEDLINGS OF MONOCHASMA SAVATIERI FRANCH. EX MAXIM. 00: -

The present invention relates to the technical field of industrialized production of Monochasma savatieri Franch. ex Maxim., and in particular, to a method for rapidly cultivating seedlings of Monochasma savatieri Franch. ex Maxim. The present invention discloses a medium for culturing Monochasma savatieri Franch. ex Maxim. The medium takes B5 as a basic medium, and further includes the following components at concentration: 0.1 mg/L 6benzylaminopurine, 0.1 mg/L alphanaphthaleneacetic acid, 0.1 mg/L gibberellin, 2.0 g/L activated carbon, 3.3 g/L agar, and 30 g/L sucrose. The pH of the medium is 6.0. Furthermore, the present invention discloses a method for rapidly cultivating seedlings of Monochasma savatieri Franch. ex Maxim. In the present invention, a ratio and amounts of the three hormones in the medium are appropriately adjusted, and accessory ingredients, such as activated carbon, are added, so that seeds of Monochasma savatieri Franch. ex Maxim grow into seedlings.

#### 21: 2023/08493. 22: 2023/09/04. 43: 2024/03/11 51: G08B

71: Information Communication Branch of China Southern Power Grid Energy Storage Co., Ltd. 72: Zhenqian WANG, Zhu ZHU, Jianghua REN, Jianlu LI, Lin WANG, Xinxin LU, Guanghai SUN 33: CN 31: 2023110319775 32: 2023-08-16 54: SECURITY EARLY WARNING DEVICE FOR POWER GRID OPERATION AND MAINTENANCE INFORMATION AND ITS OPERATION METHOD 00: -

The invention discloses a security early warning device for power grid operation and maintenance information, including an early warning device body, which is provided with an interception mechanism; the interception mechanism includes a servo motor, the servo motor is fixedly installed on the early warning device body, the output end of the servo motor is fixedly installed with the first bevel gear, a side surface of the early warning device body near the servo motor is fixedly installed with supporting parts, a transmission rod is in a rotational insertion to the middle of the supporting parts, an outer surface of the transmission rod is fixed with a second bevel gear, the first bevel gear meshes with the second bevel gear. The identification card reader can verify the magnetic card information of the person awaiting entry, and the wide-angle camera can collect the facial information of the person awaiting entry for verification, a double verification effect is formed, it avoids the situation that someone uses other's magnetic card to enter the operation and maintenance information area, and improves the safety warning efficiency.



21: 2023/08494. 22: 2023/09/04. 43: 2024/03/11 51: A61K; A61P

71: Xuefen Feng

#### 72: Xuefen Feng

#### 54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING CORONAVIRUS 00: -

The invention discloses a traditional Chinese medicine composition for treating coronavirus, which comprises the following raw materials: 9-18g of wrinkled gianthyssop herb, 6-12g of perilla leaf, 6-12g of angelica root, 6-12g of areca peel, 6-12g of tuckahoe, 6-12g of bighead atractylodes rhizome, 6-12g of ginger processed pinellia, 6-12g of dried orange peel, 6-12g of officinal magnolia bark, 6-12g of platycodon root, 10-20g of notopterygium root, 6-12g of swordlike atractylodes rhizome, 10-20g of divaricate saposhnikovia root, 3-6g of manchurian wildginger, 3-6g of szechuan lovage rhizome, 10-20g of dried rehmannia root, 6-12g of baical skullcap root, 6-12g of liquorice, 3 slices of fresh ginger, 3 fistular onion stalk and 3 Chinese dates. The invention can effectively treat symptoms such as fever, throat pain, week and the like caused by coronavirus infection, has good curative effect, quick effects and small side effect, and is suitable for popularization and application.

21: 2023/08498. 22: 2023/09/04. 43: 2024/03/12 51: B65D; F16L

71: CHINA CONSTRUCTION INDUSTRIAL & ENERGY ENGINEERING GROUP CO., LTD. 72: ZUO, Wei, YANG, Chunli, LIU, Jing, GUO, Jiaqi, ZHANG, Lianying, ZHANG, Mingming, SU, Kuikui, LI, Qi, LIU, Junbing, LI, Wei 33: CN 31: 2023105040682 32: 2023-05-06

## 54: TOOL FOR TRANSPORTING SPECIAL PIPE IN LONG SPACE

00: -

The present invention discloses a tool for transporting a special pipe in a long space, which relates to the technical field of prefabricated buildings, and includes a fixed seat, a connecting rod, and a support assembly. A connecting assembly is arranged on an outer side of the top of the fixed seat, a rotating gear is arranged on an outer side of the bottom of the connecting assembly, a gear sleeve is disposed at an outer end of the rotating gear, an inner side of the gear sleeve is connected with a displacement rod, two ends of the displacement rod are both provided with a slide socket, rollers are arranged on two sides of the exterior of the connecting assembly, a chute is formed on an inner side of the roller, and the connecting rod is disposed on an inner side of the top of the connecting assembly. Through the auxiliary support of the support assembly, the present invention can improve the transportation stability of the equipment in the transportation process of the special pipe. In addition, benefited from the use of the support assembly and the connection between the connecting rod and a positioning plate, the transportation of the special pipe does not need additional personnel for auxiliary support, and the equipment can be displaced only by pulling the connecting rod by a single person, which can greatly reduce the transportation difficulty of the equipment.


21: 2023/08509. 22: 2023/09/04. 43: 2024/03/11 51: G06F

71: North China University of Science and Technology

72: Zheng Zhijun

33: CN 31: 202310531081.7 32: 2023-05-12 54: PREDICTION METHOD FOR SUBJECT LITERATURE RETRIEVAL 00: -

The present invention discloses a prediction method for subject literature retrieval, belongs to the field of data analysis prediction. The prediction method includes the steps of: constructing a subject resource database, constructing a subject retrieval thesaurus for digital resources of a literature; storing retrieval data into a file when performing retrieval each time, determining a retrieval frequency by searching and matching the retrieval data in the file, building a knowledge map of retrieval information, and associating with retrieve historical data of other users to improve the knowledge map; finally, determining a retrieval strategy based on the knowledge map, predicting and sorting retrieval literatures; when a user browses retrieval results, recording and associating the literature data browsed and downloaded by the user, and analyzing the data, determining the degree of correlation between the retrieval strategy and the predicted literatures; and predicting retrieval results of other users according to the degree of correlation between the retrieval strategy and the predicted literatures. According to the present invention, the user retrieval experience is improved by performing sorting output on the predicted retrieval literatures.

21: 2023/08513. 22: 2023/09/05. 43: 2024/03/13 51: G06Q 71: Chongging Research Academy of Eco-

environmental Sciences

72: CHEN, Min, WU, Liping, LV, Pingjiang, HU, Wei, XIE, Geng

#### 54: DYNAMIC ACCOUNTING AND MANAGING SYSTEM FOR CARBON EMISSION OF INDUSTRIAL ENTERPRISE 00: -

The present invention discloses a dynamic accounting and managing system for carbon emission of an industrial enterprise. The system includes a dynamic carbon emission accounting subsystem and a carbon emission managing subsystem. The dynamic carbon emission accounting subsystem includes an enterprise carbon emission accounting model and a product carbon footprint accounting model, and the enterprise carbon emission accounting model and the product carbon footprint accounting model are configured to generate a greenhouse gas emission inventory. The carbon emission managing subsystem includes a production process carbon emission level determination module, a product carbon footprint report generation module, a carbon emission adjusting and optimizing determination module, and a main carbon emission fluctuation influencing factor determination module. The system can conduct dynamic accounting and managing on carbon emission of an industrial enterprise, such that the carbon emission of the enterprise can be more rational, and the carbon emission can be effectively reduced.



21: 2023/08514. 22: 2023/09/05. 43: 2024/03/12 51: G06F; G06Q 71: Shanghai Polytechnic University 72: Wenhua ZHU, Bao CAI, Zhangchi SUN,

Hongliang GU, Zhengbiao CAO, Wenjin QIN, Jian MA

#### 33: CN 31: 2022111778092 32: 2022-09-26 54: A METHOD OF REALIZING INDUSTRIAL META-UNIVERSE BY USING VIRTUAL REALITY TECHNOLOGY 00: -

The present invention provides a method for realizing industrial meta-universe by using virtual reality technology, and relates to the field of industrial meta-universe. It includes the following steps: S1: using sensors to collect production data information of industrial production equipment, sensors include: a temperature sensor, a heat sensor, laser sensor and a temperature sensor; collecting temperature data of industrial production equipment, industrial production equipment parts, industrial production raw materials, production tools required for industrial equipment production, and industrial production environment. The industrial meta universe of the invention is the development, optimization and upgrading of emerging technologies such as three-dimensional design, virtual reality, augmented reality, mixed reality, artificial intelligence, digital twin, Internet of things, 5G network, big data and cloud computing. It will promote revolutionary changes in the ecology of industrial enterprises and industries, change people 's way of thinking, and promote creativity, innovation and entrepreneurship promote the richness, high quality, refinement and artistry of industrial products. and then create huge economic value and social value.



21: 2023/08516. 22: 2023/09/05. 43: 2024/03/13 51: C12N

71: Hainan Medical University, Guangdong Medical University

72: Wei JIE, Junli GUO, Linxu WU, Zhihua SHEN, Cai LUO, Kaijia SHI, Xinglin ZHU, Xuebin LING, Yangyang ZHAO

#### 54: APPLICATION OF RND3 GENE OVEREXPRESSION REAGENT IN THE FORMULATION OF PHARMACEUTICALS TARGETING CARDIOMYOCYTE SENESCENCE 00: -

This invention provides an application of an RND3 gene overexpression reagent in the preparation of drugs for treating cardiomyocyte senescence, which belongs to the field of disease treatment technology. This invention first discovered that the level of RND3 in human peripheral blood cells is negatively correlated with age; the expression of RND3 in the heart tissue of diabetic animal models and in cardiomyocytes cultured with high glucose in vitro is decreased, accompanied by a significant senescence phenotype in cardiomyocytes; specific overexpression of RND3 can effectively treat cardiomyocytes senescence, especially diabetic cardiomyopathy, and cardiac-specific overexpression of RND3 can reverse the aging of cardiomyocytes induced by diabetes and restore heart function.



- 21: 2023/08522. 22: 2023/09/05. 43: 2024/03/13 51: B62B
- 71: Anhui Polytechnic University
- 72: Youyu LIU, Zhao FANG, Guodong HU, Songsong LU, Hongwei LI

# 33: CN 31: 2023105895591 32: 2023-05-20 54: PIVOT STEERING APPARATUS OF STAIR CLIMBING TROLLEY AND ITS CORRESPONDING WORKING METHOD

00: -

The present invention relates to the technical field of stair climbing robots, and particularly relates to a pivot steering apparatus of a stair climbing trolley and its corresponding working method. The apparatus includes a vehicle body, a balancing mechanism, a lifting steering mechanism and a stud. The balancing mechanism includes a drive sprocket, a chain, a counterweight, a follower sprocket and a drive motor, is connected to a mounting support and a mounting support on a lower bottom surface of the vehicle body by means of a drive shaft and a follower shaft, respectively, and has a symmetry axis coinciding with a symmetry axis of the vehicle body. The lifting steering mechanism includes an upper chassis, connection rod pieces, hinge pins, connection shafts, screws, a lower chassis, an electric cylinder and universal wheels, is connected

to a middle position of the lower bottom surface of the vehicle body by means of the stud, and has a geometric center coinciding with a geometric center of the vehicle body. According to the present invention, the electric cylinder controls the lifting steering mechanism, and the drive motor controls the balancing mechanism, such that the stair climbing trolley can achieve pivot zero-radius steering when passing a narrow corridor platform, a problem that an existing stair climbing mechanism conducts steering with a great radius is solved, and a key common technical problem of a mechanical stair climbing mechanism is solved.



#### 21: 2023/08526. 22: 2023/09/05. 43: 2024/03/13 51: G06T

71: Finolex Academy of Management and Technology, Namdeo Baban Badhe, Dr. Vinayak Ashok Bharadi, Dr. Kaushal Kamaleshwar Prasad, Dr. Nupur Giri, Shashank Shashikant Tolye, Vijaykumar Pandurang Yele

72: Namdeo Baban Badhe, Dr. Vinayak Ashok Bharadi, Dr. Kaushal Kamaleshwar Prasad, Dr. Nupur Giri, Shashank Shashikant Tolye, Vijaykumar Pandurang Yele

# 54: METHOD AND SYSTEM FOR EFFICIENT IMAGE SEGMENTATION USING OPTIMIZED SEGNET-BASED MODEL

00: -

The present disclosure relates to method and system for Efficient Image Segmentation using Optimized SegNet-based Model. In the present disclosure, an optimized SegNet model is proposed for feature extraction and segmentation of remote sensing images obtained from hyperspectral images datasets, wherein the proposed model incorporated

dual UNet with ResNet\_50, wherein in the case of dual UNet with ResNet\_50 network, depth-wise convolution is designed to extract the joint features of RSIs, and the output of decoder module 2 (UNet2) is concatenated with the output of decoder module 1 (UNet1) which produces an accurate segmentation outcome. The results obtained from the experiment showed that the proposed OptSegNet model achieves better performance in comparison to other traditional algorithms. Especially, the accomplished overall accuracy is 99.13, 99.71, and 99.34 on Indian Pines dataset, Salinas, and Pavia University dataset respectively.



#### 21: 2023/08528. 22: 2023/09/05. 43: 2024/03/13 51: E02D

71: Hari Krishna Padavala, Ramana Murty Varudu 72: Hari Krishna Padavala, Ramana Murty Varudu 54: A SYSTEM FOR PERFORMING FIELD HEAVE MEASUREMENTS ON FOUNDATION TECHNIQUE IN EXPANSIVE SOILS 00: -

A System (100) for performing field heave measurements on a foundation technique in expansive soils, comprises of: an expansive clay bed (102) soil profile, wherein a soil profile is of a top 2 to 2.4 m thickness of black cotton (B.C.) soil followed by murrum stratum soil; a stabilization apparatus (104) for stabilizing the clay bed based on a plurality of chemicals and a cohesive non-swelling (CNS) cushion, wherein the plurality of chemicals comprises of a sand-lime pile, a calcium chloride solution and a calcium chloride-sodium silicate; an excavation apparatus (106) for excavating a plurality of trenches of the plurality of chemically stabilized clay; and a casting tool (108) for casting cement concrete footings to analyze seasonal moments of the stabilized soil bed.



- 21: 2023/08532. 22: 2023/09/05. 43: 2024/03/13 51: A01G
- 71: SOUTHWEST FORESTRY UNIVERSITY 72: YANG, Ziyun, CHEN, Longqing, GAO, Chengguang, WU, Tian 54: CAMELLIA CUTTAGE SEEDLING-RAISING DEVICE

00: -

The present invention discloses a camellia cuttage seedling-raising device, where a straight-strip framework is welded between arc-shaped frameworks, a PO thin film is covered on outer sides of the straight-strip framework and the arc-shaped framework, a temperature and humidity sensor is arranged on an inner side of the PO thin film, and fixed ground nails are arranged on outer sides of the straight-strip frameworks at two ends of the arcshaped frameworks through connecting lugs, a spraying mechanism is arranged below the straightstrip framework on the inner side of the PO thin film, a frame is arranged between the straight-strip framework and the arc-shaped framework, a doubleleaf sliding door is arranged on an inner side of the frame through a groove, a drive mechanism is arranged between the groove in an upper end and the double-leaf sliding door, and rolling wheels are arranged below the double-leaf sliding door. According to the present invention, automatic opening and closing of the double-leaf sliding doors and internal irrigation and humidification can be achieved, manual operation is not needed, time and labor are saved, and efficiency is improved; meanwhile, the PO thin film can effectively control heat loss in the device, heat dissipation is slow, the growth temperature of plants at night is guaranteed, freezing injury to the plants caused by sudden temperature drop at night can be effectively prevented, and temperature rise in the daytime is fast.



21: 2023/08556. 22: 2023/09/06. 43: 2024/03/12 51: A61B

71: Zaozhuang vocational college

72: Cheng Li, Sun Jingjing, Gu Hongyan, Xu Feifei, Wang Hongxiang

33: CN 31: 202310115484.3 32: 2023-02-15 54: LIGHTING DEVICE FOR ORAL CAVITY AUXILIARY EXAMINATION 00: -

The present invention discloses a lighting device for oral cavity auxiliary examination, including a frame body, a lighting column, a first lighting lamp, and an instrument clamping fitting. The frame body includes two pairs of supporting arms and two subplates arranged between the two pairs of supporting arms, each pair of the supporting arms including two supporting rods and a torsional spring, and the two subplates being located at two ends of the supporting arms. The lighting column is rotatably and horizontally arranged below the upper subplate, and a direction of the lighting column is perpendicular to a direction of the subplates. The first lighting lamp is arranged at a bottom of the lighting column. The instrument clamping fitting is configured to mount an examination instrument, and is connected to the lighting column via a rotating shaft member. The lighting column will rotate when the instrument is rotated, and at this moment, a lighting lamp will follow the rotation of the instrument to light an oral cavity position to be treated by the instrument. The present invention has a such better lighting effect that the oral cavity position to be examined by the instrument can be clearly lighted.



21: 2023/08557. 22: 2023/09/06. 43: 2024/03/13 51: A61G

71: First Affiliated Hospital of Gannan Medical University

72: Hong Hong, Luo Cheng

33: CN 31: 202211640319.1 32: 2022-12-20 54: ANTI MOVING FIXED DEVICE

The present invention discloses an anti moving fixed device, including a base, the base is connected to a support column, a top of the support column is disposed with a lifting groove, the lifting groove is internally connected to a lifting column in a sliding mode, a top of the lifting column is connected to an examination lying bed, a center position of the examination lying bed is disposed with a moving cavity, the moving cavity is internally connected to a sealing plate in a sliding and sealing mode, an upper end surface of the sealing plate is fixedly connected to a U-shaped limited seat, and the limited seat extends to an outer side of the examination lying bed. According to the present invention, the structure of the U-shaped limited block is utilized to play a clamping role on the waist of a newborn to restrict the turning action of the newborn, and then the feet of the newborn are fixed by bandages, so as to prevent the newborn from turning and moving. At the same time, colorful rocking balls are arranged above a protective headrest to attract the newborn, which reduces the resistance of the newborn to unfamiliar environments, and at the same time can distract the newborn and reduce crying and moving, which is convenient for doctors to carry out physical examination on the newborn.



21: 2023/08587. 22: 2023/09/07. 43: 2024/03/13 51: H03D

71: Zhengzhou Railway Vocational & Technical College

72: Dong Xinyu, Fu Tao, Zhu Jin, Zhu Yanlong, Guo Xiaojing, Cao Bing, Zhang Weimin

#### 54: A MOBILE COMMUNICATION EQUIPMENT FOR COMMUNICATION ENGINEERING 00: -

The present invention discloses a mobile communication engineering communication device, which includes a wireless receiving module and a signal processor. The wireless receiving module and the signal processor are further equipped with a signal matcher, a signal filter, and a gain adjuster. The signal matcher is used to receive wireless signals received by the wireless receiving module, and the output end of the signal matcher is connected to the input end of the signal filter; The signal filter amplifies the received signal while filtering it. The amplified signal is sent to a gain regulator, which adjusts the gain of the signal filter based on the amplitude of the amplified signal; The output end of the gain regulator is connected to the input end of the signal processor. The present invention reduces the noise coefficient of the circuit, improves the signal-to-noise ratio of the wireless received signal, increases circuit stability, and automatically adjusts the received signal adaptively based on its amplitude, facilitating the identification of subsequent circuits.



21: 2023/08591. 22: 2023/09/07. 43: 2024/03/13 51: A61B

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, WADGAONKAR, Vinayak S., BHATKAR, Siraj, SHENOY, Vignesh, TATPATE, Pallavi

72: WADGAONKAR, Vinayak S., BHATKAR, Siraj, SHENOY, Vignesh, TATPATE, Pallavi 54: AN INTELLIGENT WEIGHT INDICATOR AND MONITORING DEVICE FOR DOMESTIC LPG CYLINDER

00: -

The present invention related to an intelligent weight indicator and monitoring device for domestic LGP cylinder. The present invention provides a novel device for detecting and monitoring weight of LPG based on the strain gauge, a sensor whose resistance changes with applied force is used in another aspect of the present invention to detect and monitor the weight of LPG. The system operates on the principle that a change in resistance may be measured by manipulating the weight, tension, pressure, and force applied. In order to gauge the amount of pressure or weight being applied, a force or load sensor is required (strain gauge). They measure mass by transforming it into an electrical signal that may then be used in a number of contexts. Load cells are a type of strain gauge used as a force transducer or force sensor.



21: 2023/08592. 22: 2023/09/07. 43: 2024/03/13 51: C04B

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, INGLE, Ganesh Shivaji, SHINDE, Sumant, SONAWANE, Mahesh B. 72: INGLE, Ganesh Shivaji, SHINDE, Sumant, SONAWANE, Mahesh B.

# 54: A MOULD FOR PREPARATION OF LIGHT WEIGHT CONCRETE PANEL BY USING E-WASTE

00: -

The present inventionrelated to a mould for preparation of light weight concrete panel by using E-waste. It deals with to make the lightweight sustainable concrete panel by using Electronic Waste (E-Waste). A special mould (300x300x150mm) is developed for preparation Ewaste light weight concrete panel. The concrete panel casted in layers, a 30 mm thick E-waste layer confined between the top and bottom concrete layers each of 60 mm thick. The mould comprises of 12 mm thick MS detachable walls and open at top. To cast the 25 mm thick concrete layer along the periphery of the mould a special MS square box of 250x250x150mm (open at top and bottom. The compressive strength of E-waste concrete panel assures the comparable results as compared to the normal concrete panel prescribed by IS 456-2000.



21: 2023/08593. 22: 2023/09/07. 43: 2024/03/13 51: A61B

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, LOKHANDE, Netra, VERMA, Rupeshkumar, KISHAN, Shubham 72: LOKHANDE, Netra, VERMA, Rupeshkumar, KISHAN, Shubha

#### 54: A COMPUTER AIDED DIAGNOSIS SYSTEM FOR GLAUCOMA DETECTION 00: -

The present invention related to a computer aided diagnosis system for glaucoma detection. The proposed invention is to create a system that can automatically detect glaucoma in the eye using digital image processing. This system will take an image of the eye as input and process it using a series of techniques to identify the optic nerve head and extract a region of interest around it. The system will then measure the cup-to-disc ratio of the region of interest to determine whether the eye is normal or showing signs of glaucoma.



21: 2023/08594. 22: 2023/09/07. 43: 2024/03/13 51: A01B

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, KOTHAVALE, Basavraj,

ANJALEKAR, Manas, SHIRODE, Deep, HIMANE, Sahil

72: KOTHAVALE, Basavraj, ANJALEKAR, Manas, SHIRODE, Deep, HIMANE, Sahil

# 54: A SOIL FERTILITY DETECTION ROBOT 00: -

The present invention related to a soil fertility detection robot. An automatic soil fertility detection robot which will check various soil properties in comparison to an AI model developed on the backend to make the whole process seamless, less time-consuming and affordable. Soil organic matter (SOM) is a key indicator of soil fertility. For accurate measurement of SOM, a novel method based on artificial olfactory system (AOS) can be proposed. We propose a robot with metal-oxide semiconductor sensor array, and a micro-controller-based Cloudsystem, with machine learning algorithms used to build olfactory feature space. Then prediction models can be established by using genetic algorithms to visualize and analyze various domains, to improve soil efficiency.

21: 2023/08595. 22: 2023/09/07. 43: 2024/03/13 51: B01J

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, WADGAONKAR, Vinayak S., KHURPADE, Pratiksha, BHATKAR, Siraj, SHENOY, Vignesh, TATPATE, Pallavi 72: WADGAONKAR, Vinayak S., KHURPADE, Pratiksha, BHATKAR, Siraj, SHENOY, Vignesh, TATPATE, Pallavi **54: A METAL ION ADSORBENT** 00: -

The present inventionrelated to a metal ions adsorbent from peas husk. The invention aims to provides a process to develop Cr (VI) metal ions adsorbent from the agricultural waste using Peas Husk. A characterize the newly produced adsorbent for its numerous physico-chemical properties and structural morphology in order to better comprehend its properties. The invention strives to standardize the application of developed adsorbent for the removal of heavy metal ions like Cr (VI) from water, which is considered the most dangerous contaminant for the pollution of water, under different conditions (different pH of the solution, agitation speed, adsorbents dose, and contact time) to obtained optimum condition of adsorption.



21: 2023/08610. 22: 2023/09/08. 43: 2024/03/14 51: H04L

71: Jiaxing Vocational & Technical College 72: Chunfang Gao, Xinjie Fu, Xiaoji Wei, Houjun Zhang, Yun Pan

54: BLIND IDENTIFICATION METHOD OF 16APSK MODULATION PATTERN BASED ON POWER SPECTRUM FLATNESS 00: -

The invention discloses a blind identification method of 16APSK modulation pattern based on power spectrum flatness, which mainly solves the problem that the signal-to-noise ratio is low due to the long signal transmission distance in satellite communication, thus leading to the high misidentification rate of 16QAM and 16APSK modulation signals. Especially when the signal-tonoise ratio is too low and the sampling multiple is too high, due to the limited amount of data transmitted by satellite communication, the effective feature quantity is relatively small, which makes signal identification extremely difficult. The realization steps of the invention are as follows: 1) signal preprocessing to obtain discrete signal sampling sequence s(n); 2) feature extraction based on the power spectrum flatness to obtain the quartic spectrum flatness plain; 3) completing signal classification identification according to the guartic spectrum flatness plain, and completing frequency offset estimation by using a correction algorithm base on sequence peak energy to obtain the signal modulation type and frequency offset offsetFrep; 4) completing the classification identification and frequency offset estimation of 16QAM and 16APSK signals. On the premise that the signal-to-noise ratio is high than 10dB, the invention quickly and accurately realizes the classification identification and frequency offset estimation of 16QAM and 16APSK signals, the frequency accuracy (the sampling rate is less than 1GHz) can reach 10kHz, and the identification accuracy can reach more than 90%, thus effectively improving the classification identification accuracy of 16QAM and 16APSK signals, providing reliable demodulation parameters for subsequent demodulation work, and being applicable to an integrated communication reconnaissance system.



21: 2023/08612. 22: 2023/09/08. 43: 2024/03/14 51: B24B

71: Anhui Polytechnic University

72: Youyu LIU, Songsong LU, Hongwei LI, Qijie WANG, Guodong HU

33: CN 31: 2023101850337 32: 2023-02-25 54: A FOUR-DEGREE-OF-FREEDOM FLOATING GRINDING DEVICE

00: -

The present invention relates to the technical field of grinding, in particular to a four-degree-of-freedom floating grinding device, the four-degree-of-freedom floating grinding device includes a fixing mechanism, configured to be connected to a tail end of a mechanical arm; a moving mechanism, provided in the fixing mechanism and configured to be connected to an air source to drive a component to

rotate; a supporting mechanism, provided between the fixing mechanism and the moving mechanism, and configured to support the moving mechanism, where the moving mechanism can translate or deflect on the supporting mechanism to ensure fitting between the component and a surface of a workpiece; and a floating mechanism, fixedly connected to the fixing mechanism, and configured to provide floating force, the floating mechanism acts on the moving mechanism and can realize fourdegree-of-freedom floating of translation and deflection of a grinding wheel, the supporting mechanism is used to provide support for the moving mechanism without affecting floating degree of freedom, when the grinding wheel grinds the workpiece, the floating mechanism can provide contact force for the grinding wheel, floating displacement is different, floating pressure is different, and contact force generated is different.



21: 2023/08613. 22: 2023/09/08. 43: 2024/03/14 51: B62B

71: Anhui Polytechnic University

72: Qijie WANG, Youyu LIU, Hongwei LI, Zhao FANG, Guodong HU 33: CN 31: 202310468978X 32: 2023-04-27

#### 54: CARRYING DEVICE FOR LAYERINNG AND CLASSIFYING WHICH IS USED FOR THE MACHINE FOR STAIR CLIMBING AND WORKING METHOD THEREOF 00: -

The present invention relates to the technical field of stair climbing machine carrying, and particularly relates to a layering and classifying carrier of (A machine for stair climbing and a working method thereof. The carrier includes a mounting platform, a crawler apparatus arranged on the mounting platform and a control box in threaded connection with the mounting platform, and further includes: rotatable side plates, a middle isolation module, twoend isolation modules, layering plates and auxiliary supporting apparatuses. The method specifically includes the following steps: S1, conducting assembly, positioning and disassembly on parts; S2, conducting elastic expansion and manual weight balancing; S3, conducting loading through layering and classifying; and S4, conducting stair climbing. With a modular design, the present invention achieves a function of freely and flexibly assembling and disassembling assemblies on the basis of different working scenes and demands. On the basis of an ingenious design of related mechanisms and combined working modes, the present invention achieves functions of guickly and manually adjusting and resetting each assembly, can be compatible with different use scenes and satisfy use demands of different groups, and finally carries goods through layering and classifying. In this way, carried goods can be protected and a carrying space can be used to the greatest extent.



21: 2023/08626. 22: 2023/09/08. 43: 2024/03/15 51: F21K

# 71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PATIL, Shreyas Nitin, PESODE, PralhadAtmaram 72: PATIL, Shreyas Nitin, PESODE, PralhadAtmaram 54: A SOLAR LIGHT TUBE FOR MULTILAYER FARMING

00: -

The present inventionrelated to a solar light tube for multilayer farming. Theinvention aims to design of solar light tube such a that we could create multiple layers on single land/building. The solar light tube, it consists of 3 parts reflective tube, diffuser and dome. Basically, the solar light tube is structure to transfer natural light to any place required. So, the invention is about the use of solar light tube in farming by creating multilayer. By creating bends to the solar light tube natural light is carried to the floor without intersecting withanother floor. Such that multiple floors are created. Bends are inclined to 45degree by which the reflective doesn't get much affected. In total 12 solar light tube are used and 2 floors are created. First floor has modified reflective tube which has two 45degree bend reflective tube and one horizontal tube and from second floor normal solar light tube is used.



21: 2023/08627. 22: 2023/09/08. 43: 2024/03/15 51: G06Q

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PANDE,Milind Sudhakar, BEDEKAR, Mangesh Vilas, VISHWARUPE,Varad Vivek, HANKEY,Alexander, ZAHOOR, Saniya, PATIL,Avinash Prakash 72: PANDE,Milind Sudhakar, BEDEKAR, Mangesh Vilas, VISHWARUPE,Varad Vivek, HANKEY,Alexander, ZAHOOR, Saniya, PATIL,Avinash Prakash

#### 54: AN INTELLIGENT INTERACTIVE SYSTEM FOR ANALYZING ONLINE NEWS ARTICLES 00: -

The present invention relates to an intelligent interactive system for analyzing online news articles. According to the invention, intelligent interactive systems refer to a merger of two domains, viz., artificial intelligence (AI) and human computer interaction (HCI), wherein an interactive system works by interacting with users and providing them with visual cues to analyses any source of information. One of the prominent sources of information in the electronic age is having to analyses online sources of information such as news

articles, blogs, etc. One single source of information can impact the global arena and create a lot of ruckus. In this invention, BERT, GRU, and LSTM deep learning-based algorithms for analyzing news articles, show how these can be classified into spam and real categories, and also show how this information can be fed to the user for analyzing the flow of information and interpreting its true meaning.



21: 2023/08628. 22: 2023/09/08. 43: 2024/03/15 51: A61H

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, KANTHALE, Vilas S., DANDAWATE, Parth, AGARWAL, Arpit, PANWAR, Vikramaditya Singh

72: KANTHALE, Vilas S., DANDAWATE, Parth, AGARWAL, Arpit, PANWAR, Vikramaditya Singh 54: AN AUTOMATIC RESUSCITATOR BAG VENTILATOR

00: -

The present invention related to an automatic resuscitator bag ventilator. The invention aims to Design and Development of Automatic Resuscitator Bag Ventilator. In today's time, the cost of ventilators is high and availability is low. Hence there is a need to research and develop a ventilator which is portable, low in cost and serve as a temporary solution in emergency situations where there is immediate requirement of air/oxygen. The proposed model of Automatic Resuscitator Bag Ventilator. Using a Scotch-Yolk Mechanism, a Piston is moved forward which in turn compresses and decompresses an Ambu Bag. Ambu Bag in turn moves air through a pipe to a mask attached to the patient. Using an Arduino, the speed of the motor connected to the yolk can be controlled in turn controlling the speed of Airflow.



21: 2023/08629. 22: 2023/09/08. 43: 2024/03/15 51: C02F

71: Dr. R. UmaRani, Dr. J. Rajesh Banu 72: Dr. R. UmaRani, Dr. J. Rajesh Banu, Dr. S. AdishKumar

# 54: A SYSTEM FOR ENHANCING ANAEROBIC DIGESTION POTENTIAL OF DAIRY WASTE ACTIVATED SLUDGE BY SONO-ALKALIZATION PRETREATMENT

00: -A system

A system (100) for enhancing anaerobic digestion potential of dairy waste activated sludge by sonoalkalization pretreatment, comprises of: a storage chamber (102) for collecting and storing raw dairy waste activated sludge; a pre-treatment chamber (104) for performing sono-alkalization pretreatment on the stored sludge, wherein at least an alkaline agent is added to the sludge to obtain an alkaline pH; an ultrasonic homogenizer (106) for disintegrating the alkaline sludge based on highfrequency sound waves to obtain disrupted sludge; and a plurality of reactors (108) for producing biogas to biodegrade the disrupted sludge with biochemical methane potential (BMP) assay, wherein a substrate is added to an inoculum in a ratio of 1:2 prior to sealing the reactor (108), wherein the reactor (108) is purged with nitrogen gas to maintain anaerobic condition, wherein the sludge is fed and withdrawn at regular intervals in a semi-continuous mode by a pump (110).



21: 2023/08664. 22: 2023/09/11. 43: 2024/03/15 51: C22C

71: TAIYUAN UNIVERSITY OF TECHNOLOGY 72: LIU, Ruifeng, SUN, Xiaozhe, YAN, Jie, WANG, Xian, LAN, Liwei

#### 54: PREPARATION METHOD FOR IRON-BASED WEAR-RESISTANT COMPOSITE MATERIAL 00: -

The present invention belongs to the technical field of wear-resistant material preparation, and in particular relates to a preparation method for an ironbased wear-resistant composite material. According to the present invention, by using the preparation method, an interface between ceramic particles and a metal matrix is more tightly combined; by optimizing and adjusting a volume ratio of Al2O3 ceramic particles to ZrO2 ceramic particles, a highquality ceramic/nickel/alloy combined interface is formed, so that the balanced requirements of the overall hardness and toughness of the wearresistant material are achieved, and the wear resistance of the overall material is ensured, which lays a good foundation for subsequent sintering and forming. This is of great significance for economic development and social progress.



21: 2023/08721. 22: 2023/09/13. 43: 2024/03/18
51: E03B
71: Shandong Agricultural University
72: Dong Zhi, Guo Jianying, Li Hongli, Li Jinrong, Tian Xiumin, Chen Xinchuang, Zhang Guangcan,

Wang Heyun

33: CN 31: 202310524212.9 32: 2023-05-11

# 54: MOBILE RAINFALL SIMULATION CURRENT-COLLECTING DEVICE

#### 00: -

The invention discloses a mobile rainfall simulation current-collecting device, which comprises a simulation component, which comprises a mobile base, and a water storage tank is fixedly connected to the mobile base; a plurality of runoff plots are arranged above the water storage tank; the runoff plots are obliquely arranged; the low end of the runoff plot is rotatably connected with the top wall of the water storage tank; the top wall of the water storage tank is provided with a plurality of water leakage holes; the water storage tank is provided with a lifting mechanism; the lifting mechanism is movably connected with the higher end of the runoff plot; the runoff plot is provided with a water outlet hole; the water outlet hole is located at the lower end of the runoff plot; and a collection component, which comprises a collecting bucket; the collecting bucket is detachably connected with an upper cover; the upper cover is provided with a water inlet hole; the water inlet hole is communicated with the water outlet hole through a hose; the collecting bucket is arranged on the mobile base. The device is equipped with runoff plots with different slopes according to the test requirements, and can also collect washed soil, so it is convenient to use.



#### 21: 2023/08722. 22: 2023/09/13. 43: 2024/03/18 51: C05G

71: Pastoral Water Conservancy Science Research Institute of the Ministry of Water Resources 72: Zhou Hui, Guo Jiawei, Liu Yi, Yuan Shujuan, Wang Jian, Liu Hu, Qian Hongyu, Liu Xiaoyan, Abias, Li Jinrong, Tian Xiumin, Li Hongfang, Dong Lei, Wang Qi, Shi Jianli, Miao Henglu, Ge Nan, Cheng Bo, Tang Guodong, Jin Lingna, Zhang Ziqi 33: CN 31: 202310765335.1 32: 2023-06-27

#### 54: COMPOSITE BIOCHAR SALINE SOIL CONDITIONER AND PREPARATION METHOD THEREOF

00: -

The invention discloses a composite biochar saline soil conditioner and a preparation method thereof, which comprises biochar, anionic organic polymer, phosphogypsum, zeolite, furfural residue and waterretaining agent. In the preparation process, the anionic organic polymer is first loaded on the surface of the biochar, and then mixed with other raw materials evenly. According to the invention, an anionic organic polymer is loaded with biochar, so that metal cations in the soil can be effectively adsorbed and complexed for a long time, so that the metal cations are lost along with irrigation and rainwater to reduce the salinization degree, and the strong ion exchange effect of zeolite is synergistic to adsorb and remove metal cations and free anions in the salinized soil; the synergistic effect of furfural residue and phosphogypsum regulates the acidity and alkalinity of soil; the water-retaining agent can improve the water content in soil, improve the waterretaining effect of soil, facilitate the growth of plant crops and enhance the crop resistance. The preparation process of the invention is simple and convenient, the raw material cost is low, so the invention has high popularization and application value.

21: 2023/08723. 22: 2023/09/13. 43: 2024/03/18 51: A61B

71: Branch of Animal Husbandry and Veterinary of Heilongjiang Academy of Agricultural Sciences 72: Ding Liyan, He Baoguo, Han Yongsheng, Wang Hongbao, Li Ping, Li Tongbao, Li Hongyu, Ding Deli, Li Wei, A Xiaohui, Li Yulong, Li Qingying, Yao Meiling, Lin Xiuwei, Zhu Yuanfang, Wang Hao, Wang Yanfei, Li Li, Wang Jiahui, Song Xueying, Wang Ruoding, Huo Mingdong, Wang Dexiang, Huang Meng, Liu Wen, Lan Shijie, Guo Chunhui, Jia Bin, Huang Hong

#### 33: CN 31: 202222715803.8 32: 2022-10-07 54: DETECTING AND COUNTING DILUTER FOR BULL SEMEN DENSITY 00: -

The invention relates to a detecting and counting diluter for bull semen density, which aims to solve the problems that a dropper for diluting and sucking semen and sodium chloride is a dropper with one end used for sucking, which needs to absorb semen and sodium chloride, and will cause the semen at the end of the dropper to be easily mixed with the sodium chloride solution not yet sucked when sucking the sodium chloride, and at the same time, because the diameter of the dropper is very small, there is not enough space for full mixing. The invention comprises a dropper body (1), wherein both ends of the dropper body are respectively inserted with an airbag body (2) for controlling the dropper body to suck liquid; the dropper body comprises a straight pipe section (12), and two ends of the straight pipe section are respectively provided with a tapered pipe section (11); the dropper body is provided with scales (13) which gradually increases from the tapered pipe section to the straight pipe section. The invention is used for dilution in bull semen density detection.



21: 2023/08724. 22: 2023/09/13. 43: 2024/03/18 51: A61K

71: Institute of Industrial Crops of HeilongjiangAcademy of Agricultural Sciences72: Fan Guoquan, Gao Yanling, Wang Xianguo,Xiao Changwen, Ma Li, Zhang Shu, Di Guili, Han

Shuxin, Wang Peng, Li Qingquan, Wang Wenjun,
Liu Kai, Zhang Lei, Yan Feng, Yu Jiang
33: CN 31: 202310076308.3 32: 2023-02-08
54: CRUSHER FOR DETECTING POTATO
DISEASES

00: -

The invention relates to the technical field of crushers, and in order to solve the problem that the existing crushers cannot effectively pre-clean the potatoes, the invention discloses a crusher for detecting potato diseases, which comprises a housing, wherein the top of the housing is provided with a feeding housing; a discharging pipe is arranged at the bottom of the housing, and a crushing mechanism is arranged inside the housing. In the invention, the potatoes are sprayed and washed by the spraying mechanism, the bottom of the potatoes is washed, and the meshes of the supporting mesh plate can also be washed, and in the process of reciprocating swinging spraying of the spraying pipes, the movable mesh grooves vibrate, and in the process of vibrating of the movable mesh grooves, one end of each movable mesh groove extending to the top of the supporting mesh plate can push the bottom of the potatoes, so that the water jet from the spraving pipes can effectively wash the side where the bottom of the potato is attached to the supporting mesh plate, thus improving the cleaning efficiency of the potatoes.



#### 21: 2023/08725. 22: 2023/09/13. 43: 2024/03/18 51: C07K

71: Institute of Industrial Crops of Heilongjiang Academy of Agricultural Sciences
72: Fan Guoquan, Gao Yanling, Xiao Changwen, Wang Xianguo, Ma Li, Zhang Shu, Di Guili, Han Shuxin, Wang Peng, Li Qingquan, Wang Wenjun, Liu Kai, Zhang Lei, Yan Feng, Yu Jiang
33: CN 31: 202310086969.4 32: 2023-02-09
54: VIRUS TRANSPORTING AND STORING BOX FOR DETECTING POTATO DISEASES
00: -

The invention relates to the technical field of virus transporting and storing boxes, and discloses a virus transporting and storing box for detecting potato diseases in order to solve the problem that the existing transporting and storing boxes have poor buffering and shock absorption effect on virus sealing tanks when in use, which comprises a box body, wherein a through hole is formed at the top of the box body, a movable door is movably installed in the through hole, the virus sealing tanks are stored in the box body, and the top opening of each of the virus sealing tanks is provided with a sealing cover. According to the invention, when the virus sealing tank is placed, the virus sealing tank presses the supporting airbag, so that compressed air in the supporting airbag is conveyed to the jacking airbag through a connecting pipe, and the jacking airbag

inflates and jacks the movable seat and the extension rod to move horizontally, so that the limiting protrusion moves horizontally to the inside of the limiting sleeve; during transporting, when the virus sealing tank vibrates up and down, the limiting protrusion is clamped into the groove, so that the virus sealing tank is limited, and violent vibrating of the virus sealing tank in the vertical direction during transporting is avoided.



- 21: 2023/08726. 22: 2023/09/13. 43: 2024/03/18 51: C05G
- 71: Shandong Agricultural University

72: Wu Qicong, An Chunchun, Ma Ning, Dong Zhi, Li Xiaoqian, Chen Xinchuang, Dong Qianyu, Chen Yang, Zhang Chenxu, Liu Ruilin

#### 33: CN 31: 202310836911.7 32: 2023-07-10 54: METHOD SUITABLE FOR IMPROVING SANDY FLUVO-AQUIC SOIL STRUCTURE AND INCREASING CAPACITY AND EFFICIENCY OF NUTRIENTS

00: -

The invention discloses a method suitable for improving sandy fluvo-aquic soil structure and increasing capacity and efficiency of nutrients, comprising the following steps: mixing a biomass charcoal material and a water-absorbent resin to obtain a soil amendment material; then applying the obtained soil amendment material to the sandy fluvo-aquic soil plot to be treated, and sowing the seeds of nitrogen-fixing plants on the plot. The biomass charcoal material is corn straw biochar pyrolyzed at high temperature, and the waterabsorbent material is acrylic water-absorbent resin material. According to the invention, biochar with a specific specification is matched with a waterabsorbent resin material to form an amendment material, and the specific amendment material, supplemented by mixed application of a tillage layer and planting of nitrogen-fixing grasses, can effectively eliminate the structural obstacles of sandy fluvo-aquic soil, improve the structural stability of soil aggregates, increase the availability of soil organic matter and nutrients, and promote the rapid improvement of soil fertility in sandy fluvo-aquic soil areas.



#### 21: 2023/08727. 22: 2023/09/13. 43: 2024/03/18 51: G01N

71: FIRST INSTITUTE OF OCEANOGRAPHY, MINISTRY OF NATURAL RESOURCES 72: Yazhi BAI, Aimei ZHU, Hui ZHANG, Jihua LIU 54: A METHOD OF THE DETERMINATION FOR 16 PAHS IN SEDIMENTS BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY 00: -

The invention provides a method for determining 16 PAHs in sediment by gas chromatography-mass spectrometry. The procedure includes sediment dehydration, grinding, extraction, purification and determination. The sample is extracted by ASE to obtain the bulk lipid. Then the lipid is concentrated and purified with glass chromatographic column. The 16 PAHs are analyzed by gas chromatography-mass spectrometry. The compositions of 16 PAHs are determined according to the retention time of chromatographic peak and the characteristic ions of the mass spectrum, meanwhile the internal standard method is used for quantification. This method is suitable for sample treatment, analysis and testing of

16 PAHs in sediments in coastal, estuarine, harbor, marine and aquaculture areas.

21: 2023/08728. 22: 2023/09/13. 43: 2024/03/18 51: A23K; A61K

71: GANSU FORESTRY VOCATIONAL AND TECHNICAL COLLEGE, XIZANG COLLEGE OF AGRICULTURE AND ANIMAL HUSBANDRY 72: Yanjun MIAO, Chuanqi WANG, Yamei XU, Henna BAOSAI, Mingtao WANG 54: CULTIVATION AND MANAGEMENT METHOD OF ELYMUS NUTANS GRISEB IN ALPINE REGION 00: -

Disclosed is a cultivation and management method for Elymus nutans Griseb in an alpine region, which solves the cultivation and management techniques of Elymus nutans Griseb in relatively harsh natural environments by starting with land plowing, seed treatment, sowing, and field management (irrigation, fertilization), and overcomes the difficulty of low yield of Elymus nutans Griseb in the Tibetan Plateau.



21: 2023/08729. 22: 2023/09/13. 43: 2024/03/18 51: A01B; A01G

71: GANSU FORESTRY VOCATIONAL AND TECHNICAL COLLEGE, XIZANG COLLEGE OF AGRICULTURE AND ANIMAL HUSBANDRY 72: Yanjun MIAO, Chuanqi WANG, Yamei XU, Henna BAOSAI, Mingtao WANG 54: CULTIVATION AND MANAGEMENT METHOD SUITABLE FOR PLANTING GRASS ON RIVERBANK SANDY LAND 00: - Disclosed is a cultivation and management method suitable for planting forage in the sandy land along the river bank. The method solves the survival rate problem of forage in the relatively harsh natural environment and alleviates the desertification problem of the river bank in the rice forest section of the Yarlung Zangbo River from the aspects of grass seed selection, land selection, sand barrier setting, cell wall laying, seeding, field management (irrigation, fertilization), etc, and this method is further applied in ecological construction and grassland animal husbandry production.



21: 2023/08758. 22: 2023/09/14. 43: 2024/03/18 51: C02F 71: Dr. R. UmaRani, Dr. J. Rajesh Banu

72: Dr. R. UmaRani, Dr. J. Rajesh Banu, Dr. S. AdishKumar 54: A SYSTEM FOR IMPROVING

SOLUBILIZATION AND ANAEROBIC BIODEGRADABILITY OF DAIRY WASTE ACTIVATED SLUDGE

The present disclosure relates to a system for improving solubilization and anaerobic

biodegradability of dairy waste activated sludge. The present disclosure provides a system that uses an alkaline pretreatment to weaken the cell walls and a disperser for a sudden pressure change to lyse the cells of dairy waste activated sludge before anaerobic digestion. It is also noted that there are not many works on the optimization of chemo (alkaline)-mechanical (dispersion) disintegration of dairy waste activated sludge at low specific energy and short duration to improve biogas yields. Sludge solubilization, suspended solids reduction, and biogas production were used to assess the impact of various pretreatment conditions. The results shows that chemo-mechanical pretreatment is an efficient way to increase biodegradability and it created the groundwork for greater biogas production and cleaner energy production from WAS.



21: 2023/08811. 22: 2023/09/18. 43: 2024/03/18 51: A61H

71: ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY

72: ZHAO, Runze, LIU, Yuwan, BAI, Xin, DU, Zixuan, PAN, Ting, LI, Ruiqi, HU, Jing, MIAN, Jinyi, XIE, Pingyan, YAN, Xiaoyu, ZHAO, Jinlong, JIA, Wanying, LI, Sha, HAMULATI, Haimeiyan, GUO, Jingyao

# 54: THERAPEUTIC EQUIPMENT FOR LIMB REHABILITATION

00: -

The present invention belongs to the field of therapeutic equipment, in particular to a therapeutic equipment for limb rehabilitation. The solution comprises a bottom plate; two brackets are symmetrically fixed at the bottom of the bottom plate; a mobile device is movably installed at the bottoms of the two brackets; fixed blocks are symmetrically fixed at the top of the bottom plate; the two fixed blocks are rotatably provided with a same rotating rod; an installing plate is fixedly installed on the rotating rod; a backing plate is fixedly installed on the installing plate; a protecting pad is fixedly installed on one side of the backing plate; a driving motor is fixedly installed on one fixed block of the two fixed blocks; a connecting shaft is fixedly installed on an output shaft of the driving motor; the connecting shaft is fixedly connected with the rotating rod.



21: 2023/08815. 22: 2023/09/18. 43: 2024/03/18 51: B23K

71: Guangdong South Hongming Electronic Science and Technology Co., Ltd.

72: Zhao Junbin, Luo Shiyong, Luo Zhicheng, Liu Hengwu, He Qiang, Yang Kangqiang 33: CN 31: 202211147906.7 32: 2022-09-21

# 54: PROCESS FOR ASSEMBLING AND WELDING CHIP COMPONENTS

A process for assembling and welding chip components is disclosed in the present invention. The process for assembling and welding chip components includes: S1, positioning a first conjoined lead provided with a plurality of first leads on a first circulating fixture; S2, providing solder on ends of the plurality of first leads of the first conjoined lead separately; S3, assembling and fixing a plurality of ceramic chips subject to preheating treatment to the ends of the corresponding first leads

respectively; S4, positioning a second conjoined lead provided with a plurality of second leads on a second circulating fixture; S5, providing solder on ends of the plurality of second leads of the second conjoined lead separately; S6, taking the second conjoined lead out from the second circulating fixture, and turning and positioning the second conjoined lead on the first circulating fixture; and S7, welding the first leads, the second leads and the ceramic chips together by using an electrothermal welding head. According to the present invention, traditional reflow soldering is replaced by electrothermal soldering, such that a step of heating gas is omitted, a large-size box is not required, energy consumption is reduced, and production cost of an enterprise is lowered.



21: 2023/08858. 22: 2023/09/19. 43: 2024/03/20 51: E01D

71: GANSU CHANGLONG HIGHWAY MAINTENANCE TECHNOLOGY RESEARCH INSTITUTE CO., LTD., GANSU PROVINCE TRANSPORTAT PLANNING, SURVEY & DESING INSTITUTE CO.LTD.

72: MA, Keyan, CHEN, Yongliang, SONG, Bo, SUN, Jie, RAN, Jingai

33: CN 31: 2023102216391 32: 2023-03-09 54: STEEL PLATE-CONCRETE COMPOSITE STRENGTHENING STRUCTURE AND CONSTRUCTION METHOD FOR REINFORCED CONCRETE T-BEAM

00: -

The present invention relates to the technical field of bridge strengthening and maintenance. Disclosed is a steel plate-concrete composite strengthening structure and construction method for a reinforced concrete T-beam. The steel plate-concrete composite strengthening structure for a reinforced concrete T-beam comprises: steel casings sleeved on outer sides of reinforced concrete T-beams, with grout cavities formed between the steel casings and the reinforced concrete T-beams, shear stud groups arranged on inner surfaces of the steel casings, a plurality of connecting rebars, with one end of the connecting rebars embedded in the reinforced concrete T-beam and the other end extending into the grout cavity, reinforcing meshes arranged within the grout cavities and tied up to the connecting rebars, and grout materials pressure-injected into the grout cavities to connect the reinforced concrete T-beams to the steel casings through the connecting rebars, the reinforcing meshes, and the shear stud groups. The present invention makes use of the existing reinforced concrete T-beams, and can significantly improve the load-carrying capacity of bridges, shorten the construction period, reduce reconstruction costs, and minimize the impact of road and bridge construction on traffic.



- 21: 2023/08859. 22: 2023/09/19. 43: 2024/03/20 51: G01N
- 71: TIANJIN UNIVERSITY
- 72: XU, Ying, XIA, Kaiwen, CHEN, Rong, WU, Bangbiao

#### 54: A SELF-ALIGNED SPLIT HOPKINSON PRESSURE BAR SYSTEM ACCOMMODATING VARIABLE-DIAMETER ROCK BARS 00: -

The present invention relates to a self-aligned split Hopkinson pressure bar system accommodating variable-diameter rock bars. Variable-diameter incident bar and variable-diameter transmitted bar self-aligning securing supports are arranged on a horizontal support platform, and a roller piston securing disc is attached to each support with telescopic roller pistons arranged on each securing disc. The ends of the telescopic roller pistons are provided with rollers for supporting a variablediameter incident bar and a variable-diameter transmitted bar without limiting the axial movement of the bar. The extending lengths of the telescopic roller pistons can be changed by controlling the pressure of a pneumatic pump or hydraulic pump, thereby achieving self-aligning and tight clamping of the bar by the rollers. The self-aligning securing supports of the variable-diameter bar facilitate the quick loading and replacement of bars with different diameters, and the rapid, high-precision automatic aligning of bars by controlling the synchronous extension and retraction of the roller pistons. The present invention features convenient commissioning, cost-efficiency, and increased adjustability and universality.

21: 2023/08892. 22: 2023/09/20. 43: 2024/03/20 51: A61L; B08B

71: ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY

72: HUANG, Yanjun, LI, Xiaohuan, JIA, Lili, LI, Na, WANG, Shuyuan, ZHANG, Qiuxia, LIU, Juan **54: HIGH-PRESSURE CLEANING DEVICE FOR MEDICAL CLINICAL NURSING EQUIPMENT** 00: -

Disclosed is a high-pressure cleaning device for medical clinical nursing equipment. The following solution is proposed with respect to the problems that when the existing cleaning equipment is used for cleaning, the waste water cannot be directly collected, and medical tools cannot be fully cleaned; for washing in a large area, large water pressure is needed increasing the costs; for washing in a small area, the tools cannot be fully washed, resulting in incomplete cleaning. The solution comprises a cleaning box, the bottom of which is provided with four foot pads; the top of the cleaning box is rotatably provided with a groove cover; the bottom of the groove cover is an open structure; two lock catches are arranged between the groove cover and the cleaning box; the front surface of the cleaning box has a controller. The medical tools are filtered by a metal filter net, collected and reused.



21: 2023/09655. 22: 2023/10/16. 43: 2024/03/07 51: G01M; G06K; G06N 71: SHENZHEN TECHNOLOGY UNIVERSITY 72: CHEN, Fei, YANG, Zheng, XU, Binbin, MA, Boquan, ZHOU, Xin, QU, Zege 33: CN 31: 202210598529.2 32: 2022-05-30 54: SEMI-SUPERVISED FAULT DETECTION AND ANALYSIS METHOD FOR MECHANICAL EQUIPMENT, DEVICE, TERMINAL AND MEDIUM THEREOF 00: -

Disclosed are a method, device, terminal and medium for semi-supervised fault detection and analysis for mechanical equipment. Aiming at the problem of incomplete labeled data of mechanical equipment, a triplet network model is trained in advance through a small number of labeled samples and a large number of unlabeled samples, and used to perform fault feature extraction on labeled samples and unlabeled samples using different

branches, guide the feature extraction of labeled samples by using the information contained in unlabeled samples. Unsupervised learning is adopted to supplement supervised learning, to achieve the effective use of a large number of unlabeled data. Compared to prior art, accurate identification of faults with fewer tags is provided.



21: 2023/10138. 22: 2023/10/31. 43: 2024/02/05 51: A01N; C05D; C05G 71: BELVEDERE FOLIAR LLC 72: COBB, David A. 33: US 31: 62/469,087 32: 2017-03-09 33: US 31: 62/609,137 32: 2017-12-21 54: POST-EMERGENCE HERBICIDE

00: -

Some embodiments relate to herbicide compositions and methods of inducing phyotoxicity in a plant, by administering an aqueous composition to foliar portions of the plant. This aqueous composition includes at least one nutrient, and at least one adjuvant, and has a pH of about 4 to about 7. In some embodiments, the aqueous composition comprises an organic or mineral acid. In some embodiments, the phytotoxicity is topical. In some embodiments, the phytoxicity is systemic. Without being limited by theory, the nutrient is absorbed by the plant in excess, thereby killing the plant.



21: 2023/11166. 22: 2023/12/04. 43: 2024/01/16 51: C06B

71: HYPEX BIO EXPLOSIVES TECHNOLOGY AB
72: GUSTAVSSON, THOMAS, HÅKLAND,
ROBERT, NILSSON, STEFAN
33: EP 31: 21172313.5 32: 2021-05-05
54: COMPOSITION FOR FORMING A HYDROGEN
PEROXIDE BASED EMULSION EXPLOSIVE
00: -

A composition for forming a hydrogen peroxidebased emulsion explosive which composition comprises; an oxidizer-phase comprising at least 15% by weight of hydrogen peroxide and at least 15% by weight of water, a fuel-phase comprising at least one oil type fuel, a liquid emulsifier and at least one finely divided colloidal non-sensitizing solid adsorbent, wherein the oxidizer-phase is discontinuously dispersed throughout the continuous fuel-phase. A method of preparing an emulsion type explosive composition is also disclosed.

21: 2023/11167. 22: 2023/12/04. 43: 2024/01/17 51: C06B 71: HYPEX BIO EXPLOSIVES TECHNOLOGY AB 72: GUSTAVSSON, THOMAS, HÅKLAND, ROBERT, NILSSON, STEFAN 33: EP 31: 21172318.4 32: 2021-05-05 54: SENSITIZING COMPOSITION FOR ENERGETIC HYDROGEN PEROXIDE EMULSIONS 00: -

A sensitizing composition for generating gas bubbles in an energetic hydrogen peroxide emulsion is disclosed. The sensitizing composition comprises a

liquid carrier, a solid hydrogen peroxide catalyst which is dispersed in the liquid carrier and; a coating agent which is non-soluble in hydrogen peroxide and in water and which is arranged to coat the solid hydrogen peroxide catalyst dispersed in the liquid carrier. A method of preparing such a sensitizing composition is also disclosed.

21: 2023/11168. 22: 2023/12/04. 43: 2024/01/16 51: C06B

71: HYPEX BIO EXPLOSIVES TECHNOLOGY AB 72: GUSTAVSSON, THOMAS, HÅKLAND, ROBERT, NILSSON, STEFAN 33: EP 31: 21172315.0 32: 2021-05-05 54: COMPOSITION FOR FORMING AN EXPLOSIVE COMPRISING AN EMULSION OF HYDROGEN PEROXIDE AND AN OIL TYPE FUEL 00: -

A composition for forming a hydrogen peroxide based emulsion explosive which composition comprises; an oxidizer-phase comprising at least 35% by weight of hydrogen peroxide and at least 25% by weight of water, a fuel-phase comprising at least one primary oil type fuel with a flash point below 100 °C and at least one secondary oil type fuel with a flash point over 150° C and at least one emulsifier, wherein the oxidizer-phase is discontinuously dispersed throughout the continuous fuel-phase. A method of preparing an emulsion type explosive composition is also disclosed.

21: 2023/11236. 22: 2023/12/06. 43: 2024/03/07 51: B29C

71: ANHUI YAXINKE SEALING TECHNOLOGY CO., LTD

72: ZHOU, Yao

33: CN 31: 2022107440774 32: 2022-06-27 54: DEMOULDING FIXTURE FOR RUBBER CUP 00: -

The present invention relates to a demoulding fixture for a rubber cup. The demoulding fixture for a rubber cup includes pressing blocks and lower mould cores, where rubber cups are arranged between the pressing blocks and the lower mould cores, middle mould cores are arranged outside the rubber cups, and the middle mould cores are snap-fitted with the pressing blocks and the lower mould cores separately; two demoulding grooves are symmetrically arranged inside the pressing blocks, demoulding mechanisms are arranged inside the demoulding grooves, a T-shaped pipe which is in communication with an external air pump is arranged above the pressing blocks, and two sides of the T-shaped pipe are symmetrically provided with air blowing mechanisms configured to cool the rubber cups. By injecting air into air inlet pipes, first pistons in air cylinders move, and first push plates match rubber plates to provide thrust for the lower mould cores, which facilitates demoulding of the rubber cups. Further, the rubber plates are deformed and thinned, and gas in the air cylinders enters air outlet pipes, such that second pistons moves towards limiting plates, second push plates provide thrust for the rubber cups, and the rubber cups are prevented from sticking to the pressing blocks.



21: 2023/11420. 22: 2023/12/12. 43: 2024/03/07 51: C07K; C12N; G01N 71: HEFEI TG IMMUNOPHARMA CO., LTD. 72: TIAN, Zhigang, CHENG, Ying, XIAO, Weihua, CAO, Guoshuai, SUN, Haoyu, SUN, Rui 33: CN 31: 202111485404.0 32: 2021-12-07 54: BISPECIFIC ANTIBODIES AND USES OF THE SAME THEREOF

#### 00: -

Provided are a bispecific antibody and use thereof. The recombinant antibody includes: a CDR sequence selected from at least one of CD3 antibody variable region CDR sequences: SEQ ID NO: 1 to SEQ ID NO: 6, and B7H6 antibody variable region CDR sequences: SEQ ID NO: 7 to SEQ ID NO: 12; or an amino acid sequence having at least 95% identity thereto. The recombinant antibodies prepared according to the present application can simultaneously target CD3 and B7H6 antigens, and they have a significantly prolonged half-life,

exhibiting a stronger tumor-inhibiting ability than single-target antibodies.

21: 2023/11598. 22: 2023/12/18. 43: 2024/01/16 51: B21F

71: CCCC SECOND HARBOR ENGINEERING CO., LTD., CCCC HIGHWAY BRIDGES NATIONAL ENGINEERING RESEARCH CENTER CO., LTD., CCCC WUHAN HARBOUR ENGINEERING DESIGN AND RESEARCH CO., LTD. 72: ZHANG, HONG, YANG, XIULI, ZHANG, YONGTAO, TIAN, WEI, CHEN, MING, CHENG, MAOLIN, WU, ZHONGZHENG, CHEN, BIN, YAN, SHUANGQIAO, YU, CHANGWEN, DONG, QIFENG, LI, DONGDONG, ZHU, MINGQING, TU, TONGHENG, ZHANG, XIAOPING, PAN, DAOHUI, ZHANG, YIPENG, XIAO, HAO, LENG, ZHIJIAN, YI, FEI, XIA, HAO, HUANG, JIAN, HUA, XIAOTAO, WU, XUEFENG, LI, TAO, LIU, XIUCHENG, GUAN, ZHENGLIN, FAN, CHENYANG, JI, XIAOYU, FANG, ZHIYAO

#### 33: CN 31: 202110661983.3 32: 2021-06-15 54: FORMING PROCESS FOR ULTRA-LARGE-DIAMETER ANNULAR REINFORCING MESH COMPONENT

00: -

Disclosed in the present invention is a forming process for an ultra-large-diameter annular reinforcing mesh component, the forming process comprising the following steps: S1, preparing a planar reinforcing mesh; S2, bending and forming the planar reinforcing mesh to form a semi-circular reinforcing mesh, and abutting and fixing two arc reinforcing meshes to form an annular mesh; and S3, abutting and fixing a plurality of annular meshes to form an annular component. In the present invention, planar reinforcing meshes are mechanically produced, then, the meshes are bent into arcs by using a special arc-bending apparatus, and finally, the meshes are joined into rings and provided with drag hook ribs in an insertion manner to finally form a component, such that the manpower input for steel bar binding can be reduced, the steel bar binding quality is improved, and the bridge tower construction efficiency is improved.



21: 2023/11634. 22: 2023/12/19. 43: 2024/03/07 51: H04N

71: Shenzhen Rontex Technology Co., Ltd. 72: LIU, Xianghua

#### 33: CN 31: CN202210934568 .5 32: 2022-08-04 54: A REAL-TIME MONITORING METHOD BASED ON USER BEHAVIOR AND RELATED DEVICE 00: -

The invention discloses a real-time monitoring method based on user behavior and related device. The real-time monitoring method based on user behavior is applied to an isolation monitoring system, which includes a door magnetic module and a camera module. The camera module is in communication connection with the door magnetic module. The method includes: when the door magnetic module detects a door-open state, the target shooting area and the shooting content uploaded by the camera module are received; the user behavior attribute in the activity area is determined by the user behavior and duration in the shooting content. The activity area includes the target area; whether the user behavior attribute is in violation of regulations or not is judged based on the behavior grade of the behavior attribute; if the user behavior is in violation of regulations, a real-time reported warning operation will be triggered and the user will be prompted. The invention improves the monitoring strength of the isolation and reduces the isolation cost.



21: 2024/00088. 22: 2024/01/02. 43: 2024/02/05 51: B01J

- 71: ZHOU, Xueming
- 72: ZHOU, Xueming

33: WO 31: PCT/CN2021/077729 32: 2021-02-24 54: CATALYST AND APPLICATION THEREOF 00: -

A chiral crown ether catalyst and an application thereof. The structure of the catalyst is as shown in formula (VI), wherein R2 and R3 are both phenyl groups, alternatively, R2 and R3 are connected to form an A-ring, and the A-ring is a benzene ring or cyclohexane; a supported material of the catalyst (VI) may be used for catalytic synthesis of an unnatural amino acid, and the material can be separated by means of simple filtration, such that recycling is achieved.

21: 2024/00107. 22: 2024/01/02. 43: 2024/02/19 51: G06F

71: Xiamen Yudian Automation Technology Co., Ltd. 72: Yu ZHOU

33: CN 31: 202211255274.6 32: 2022-10-13 54: REAL-TIME TEMPERATURE DETECTION METHOD FOR POWER BATTERY PACK 00: -

The present invention provides a real-time temperature detection method for a power battery pack. The method is implemented to realize temperature detection and thermal field analysis of the power battery pack. A temperature field of the power battery pack is simulated through current and voltage information, and material thermodynamic parameters of the power battery pack, and discrete measured temperature data is corrected through a deep neural network and a Kalman filter, so that an established temperature field model can reflect the actual temperature field distribution of the battery pack more truly.



21: 2024/00164. 22: 2024/01/03. 43: 2024/01/29 51: B01D; C02F

71: SUZHOU XINNENG ENVIRONMENTAL TECHNOLOGY CO., LTD 72: TANC, Yoborg, LUL, Jingguong, MANC

72: TANG, Yehong, LIU, Jingguang, WANG, Yanzong, HE, Bolin, CHU, Yingying
33: CN 31: 202310001229.6 32: 2023-01-03
54: WATER FILTERING STRUCTURE AND SYSTEM COMPRISING SAME

00: -

Embodiments of the present application provide an ultrapure water filtering structure and a system including the same, which relate to the technical field of ultrapure water filtration. The ultrapure water filtering structure includes an inlet pipe, a drain pipe, and disc filters. Upper discs are sleeved on a pipe, and each of the upper discs has tapered upper and lower end surfaces. Lower discs are rotatably

sleeved on the pipe. The lower discs are staggered with the upper discs and are identical in structure and size to the upper discs. Since the upper discs and the lower discs have the tapered upper and lower end surfaces and are combined with a ramp, the ramp is driven to rotate by water flow during backwashing of the disc filter, so that the upper discs and the lower discs rotate relative to each other, causing impurities between the upper discs and the lower discs to rotate, which makes it easier to discharge the impurities along with the backwashing water flow, thereby reducing the probability that the disc filter is clogged by impurities.



21: 2024/00297. 22: 2024/01/09. 43: 2024/01/29 51: G06F; H02J; G06Q 71: NORTH CHINA ELECTRIC POWER UNIVERSITY

72: WANG, Yongli, TAO, Siyi, GUO, Wenhui, YAN, Zixin, DONG, Huanran, GUO, Lu, DUAN, Haohan 33: CN 31: 202310973805.3 32: 2023-08-04 54: METHOD AND APPARATUS FOR PLANNING EQUIPMENT CAPACITY OF INTEGRATED ENERGY STATION, TERMINAL, AND STORAGE MEDIUM

00: -

The present application provides a method and an apparatus for planning an equipment capacity of an integrated energy station, a terminal, and a storage medium. The method includes: obtaining various data of point of interest within an energy supply region covered by the integrated energy station; clustering the various data of point of interest, and determining spatial distribution characteristics of power users of different power consumption types in the energy supply region based on the clustering result; calculating and obtaining, based on a spatial distribution characteristic and a load density of each type of the power users, a predicted total load; and constructing an objective function with a goal of minimizing a total life cycle cost of all equipment based on the predicted total load, and solving the objective function based on a constraint condition, to obtain an equipment capacity planning scheme of the integrated energy station.



33: CN 31: 202310981437.7 32: 2023-08-07 54: COLLABORATIVE PLANNING METHOD FOR INTEGRATED ENERGY SYSTEM CONSIDERING CARBON CYCLE OF WASTE POWER GENERATION

00: -

The present application provides a collaborative planning method for an integrated energy system considering a carbon cycle of a waste power generation, including: constructing, based on an integrated energy system architecture comprising a waste power generation equipment and a power to gas conversion equipment, a collaborative planning model for the integrated energy system, optimization objectives of the collaborative planning model being

to have a lowest annual total economic cost, a lowest carbon net emission, and a highest integrated energy efficient level; solving an optimal capacity configuration scheme set of the collaborative planning model by using a honey badger algorithm; and calculating a nearness degree of each optimal capacity configuration scheme in the optimal capacity configuration scheme set by using a Topsis algorithm, and selecting an optimal capacity configuration scheme with a highest nearness degree as an optimal capacity configuration scheme for the integrated energy system.



21: 2024/00378. 22: 2024/01/10. 43: 2024/03/14 51: A61K; A61P

71: HEMPIRE (SHANGHAI) PHARMACEUTICAL R&D LIMITED

72: ZOU, Chendong, TAI, Hei, WANG, Guijiang, XIAO, Wan, HUANG, Sui

33: CN 31: 202110916566.9 32: 2021-08-11 54: CANNABINOID COMPOSITION AND APPLICATION THEREOF IN PREPARATION OF DRUG FOR TREATING NEURODEGENERATIVE DISEASES SUCH AS PARKINSON'S DISEASE AND ALZHEIMER'S DISEASE 00: -

Disclosed are a cannabinoid composition and an application of the same in preparing a medicine for treating neurodegenerative diseases, so as to solve the drawbacks of conventional medicines such as serious side effects and degraded therapeutic effect after long-term administration. The cannabinoid composition includes: cannabidiol and cannabigerol, a mass ratio of the cannabidiol to the cannabigerol ranging from 1:1 to 1:10,or from 1: 0.3 to 1:0.5, or from 1:0.5 to 1:0.7, or from 1:0.7 to 1:1.The present disclosure adopts the experimental method of inducing differentiation of fibroblasts to dopaminergic neurons, wherein by observing the cell morphology, quantity, and relative expression level of DA-related factor of the differentiation-induced and cultured fibroblasts, and screening various common cannabinoids and different combinations thereof based on their impacts on inducing differentiation of the fibroblasts into dopaminergic neurons, it was found that the CBD+CBG combination offered an optimal effect in improving viability and dopaminesecreting capability of the dopaminergic neuronal cells; besides, the CBD+CBG combination is free of the addictive substance THC, which thus significantly reduces side effects and may be applied to prepare medicines for treating neurodegenerative diseases.



The invention relates to the field of experimental medicine and concerns the creation of a novel effective agent for correcting mitochondrial dysfunction in laboratory animals. The claimed invention addresses the technical problem of creating an effective and easy-to-use agent for the experimental correction of mitochondrial dysfunction. The technical result consists in increasing mitochondrial membrane potential and increasing neutrophil oxygen-dependent metabolism. This technical result is achieved by using an immunomodulatory agent for intramuscular injection, containing formaldehyde in an amount of 0.076-0.078% in an isotonic solution of sodium chloride at a concentration of 0.85-0.95%, as an agent for increasing mitochondrial membrane potential and increasing neutrophil oxygen-dependent metabolism.



21: 2024/00967. 22: 2024/01/29. 43: 2024/03/07 51: A01N

71: SYVENTO SP. Z O.O.

72: LIPKA, Dominik, CYZA, Malgorzata, ZAWILSKA, Patrycja

33: PL 31: P.438569 32: 2021-07-22

54: LIQUID PROLIPOSOME COMPOSITION OF PLANT PROTECTION AGENTS AND METHOD OF MAKING SAME 00: -

The invention relates to a liquid proliposome composition of plant protection agents and to a process for the preparation of the composition.



21: 2024/00968. 22: 2024/01/29. 43: 2024/03/07 51: A61K; C07K; C12N; A61P 71: HEFEI TG IMMUNOPHARMA CO., LTD. 72: TIAN, Zhigang, CAO, Guoshuai, XIAO, Weihua, SUN, Rui, SUN, Haoyu 33: CN 31: 202111485380.9 32: 2021-12-07 54: B7H6 ANTIBODY AND USE THEREOF 00: -

The present disclosure discloses a B7H6 antibody and use thereof. The antibody includes heavy chain CDR1, heavy chain CDR2 and heavy chain CDR3; and light chain CDR1, light chain CDR2 and light chain CDR3. The antibody of the present disclosure is capable of binding to B7H6, and promoting the binding of B7H6 to the NK cell activating receptor NKp30, with an anti-cancer function.



21: 2024/01040. 22: 2024/01/31. 43: 2024/02/19 51: A61K; C08L

71: PHATAK, ROHAN SHARADANAND 72: PHATAK, ROHAN SHARADANAND, BHUTKAR, MANGESH ANIL, CHOPADE, ATUL RAMCHANDRA, PATIL, PRAMOD ANIL 33: IN 31: 202121030394 32: 2021-07-06 54: "A PROCESS FOR PREPARING PLASTICIZER FREE HARD CAPSULE SHELL COMPOSITION"

00: -

A process for preparing plasticizer-free hard capsule shell composition comprising the steps of i) preparing a solution by dissolving water insoluble polymer in acetic acid; ii) preparing a solution by adding water soluble polymer in water and the said addition is subjected for heating unless a transparent solution is formed; iii) adding step (i) & (ii) in order to obtain a viscous product; iv) pouring the product as obtained in step (iii) in a mould; and v) drying the product as obtained in step (iv) to attain the hollow device in the form of a capsule shell.



#### 21: 2024/01041. 22: 2024/01/31. 43: 2024/02/19 51: B65D

71: NIKAM, PRASANNAJEET PRAMOD 72: NIKAM, PRASANNAJEET PRAMOD 33: IN 31: 202121031288 32: 2021-07-12 54: "WEARABLE FOREARM GEAR FOR ACHILLES TENDON STRETCHER" 00: -

Disclosed is a wearable forearm gear for Achilles Tendon Stretcher comprising of a wearable glove including a dorsal forearm component with a forehand palm portion and a wrist portion; a Foot rest Pad disposed over the wrist portion of the said glove; a plurality of adjustable belts fixed on the said glove; a heel rest notch fitted with pivot hinge operably connected with the wearable glove; an Electrically operated Mini-scissor lift; and a plurality of electrical button disposed over the fingers connected with a battery operated circuit configured for operating a mini scissor lift which provides variable mechanical force necessary while stretching the gastrocnemius muscle and reducing the load on the physiotherapist.



21: 2024/01653. 22: 2024/02/26. 43: 2024/03/07 51: C21B; C22B

71: PANGANG GROUP PANZHIHUA IRON & STEEL RESEARCH INSTITUTE CO., LTD. 72: TANG, Wenbo, CHEN, Mao, ZHU, Fengxiang, WU, Ning

33: CN 31: 202211429564.8 32: 2022-11-15 54: REDUCING AND NON-BLAST FURNACE SMELTING METHOD OF ALKALINE VANADIUM-TITANIUM PELLETS AND HOT-PRESSED CARBON-CONTAINING VANADIUM-TITANIUM PELLETS

#### 00: -

The present invention provides a reducing and nonblast furnace smelting method of alkaline vanadiumtitanium pellets and hot-pressed carbon-containing vanadium-titanium pellets. By upgrading the vanadium-titanium concentrates, improving quality of the reducing gas, increasing the proportion of the reduction section of the shaft furnace, removing the cooling section to achieve hot charging, and improving the electric furnace, the present invention accelerates the reduction rate of the vanadiumtitanium pellets reduced by the gas-based shaft furnace, improves the final reduction degree of the vanadium-titanium pellets, achieves the rapid nonblast furnace smelting of the vanadium-titanium pellets. At the same time, addition of the hot-pressed carbon-containing pellets can alleviate the problems caused by reduction swelling of pellets, overcome the problem that the alkaline vanadium titanium pellets does not meet the requirement of a reduction swelling rate of less than 10% of fed pellet ore for gas-based shaft furnace since its high reduction swelling rate, and broaden the variety of fed pellets for the shaft furnace. Meanwhile, compared with a blast furnace, less carbonaceous reducing agents are used to realize the continuous smelting of vanadium-titanium pellets with high metallization rate and short process, thereby reducing energy

consumption per ton of iron and carbon emissions, and assisting the vanadium-titanium ore smelting enterprise in promoting the implementation of "peak carbon dioxide emissions and carbon neutrality".

# HYPOTHECATIONS

No records available

JUDGMENTS

No records available

# OFFICE PRACTICE NOTICES

# RECTIFICATION OF THE PATENT REGISTER IN TERMS OF SECTION 52 OF THE PATENTS ACT 57 OF 1978

Notice is hereby given that the Registrar has ordered rectification of the patent register, in respect of South African Patent Application No. **2022/01533**, in the name of **Bayer Aktiengesellschaft**, by deleting the following entries:

- (a) 06/12/2023 Application accepted on 06/12/2023.
- (b) 28/02/2024 Patent granted on 28/02/2024.
- (c) 28/02/2024– Patent advertised on 28/02/2024.
- (d) Acceptance withdrawn on 16/02/2024.

# NOTICE TO IP STAKEHOLDERS/CLIENTS

Due to Wednesday 29 May 2024 having been declared a public holiday in view of the national elections taking place on that day, kindly note that the publication date for the May 2024 Patent Journal will be <u>30 May 2024</u>.



#### 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 2024/02/26 -

F2024/00226 - EAGLE LIGHTING (PTY) LTD Class 26. A LIGHT EMITTING DIODE DRIVER

A2024/00225 - EAGLE LIGHTING (PTY) LTD Class 26. A LIGHT EMITTING DIODE DRIVER

A2024/00228 - Munters Europe Aktiebolag Class 23. AIR TREATMENT UNITS

A2024/00223 - EAGLE LIGHTING (PTY) LTD Class 13. A LIGHT EMITTING DIODE DRIVER

A2024/00227 - Munters Europe Aktiebolag Class 23. AIR TREATMENT UNITS

F2024/00229 - HAGER, Jacobus Gerhardus Class 08. BOARD CLIP COMPONENTS

F2024/00224 - EAGLE LIGHTING (PTY) LTD Class 13. A LIGHT EMITTING DIODE DRIVER

- APPLIED ON 2024/02/27 -

A2024/00231 - YETI COOLERS, LLC Class 7. MUG

A2024/00230 - YETI COOLERS, LLC Class 7. MUG

- APPLIED ON 2024/02/28 -

A2024/00232 - Versuni Holding B.V. Class 07. EGG BOILER

- APPLIED ON 2024/02/29 -

A2024/00238 - Ezra Misonne Du Preez Class 11. BRACELET DESIGN

A2024/00235 - Ezra Misonne Du Preez Class 11. BRACELET DESIGN 30

A2024/00233 - GUERLAIN Class 09. FLASK

A2024/00239 - Ezra Misonne Du Preez Class 11. BRACELET DESIGN

A2024/00237 - Ezra Misonne Du Preez Class 11. BRACELET DESIGN

F2024/00234 - W.T.F.M INVESTMENTS (PTY) LTD. Class 8. KEY BLANK

A2024/00236 - Ezra Misonne Du Preez Class 11. BRACELET DESIGN

- APPLIED ON 2024/03/01 -

A2024/00240 - Société des Produits Nestlé S.A. Class 20. COUNTERS

- APPLIED ON 2024/03/04 -

F2024/00246 - Armando Giuseppe SPAGNOLO, Ezio Domenico SPAGNOLO Class 25. GATE BOGIE

A2024/00242 - BIOCORP PRODUCTION S.A., à Conseil d'Administration Class 24. AN ADD-ON MONITORING MODULE FOR AN INJECTION PEN

F2024/00244 - BIOCORP PRODUCTION S.A., à Conseil d'Administration Class 24. AN ADD-ON MONITORING MODULE FOR AN INJECTION PEN

A2024/00243 - BIOCORP PRODUCTION S.A., à Conseil d'Administration Class 24. AN ADD-ON MONITORING MODULE FOR AN INJECTION PEN

F2024/00245 - FLOORFLEX (PTY) LTD. Class 25. A FLOOR TILE

F2024/00241 - BIOCORP PRODUCTION S.A., à Conseil d'Administration Class 24. AN ADD-ON MONITORING MODULE FOR AN INJECTION PEN

- APPLIED ON 2024/03/05 -

F2024/00247 - SLEIPNER FINLAND OY Class 12. TRAILER

- APPLIED ON 2024/03/06 -

A2024/00249 - VIRGIL AQUA (PTY) LTD Class 09. CONTAINER

F2024/00248 - University of the Witwatersrand, Johannesburg Class 15. A TURBOMACHINE DEFINING A BYPASS PATH

- APPLIED ON 2024/03/07 -

F2024/00250 - PANDROL SA (PROPRIETARY) LIMITED Class 12. FISH PLATE BOLT

F2024/00253 - PANDROL SA (PROPRIETARY) LIMITED Class 12. BASE PLATE

A2024/00252 - Ezra Misonne Du Preez, OceanSA Class 11. JEWELLERY DESIGN

F2024/00254 - PANDROL SA (PROPRIETARY) LIMITED Class 12. RAIL CLIP

F2024/00251 - PANDROL SA (PROPRIETARY) LIMITED Class 12. BASE PLATE ASSEMBLY

- APPLIED ON 2024/03/08 -

F2024/00256 - SEAL COOL INDUSTRIES (PTY) LTD Class 15. A GASKET FOR A REFRIGERATION DOOR

F2024/00255 - EJAT Lerm Class 22. FLY AND FRUIT FLY TRAP

A2024/00257 - Lycopodium Minerals Pty Ltd Class 8. FASTENERS

- APPLIED ON 2024/03/11 -

F2024/00258 - PIENAAR, JOHAN Class 21. SCREW IN TENT PEGS

- APPLIED ON 2024/03/12 -

A2024/00259 - APPLE INC. Class 10. BAND

A2024/00261 - AF BRANDS (PTY) LTD Class 09. A BOTTLE F2024/00260 - CRAIG, Shaun Neil Class 13. BRACKETS - APPLIED ON 2024/03/13 -A2024/00265 - Turlen Holding SA Class 10. WATCHES A2024/00262 - Plastipak Packaging, Inc. Class 09. CONTAINER BASE F2024/00263 - Plastipak Packaging, Inc. Class 09. CONTAINER BASE A2024/00264 - Turlen Holding SA Class 10. WATCHES - APPLIED ON 2024/03/18 -A2024/00272 - PIMMS Group (Pty) Ltd Class 13. FIBRE MANAGEMENT TRAY A2024/00268 - JURO TRADING (PTY) LTD Class 25. KIOSK F2024/00273 - PIMMS Group (Pty) Ltd Class 13. FIBRE MANAGEMENT TRAY A2024/00276 - PIMMS Group (Pty) Ltd Class 13. FIBRE MANAGEMENT TRAY AND SPLICE BAY CASSETTE ARRANGEMENT F2024/00267 - JURO TRADING (PTY) LTD Class 25. KIOSK A2024/00279 - Suzuki Motor Corporation Class 12. AUTOMOBILES A2024/00269 - Abloy Oy Class 08. DOOR HANDLES WITH SECURITY LOCKS A2024/00280 - Eli Lilly and Company Class 9. BOXES A2024/00274 - PIMMS Group (Pty) Ltd Class 13. SPLICE BAY CASSETTE A2024/00278 - Eli Lilly and Company Class 9. BOXES F2024/00266 - OOSTHUIZEN TRUST Class 25. ROLLER DOOR FRAMES A2024/00281 - Eli Lilly and Company Class 9. BOXES F2024/00271 - Dean Gordon Findlay Class 07. SMOKELESS FIRE PIT F2024/00283 - PLASTIC INNOVATIONS (PTY) LTD Class 8. A DETONATOR HOLDER F2024/00277 - PIMMS Group (Pty) Ltd Class 13. FIBRE MANAGEMENT TRAY AND SPLICE BAY CASSETTE ARRANGEMENT A2024/00282 - HONDA MOTOR CO., LTD. Class 12. MOTORCYCLE A2024/00270 - THE BEVERAGE COMPANY (PTY) LTD Class 09. A BOTTLE F2024/00275 - PIMMS Group (Pty) Ltd Class 13. SPLICE BAY CASSETTE - APPLIED ON 2024/03/19 -

F2024/00287 - PLASTINTERNATIONAL (PTY) LIMITED Class 23. ABOVE GROUND METER BOX

A2024/00284 - Abloy Oy Class 08. LOCKS

A2024/00290 - YETI COOLERS, LLC Class 7. WINE CHILLER

F2024/00285 - Abloy Oy Class 08. LOCKS

A2024/00288 - Genuine Gold LLC Class 9. BOTTLES

A2024/00289 - Genuine Gold LLC Class 9. BOTTLES

A2024/00286 - PLASTINTERNATIONAL (PTY) LIMITED Class 23. ABOVE GROUND METER BOX

- APPLIED ON 2024/03/22 -

A2024/00293 - TARIS Biomedical LLC Class 24. STYLETS OF INDEFINITE LENGTH FOR URINARY PLACEMENT CATHETERS

A2024/00291 - TARIS Biomedical LLC Class 24. STYLETS FOR URINARY PLACEMENT CATHETERS

A2024/00295 - ROLEX SA Class 10. WATCH DIAL

A2024/00294 - ROLEX SA Class 10. WATCH DIAL

A2024/00292 - TARIS Biomedical LLC Class 24. HANDLES OF STYLETS FOR URINARY PLACEMENT CATHETERS

# 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 **HANSGROHE SE of Auestr 5-9.D-77761**, **Schiltach**, **Germany** has made application for the restoration of the design registered to the said **HANSGROHE SE** for the Design **HEAD SHOWER** application number: **A2015/00121** date **29/01/2015** which become void on **07/08/2021** 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

Notice is hereby given that MESO SCALE TECHNOLOGIES LLC of Research Boulevard, Rockville, Maryland 20850, Unites States of America has made application for the restoration of the design registered to the said MESO SCALE TECHNOLOGIES LLC for the Design DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE application number: A2019/00909 date 04/07/2019 which become void on 04/01/2022 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**

Notice is hereby given that MESO SCALE TECHNOLOGIES LLC of Research Boulevard, Rockville, Maryland 20850, Unites States of America has made application for the restoration of the design registered to the said MESO SCALE TECHNOLOGIES LLC for the Design DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE application number: A2019/00911 date 04/07/2019 which become void on 04/01/2022 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**

Notice is hereby given that MESO SCALE TECHNOLOGIES LLC of Research Boulevard, Rockville, Maryland 20850, Unites States of America has made application for the restoration of the design registered to the said MESO SCALE TECHNOLOGIES LLC for the Design DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE application number: A2019/00913 date 04/07/2019 which become void on 04/01/2022 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**

Notice is hereby given that MESO SCALE TECHNOLOGIES LLC of Research Boulevard, Rockville, Maryland 20850, Unites States of America has made application for the restoration of the design registered to the said MESO SCALE TECHNOLOGIES LLC for the Design DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE application number: A2019/00915 date 04/07/2019 which become void on 04/01/2022 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

No records available

# 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.

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: A2020/00758 22: 2020-06-09 23:

43: 1900-01-01

52: Class 28 24: Part A

71: RECKITT BENCKISER HEALTH LIMITED 33: EU 31: 007448832-0001 32: 2019-12-23

54: SOAP

57: The design is to be applied to a soap. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations.

## 54: AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE

57: The design is to be applied to an aerosol generating device, in particular tobacco heating device. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations.



FRONT PERSPECTIVE VIEW FROM THE TOP AND RIGHT SIDE

21: A2021/00464 22: 2021-04-30 23: 43: 2021-12-03 52: Class 27 24: Part A 71: PHILIP MORRIS PRODUCTS S.A. 33: EU 31: 008229397-0006 32: 2020-11-02



#### TOP PERSPECTIVE VIEW

21: A2021/00465 22: 2021-04-30 23: 43: 2021-12-03

52: Class 27 24: Part A

71: PHILIP MORRIS PRODUCTS S.A.

33: EU 31: 008229397-0005 32: 2020-11-02

## 54: AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE

57: The design is to be applied to an aerosol generating device, in particular tobacco heating device. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The broken lines are for illustrative purposes only and form no part of the claimed design.



### TOP PERSPECTIVE VIEW

- 21: A2022/00866 22: 2022-07-29 23:
- 43: 2024-01-17
- 52: Class Class 12. 24: Part A
- 71: ARTAV STAINLESS STEEL CC
- 54: Nudge Bar for a Vehicle

57: The design relates to a nudge bar for a vehicle. The features of the design are those of shape and/or configuration and/or ornamentation.



21: A2022/00967 22: 2022-08-15 23: 2022-02-16

- 43: 2024-01-17
- 52: Class Class 21. 24: Part A
- 71: FERRARI S.P.A.
- 33: IB 31: DM/219183 32: 2022-02-16

#### 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: A2022/01013 22: 2022-08-30 23:

- 43: 2024-01-17
- 52: Class Class 13. 24: Part A
- 71: EXTRATECH 2001 (PTY) LTD.

#### 54: Terminal Clamp

57: The design relates to a terminal clamp. The features of the design are those of shape and/or configuration.



- 21: A2022/01359 22: 2022-10-27 23: 2022-04-27
- 43: 2024-03-15
- 52: Class 20 24: Part A
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying publication drawing.



- 21: A2022/01418 22: 2022-11-09 23:
- 43: 2023-06-09
- 52: Class 09 24: Part A
- 71: ZITHANDE ENTERPRISES (PTY) LTD
- 54: PACKAGING

57: The novelty of the design resides in packaging having a two-dimensional graphic design applied thereto.



21: A2022/01420 22: 2022-11-09 23: 43: 2023-06-09

52: Class 24 24: Part A

71: ZITHANDE ENTERPRISES (PTY) LTD

#### 54: A SANITARY PAD

57: The novelty of the design resides in the shape, pattern configuration and/or ornamentation of a sanitary pad according to the design.



21: A2022/01462 22: 2022-11-09 23: 43: 2023-06-09

- 43. 2023-06-09 52: Class 32 24: Part A
- 71: ZITHANDE ENTERPRISES (PTY) LTD

54: A TWO-DIMENSIONAL GRAPHIC DESIGN FOR APPLICATION TO PACKAGING

57: The novelty of the design resides in a twodimensional graphic design for application to packaging.



- 21: A2022/01492 22: 2022-11-17 23:
- 43: 2024-02-19

52: Class 09 24: Part A 71: PETROLIAM NASIONAL BERHAD (PETRONAS)

33: MY 31: 22-E1040-0404 32: 2022-05-27 54: CONTAINER FOR LUBRICANTS

57: The design is in respect of a container designed to hold lubricants. More particularly, the container of the design is shaped and configured to hold a fluid volume of (5 L). The fluid of interest to be containerised being a lubricant.



21: A2022/01549 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15

52: Class 20 24: Part A

#### 71: THREE NIGHT OWLS (PTY) LTD **54: A DISPLAY DEVICE**

57: The novelty of the design resides in the shape and/or configuration of a display device having a width "W" and a height "H" that may vary.



- 21: A2022/01554 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15
- 52: Class 20 24: Part A
- 71: THREE NIGHT OWLS (PTY) LTD

#### **54: A DISPLAY DEVICE**

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation.



21: A2022/01555 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15 52: Class 20 24: Part A 71: THREE NIGHT OWLS (PTY) LTD

**54: A DISPLAY DEVICE** 

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation.



- 21: A2022/01559 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15
- 52: Class 20 24: Part A
- 71: THREE NIGHT OWLS (PTY) LTD
- 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation, wherein a portion marked "X" does not form part of the design and the shape and/or configuration of the portion X may vary.



- 21: A2022/01561 22: 2022-12-01 23: 2022-06-01
- 43: 2024-03-15
- 52: Class 20 24: Part A
- 71: THREE NIGHT OWLS (PTY) LTD
- 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially

as shown in the accompanying representation, wherein a width "W", a height "H" and a depth "D" of the display device may be varied.



21: A2022/01563 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15

- 52: Class 20 24: Part A
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation, wherein a width "W", a height "H" and a depth "D" of the display device may be varied.



21: A2022/01565 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15 52: Class 20 24: Part A 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation wherein a width "W", a height "H" and a depth "D" of the display device are variable.



- 21: A2022/01567 22: 2022-12-01 23: 2022-06-01
- 43: 2023-07-12
- 52: Class 20 24: Part A
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation wherein a width "W", a height "H" and a depth "D" of the display device are variable.



- 21: A2022/01569 22: 2022-12-01 23: 2022-06-01
- 43: 2024-03-15
- 52: Class 20 24: Part A
- 71: THREE NIGHT OWLS (PTY) LTD
- 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representations wherein a width "W", a height "H" and a depth "D" of the display device are variable.



- 21: A2022/01571 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15
- 52: Class 20 24: Part A
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A CLIP FOR A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a clip for a display device substantially as shown in the accompanying representation.



21: A2022/01639 22: 2022-12-13 23: 2022-11-01 43: 2024-03-15 52: Class 20 24: Part A 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPENSING DEVICE

57: The novelty of the design resides in the shape and/or configuration of a dispensing device

substantially as shown in the accompanying representation wherein a position of a component "X" is adjustable along a length "Y" of a component "Z" and wherein the position of component "X" relative to component "Z" shown in the representation is by way of example only and is nonlimiting.



- 21: A2022/01641 22: 2022-12-13 23: 2022-06-13
- 43: 2024-03-15
- 52: Class 20 24: Part A
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A HANG TAB

57: The novelty of the design resides in the shape and/or configuration of an aperture formed in a hang tab substantially as shown in the accompanying representation wherein the shape and/or configuration of the outer dimensions of the hang tab are shown by way of example only and do not form part of the design



21: A2022/01643 22: 2022-12-13 23: 2022-06-13 43: 2024-03-15

52: Class 20 24: Part A

71: THREE NIGHT OWLS (PTY) LTD

#### 54: A HANG TAB

57: The novelty of the design resides in the shape and/or configuration of an aperture formed in a hang tab substantially as shown in the accompanying representation wherein the shape and/or configuration of the outer dimensions of the hang tab are shown by way of example only and do not form part of the design



21: A2022/01645 22: 2022-12-13 23: 2022-06-13 43: 2024-03-15

52: Class 20 24: Part A

71: THREE NIGHT OWLS (PTY) LTD

#### 54: A HANG TAB

57: The novelty of the design resides in the shape and/or configuration of an aperture formed in a hang tab substantially as shown in the accompanying representation wherein the shape and/or configuration of the outer dimensions of the hang tab are shown by way of example only and do not form part of the design



- 21: A2023/00408 22: 2023-03-31 23: 43: 2024-02-20
- 13: 2024-02-20
- 52: Class 09 24: Part A
- 71: NICOVENTURES TRADING LIMITED 33: US 31: 29/855,442 32: 2022-10-03

#### 54: SEALING MEMBER

57: The design is applied to a transparent sealing member. 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 sealing member, substantially as illustrated in the accompanying representation. Contour lines and surface shading lines are provided to indicate the surface character and contours but do not form part of the design and are disclaimed. Features shown in dash-dash broken lines as well as the textual matter appearing on the sealing member do not form part of the design and are also disclaimed. Features shown in dash-dot-dash broken lines indicate the presence of perforations in the sealing member.



- 21: A2023/00514 22: 2023-04-26 23: 2023-03-31
- 43: 2023-11-15
- 52: Class 07 24: Part A
- 71: SNYMAN, Mornay
- 54: SELF-FEEDING STOVES

57: The design is in respect of a stove that is formed from ten interlocking generally flat parts facilitating

assembly. The stove can be manually operated after being stoked with a combustible material. A flue, generally square in plan view and formed from four interlocking parts with air vents, extends between an upper section and a bottom section. The bottom section terminates in four bifurcated feet, spaced apart and located at respective corners of the flue. Four interlockable planar parts form a square shaped extension unit that stands proud of the upper section. The unit is separated from the flue by an apertured planar and generally square plate having slots for receiving bottom edges of the four interlockable planar parts which forms the extension unit.



21: A2023/00515 22: 2023-04-26 23: 2023-03-31 43: 2023-11-15

- 52: Class 07 24: Part A
- 71: SNYMAN, Mornay

## 54: COOKING APPLIANCES INCORPORATING PIZZA OVENS

57: The design is in respect of a cooking appliance that incorporates and fits a pizza oven on top thereof. The cooking appliance has an elongate rectangular flue (not shown) and is of the selffeeding type which is manually operated after being stoked with a combustible material. The pizza oven has a rectangular shape when viewed from above with handles on two opposite ends and on one side thereof a broad mouth leading to a pizza baking chamber.



- 21: A2023/00516 22: 2023-04-26 23: 2023-03-31
- 43: 2023-11-15
- 52: Class 07 24: Part A
- 71: SNYMAN, Mornay

## 54: COOKING APPLIANCES INCORPORATING ROTISSERIES

57: The design is in respect of a cooking appliance that incorporates and fits a rotisserie oven on top thereof. The cooking appliance has an elongate rectangular flue (not shown) and is of the selffeeding type which is manually operated after being stoked with a combustible material. The rotisserie oven has a rectangular hollow box shape when viewed from above with handles on one lateral side thereof. A top side includes a centrally located openable hatch leading to a convection and radiation heating chamber where a rotatable rod is located, which rod extends externally and away from one side of the chamber.



- 21: A2023/00575 22: 2023-05-15 23:
- 43: 2023-12-18
- 52: Class 09 24: Part A
- 71: Polyoak Packaging (Pty) Ltd

#### **54: CONTAINER**

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: A2023/00619 22: 2023-05-26 23: 2023-01-02 43: 2023-12-01
- 52: Class 02 24: Part A
- 71: Hayleys Clothing Investments (Pty) Ltd

#### 54: JEANS

57: The features of the design for which protection is claimed include the share and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



- 21: A2023/00620 22: 2023-05-26 23: 2023-01-02
- 43: 2023-12-01
- 52: Class 02 24: Part A
- 71: Hayleys Clothing Investments (Pty) Ltd
- 54: JEANS

57: The features of the design for which protection is claimed include the share and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2023/00632 22: 2023-05-30 23: 43: 2023-12-01 52: Class 06 24: Part A 71: PRETORIUS, Hermanus Stephanus 54: COFFIN ARRANGEMENT WITH INDICIA MODULES

57: The features of the design for which protection is claimed reside in the shape and/or pattern and/or configuration and/or ornamentation of a coffin arrangement comprising a single or double-layered panel (a) which is connectable to a coffin (b) and which panel includes a plurality of debossed shapes (c) and a plurality of complimentarily configured indicia modules (d) that are removably inserted into the debossed shapes (c) of the panel (a), such that mourners can write their final words for a deceased person on the indicia modules (d).



- 21: A2023/00664 22: 2023-06-06 23:
- 43: 2023-12-14
- 52: Class 22 24: Part A
- 71: PERAMCO (PTY) LTD
- 54: A BULLET

57: The features of this design for which protection are claimed include the shape and/or configuration of a bullet substantially as illustrated in the accompanying representations.



21: A2023/00681 22: 2023-06-08 23: 43: 2024-02-12

52: Class 04 24: Part A

71: CONRADIE FAMILY TRUST

54: GOLF CLUB HEAD CLEANER

57: The design is applied to a golf club head cleaner. The features of the design for which protection is claimed are those of the shape and/or configuration of the golf club head cleaner, substantially as illustrated in the accompanying representation.



21: A2023/00702 22: 2023-06-20 23:

- 43: 2024-02-09
- 52: Class 3 24: Part A
- 71: BECKETT, Matthews Stuart

#### 54: A TAG ASSEMBLY

57: The features of the design for which protection is claimed include the shape and/or configuration of a tag assembly, substantially as illustrated in the accompanying representations. The position and provision of alpha-numerical characters and/or QR codes shown are variable and do not form part of the design.



- 21: A2023/00703 22: 2023-06-20 23:
- 43: 2024-02-09
- 52: Class 14 24: Part A

71: SITA INFORMATION NETWORKING COMPUTING CANADA INC. 33: EU 31: 015006958-0001 32: 2022-12-21

#### 54: FREESTANDING FACEPOD

57: The design is to be applied to a freestanding facepod. The features for which protection is claimed are those of shape and/or configuration and/or ornamentation, substantially as shown in the representations.



TOP FRONT PERSPECTIVE VIEW

21: A2023/00704 22: 2023-06-20 23: 43: 2024-02-07 52: Class 10 24: Part A 71: ROSEMOUNT INC. 33: US 31: 29/869,386 32: 2022-12-29

#### 54: HOUSING COVER

57: The design is applied to a housing cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the housing cover, substantially as illustrated in the accompanying representation. Contour and surface shading lines are provided to indicate the surface character and contours but do not form part of the design and are disclaimed.



- 21: A2023/00713 22: 2023-06-23 23:
- 43: 2024-02-07
- 52: Class 10 24: Part A
- 71: ROSEMOUNT INC.
- 33: US 31: 29/869,385 32: 2022-12-29
- **54: METER COVER**

57: The design is applied to a meter cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the meter cover, substantially as illustrated in the accompanying representation. Contour and surface shading lines are provided to indicate the surface character and contours but do not form part of the design and are disclaimed.



21: A2023/00731 22: 2023-07-03 23: 43: 2024-02-07 52: Class 15 24: Part A 71: ROVIC AND LEERS (PTY) LTD **54: SEPARATOR FOR AN AGRICULTURAL MACHINE** 57: The design is applied to a separator for an

agricultural machine. 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 separator for an agricultural machine, substantially as illustrated in the accompanying representations.



21: A2023/00760 22: 2023-07-07 23:

43: 2024-02-07

52: Class 06 24: Part A 71: DOONA HOLDINGS LTD. 33: IL 31: 70066 32: 2023-01-09

#### 54: INFANT SAFETY CAR SEAT WITH WHEELS

57: The design is applied to an infant safety car seat with wheels. 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 infant safety car seat with wheels, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



- 21: A2023/00761 22: 2023-07-07 23:
- 43: 2024-02-07
- 52: Class 06 24: Part A
- 71: DOONA HOLDINGS LTD.
- 33: IL 31: 70066 32: 2023-01-09

54: INFANT SAFETY CAR SEAT WITH WHEELS

57: The design is applied to an infant safety car seat with wheels. 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 infant safety car seat with wheels, substantially as illustrated in the accompanying representations.

Features shown in broken lines do not form part of the design and are disclaimed.



21: A2023/00762 22: 2023-07-07 23: 43: 2024-02-07 52: Class 06 24: Part A

71: DOONA HOLDINGS LTD.

33: IL 31: 70066 32: 2023-01-09

#### 54: INFANT SAFETY CAR SEAT WITH WHEELS

57: The design is applied to an infant safety car seat with wheels. 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 infant safety car seat with wheels, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



- 21: A2023/00764 22: 2023-07-07 23:
- 43: 2024-02-07

52: Class 06 24: Part A

71: DOONA HOLDINGS LTD.

33: IL 31: 70066 32: 2023-01-09

54: INFANT SAFETY CAR SEAT WITH WHEELS

57: The design is applied to an infant safety car seat with wheels. 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 infant safety car seat with wheels, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2023/00765 22: 2023-07-07 23: 43: 2024-02-07

43. 2024-02-07

52: Class 06 24: Part A

71: DOONA HOLDINGS LTD. 33: IL 31: 70066 32: 2023-01-09

54: INFANT SAFETY CAR SEAT WITH WHEELS

57: The design is applied to an infant safety car seat with wheels. 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 infant safety car seat with wheels, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



- 21: A2023/00791 22: 2023-07-13 23:
- 43: 2024-02-07

52: Class 13 24: Part A

71: Shenzhen OLiPower Energy & Automation Technology Co., Ltd.

33: CN 31: 202330360800.4 32: 2023-06-12 54: BATTERY CHAMBERS

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 battery chamber, substantially as shown in the representations.



Perspective View 1

21: A2023/00795 22: 2023-07-14 23:

43: 2024-02-09

52: Class 25 24: Part A

71: PLI ALUMINIUM TECHNOLOGY (PTY) LTD

#### 54: LADDER CAP

57: The features of this design for which protection are claimed include the shape and/or configuration of a ladder cap substantially as illustrated in the accompanying representations.



21: A2023/00839 22: 2023-07-21 23:

- 43: 2024-02-09
- 52: Class 25 24: Part A
- 71: THEUNISSEN, Nicolaas Jacobus

#### 54: BUILDING PANEL

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a

building panel substantially as shown in the accompanying representations.



21: A2023/00852 22: 2023-07-25 23: 43: 2024-02-07 52: Class 11 24: Part A 71: JOEL GRAHAM CC

#### 54: A RING

57: The design is applied to a ring. 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 ring, substantially as illustrated in the accompanying representation. A centre stone (10) of the ring is included for illustrative purposes but does not form part of the design and is disclaimed.



21: A2023/00853 22: 2023-07-25 23:

- 43: 2024-02-07
- 52: Class 11 24: Part A

## 71: JOEL GRAHAM CC 54: A RING

57: The design is applied to a ring. 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 ring, substantially as illustrated in the accompanying representation. A centre stone (10) of the ring is included for illustrative purposes but does not form part of the design and is disclaimed.



- 21: A2023/00854 22: 2023-07-25 23: 43: 2024-02-07 52: Class 11 24: Part A
- 71: JOEL GRAHAM CC
- FAT A DING

#### 54: A RING

57: The design is applied to a ring. 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 ring, substantially as illustrated in the accompanying representation. A centre stone (10) of the ring is included for illustrative purposes but does not form part of the design and is disclaimed.



- 21: A2023/00857 22: 2023-07-26 23: 43: 2024-02-09
- 52: Class 07 24: Part A
- 71: Jian Song
- 54: POT WITH ELONGATED HANDLE

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 accompanying representation(s).



21: A2023/00864 22: 2023-07-26 23: 43: 2024-02-09 52: Class 13 24: Part A

## 71: FARB, Mark Daniel **54: TURBINE**

57: The design is applied to a turbine. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the turbine, substantially as illustrated in the accompanying representation.



21: A2024/00111 22: 2024-01-30 23:
43: 2024-02-21
52: Class 9 24: Part A
71: Diageo Brands B.V.
33: EM 31: 015030683-0002 32: 2023-08-08
54: BOTTLE

57: The design relates to a BOTTLE. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



- 21: F2022/00780 22: 2022-06-30 23: 2022-06-07
- 43: 2024-01-17
- 52: Class Class 12. 24: Part F
- 71: STEYTLER, HENDRIK JOHANNES
- 54: A Mount
- 57: The design relates to a mount. The features of the design are those of shape and/or configuration.



21: F2022/00781 22: 2022-06-30 23: 2022-06-07 43: 2024-01-17

- 52: Class Class 12. 24: Part F
- 71: STEYTLER, HENDRIK JOHANNES

#### 54: A Race Plate Holder

57: The design relates to a race plate holder. The features of the design are those of shape and/or configuration.



- 21: F2022/01419 22: 2022-11-09 23:
- 43: 2023-06-09
- 52: Class 24 24: Part F
- 71: ZITHANDE ENTERPRISES (PTY) LTD
- 54: A SANITARY PAD

57: The novelty of the design resides in the shape, pattern and/or configuration applied to a core layer of a sanitary pad according to the design.



- 21: F2022/01506 22: 2022-11-21 23:
- 43: 2024-02-21
- 52: Class 25 24: Part F
- 71: SEWNATH, Rajin
- 54: RETAINING WALL BLOCK

57: The novelty of this design resides in the shape and configuration of a RETAINING WALL BLOCK substantially as shown in the drawings.



21: F2022/01360 22: 2022-10-27 23: 2022-04-27 43: 2024-03-15

52: Class 20 24: Part F

71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying publication drawing.



- 21: F2022/01548 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15
- 52: Class 20 24: Part F
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICEQ

57: The novelty of the design resides in the shape and/or configuration of a display device having a width "W" and a height "H" that may vary.



21: F2022/01551 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15 52: Class 20 24: Part F 71: THREE NIGHT OWLS (PTY) LTD

54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device having a width "W" and a height "H" that may vary.



- 21: F2022/01553 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15
- 52: Class 20 24: Part F
- 71: THREE NIGHT OWLS (PTY) LTD
- 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation.



- 21: F2022/01557 22: 2022-12-01 23: 2022-06-01
- 43: 2024-03-15
- 52: Class 20 24: Part F
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation.



21: F2022/01560 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15

52: Class 20 24: Part F

71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation, wherein a width "W", a height "H" and a depth "D" of the display device may be varied.



21: F2022/01560 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15

52: Class 20 24: Part F

71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation, wherein a width "W", a height "H" and a depth "D" of the display device may be varied.



- 21: F2022/01562 22: 2022-12-01 23: 2022-06-01
- 43: 2024-03-15
- 52: Class 20 24: Part F
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation, wherein a width "W", a height "H" and a depth "D" of the display device may be varied.



- 21: F2022/01564 22: 2022-12-01 23: 2022-06-01
- 43: 2024-03-15
- 52: Class 20 24: Part F
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation wherein a width "W", a height "H" and a depth "D" of the display device are variable.



21: F2022/01566 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15

52: Class 20 24: Part F

71: THREE NIGHT OWLS

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation wherein a width "W", a height "H" and a depth "D" of the display device are variable.



21: F2022/01568 22: 2022-12-01 23: 2022-06-01 43: 2024-03-15

52: Class 20 24: Part F

71: THREE NIGHT OWLS (PTY) LTD

#### 54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation wherein a width "W", a height "H" and a depth "D" of the display device are variable.



- 21: F2022/01570 22: 2022-12-01 23: 2022-06-01
- 43: 2024-03-15
- 52: Class 20 24: Part F
- 71: THREE NIGHT OWLS (PTY) LTD
- 54: A CLIP FOR A DISPLAY DEVICE

57: The novelty of the design resides in the shape and/or configuration of a clip for a display device substantially as shown in the accompanying representation.



- 21: F2022/01638 22: 2022-12-13 23: 2022-11-01
- 43: 2024-03-15
- 52: Class 20 24: Part F 71: THREE NIGHT OWLS (PTY) LTD
- 54: A DISPENSING DEVICE

57: The novelty of the design resides in the shape and/or configuration of a dispensing device substantially as shown in the accompanying representation wherein a position of a component "X" is adjustable along a length "Y" of a component "Z" and wherein the position of component "X" relative to component "Z" shown in the representation is by way of example only and is non-limiting.



21: F2022/01640 22: 2022-12-13 23: 2022-06-13 43: 2024-03-15

- 52: Class 20 24: Part F
- 71: THREE NIGHT OWLS (PTY) LTD

#### 54: A HANG TAB

57: The novelty of the design resides in the shape and/or configuration of an aperture formed in a hang tab substantially as shown in the accompanying representation wherein the shape and/or configuration of the outer dimensions of the hang tab are shown by way of example only and do not form part of the design



21: F2022/01644 22: 2022-12-13 23: 2022-06-13 43: 2024-03-15 52: Class 20 24: Part F

## 71: THREE NIGHT OWLS (PTY) LTD 54: A HANG TAB

57: The novelty of the design resides in the shape and/or configuration of an aperture formed in a hang tab substantially as shown in the accompanying representation wherein the shape and/or configuration of the outer dimensions of the hang tab are shown by way of example only and do not form part of the design



- 21: F2023/00013 22: 2023-01-03 23:
- 43: 2024-02-12
- 52: Class 13 24: Part F
- 71: EDDY PUMP CORPORATION
- 54: FLOAT DEVICE

57: The design is applied to a float device. 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 float device, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2023/00014 22: 2023-01-03 23: 43: 2024-02-12 52: Class 23 24: Part F 71: EDDY PUMP CORPORATION

#### 54: FLOAT DEVICE

57: The design is applied to a float device. 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 float device, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

- 21: F2023/00015 22: 2023-01-03 23:
- 43: 2024-02-12
- 52: Class 13 24: Part F
- 71: EDDY PUMP CORPORATION

#### 54: FLOAT DEVICE

57: The design is applied to a float device. 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 float device, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2023/00016 22: 2023-01-03 23: 43: 2024-02-12 52: Class 23 24: Part F 71: EDDY PUMP CORPORATION 54: FLOAT DEVICE

57: The design is applied to a float device. 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 float device, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



- 21: F2023/00410 22: 2023-03-31 23:
- 43: 2024-03-19
- 52: Class 30 24: Part F

71: ELIAS JOHANNESBURG ALBERTUS THIRION LERM

#### 54: SEED FEEDER

57: The features of the design are those of shape, pattern, configuration and functionality in terms of a Seed Feeder which consists of parts as indicated on publication representation SF\_16-03.01. The seed container as shown on the representation serves to contain feed as required, in order to facilitate ad hoc feeding of granivorous birds from the Seed Bowl.





- 21: F2023/00550 22: 2023-05-08 23: 2022-11-08 43: 2024-02-21
- 52: Class 25 24: Part F
- 71: Timrite (Pty) Ltd
- 54: BACKFILL BAG

57: The novelty of this design resides in the shape and configuration of a BACKFILL BAG substantially as shown in the drawings. The feature in dotted lines is for illustrative purposes only, does not form part of the design and is disclaimed.



21: F2023/00633 22: 2023-05-30 23: 43: 2023-12-01

Section through NTS

- 21: F2023/00549 22: 2023-05-08 23: 2022-11-08 43: 2024-02-21
- 52: Class 25 24: Part F
- 71: Timrite (Pty) Ltd

#### 54: BACKFILL BAG

57: The novelty of this design resides in the shape and configuration of a BACKFILL BAG substantially as shown in the drawings. The feature in dotted lines is for illustrative purposes only, does not form part of the design and is disclaimed.

#### 52: Class 06 24: Part F

#### 71: PRETORIUS, Hermanus Stephanus 54: COFFIN ARRANGEMENT WITH INDICIA MODULES

57: The features of the design for which protection is claimed reside in the shape and/or pattern and/or configuration and/or ornamentation of a coffin arrangement comprising a single or double-layered panel (a) which is connectable to a coffin (b) and which panel includes a plurality of debossed shapes (c) and a plurality of complimentarily configured indicia modules (d) that are removably inserted into the debossed shapes (c) of the panel (a), such that mourners can write their final words for a deceased person on the indicia modules (d).



21: F2023/00663 22: 2023-06-06 23: 43: 2023-12-14

52: Class 22 24: Part F

71: PERAMCO (PTY) LTD

#### 54: A BULLET

57: The features of this design for which protection are claimed include the shape and/or configuration of a bullet substantially as illustrated in the accompanying representations.



- 21: F2023/00701 22: 2023-06-20 23:
- 43: 2024-02-09
- 52: Class 3 24: Part F
- 71: BECKETT, Matthews Stuart
- 54: A TAG ASSEMBLY

57: The features of the design for which protection is claimed include the shape and/or configuration of a tag assembly, substantially as illustrated in the accompanying representations. The position and provision of alpha-numerical characters and/or QR codes shown are variable and do not form part of the design.



21: F2023/00709 22: 2023-06-22 23: 2023-03-02 43: 2024-02-09

52: Class 25 24: Part F

71: SUPREME MOULDINGS (PTY) LTD

#### 54: WALL PANEL

57: The design is for an interlocking modular wall panel. The panel includes a wall-facing, inner surface and an exterior-facing, outer surface. The inner surface of the wall panel is provided with a rib that defines and restricts the potential overlap between sections of adjacent panels. The rib further defines a channel that allows cabling to be passed through, between the wall and the inner surface of the panel.



Figure 1 Top perspective view

21: F2023/00718 22: 2023-06-27 23: 43: 2024-02-09

#### 52: Class 13 24: Part F

71: MACASKILL, David Lloyd

54: PRINTED ELECTRONIC CIRCUIT BOARD

57: The design relates to an integrated circuit layout of a printed circuit board for a locking device. The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of the integrated circuit layout of a printed circuit board, substantially as illustrated in the accompanying representations, irrespective of the features shown in broken lines.



#### PLAN VIEW OF A FIRST LAYER OF PRINTED CIRCUIT BOARD

- 21: F2023/00732 22: 2023-07-03 23:
- 43: 2024-02-07
- 52: Class 15 24: Part F
- 71: ROVIC AND LEERS (PTY) LTD

54: SEPARATOR FOR AN AGRICULTURAL MACHINE

57: The design is applied to a separator for an agricultural machine. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the separator for an agricultural machine, substantially as illustrated in the accompanying representations.



21: F2023/00733 22: 2023-07-04 23: 43: 2024-02-09 52: Class 12 24: Part F 71: SLEIPNER FINLAND OY

33: EU 31: 015008089 32: 2023-01-05

#### 54: TRAILER

57: The design is to be applied to a trailer. The features for which protection is claimed are those of shape and/or pattern and/or configuration, substantially as shown in the representations.



PERSPECTIVE VIEW

21: F2023/00778 22: 2023-07-11 23:

- 43: 2024-02-09
- 52: Class 14 24: Part F

71: POYNTING ANTENNAS (PTY) LIMITED

#### 54: ANTENNA ASSEMBLY

57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of an antenna assembly comprising conductive parts (shown shaded) on substrates A, B and C (shown blank) as illustrated in the accompanying representations, irrespective of the shape and/or configuration of the substrates A, B and C.



- 21: F2023/00779 22: 2023-07-11 23:
- 43: 2024-02-09
- 52: Class 14 24: Part F
- 71: POYNTING ANTENNAS (PTY) LIMITED
- 54: ANTENNA ASSEMBLY

57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of an antenna assembly comprising conductive parts (shown shaded) on various substrates (shown blank) as illustrated in the accompanying representations, irrespective of the shape and/or configuration of the substrates.



PERSPECTIVE VIEW

21: F2023/00785 22: 2023-07-12 23:

43: 2024-02-07

52: Class 08 24: Part F

71: LONGYEAR TM, INC.

33: US 31: 29/869,924 32: 2023-01-12

#### 54: DRILL BIT

57: The design is applied to a drill bit. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the drill bit, substantially as illustrated in the accompanying representations.



- 21: F2023/00787 22: 2023-07-12 23:
- 43: 2024-02-09
- 52: Class 08 24: Part F
- 71: LONGYEAR TM, INC.
- 33: US 31: 29/869,924 32: 2023-01-12

#### 54: DRILL BIT

57: The design is applied to a drill bit. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the drill bit, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2023/00794 22: 2023-07-14 23:

- 43: 2024-02-09
- 52: Class 25 24: Part F

71: PLI ALUMINIUM TECHNOLOGY (PTY) LTD

#### 54: LADDER CAP

57: The features of this design for which protection are claimed include the shape and/or configuration of a ladder cap substantially as illustrated in the accompanying representations.



- 21: F2023/00840 22: 2023-07-21 23:
- 43: 2024-02-09
- 52: Class 25 24: Part F
- 71: THEUNISSEN, Nicolaas Jacobus
- 54: BUILDING PANEL

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a building panel substantially as shown in the accompanying representations.



- 21: F2023/00855 22: 2023-07-25 23:
- 43: 2024-02-09
- 52: Class 08 24: Part F
- 71: CRAMER, Brent
- 54: CLOSURE DEVICE

57: The features for which protection is claimed reside in the shape and/or configuration of a closure device as shown in the accompanying drawing, irrespective of the features indicated in broken lines.



21: F2023/00875 22: 2023-07-28 23:

43: 2024-02-09

52: Class 10 24: Part F

71: AQUIRIAN TECHNOLOGY PTY LTD 33: AU 31: 202310532 32: 2023-01-30

#### **54: DIPPING TAPE**

57: The features for which protection is claimed reside in the shape and/or configuration of a dipping tape for insertion into a borehole which includes a flexible strip of material and a weighted head at one end of the flexible strip of material wherein the flexible strip of material is rolled into a coil when not in use and in use is unfurled and inserted into an open end of the borehole to measure the depth of the borehole, substantially as shown in the accompanying drawings. The length of the flexible material is variable as indicated by the broken lines.



21: F2024/00012 22: 2024-01-04 23: 43: 2024-02-05 52: Class 16 24: Part F

71: Kiran Valjee

#### 54: SCREEN

57: The design relates to a Screen. The features of the design are those of shape and/or pattern and/or configuration.



#### HYPOTHECATIONS

No records available

#### JUDGMENTS

No records available

#### **OFFICE PRACTICE NOTICES**

#### NOTICE TO IP STAKEHOLDERS/CLIENTS

Due to Wednesday 29 May 2024 having been declared a public holiday in view of the national elections taking place on that day, kindly note that the publication date for the May 2024 Patent Journal will be <u>30 May 2024</u>.

# 4. COPYRIGHT

#### COPYRIGHT IN CINEMATOGRAPH FILMS

#### NOTICES OF ACCEPTANCE

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.

No records available
# **HYPOTHECATIONS**

No records available

#### JUDGMENTS

No records available

# **OFFICE PRACTICE NOTICES**

No records available

# **5. CORRECTION NOTICES**

#### TRADE MARK CORRECTION NOTICES

No records available

#### PATENT CORRECTION NOTICES

The notice of acceptance of South African Patent Application No. 2022/01533, in the name of Bayer

Aktiengesellschaft was erroneously published in the Patent Journal of 28 February 2024. Therefore it's

publication in the Patent Journal of 28 February 2024 is null and void.

This notice is based on the P4 of Withdrawal and Delay which was filed on the 15/02/2024 and processed on

16/02/2024 before the publication date.

The advertisement can read along these lines: "The patent under application number **2022/10919** was advertised in the February 2023 Patent Journal with incorrect characters on the abstract and it should have appeared as the one below but the publication date will remain as **28/02/2023**".

21: 2022/10919. 22: 2022/10/04. 43: 2023/12/13 51: C07K; C12N 71: CELLEDIT LLC 72: HU, BILIANG 33: US 31: 63/005,684 32: 2020-04-06 54: GENETICALLY MODIFIED IMMUNE CELLS EXPRESSING A CHIMERIC ANTIGEN RECEPTOR AND HAVING REDUCED PROINFLAMMATORY CYTOKINE SIGNALING 00: -

A population of immune cells comprising modified immune cells co-expressing a chimeric antigen receptor comprising, inter alia, an IB-2K $\beta$  cytoplasmic signaling domain. Also provided herein are genetically engineered immune cells having reduced production of interferon gamma (IFNy). Such genetically engineered immune cells may have a disrupted endogenous IFNy gene, a disrupted endogenous IFNy receptor (IFNyR) gene, or both. Alternatively, the immune cells may express an IFNy antagonist.



#### **COPYRIGHT CORRECTION NOTICES**

No records available

#### PATENTS

#### Advertisement List for March 2024

#### Number of Advertised Patents: 457

Application Number	Patent Title	Filing Date
2017/06630	CARTRIDGE, PROCESS CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS	2017/10/03
2017/06745	SITE-SPECIFIC ANTIBODY-DRUG CONJUGATES	2017/10/06
2018/00029	MICROBIOME-COMPATIBLE COSMETICS	2018/01/03
2018/03333	PROCESS FOR THE PREPARATION OF ETHYLENE GLYCOL FROM SUGARS	2018/05/18
2018/03908	AUTOMATIC SYSTEM AND METHOD FOR INJECTING A SUBSTANCE INTO AN ANIMAL	2018/06/12
2018/04587	IONIC LIQUID CATALYST TREATING SYSTEM	2018/07/10
2018/05358	3-(CARBOXYMETHYL)-8-AMINO-2-OXO-1,3-DIAZA-SPIRO-[4.5]- DECANE DERIVATIVES	2018/08/10
2018/06766	DELAYED RELEASE PHARMACEUTICAL FORMULATIONS COMPRISING VALPROIC ACID, AND USES THEREOF	2018/10/11
2018/08140	METHODS FOR SELECTIVE EXPANSION OF GD T-CELL POPULATIONS AND COMPOSITIONS THEREOF	2018/11/30
2019/02141	ACID-ALPHA GLUCOSIDASE VARIANTS AND USES THEREOF	2019/04/05
2019/03446	APPARATUS AND METHOD FOR PLANTING TREES	2019/05/30
2019/04083	POLYURETHANE FOAM ARTICLE AND METHOD OF FORMING SAME	2019/06/24
2019/04648	METHOD FOR OBTAINING PURE 2-ETHYLHEXYL ACRYLATE OR PURE 2-PROPYLHEPTYL ACRYLATE FROM THE CORRESPONDING RAW ALKYL ACRYLATE BY DISTILLATION	2019/07/16
2019/06062	SPECTACLES	2019/09/13
2019/06269	COMPOUNDS USEFUL IN THE TREATMENT OR PREVENTION OF A PRMT5-MEDIATED DISORDER	2019/09/23
2019/06982	LIGHT STABILIZER MIXTURE	2019/10/23
2019/07709	LIQUID SMOKE REACTION PRODUCTS	2019/11/21
2019/08434	ALKYLATED TRIPHENYL PHOSPHOROTHIONATES AS SELECTIVE METAL SULPHIDE COLLECTORS	2019/12/18
2020/03505	BWP HANDLING IN IDLE MODE AND INACTIVE MODE	2020/06/11
2020/03673	INFECTION-RELATED PRETERM BIRTH DIAGNOSTIC METHOD	2020/06/18
2020/03905	METHOD FOR PRODUCING A DRUG DELIVERY SYSTEM	2020/06/26
2020/04343	NANOPARTICLES FOR USE IN ENHANCING BRAIN PERFORMANCES OR IN TREATING STRESS	2020/07/15
2020/05556	CARTYRIN COMPOSITIONS AND METHODS FOR USE	2020/09/08
2020/06707	VERTICAL CONVEYOR	2020/10/28
2020/06713	FLUID COLLECTION DEVICES, RELATED SYSTEMS, AND RELATED METHODS	2020/10/28
2020/06715	FLUID COLLECTION DEVICES, SYSTEMS, AND METHODS	2020/10/28
2020/06717	FLUID COLLECTION GARMENTS	2020/10/28
2020/07083	PANEL JOINING ARRANGEMENT FOR A VEHICLE CANOPY	2020/11/13
2020/07349	PORTABLE GRINDING/SHREDDING/CHIPPING SYSTEM HAVING MANIPULABLE TRACK DRIVE AND OTHER IMPROVEMENTS	2020/11/25
2021/01461	DEVICES WITH OPTICALLY READABLE LIQUID RESERVOIRS	2021/03/03

Application Number	Patent Title	Filing Date
2021/01462	BLOOD PLASMA SEPARATION DEVICE	2021/03/03
2021/02131	CHEMICAL REACTOR	2021/03/30
2021/04291	ASSOCIATION DETERMINATION	2021/06/22
2021/06020	POLYOL FATTY ACID ESTER CARRIER COMPOSITIONS	2021/08/20
2021/06147	ALTERNATIVE COMPOSITION AND ALTERNATIVE METHOD FOR	2021/08/25
	EFFECTIVELY PHOSPHATING METAL SURFACES	
2021/06160	DRAWING-BOARD BACKPACK DUAL-USE GARMENT	2021/08/25
2021/07139	METHODS AND COMPOSITIONS FOR TREATING CANCER	2021/09/23
2021/08579	INHIBITORS OF NOTCH SIGNALLING PATHWAY AND USE	2021/11/03
	THEREOF IN TREATMENT OF CANCERS	
2021/08760	METHODS AND SYSTEMS FOR PROVIDING PERSONALISED MEDICINE TO A PATIENT	2021/11/08
2021/10115	SOFTWARE APPLICATION FOR CONTINUALLY ASSESSING, PROCESSING, AND REMEDIATING CYBER-RISK IN REAL TIME	2021/12/07
2021/10422	HETEROCYCLIC COMPOUNDS, PREPARATION METHODS AND USES THEREOF	2021/12/14
2022/00158	CAMERA STABILIZER	2022/01/03
2022/01297	REMOTELY CONTROLLABLE AERONAUTICAL ORDNANCE	2022/01/27
2022/01377	CURATIVE & amp: METHOD	2022/01/28
2022/04178	KNEE SPREADER	2022/04/13
2022/04197	AN APPARATUS, A METHOD AND A COMPUTER PROGRAM FOR VIDEO CODING AND DECODING	2022/04/13
2022/04732	ENHANCEMENTS FOR CONDITIONAL HANDOVER IN MULTI- CONNECTIVITY OPERATION	2022/04/28
2022/04907	ORALLY DISINTEGRATING PHARMACEUTICAL COMPOSITIONS OF APIXABAN	2022/05/04
2022/05002	WASTE TO ENERGY CONVERSION WITHOUT CO2 EMISSIONS	2022/05/06
2022/06367	KITE DRIVEN WATERCRAFT POWER GENERATING SYSTEM	2022/06/08
2022/06645	NOVEL PROMOTER AND METHOD OF PRODUCING	2022/06/15
	GLUTATHIONE USING THE SAME	
2022/07187	A DEVICE FOR HOLDING AN ADVERTISING SIGN	2022/06/29
2022/08088	NOVEL AMIDE DERIVATIVE USEFUL AS DIACYLGLYCEROL	2022/07/20
	ACYLTRANSFERASE 2 INHIBITOR, AND USE THEREOF	
2022/08935	ROLLER MILL HAVING CROSSWISE GRINDING ROLLERS	2022/08/10
2022/08937	VIEWING OPTIC WITH CONTOURS	2022/08/10
2022/10106	GLUTAMATE-CYSTEINE LIGASE VARIANT AND METHOD FOR PRODUCING GLUTATHIONE USING SAME	2022/09/12
2022/10166	APPARATUS AND METHOD FOR STRAIGHTENING AND ELONGATING COMPLEX HOLLOW-CHAMBER PROFILE	2022/09/13
2022/10248	FAT COMPOSITION SUITABLE AS A COCOA BUTTER EQUIVALENT HAVING A LOW AMOUNT OF DIGLYCERIDES	2022/09/15
2022/10541	IMPRINTING APPARATUS	2022/09/22
2022/10589	HIGHLY DENSE ARRAY OF PHOTOVOLTAIC MODULES	2022/09/23
2022/10728	APPARATUS AND METHOD FOR SYNTHESIZING A SPATIALLY EXTENDED SOUND SOURCE USING CUE INFORMATION ITEMS	2022/09/28
2022/11241	REACTOR AND METHOD FOR CARRYING OUT A CHEMICAL REACTION	2022/10/13
2022/11304	PHARMACEUTICAL COMPOSITION COMPRISING PROTEIN KINASE INHIBITOR AND CHEMOTHERAPEUTIC DRUG AND USE THEREOF	2022/10/14
2022/11452	STATOR CORE, STATOR, AND POWER GENERATION SYSTEM	2022/10/19

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	HAVING THE SAME	
2022/11794	COOLING SYSTEM AND WIND POWER GENERATOR SET	2022/10/28
2022/12390	CAN BODYMAKER AND A METHOD OF OPERATING A CAN BODYMAKER TO MITIGATE THE EFFECTS OF TOOL WEAR, DAMAGE AND/OR MISALIGNMENT	2022/11/14
2022/12953	A COMPOSITION AND A METHOD FOR DEVELOPMENT AND OPTIMIZATION OF IFOSFAMIDE NANOSTRUCTURED LIPID CARRIERS FOR ORAL DELIVERY	2022/11/29
2022/13014	ZONAL AND TARGETED METHODS AND USES FOR TREATING A MIGRAINE DISORDER	2022/11/30
2022/13228	NON-ROTATING ALTERNATING CURRENT GENERATING DEVICE	2022/12/06
2022/13282	LIGHT EMISSION DEVICE	2022/12/07
2023/00362	A SMARTPHONE AND/OR OTHER DEVICES WITH HIGH RESOLUTION MICROSCOPIC FEATURES	2023/01/09
2023/01078	PUMP STRAINER WITH PNEUMATIC CLEANING	2023/01/25
2023/01635	HAM15-52 ANALOGUES WITH IMPROVED AMYLIN RECEPTOR (HAMY3R) POTENCY	2023/02/09
2023/01749	MATERIAL ANALYSIS AND SEPARATION SYSTEM FOR THE DETERMINATION OF THEIR CHEMICAL COMPOSITION AND MATERIAL ANALYSIS AND SEPARATION METHOD FOR THE DETERMINATION OF THEIR CHEMICAL COMPOSITION	2023/02/13
2023/01750	METHOD FOR SWEETENING A MILK-CONTAINING FLUID, DISPENSING DEVICE, SWEETENING UNIT AND USE OF A SWEETENING UNIT	2023/02/13
2023/01864	STEEL FOR LEAF SPRINGS OF AUTOMOBILES AND A METHOD OF MANUFACTURING OF A LEAF THEREOF	2023/02/15
2023/01936	FORGED PART OF STEEL AND A METHOD OF MANUFACTURING THEREOF	2023/02/13
2023/02530	PROCESS FOR INDUSTRIAL EXTRACTION OF COLD-PRESSED KERNEL OIL AND PROTEIN CONCENTRATE FROM HULLED OIL- CONTAINING SEEDS USING A PRESSING AID INTRINSIC TO THE SEED	2023/02/24
2023/02538	SIDE STRUCTURE FOR A MOTOR VEHICLE	2023/02/24
2023/02765	BOVINE COLOSTRUM INTERMEDIATE FORMULATION	2023/02/27
2023/02766	HERBAL TOPICAL COMPOSITION OF LEUCAS MARTINICENSIS FROM CRACKED HEELS AND PALMS	2023/02/27
2023/02767	COMPOSITION OF SYNERGISTIC PHYTOCONSTITUENTS BLEND IN TREATMENT IN DIABETES MELLITUS	2023/02/27
2023/02770	SYNERGISTIC PHYTOCHEMICAL BLEND FOR ARTHRITIS CELL REGENERATION AND PROCESSES FOR THE SAME	2023/02/27
2023/02772	THE PROCESS OF PREPARATION OF VINEGAR BY AN AEROBIC CONDITION	2023/02/27
2023/02874	LANCE FOR BLOWING OXYGEN IN STEELMAKING	2023/02/27
2023/02882	INTUMESCENT NON-METAL MESH	2023/02/27
2023/02884	COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR DETERMINING A REDUCED INSURANCE PREMIUM	2023/02/27
2023/02885	COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR DYNAMICALLY ADJUSTING INSURANCE COVER AND AN INSURANCE PREMIUM	2023/02/27
2023/02886	COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR DETERMINING A PROTECTION LEVEL AND OPTIMAL INSURANCE COVER	2023/02/27

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2023/03443	METHODS AND SYSTEMS FOR DEWATERING TAILINGS	2023/03/09
2023/03460	LIGHT EMITTING DEVICE	2023/03/08
2023/03590	SHOE ACCESSORY	2023/03/15
2023/04878	LIGHT EMISSION DEVICE	2023/04/26
2023/04938	METHOD FOR SELECTIVE EXTRACTION OF GOLD BY NIACIN	2023/05/03
2023/05172	DEVICES, SYSTEMS, AND METHODS FOR CONFIGURING THE LAYOUT OF UNIT CELL OF A REACTOR CORE	2023/05/10
2023/05179	SHEET NIOBATES FOR USE IN PHOTOCATALYSTS	2023/05/10
2023/05301	METHOD FOR OBTAINING NATURAL RUBBER FROM PLANT MATERIAL	2023/05/15
2023/05491	ACRYLATE-OLEFIN COPOLYMERS AS HIGH VISCOSITY BASE FLUIDS	2023/05/22
2023/05505	A SYSTEM FOR SECURE TRANSACTION PROCESSING AND A METHOD THEREOF	2023/05/22
2023/05527	METHODS AND SYSTEMS FOR DETERMINING A TIME OF DEATH	2023/05/22
2023/05545	A SALT LICK FOR ANIMALS	2023/05/23
2023/05573	HYBRID POWER PLANT FOR AUTONOMOUSLY SUPPLYING ENERGY TO BUILDINGS AND INDUSTRIAL FACILITIES	2023/05/23
2023/05574	FOOTWEAR COUNTER FOR EASIER ENTRY AND REMOVAL	2023/05/23
2023/05604	PASSIVE COLD STORAGE HEAT EXCHANGER	2023/05/24
2023/05631	LOCKABLE LATCH	2023/05/25
2023/05632	An Adaptor	2023/05/25
2023/05695	TEMPERATURE CONTROL SYSTEM FOR DEVICE AND TEMPERATURE CONTROL METHOD	2023/05/26
2023/05707	PROCESS FOR THE DECOMPOSITION OF POLYURETHANE	2023/05/26
2023/05742	FLUORESCENT FUSION BASED HETEROLOGOUS PEPTIDE PRODUCTION	2023/05/29
2023/05752	ELECTRONIC SECURITY SYSTEM	2023/05/29
2023/05769	FREIGHT SOCK AND METHOD OF USING SAME TO SECURE A LOAD	2023/05/29
2023/05801	METHOD FOR PRODUCING WEARABLE ARTICLE	2023/05/30
2023/05805	END FLAP ENGAGEMENT ASSEMBLY FOR ERECTING CARTONS AND RELATED SYSTEMS AND METHODS	2023/05/30
2023/05807	METHOD FOR PREPARING A CHOCOLATE PRODUCT	2023/05/30
2023/05810	WEARING ARTICLE	2023/05/30
2023/05811	ISOCYCLOSERAM FORMULATION	2023/05/30
2023/05812	PLANT EXTRACTING METHOD	2023/05/30
2023/05829	HINGED CLOSURE FOR AEROSOL CONTAINER	2023/05/31
2023/05850	BATTERY FIRE PREVENTION AND DIAGNOSIS SYSTEM	2023/05/31
2023/05872	APPARATUS FOR SAFELY ELIMINATING INFORMATION ON THERMO-SENSITIVE PAPER BY USING HIGH TEMPERATURE	2023/06/01
2023/05880	FLEXIBLE ALUMINUM CONDUCTIVE WIRE BODY, CONDUCTIVE MEMBER AND AUTOMOBILE	2023/06/01
2023/05926	A USER MANAGEMENT SYSTEM	2023/06/05
2023/05938	A METHOD AND SYSTEM FOR PROCESSING FINANCIAL TRANSACTIONS FOR A CUSTOMER	2023/06/05
2023/05988	SOLID SUSTAINED RELEASE FORMULATIONS OF RANOLAZINE	2023/06/06
2023/06003	A DEVICE AND METHOD FOR IMAGING UNDERGROUND FEATURES FROM A BOREHOLE	2023/06/06
2023/06005	LONG-ACTING NERVE GROWTH FACTOR POLYPEPTIDES AND USES THEREOF	2023/06/06

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2023/06077	BALL-CLAMP TYPE FALL ARRESTER FOR DRILL PIPE	2023/06/08
2023/06091	METHOD AND SYSTEM FOR NEUTRALISING RISING JOLTS	2023/06/08
	SUPPORTED BY A VEHICLE STEERING COLUMN	
2023/06093	POWER PRODUCTION SYSTEM.	2023/06/08
2023/06105	HEART-NOURISHING AND NERVE-SOOTHING	2023/06/08
	PHARMACEUTICAL COMPOSITION AND METHOD FOR	
	PREPARATION THEREOF AND APPLICATION THEREOF	
2023/06179	PRODUCT ENGAGEMENT SYSTEM FOR GROUPING AND	2023/06/12
	MOVING CONTAINERS, RELATED SYSTEM AND METHODS	
2023/06209		2023/06/13
2023/06255	METHOD OF PACKING VARIETY PACKS OF BEVERAGES	2023/06/14
2023/06278	ELECTRIC WATER HEATING APPARATUS	2023/06/15
2023/06282	DRILL TOOL THEREOF	2023/06/15
2023/06289	WHEEL LIFTING AID	2023/06/15
2023/06303	RIBBED SLAB FOUNDATION FOR CYLINDRICAL REFRIGERATED TANKS FOR LIQUIFIED GAS STORAGE	2023/06/15
2023/06305	PHARMACEUTICAL COMPOUNDS	2023/06/15
2023/06336	FOOD PROCESSOR	2023/06/19
2023/06343	HUMANIZED COMPLEMENT 5A RECEPTOR 1 ANTIBODIES AND	2023/06/19
	METHODS OF USE THEREOF	
2023/06355	SHIP COLLISION PREVENTION DEVICE FOR ABOVE-WATER STRUCTURE	2023/06/19
2023/06444	BIDIRECTIONAL DC/DC CONVERTER, URBAN RAIL VEHICLE AND TRACTION SYSTEM THEREOF	2023/06/21
2023/06452	COMPOSITION OF ADDITIVES COMPRISING A COPOLYMER AND A RESIN	2023/06/21
2023/06468	GRIPPING MEANS FOR THE HANDLING OF A WATER HEATER	2023/06/22
2023/06511	WRAPPING APPARATUS AND METHOD	2023/06/23
2023/06517	SYSTEM AND METHOD FOR VERIFYING CONTROL LOGIC DESIGN OF NUCLEAR POWER PLANT	2023/06/23
2023/06526	A MODULAR BATTERY SYSTEM AND A METHOD OF PROVIDING POWER USING THE BATTERY SYSTEM	2023/06/23
2023/06556	NATURAL SOLUTION LANGUAGE	2023/06/26
2023/06568	LINERLESS SELF-ADHESIVE MATERIAL WITH WASH-OFF PROPERTIES	2023/06/26
2023/06652	FIVE-MEMBERED RING DERIVATIVE AND MEDICAL USE THEREOF	2023/06/28
2023/06661	SYSTEM, MANUFACTURING METHOD AND PRECAST FOUNDATION STRUCTURE FOR A WIND TURBINE	2023/06/28
2023/06694	PYRAZOLEAMIDE DERIVATIVES	2023/06/29
2023/06707	SYSTEM AND METHOD FOR TREATING MATERIAL BY LASER	2023/06/29
	SHOCK UNDER CONFINEMENT IN A LIQUID	
2023/06719	SPECIALIZED SLOT MACHINE FOR CONDUCTING A WAGERING GAME USING A CARD SYSTEM FOR REAL TIME OR LIVE ACTION EVENT CONTENT	2023/06/30
2023/06721	A METHOD AND SYSTEM FOR CLASSIFICATION OF RBC	2023/06/30
	MORPHOLOGY THROUGH INTELLIGENT IMAGE PROCESSING	
2023/06729	NOVEL GLP-1 ANALOGUES	2023/06/30
2023/06741	COMBUSTION BURNER WITH FIXED VANES	2023/06/30
2023/06748	GLP-1R RECEPTOR AGONIST COMPOUND AND USE THEREOF	2023/06/30

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2023/06760	CROSSLINKED COPOLYMER OF REPEAT UNIT HAVING AMIDE GROUP AND CARBOXYL AND/OR AMMONIUM SALT THEREOF AND REPEAT UNIT OF a-MONOOLEFINS	2023/06/30
2023/06761	ADHESIVE AND ARTIFICIAL BOARD PRODUCED USING SAME	2023/06/30
2023/06776	BLASTHOLE CHARGE STEMMING METHOD AND STEMMING STRUCTURE FOR ROCK FRACTURING WITH DRY ICE	2023/07/03
2023/06777	DEVICE FOR FACILITATING REPLACEMENT AND PROTECTION OF UNDERGROUND EXCAVATED MONITORING MEASUREMENT POINTS	2023/07/03
2023/06802	A GREEN ENERGY-SAVING ROOF STRUCTURE	2023/07/04
2023/06803	TETRABROMOPHENOL BLUE ALKALI METAL SALT, PREPARATION METHOD THEREFOR AND USE THEREOF	2023/07/04
2023/06810	A SYSTEM TO ANALYSE EFFECT OF NOISE ON PRACTICAL QUANTUM COMMUNICATION SYSTEMS	2023/07/04
2023/06820	METHOD FOR SECURING A GASKET ON A BIPOLAR PLATE	2023/07/04
2023/06821	DUSTPROOF AND PROTECTIVE STRUCTURE FOR AIR COMPRESSOR	2023/07/04
2023/06832	METHOD FOR SCREENING PHYTOCOMPOUNDS FOR TRIPLE INHIBITORY POTENTIAL AGAINST COX-1, COX-2, AND 5-LOX	2023/07/05
2023/06835	FORMWORKING JUMBO FOR ARCH BUCKLING AND LINING WITH PILE-BEAM-ARCH METHOD	2023/07/05
2023/06861	SECURE CLOUD-BASED WEATHER MONITORING SYSTEM WITH DISTRIBUTED SENSOR NETWORK	2023/07/06
2023/06865	RETRACTABLE SOLAR SYSTEM	2023/07/06
2023/06894	RING-SHAPED 3D STAGE EQUIPMENT WITH CONTROL MECHANISM	2023/07/07
2023/06895	AUTOMATIC CORRECTION FLUID FILLING DEVICE	2023/07/07
2023/06896	ZONE-BASED HEATING ELEMENT	2023/07/07
2023/06908	DETERMINING DRIVE SYSTEM ANOMALIES BASED ON POWER AND/OR CURRENT CHANGES IN AN IRRIGATION SYSTEM	2023/07/07
2023/06923	METHOD OF DRY SEEDLING RICE SEEDLING TRAY IN SANDY LOAM SOIL	2023/07/07
2023/06924	A NOVEL MANAGEMENT AND MAINTENANCE SYSTEM FOR A SMALL-RADIUS AND LARGE-CROSS-SECTION EXTRADOSED CABLE-STAYED BRIDGE	2023/07/07
2023/06925	3,4,5,6-TETRAHALOPHENOLSULFONPHTHALEIN ALKALI METAL SALT, PREPARATION METHOD THEREFOR AND USE THEREOF	2023/07/07
2023/06927	A HYPERBOLIC ROOF CONSTRUCTION PROCESS BASED ON BIM SIMULATION	2023/07/07
2023/06928	AN ENERGY-SAVING DETECTION SYSTEM FOR A CONSTRUCTION SITE	2023/07/07
2023/06937	FERMENTED FEED FOR BEEF CATTLE AND PREPARATION METHOD THEREFOR	2023/07/10
2023/06974	IRRIGATION DEVICE FOR PROMOTING DEEP ROOT GROWTH OF A PLANT	2023/07/10
2023/06987	A FERTILIZER-SAVING AND LOSS-REDUCING CORN PLANTING METHOD AND ITS APPLICATIONS	2023/07/11
2023/06988	CHILI PRETREATMENT DEVICE AND METHOD	2023/07/11
2023/06989	GROUTING METHOD FOR PAVEMENT CRACKS	2023/07/11
2023/07013	SALT FORM OF ISOQUINOLINONE TYPE COMPOUND AS ROCK INHIBITOR AND PREPARATION METHOD THEREFOR	2023/07/11
2023/07049	A CONSTRUCTION QUALITY MANAGEMENT SYSTEM	2023/07/13

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2023/07050	A TYPE OF ARC-STRUCTURE PLASTERING AND MOLDING EFFECT CONTROLLER	2023/07/13
2023/07051	FRUIT AND VEGETABLE AQUEOUS EXTRACT, PREPARATION METHOD THEREFOR AND USE THEREOF	2023/07/13
2023/07052	A STRUCTURE FOR PIPELINE PENETRATING SLEEVE AND CONSTRUCTION PROCESS THEREOF	2023/07/13
2023/07059	CONVERSION OF WASTE PLASTICS TO PETROCHEMICALS	2023/07/13
2023/07085	METHOD AND SYSTEM FOR JOINT INVERSION OF VELOCITY STRUCTURE AND HYPOCENTER LOCATION, TERMINAL, AND READABLE STORAGE MEDIUM	2023/07/14
2023/07087	CLOUD DATA CENTER DEVICE MANAGING SYSTEM	2023/07/14
2023/07091	A MUD PUMPING TRANSPORTATION SYSTEM AND A METHOD	2023/07/14
2023/07093	INTERACTIVE VISUALIZATION BUILDING METHOD FOR RULE ENGINE AND COMPUTER-READABLE MEDIUM	2023/07/14
2023/07120	ETHERIFICATION OF HIGH CONCENTRATION C5 ISO-OLEFINS VIA CATALYTIC DISTILLATION	2023/07/14
2023/07133	A CEMENT-BASED MATERIAL FOR GROUTING BEHIND A SHIELD WALL AND ITS PREPARATION METHOD	2023/07/17
2023/07134	A METHOD, A SYSTEM AND A DEVICE FOR MONITORING THE DEFORMATION OF AN UNDERGROUND WORK UNDER COMPLEX GEOLOGICAL CONDITIONS	2023/07/17
2023/07135	A WALL BRUSH FOR DIAPHRAGM WALL JOINTS	2023/07/17
2023/07136	BRANCH GATHERING APPARATUS AND GATHERING MACHINE	2023/07/17
2023/07137	A PIPELINE RECEIVING DEVICE	2023/07/17
2023/07138	STEEL PLATE WATERSTOP CONNECTING MEMBER	2023/07/17
2023/07140	FRUIT TREE PRUNING SYSTEM BASED ON HYDRAULIC CONTROL	2023/07/17
2023/07170	DEVICE AND METHOD FOR TESTING EXTERIOR BALLISTIC PARAMETERS OF WEAPON PROJECTILE ON THE BASIS OF LIGHT CURTAIN ARRAY	2023/07/18
2023/07176	A NOVEL REFERENCE LINE SCRIBING DEVICE AND METHOD FOR RAIL INSTALLATION	2023/07/18
2023/07177	A DEVICE FOR FIXING A PRE-BURIED CHUTE WITH A SEGMENT MOLD	2023/07/18
2023/07179	METHOD FOR PRODUCING DERIVATISED STARCH	2023/07/18
2023/07231	LECTIN PROTEIN FOR TREATMENT AND PREVENTION OF NEURODEGENERATIVE DISEASES	2023/07/19
2023/07235	OPTIMIZATION REGULATION METHOD AND SYSTEM FOR VIRTUAL POWER PLANT	2023/07/19
2023/07236	INTELLIGENT MULTIFOCAL TORIC LENS	2023/07/19
2023/07286	HOUSEHOLD ENERGY STORAGE SYSTEM AND MODULE FIXING STRUCTURE THEREOF	2023/07/21
2023/07289	STACKED POWER SUPPLY MODULES	2023/07/21
2023/07327	HERBICIDAL COMPOSITION, AND PREPARATION AND USE THEREOF	2023/07/24
2023/07328	HIGH-SALT MEMBRANE CONCENTRATED WATER TREATMENT METHOD AND HIGH-SALT MEMBRANE CONCENTRATED WATER TREATMENT APPARATUS	2023/07/24
2023/07329	EFFICIENT FILLING DEVICE FOR LNG CARRIER	2023/07/24
2023/07350	METHOD FOR EXTRACTING NUCLEIC ACID AND DETECTING GENE	2023/07/25
2023/07375	COMBINED VACCINE FOR PREVENTING HAND, FOOT AND	2023/07/25

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	MOUTH DISEASE, PREPARATION METHOD THEREFOR AND USE THEREOF	
2023/07411	METHOD FOR IDENTIFYING EMAMECTIN BENZOATE RESISTANCE GENE IN SPODOPTERA FRUGIPERDA, AND APPLICATION OF DSRNA	2023/07/26
2023/07412	METHOD OF REPELLING TUTA ABSOLUTA BY USING ROSEMARY	2023/07/26
2023/07443	A MANUFACTURING PROCESS FOR A STEEL ARCH SHELL BY JIG FRAME PROCESSING	2023/07/26
2023/07451	APPARATUS AND METHODS FOR POINT-TO-POINT TRANSPORTATION	2023/07/26
2023/07470	PHYSICAL EXERCISE PRACTICE RACK	2023/07/27
2023/07473	METHOD FOR STRUCTURED GENERATION&# 160;OF MEDICAL IMAGING REPORTS BA SED ON VISUAL QUESTION ANSWERIN G	2023/07/27
2023/07476	A DEVICE FOR RECEIVING, STORING AND TRANSFERRING ELECTRONIC TOKENS	2023/07/27
2023/07541	A METHOD FOR THE PREPARATION OF A SAUSAGE MIXTURE COATING GEL INCLUDING HIGH-PRESSURE PROCESSING	2023/07/28
2023/07567	AN IMAGE RECOGNITION TECHNOLOGY-BASED INTELLIGENT REBAR INVENTORY METHOD AND A SYSTEM	2023/07/31
2023/07617	METHOD FOR PREPARING HIGH-NICKEL CATHODE MATERIAL FOR LITHIUM-ION BATTERIES AND HIGH-NICKEL CATHODE MATERIAL FOR LITHIUM-ION BATTERIES PREPARED THEREFROM	2023/08/01
2023/07626	BACILLUS ATROPHAEUS WLKYSY-4, BIOLOGICAL BACTERIAL AGENT AND APPLICATION THEREOF	2023/08/02
2023/07635	CORROSION-RESISTANT SLOPING ROOF PANEL AND PREPARATION METHOD THEREOF	2023/08/02
2023/07636	CONCRETE EXTERIOR WALL INSULATION AND CONSTRUCTION METHOD THEREOF	2023/08/02
2023/07637	METHOD FOR CONSTRUCTING GROUND FLOOR HEATING WITH GOOD MOISTURE RESISTANCE	2023/08/02
2023/07656	MICROBIAL CONTROL ON HIGH-TOUCH SURFACES IN HEALTH CARE FACILITIES	2023/08/02
2023/07657	HEAT EXCHANGE SYSTEM	2023/08/02
2023/07674	DC SUPERIMPOSED IMPULSE WITHSTAND VOLTAGE TEST LOOP AND TEST METHOD THEREOF	2023/08/03
2023/07677	TELESCOPIC CABLE LAYING DEVICE ALONG TUNNEL STEEL ARCH FRAME AND USING METHOD THEREOF	2023/08/03
2023/07736	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR COORDINATING GASTROINTESTINAL ENVIRONMENT AND TONIFYING QI, BLOOD AND WATER, AND PREPARATION METHOD THEREFOR	2023/08/07
2023/07737	METHOD FOR SEPARATING AND PURIFYING CAFFEOYL QUINIC ACID COMPOUND FROM GUNURA PROCUMBENS FLOWER BY HIGH-SPEED COUNTERCURRENT CHROMATOGRAPHY	2023/08/07
2023/07765	METHOD FOR ATTRACTING AND CONTROLLING TOMATO INVASIVE PEST TUTA ABSOLUTA BY SOLANUM NIGRUM	2023/08/08
2023/07766	A PROCESSING CLAMP DEVICE FOR MECHANICAL DESIGN	2023/08/08
2023/07784	VIDEO DATA PROCESSING METHOD AND APPARATUS,	2023/08/08

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	ELECTRONIC DEVICE. AND STORAGE MEDIUM	
2023/07785	LOCAL EDGE SHUNTING METHOD AND SYSTEM, AND	2023/08/08
	SHUNTING SERVICE APPARATUS AND BASE STATION	
2023/07797	MEC SYSTEM	2023/08/08
2023/07809		2023/08/10
	AND ENCODING GENE AND APPLICATION THEREOF	
2023/07817	SENSING SYSTEM, METHOD AND DEVICE FOR NON-	2023/08/10
	INVASIVELY DETECTING CHRONIC KIDNEY DISEASE FROM	
	EXHALED BREATH	
2023/07821	CONCRETE VOID FORM AND METHOD OF MODULAR	2023/08/10
0000/07040		0000/00/44
2023/07840		2023/08/11
2023/07873		2023/06/11
2023/01013	PREPARATION METHOD THEREFOR	2023/00/14
2023/07874	METHOD FOR PREPARING AN ORGANIC FERTILIZER BY USING	2023/08/14
	DISTILLER'S GRAIN WASTE LIQUID AND STRAW	
2023/07875	NOVEL DIGITAL FACTORY INTELLIGENT DETECTION	2023/08/14
2023/07876	A CONSTRUCTION WASTE AND SLAG MICRO-POWDER	2023/08/14
	METHOD THEREOF	
2023/07877	INTELLIGENT MONITORING MANAGEMENT REMINDING SYSTEM	2023/08/14
	AND METHOD AFTER THYROIDECTOMY	
2023/07887	BIONIC PHOTON SKIN	2023/08/14
2023/07891	A DEVICE FOR SHOWCASING GUIDANCE ON INNOVATIVE	2023/08/14
0000/07005		0000/00/45
2023/07905		2023/08/15
2023/07900	LIGHTING ANGLE MEASUREMENT DEVICE FOR PHOTOVOLTAIC	2023/06/15
2023/01/901	MODULES USED IN PHOTOVOLTAIC POWER GENERATION	2023/00/13
2023/07908	A TRADITIONAL CHINESE MEDICINE SPRAY FORMULATION FOR	2023/08/15
	TREATING BURNS AND SCALDS	
2023/07909	SHOTCRETE TRUCK FOR PRELIMINARY TUNNEL	2023/08/15
0000/07040		0000/00/45
2023/07910		2023/08/15
	MINING	
2023/07931	SLEWING BEARING FATIGUE TESTING MACHINE CONVENIENT	2023/08/16
	FOR LOADING BENDING MOMENT	
2023/07932	COMPOUND LIQUID CONTAINING PROTEIN POLYPHENOLS AND	2023/08/16
	APPLICATION THEREOF IN PREPARING DOUBLE-PROTEIN MILK	
2023/07935	AERIAL WORK PLATFORM WITH THREE-DIMENSIONAL MOTION	2023/08/16
2023/07936		2023/08/16
2023/07939	DOUBLE-SIDED BEVELING DEVICE FOR STEEL PLATES	2023/08/16
2023/07965	CONVEYOR BELT CLEANING DEVICE AND USING METHOD	2023/08/16
	THEREOF	
2023/07974	SOIL REMOVAL DEVICE FOR SUGAR BEET	2023/08/17
2023/07975	SELF-CLEANING ALGAE-BACTERIA IMMOBILIZATION	2023/08/17
	DECONTAMINATION DEVICE	

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2023/07976	METHOD AND SYSTEM FOR TRAINING SPEECH EMOTION RECOGNITION MODEL	2023/08/17
2023/07977	NUTRITIONAL FLAVOURING MADE OF ANTARCTIC KRILL FOR PETS AND PREPARATION METHOD THEREFOR	2023/08/17
2023/07978	A SILVER-DOPED CDS-ZNIN2S4 COMPOSITE PHOTOCATALYST AND ITS PREPARATION METHOD	2023/08/17
2023/07980	CONTROL METHOD OF SOLID STATE DRIVE WITH BUILT-IN RFID ENCRYPTION	2023/08/17
2023/07981	LEARNING AUXILIARY DEVICE BASED ON THE ON-LINE OPENING COURSE OF CURRICULUM THOUGHT POLITICS	2023/08/17
2023/07982	PROPAGANDA DEVICE FOR IDEOLOGICAL AND POLITICAL EDUCATION OF COLLEGE STUDENTS IN THE NEW ERA	2023/08/17
2023/08013	FERMENTATION PRODUCT, MONASCUS AND SORGHUM FERMENTATION FILTRATE, PREPARATION METHOD AND APPLICATION THEREOF	2023/08/18
2023/08014	VERTICAL TWO-SECTION INCINERATOR AND METHOD FOR DISPOSING COMPLEX COMBUSTIBLE SOLID WASTES THEREOF	2023/08/18
2023/08015	METHOD FOR DISPOSING COMPLEX COMBUSTIBLE SOLID WASTES BY USING VERTICAL SECTIONAL INCINERATOR	2023/08/18
2023/08016	METHOD FOR CALCULATING THE BALL DIAMETER OF GRINDING BALLS OF BALL MILL	2023/08/18
2023/08018	DETECTION DEVICE FOR DETECTING NEURONAL CALCIUM SIGNAL CONDUCTION	2023/08/18
2023/08019	METHOD FOR DRAINING WATER DURING WALNUT BARK GRAFTING	2023/08/18
2023/08020	WALNUT TOP GRAFTING METHOD	2023/08/18
2023/08023	MAGNETIC LIQUID DOUBLE SUSPENSION BEARING	2023/08/18
2023/08024	SLAG HOLLOW MICRO-BEAD PREPARATION NOZZLE AND PREPARATION METHOD THEREFOR	2023/08/18
2023/08025	GENE TRANSCRIPTION FRAMEWORK, VECTOR SYSTEM, GENOME SEQUENCE EDITING METHOD AND APPLICATION	2023/08/18
2023/08064	TRADITIONAL CHINESE MEDICINE PILL FOR RELIEVING BREAST ACUTE MASTITIS, NODULE, HYPERPLASIA AND TOXIC SWELLING, AND PREPARATION METHOD THEREOF	2023/08/21
2023/08065	COLORING DEVICE FOR ART DESIGN	2023/08/21
2023/08066	MICROBIAL AGENT CONTAINING ASPERGILLUS ACULEATUS AND APPLICATION THEREOF	2023/08/21
2023/08067	HIGH-EFFICIENCY REACTION KETTLE DEVICE FOR SEPARATING ALGAE LIQUID	2023/08/21
2023/08068	AN ADJUSTABLE WALL CONNECTING PIECE	2023/08/21
2023/08069	PLANTING SOIL PREPARED BY USING SOLID WASTE AS RAW MATERIAL AND APPLICATION OF SAME	2023/08/21
2023/08084	TELEOPERATED TRANSFER DEVICE AND METHOD FOR COMPONENT MAINTENANCE OF NUCLEAR FUSION DEVICE	2023/08/21
2023/08085	ENERGY-SAVING AND ENVIRONMENT-FRIENDLY DUST REMOVAL DEVICE FOR ARCHITECTURAL DECORATION, AND USING METHOD	2023/08/21
2023/08087	A METHOD FOR THE IN VITRO DIAGNOSIS OF INFECTION	2023/08/21
2023/08098	QUALITY INSPECTION METHOD FOR WIND POWER EQUIPMENT	2023/08/21
2023/08099	NANOBUBBLE GENERATING DEVICE WITH ANTI-BLOCKING FUNCTION BASED ON WATER FLOW SHEARING	2023/08/22
2023/08100	METHOD FOR EXTRACTING TOTAL RNA FROM PLATEAU PLANT	2023/08/22

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	OXYTROPIS GLACIALIS	
2023/08101	WATER SURFACE GARBAGE COLLECTION DEVICE	2023/08/22
2023/08102	CARBON CAPTURE ASSISTANT SYSTEM AND CO2 SEALING METHOD FOR CEMENT PRODUCTION LINE	2023/08/22
2023/08103	A METHOD FOR STUDENTS' PRIVATE INFORMATION PROTECTION BASED ON DEEP LEARNING	2023/08/22
2023/08104	UNIFORM WARMING INDUSTRIAL MICROWAVE STERILIZATION DEVICE	2023/08/22
2023/08105	POSITION-ADJUSTABLE CABLE ERECTION DEVICE OF CABLEWAY BRIDGES	2023/08/22
2023/08106	A CLAY CALCINATION ROTARY KILN STRUCTURE	2023/08/22
2023/08107	A SYSTEM TO PERFORM MICROWAVE PRETREATMENT AND ANALYZE ITS IMPACT ON ANAEROBIC DIGESTION OF SLUDGE	2023/08/22
2023/08112	A SYSTEM AND METHOD FOR ENHANCING THE QUALITY OF SERVICE OF THE INTERNET OF MEDICAL THINGS	2023/08/22
2023/08113	DTMB SET-TOP BOX WAKEN UP BY FM-CDR AND USED FOR EMERGENCY BROADCAST	2023/08/22
2023/08114	DTMB SET-TOP BOX RESPONDING TO EMERGENCY BROADCAST VIA FM-CDR	2023/08/22
2023/08115	DTMB SET-TOP BOX WAKEN UP BY FM-CDR FOR EMERGENCY BROADCAST	2023/08/22
2023/08129	TIRE REPAIR KIT AND METHOD FOR INFLATING AND/OR SEALING A TIRE	2023/08/22
2023/08138	A VIBRATING DEVICE WHICH IS CONVENIENT FOR CONCRETE FORMING	2023/08/23
2023/08139	TRAFFIC LIGHT CONTROL SYSTEM AND CONTROL METHOD THEREOF	2023/08/23
2023/08142	ANTI-COLLAPSE SUPPORTING DEVICE FOR FOUNDATION PIT IN CIVIL ENGINEERING CONSTRUCTIONS	2023/08/23
2023/08175	PREPARATION METHOD FOR CRANKSHAFT REMOVING GRAPHITE NODULES FROM SURFACE AND HAVING RANDOM TEXTURE	2023/08/24
2023/08176	CRACK LOCATION METHOD OF CONTINUOUS BEAM UNDER MOVING LOAD BASED ON STRAIN CHARACTERISTICS	2023/08/24
2023/08177	ANTI-COLLISION EARLY WARNING CONTROL SYSTEM FOR CURVE VEHICLES AND CONTROL METHOD THEREOF	2023/08/24
2023/08178	A METHOD FOR IMPROVING THE ACCURACY OF LABORATORY SIMULATION OF ROCK FRAGMENTATION KINETIC ENERGY UNDER DEEP DISTURBANCE	2023/08/24
2023/08179	ADJUSTABLE WATER QUALITY MONITORING DEVICE	2023/08/24
2023/08180	QUANTITATIVE NONDESTRUCTIVE TESTING METHOD FOR REMAINING LIFE OF PIPELINE STEEL	2023/08/24
2023/08181	A VIBRATION DAMPER FOR STEEL WORK	2023/08/24
2023/08201	COMPUTER INTELLIGENT ADJUSTMENT SYSTEM FOR SOLAR PANELS ORIENTED TO PHOTOVOLTAIC INDUSTRY	2023/08/25
2023/08202	A DIGITAL PCR CHIP FOR MULTI-TARGET DETECTION AND ITS PREPARATION METHOD	2023/08/25
2023/08203	A GAS-LIQUID ISOLATION SYSTEM FOR A NEGATIVE PRESSURE SUCTION CUP IN A LIQUID ENVIRONMENT AND ITS OPERATIONAL METHOD	2023/08/25
2023/08204	BIO-BASED CARBON FIBER MATERIAL AND PREPARATION METHOD THEREOF	2023/08/25

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2023/08206	AN AUTOMATIC SHOTCRETE DRY MATERIAL SUPPLY SYSTEM FOR MINING	2023/08/25
2023/08207	PLASMA GENERATING DEVICE USED IN WATER	2023/08/25
2023/08208	A COSMETOLOGICAL OINTMENT COMPOSITION TO REPAIR SKIN LESIONS AND ITS PREPARATION PROCESS THEREOF	2023/08/25
2023/08209	AN ENERGY-SAVING TYPE DUST RECOVERY SYSTEM FOR CONSTRUCTION SITES	2023/08/25
2023/08242	METHOD FOR SYNTHESIS OF AMINO CINNAMIC ACID AND DERIVATIVES USING CATALYTIC DCC-HOBT COUPLING APPROACH	2023/08/28
2023/08243	DOUBLE-LIQUID GROUTING MATERIAL, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2023/08/28
2023/08244	PHOTOVOLTAIC PACKAGING ADHESIVE FILM AND PREPARATION METHOD THEREOF	2023/08/28
2023/08245	PHOTOVOLTAIC FILM MATERIAL AND PREPARATION METHOD THEREOF	2023/08/28
2023/08246	SMART INTER-TRANSFER DATA DRIVE	2023/08/28
2023/08247	ULTRA-THIN GLASS FRICTION SEPARATION DEVICE AND ITS OPERATION METHOD	2023/08/28
2023/08248	EFFICIENT WATER PURIFICATION DEVICE FOR AQUACULTURE	2023/08/28
2023/08249	MOVABLE SOLAR WATER MIXING AND OXYGENATION DEVICE	2023/08/28
2023/08251	TOBACCO LEAF WASTE DETERMINATION METHOD BASED ON PHOTOSHOP AND EDGE DETECTION	2023/08/28
2023/08252	ANTI-AGING AND ANTI-WRINKLE FORMULATION FROM VITIS VINIFERA AND TINOSPORA CORDIFOLIA EXTRACTS	2023/08/28
2023/08256	SPECIMEN STORAGE DEVICE FOR BASIC MEDICAL TEACHING	2023/08/28
2023/08257	MEDICAL SPRAY TYPE SOLID POWDER DRUG FEEDER	2023/08/28
2023/08259	AN INSTALLATION AND CONSTRUCTION METHOD FOR A LIGHTWEIGHT AND SELF-HEAT-PRESERVATION CONCRETE PREFABRICATED EXTERIOR WALL HANGING BOARD	2023/08/28
2023/08260	MODULAR BATTERY PACK	2023/08/28
2023/08261	A SOFTWARE-DEFINED NETWORKING (SDN)-BASED INTELLIGENT SHIP NETWORK SYSTEM	2023/08/28
2023/08262	IMPROVEMENTS TO POWER TOOL APPARATUS	2023/08/28
2023/08285	SYSTEM AND METHOD FOR OPERATING A MINING MACHINE WITH RESPECT TO A GEOFENCE USING A DYNAMIC OPERATION ZONE	2023/08/28
2023/08286	HORIZONTAL MECHANICALLY STABILIZING GEOGRID WITH IMPROVED GEOTECHNICAL INTERACTION	2023/08/28
2023/08299	A CONSTRUCTION METHOD OF IL-10 GENE NON-EXPRESSION HAMSTER MODEL	2023/08/29
2023/08300	A CONSTRUCTION METHOD OF APOC3 GENE NON- EXPRESSION HAMSTER MODEL	2023/08/29
2023/08301	A PORTABLE WATER ENVIRONMENT EDNA SAMPLING DEVICE	2023/08/29
2023/08302	AN EXTRACTION AND ANALYSIS METHOD OF CIGAR CHARACTERISTIC AROMA COMPONENT	2023/08/29
2023/08303	FILTRATION DEVICE FOR SEWAGE TREATMENT	2023/08/29
2023/08304	AN EMERGENCY TREATMENT SYSTEM FOR PREVENTING EUTROPHICATION IN RESERVOIR WATER BODIES USING OZONE TREATMENT	2023/08/29
2023/08305	AN EXPERIMENTAL APPARATUS FOR STUDYING THE BIODEGRADATION OF PLASTICS	2023/08/29

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2023/08307	HIGH EARLY STRENGTH IMPERMEABLE CEMENT-BASED GROUTING MATERIAL, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2023/08/29
2023/08308	SELECTIVE ADSORBENT MATERIAL FOR TREATING BERYLLIUM-CONTAINING WASTEWATER, PREPARATION METHOD THEREOF AND METHOD FOR TREATING BERYLLIUM- CONTAINING WASTEWATER USING SAME	2023/08/29
2023/08309	SELECTIVE ADSORBENT MATERIAL FOR TREATING SELENIUM- CONTAINING WASTEWATER, PREPARATION METHOD THEREOF AND METHOD FOR TREATING SELENIUM-CONTAINING WASTEWATER USING SAME	2023/08/29
2023/08314	REMOTE FETAL HEART MONITORING SYSTEM BASED ON WEARABLE ULTRASONIC COMPOSITE SPEAKER	2023/08/29
2023/08315	HIGH-EFFICIENCY ANTIOXIDANT DONKEY SPERM DILUENT, PREPARATION METHOD THEREFOR AND USE THEREOF	2023/08/29
2023/08316	DILUENT FOR PROMOTING ENERGY SUPPLY OF DONKEY SPERMS, PREPARATION METHOD THEREFOR AND USE THEREOF	2023/08/29
2023/08319	INTEGRATED AMMONIA-BASED DESULFURIZATION AND DECARBONIZATION APPARATUS AND METHOD	2023/08/29
2023/08336	AUTOMATIC FEEDING DEVICE FOR CORN STARCH PROCESSING	2023/08/29
2023/08338	BEARING PROTECTOR	2023/08/29
2023/08346	AGRICULTURAL PRECISION PLANTING SYSTEM BASED ON BIG DATA	2023/08/30
2023/08347	LIMIT ADJUSTING DEVICE FOR HORIZONTAL SWIVEL CONSTRUCTION	2023/08/30
2023/08348	METHOD FOR PREPARING IRON-BASED ALLOY AND MAGNETIC HIGH-ENTROPY ALLOY BY USING IRON-RICH METALLURGICAL SLAG	2023/08/30
2023/08349	NICKEL WAVE-ABSORBING MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF	2023/08/30
2023/08350	LEAD-ZINC WAVE-ABSORBING MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF	2023/08/30
2023/08351	COPPER WAVE-ABSORBING MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF	2023/08/30
2023/08352	METHOD FOR REAL-TIME WAVE VELOCITY MEASUREMENT AND QUALITY EVALUATION OF ROCK MASS	2023/08/30
2023/08353	APPLICATION OF FUSION PEPTIDE IN INHIBITING BACTERIAL BIOFILM FORMATION DURING PREVENTION AND TREATMENT OF SKIN WOUND INFECTION	2023/08/30
2023/08357	A FOUR-PILLAR SHIELD HYDRAULIC SUPPORT FOR EXTREMELY THIN COAL SEAM	2023/08/30
2023/08361	A SYSTEM FOR REVIEWING AND/OR SIGNING AN ELECTRONIC DOCUMENT, AND A METHOD OF REVIEWING AND/OR SIGNING A DOCUMENT ELECTRONICALLY	2023/08/30
2023/08365	TEST STRIP AND KIT FOR DETECTING HELICOBACTER PYLORI (HP)	2023/08/30
2023/08398	CLAMPING DEVICE FOR AUTOMATIC MILLING OF FLAME- RETARDANT EPOXY GLASS CLOTH FOUR-LAYER LAMINATED CIRCUIT BOARD	2023/08/30
2023/08403	HIGHLY-WRINKLED POROUS CARBON NANOSHEET AND	2023/08/31

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	PREPARATION METHOD THEREFOR	
2023/08405	A BIOMASS CARBON MATERIAL AND ITS PREPARATION PROCESS	2023/08/31
2023/08406	EXTRACTION PROCESS OF PIGEON PEA LEAF EXTRACT	2023/08/31
2023/08407	SIGNAL TRANSMISSION MECHANISM OF CONTROL SYSTEM OF EDUCATIONAL ROBOT	2023/08/31
2023/08412	METHOD FOR MYSQL INCREMENTAL DATA REAL-TIME SYNCHRONIZATION, COMPUTER-READABLE STORAGE MEDIA	2023/08/31
2023/08413	GARBAGE CLASSIFICATION METHOD BASED ON VOICE CLASSIFICATION, DEVICE THEREFOF, TERMINAL THEREFOF AND STORAGE MEDIUM THEREFOF	2023/08/31
2023/08446	PLUG SEEDLING AND STRENGTHENING METHOD FOR LYCIUM RUTHENICUM	2023/09/01
2023/08449	A STABLE AND EASY-TO-UPGRADE ROBOT CONTROL SYSTEM FOR FORGING PROCESSING	2023/09/01
2023/08450	A FRONT-END DEVICE OF A SMALL MEDICAL TRACKING AND MONITORING SYSTEM	2023/09/01
2023/08451	SHEAR SLIP GLASS SEPARATION DEVICE AND ITS OPERATION METHOD	2023/09/01
2023/08452	ONLINE MULTI OBJECT TRACKING METHOD COMBINED WITH THE LIGHTWEIGHT DEEP APPEARANCE EXTRACTION	2023/09/01
2023/08481	OUTDOOR GARBAGE BIN	2023/09/04
2023/08482	DIGESTION METHOD FOR GOLD AND SILVER COMPOSITE PARTICLES	2023/09/04
2023/08483	TRADITIONAL CHINESE MEDICINE COMPOSITION, MEDICINAL LIQUOR FOR TREATING SOFT TISSUE INJURY AND PREPARATION METHOD THEREOF	2023/09/04
2023/08484	TRADITIONAL CHINESE MEDICINE FOR TREATING LATE COUGH CAUSED BY VIRAL INFECTION	2023/09/04
2023/08485	ORAL DECOCTION FOR TREATING PAIN SYMPTOMS OF BRUISES AND PREPARATION METHOD THEREOF	2023/09/04
2023/08486	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING PNEUMOVIRUS	2023/09/04
2023/08488	SYSTEM FOR MEASURING EFFECTIVE RAIN FACTOR OF FARMLAND AND METHOD THEREFOR	2023/09/04
2023/08489	TRINITY ULTRA-THIN GLASS SEPARATION DEVICE AND OPERATION METHOD	2023/09/04
2023/08490	MEDIUM FOR CULTURING MONOCHASMA SAVATIERI FRANCH. EX MAXIM. AND APPLICATION THEREOF, AND METHOD FOR RAPIDLY CULTIVATING SEEDLINGS OF MONOCHASMA SAVATIERI FRANCH. EX MAXIM.	2023/09/04
2023/08493	SECURITY EARLY WARNING DEVICE FOR POWER GRID OPERATION AND MAINTENANCE INFORMATION AND ITS OPERATION METHOD	2023/09/04
2023/08494	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING CORONAVIRUS	2023/09/04
2023/08498	TOOL FOR TRANSPORTING SPECIAL PIPE IN LONG SPACE	2023/09/04
2023/08509	PREDICTION METHOD FOR SUBJECT LITERATURE RETRIEVAL	2023/09/04
2023/08513	DYNAMIC ACCOUNTING AND MANAGING SYSTEM FOR CARBON EMISSION OF INDUSTRIAL ENTERPRISE	2023/09/05
2023/08514	A METHOD OF REALIZING INDUSTRIAL META-UNIVERSE BY USING VIRTUAL REALITY TECHNOLOGY	2023/09/05

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2023/08516	APPLICATION OF RND3 GENE OVEREXPRESSION REAGENT IN THE FORMULATION OF PHARMACEUTICALS TARGETING CARDIOMYOCYTE SENESCENCE	2023/09/05
2023/08522	PIVOT STEERING APPARATUS OF STAIR CLIMBING TROLLEY AND ITS CORRESPONDING WORKING METHOD	2023/09/05
2023/08526	METHOD AND SYSTEM FOR EFFICIENT IMAGE SEGMENTATION USING OPTIMIZED SEGNET-BASED MODEL	2023/09/05
2023/08528	A SYSTEM FOR PERFORMING FIELD HEAVE MEASUREMENTS ON FOUNDATION TECHNIQUE IN EXPANSIVE SOILS	2023/09/05
2023/08532	CAMELLIA CUTTAGE SEEDLING-RAISING DEVICE	2023/09/05
2023/08556	LIGHTING DEVICE FOR ORAL CAVITY AUXILIARY EXAMINATION	2023/09/06
2023/08557	ANTI MOVING FIXED DEVICE	2023/09/06
2023/08587	A MOBILE COMMUNICATION EQUIPMENT FOR COMMUNICATION ENGINEERING	2023/09/07
2023/08591	AN INTELLIGENT WEIGHT INDICATOR AND MONITORING DEVICE FOR DOMESTIC LPG CYLINDER	2023/09/07
2023/08592	A MOULD FOR PREPARATION OF LIGHT WEIGHT CONCRETE PANEL BY USING E-WASTE	2023/09/07
2023/08593	A COMPUTER AIDED DIAGNOSIS SYSTEM FOR GLAUCOMA DETECTION	2023/09/07
2023/08594	A SOIL FERTILITY DETECTION ROBOT	2023/09/07
2023/08595	A METAL ION ADSORBENT	2023/09/07
2023/08610	BLIND IDENTIFICATION METHOD OF 16APSK MODULATION PATTERN BASED ON POWER SPECTRUM FLATNESS	2023/09/08
2023/08612	A FOUR-DEGREE-OF-FREEDOM FLOATING GRINDING DEVICE	2023/09/08
2023/08613	CARRYING DEVICE FOR LAYERINNG AND CLASSIFYING WHICH IS USED FOR THE MACHINE FOR STAIR CLIMBING AND WORKING METHOD THEREOF	2023/09/08
2023/08626	A SOLAR LIGHT TUBE FOR MULTILAYER FARMING	2023/09/08
2023/08627	AN INTELLIGENT INTERACTIVE SYSTEM FOR ANALYZING ONLINE NEWS ARTICLES	2023/09/08
2023/08628	AN AUTOMATIC RESUSCITATOR BAG VENTILATOR	2023/09/08
2023/08629	A SYSTEM FOR ENHANCING ANAEROBIC DIGESTION POTENTIAL OF DAIRY WASTE ACTIVATED SLUDGE BY SONO- ALKALIZATION PRETREATMENT	2023/09/08
2023/08664	PREPARATION METHOD FOR IRON-BASED WEAR-RESISTANT COMPOSITE MATERIAL	2023/09/11
2023/08721	MOBILE RAINFALL SIMULATION CURRENT-COLLECTING DEVICE	2023/09/13
2023/08722	COMPOSITE BIOCHAR SALINE SOIL CONDITIONER AND PREPARATION METHOD THEREOF	2023/09/13
2023/08723	DETECTING AND COUNTING DILUTER FOR BULL SEMEN DENSITY	2023/09/13
2023/08724	CRUSHER FOR DETECTING POTATO DISEASES	2023/09/13
2023/08725	VIRUS TRANSPORTING AND STORING BOX FOR DETECTING POTATO DISEASES	2023/09/13
2023/08726	METHOD SUITABLE FOR IMPROVING SANDY FLUVO-AQUIC SOIL STRUCTURE AND INCREASING CAPACITY AND EFFICIENCY OF NUTRIENTS	2023/09/13
2023/08727	A METHOD OF THE DETERMINATION FOR 16 PAHS IN SEDIMENTS BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY	2023/09/13
2023/08728	CULTIVATION AND MANAGEMENT METHOD OF ELYMUS	2023/09/13

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	NUTANS GRISEB IN ALPINE REGION	
2023/08729	CULTIVATION AND MANAGEMENT METHOD SUITABLE FOR	2023/09/13
	PLANTING GRASS ON RIVERBANK SANDY LAND	
2023/08758	A SYSTEM FOR IMPROVING SOLUBILIZATION AND ANAEROBIC	2023/09/14
	BIODEGRADABILITY OF DAIRY WASTE ACTIVATED SLUDGE	
2023/08786	METHOD FOR IDENTIFYING STOLEN VEHICLES	2023/09/15
2023/08787	PAYMENT CARD, AUTHENTICATION METHOD AND USE FOR A REMOTE PAYMENT	2023/09/15
2023/08811	THERAPEUTIC EQUIPMENT FOR LIMB REHABILITATION	2023/09/18
2023/08815	PROCESS FOR ASSEMBLING AND WELDING CHIP COMPONENTS	2023/09/18
2023/08858	STEEL PLATE-CONCRETE COMPOSITE STRENGTHENING STRUCTURE AND CONSTRUCTION METHOD FOR REINFORCED CONCRETE T-BEAM	2023/09/19
2023/08859	A SELF-ALIGNED SPLIT HOPKINSON PRESSURE BAR SYSTEM ACCOMMODATING VARIABLE-DIAMETER ROCK BARS	2023/09/19
2023/08892	HIGH-PRESSURE CLEANING DEVICE FOR MEDICAL CLINICAL NURSING EQUIPMENT	2023/09/20
2023/09655	SEMI-SUPERVISED FAULT DETECTION AND ANALYSIS METHOD FOR MECHANICAL EQUIPMENT, DEVICE, TERMINAL AND MEDIUM THEREOF	2023/10/16
2023/10138	POST-EMERGENCE HERBICIDE	2023/10/31
2023/11166	COMPOSITION FOR FORMING A HYDROGEN PEROXIDE BASED EMULSION EXPLOSIVE	2023/12/04
2023/11167	SENSITIZING COMPOSITION FOR ENERGETIC HYDROGEN PEROXIDE EMULSIONS	2023/12/04
2023/11168	COMPOSITION FOR FORMING AN EXPLOSIVE COMPRISING AN EMULSION OF HYDROGEN PEROXIDE AND AN OIL TYPE FUEL	2023/12/04
2023/11236	DEMOULDING FIXTURE FOR RUBBER CUP	2023/12/06
2023/11420	BISPECIFIC ANTIBODIES AND USES OF THE SAME THEREOF	2023/12/12
2023/11598	FORMING PROCESS FOR ULTRA-LARGE-DIAMETER ANNULAR REINFORCING MESH COMPONENT	2023/12/18
2023/11634	A REAL-TIME MONITORING METHOD BASED ON USER BEHAVIOR AND RELATED DEVICE	2023/12/19
2024/00088	CATALYST AND APPLICATION THEREOF	2024/01/02
2024/00107	REAL-TIME TEMPERATURE DETECTION METHOD FOR POWER BATTERY PACK	2024/01/02
2024/00164	WATER FILTERING STRUCTURE AND SYSTEM COMPRISING SAME	2024/01/03
2024/00297	METHOD AND APPARATUS FOR PLANNING EQUIPMENT CAPACITY OF INTEGRATED ENERGY STATION, TERMINAL, AND STORAGE MEDIUM	2024/01/09
2024/00298	COLLABORATIVE PLANNING METHOD FOR INTEGRATED ENERGY SYSTEM CONSIDERING CARBON CYCLE OF WASTE POWER GENERATION	2024/01/09
2024/00378	CANNABINOID COMPOSITION AND APPLICATION THEREOF IN PREPARATION OF DRUG FOR TREATING NEURODEGENERATIVE DISEASES SUCH AS PARKINSON'S DISEASE AND ALZHEIMER'S DISEASE	2024/01/10
2024/00909	DRUG FOR CORRECTION OF MITOCHONDRIAL DYSFUNCTION	2024/01/26
2024/00967	LIQUID PROLIPOSOME COMPOSITION OF PLANT PROTECTION AGENTS AND METHOD OF MAKING SAME	2024/01/29

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2024/00968	B7H6 ANTIBODY AND USE THEREOF	2024/01/29
2024/01040	"A PROCESS FOR PREPARING PLASTICIZER FREE HARD	2024/01/31
	CAPSULE SHELL COMPOSITION"	
2024/01041	"WEARABLE FOREARM GEAR FOR ACHILLES TENDON	2024/01/31
	STRETCHER"	
2024/01653	REDUCING AND NON-BLAST FURNACE SMELTING METHOD OF	2024/02/26
	ALKALINE VANADIUM-TITANIUM PELLETS AND HOT-PRESSED	
	CARBON-CONTAINING VANADIUM-TITANIUM PELLETS	

### DESIGNS

#### Advertisement List for March 2024

### Number of Advertised Designs: 96

Application Number	Design Articles	Filing Date
A2020/00758	SOAP	2020/06/09
A2021/00464	AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE	2021/04/30
A2021/00465	AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE	2021/04/30
A2022/00866	Nudge Bar for a Vehicle	2022/07/29
A2022/00967	Toy Car	2022/08/15
A2022/01013	Terminal Clamp	2022/08/30
A2022/01359	A DISPLAY DEVICE	2022/10/27
A2022/01418	PACKAGING	2022/11/09
A2022/01420	A SANITARY PAD	2022/11/09
A2022/01462	A TWO-DIMENSIONAL GRAPHIC DESIGN FOR APPLICATION TO PACKAGING	2022/11/09
A2022/01492	CONTAINER FOR LUBRICANTS	2022/11/17
A2022/01549	A DISPLAY DEVICE	2022/12/01
A2022/01554	A DISPLAY DEVICE	2022/12/01
A2022/01555	A DISPLAY DEVICE	2022/12/01
A2022/01559	A DISPLAY DEVICE	2022/12/01
A2022/01561	A DISPLAY DEVICE	2022/12/01
A2022/01563	A DISPLAY DEVICE	2022/12/01
A2022/01565	A DISPLAY DEVICE	2022/12/01
A2022/01567	A DISPLAY DEVICE	2022/12/01
A2022/01569	A DISPLAY DEVICE	2022/12/01
A2022/01571	A CLIP FOR A DISPLAY DEVICE	2022/12/01
A2022/01639	A DISPENSING DEVICE	2022/12/13
A2022/01641	A HANG TAB	2022/12/13
A2022/01643	A HANG TAB	2022/12/13
A2022/01645	A HANG TAB	2022/12/13

Application Number	Design Articles	Filing Date	
A2023/00408	SEALING MEMBER	2023/03/31	
A2023/00514	SELF-FEEDING STOVES	2023/04/26	
A2023/00515	COOKING APPLIANCES	2023/04/26	
A2023/00516	COOKING APPLIANCES INCORPORATING ROTISSERIES	2023/04/26	
A2023/00575	CONTAINER	2023/05/15	
A2023/00619	JEANS	2023/05/26	
A2023/00620	JEANS	2023/05/26	
A2023/00632	COFFIN ARRANGEMENT WITH INDICIA MODULES	2023/05/30	
A2023/00664	A BULLET	2023/06/06	
A2023/00681	GOLF CLUB HEAD CLEANER	2023/06/08	
A2023/00702	A TAG ASSEMBLY	2023/06/20	
A2023/00703	FREESTANDING FACEPOD	2023/06/20	
A2023/00704	HOUSING COVER	2023/06/20	
A2023/00713	METER COVER	2023/06/23	
A2023/00731	SEPARATOR FOR AN AGRICULTURAL MACHINE	2023/07/03	
A2023/00760	INFANT SAFETY CAR SEAT WITH WHEELS	2023/07/07	
A2023/00761	INFANT SAFETY CAR SEAT WITH WHEELS	2023/07/07	
A2023/00762	INFANT SAFETY CAR SEAT WITH WHEELS	2023/07/07	
A2023/00764	INFANT SAFETY CAR SEAT WITH WHEELS	2023/07/07	
A2023/00765	INFANT SAFETY CAR SEAT WITH WHEELS	2023/07/07	
A2023/00791	BATTERY CHAMBERS	2023/07/13	
A2023/00795	LADDER CAP	2023/07/14	
A2023/00839	BUILDING PANEL	2023/07/21	
A2023/00852	A RING	2023/07/25	
A2023/00853	A RING	2023/07/25	
A2023/00854	A RING	2023/07/25	
A2023/00857	POT WITH ELONGATED HANDLE	2023/07/26	
A2023/00864	TURBINE	2023/07/26	
A2024/00111	BOTTLE	2024/01/30	
F2022/00780	A Mount	2022/06/30	
F2022/00781	A Race Plate Holder	2022/06/30	
F2022/01360	A DISPLAY DEVICE	2022/10/27	
F2022/01419	A SANITARY PAD	2022/11/09	
F2022/01506	RETAINING WALL BLOCK	2022/11/21	
F2022/01548	A DISPLAY DEVICEQ	2022/12/01	
F2022/01551	A DISPLAY DEVICE	2022/12/01	
F2022/01553	A DISPLAY DEVICE	2022/12/01	
F2022/01557	A DISPLAY DEVICE	2022/12/01	
F2022/01560	A DISPLAY DEVICE	2022/12/01	
F2022/01560	A DISPLAY DEVICE	2022/12/01	
F2022/01562	A DISPLAY DEVICE	2022/12/01	
F2022/01564	A DISPLAY DEVICE	2022/12/01	

Application Number	Design Articles	Filing Date
F2022/01566	A DISPLAY DEVICE	2022/12/01
F2022/01568	A DISPLAY DEVICE	2022/12/01
F2022/01570	A CLIP FOR A DISPLAY DEVICE	2022/12/01
F2022/01638	A DISPENSING DEVICE	2022/12/13
F2022/01640	A HANG TAB	2022/12/13
F2022/01644	A HANG TAB	2022/12/13
F2023/00013	FLOAT DEVICE	2023/01/03
F2023/00014	FLOAT DEVICE	2023/01/03
F2023/00015	FLOAT DEVICE	2023/01/03
F2023/00016	FLOAT DEVICE	2023/01/03
F2023/00410	SEED FEEDER	2023/03/31
F2023/00549	BACKFILL BAG	2023/05/08
F2023/00550	BACKFILL BAG	2023/05/08
F2023/00633	COFFIN ARRANGEMENT WITH INDICIA MODULES	2023/05/30
F2023/00663	A BULLET	2023/06/06
F2023/00701	A TAG ASSEMBLY	2023/06/20
F2023/00709	WALL PANEL	2023/06/22
F2023/00718	PRINTED ELECTRONIC CIRCUIT BOARD	2023/06/27
F2023/00732	SEPARATOR FOR AN AGRICULTURAL MACHINE	2023/07/03
F2023/00733	TRAILER	2023/07/04
F2023/00778	ANTENNA ASSEMBLY	2023/07/11
F2023/00779	ANTENNA ASSEMBLY	2023/07/11
F2023/00785	DRILL BIT	2023/07/12
F2023/00787	DRILL BIT	2023/07/12
F2023/00794	LADDER CAP	2023/07/14
F2023/00840	BUILDING PANEL	2023/07/21
F2023/00855	CLOSURE DEVICE	2023/07/25
F2023/00875	DIPPING TAPE	2023/07/28
F2024/00012	SCREEN	2024/01/04

#### OTHER OFFICE PRACTICE NOTICES

#### NOTICE TO IP STAKEHOLDERS/CLIENTS

Due to Wednesday 29 May 2024 having been declared a public holiday in view of the national elections taking place on that day, kindly note that the publication date for the May 2024 Patent Journal will be <u>30 May 2024</u>.



- d) Norton Rose House No 8, Shop Number 3, Riebeek Street, Thibault Square, Cape Town;
- e) (CIPC officials) at Trade and Investment KwaZulu Natal (TIKZN) situated at 1 Arundel Close, Kingsmead Office Park, Kingsmead Boulevard, Stalwart Simelane Street in Durban,

#### SCHEDULE

Trade Marks Act, 1993 Patents Act, 1978 Design Act, 1993 Copyright Act, 1978 Companies Act, 2008 Close Corporations Act, 1984 Co-operatives Act, 2005 Registration of Copyright in Cinematograph Film Act, 1977

This notice is necessitated by widespread internet outage as a result of multiple subsea cable failures.

Kind regards.

Adv. Rory W. Voller CIPC Commissioner Date: <u>15 March 2024</u>

> The dtic Campus (Block F – Entfutfukweni), 77 Meintjies Street, Sunnyside, Pretoria, P O Box 429, Pretoria, 0001 Call Centre: 086 100 2472 I Website: www.cipc.co.za



#### COMPANIES AND INTELLECTUAL PROPERTY COMMISSION (CIPC)

#### NOTICE

Taking into consideration that CIPC official office days are Mondays to Fridays and do not include week-ends or public holidays, notice is hereby given in terms of and for purposes of the Acts mentioned in the Schedule below, that CIPC will be closed to the public from **12h00 on Thursday 28 March 2024** for the Easter week-end.

The CIPC Offices at -

- a) the Department of Trade, Industry and Competition (the dtic) (77 Meintjies Street, Block F Entfutfukweni) in Sunnyside, Pretoria;
- b) 1<sup>st</sup> floor, Office 103, Sancardia Building, 541 Madiba Street, Arcadia, Pretoria;
- c) Talis House , No 17 Simmonds street, Cnr Main and Simmonds street, Marshalltown, Johannesburg;
- d) Norton Rose House No 8, Shop Number 3, Riebeek Street, Thibault Square, Cape Town; and
- e) (CIPC officials) at Trade and Investment KwaZulu Natal (TIKZN) situated at 1 Arundel Close, Kingsmead Office Park, Kingsmead Boulevard, Stalwart Simelane Street in Durban,
- will re-open at 08h00 on Tuesday 2 April 2024 following Easter Monday 1 April 2024 (public holiday).

Please use Web Services: www.cipc.co.za, www.eservices.cipc.co.za and www.bizportal.gov.za.

#### SCHEDULE

Trade Marks Act, 1993 Patents Act, 1978 Design Act, 1993 Copyright Act, 1978 Companies Act, 2008 Close Corporations Act, 1984 Co-operatives Act, 2005 Registration of Copyright in Cinematograph Film Act, 1977

Kind regards.

KW Rory Voller 29/02/2024 08:45:32(UTC+02:00) Signed by Rory Voller, RVoller@cipc.co.za

Rory Voller CIPC Commissioner

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# NOTICE TO CUSTOMERS TO COMPANIES AND INTELLECTUAL PROPERTY COMMISSION CUSTOMERS

#### 2024 SCHEDULE FOR ONLINE PUBLICATION OF THE PATENT JOURNAL

Please take note of the below dates regarding XML and online submissions for purposes of publishing in the Patent Journal. Further take note of the Patent Journal publication dates.

Month	Opening dates	Cut-off dates	Journal Publication Dates
January	02-January-2024	22-January-2024	31-January-2024
February	01-February-2024	19-February-2024	28-February-2024
March	29-February-2024	18-March-2024	27-March-2024
April	28-March-2024	15-April-2024	24-April-2024
Мау	25-April-2024	20-May-2024	30-May 2024
June	31-May-2024	18-June-2024	26-June-2024
July	27-June-2024	22-July-2024	31-July-2024
August	01-August-2024	19-August-2024	28-August-2024
September	29-August-2024	16-September-2024	25-September-2024
October	26-September-2024	21-October 2024	30-October-2024
November	31-October-2024	18-November-2024	27-November-2024
December	28-November-2024	09-December-2024	18-December-2024
January	02-January-2025	20-January-2025	29-January-2025

The above dates may be changed without a notice.

Ms Velaphi Skosana Senior Manager: Patents and Designs Registry Patents, Design & Innovation Division 22/03/2024

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