

PATENT JOURNAL

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2. PATENTS

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 2022/08/29 -

2022/09620 ~ Complete ~54:FUSED TRICYCLIC COMPOUND AND MEDICINAL USE THEREOF ~71:JAPAN TOBACCO INC., 1-1, Toranomom 4-chome Minato-ku, Tokyo, 105-6927, Japan ~72: HIROSHI UENO;KOICHI SUZAWA;MAKI YAMAKAWA;TOMOYUKI MANABE;YUKI FUJISHIMA~ 33:JP ~31:2020-036931 ~32:04/03/2020;33:JP ~31:2021-001452 ~32:07/01/2021

2022/09625 ~ Complete ~54:A CLEANING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: KARTHICK MANICKAM;SAMIRAN MAHAPATRA;SHANTHI APPAVOO;SHRIKANT POPAT NALAWADE~ 33:EP ~31:20163023.3 ~32:13/03/2020

2022/09631 ~ Complete ~54:WATER-BASED EPOXY ANTI-CORROSION COATING AND PREPARATION METHOD THEREOF ~71:XIAMEN SUNRUI SHIP COATING CO., LTD., No. 168 Neian Zhong Lu, Xiang'an Industrial Area, Xiamen Torch High-tech Zone, Xiamen City, Fujian Province, 361101, People's Republic of China ~72: WANG, Shenglong;WEN, Zhengming;WU, Peifa;YANG, Mingliang~

2022/09610 ~ Complete ~54:A MAGNETIC INTERLOCKING DEVICE FOR FRACTURE REDUCTION AND FIXATION ~71:LIYANG PEOPLE'S HOSPITAL, No. 70 Jianshe West Road, Liyang City, People's Republic of China;ZHANG, Wenxi, No. 70 Jianshe West Road, Liyang City, People's Republic of China ~72: ZHANG, Wenxi~

2022/09588 ~ Provisional ~54:METHOD FOR DRY SEPARATION ~71:KAOLIN GROUP (PTY) LTD, Beautiful Life Building, 70-74 Bree Street, South Africa ~72: Johannes Rasmus JANSEN VAN RENSBURG~

2022/09589 ~ Provisional ~54:MY CORRUPT FREE DRIVERS LICENCE TECHNOLOGY SOLUTION ~71:Selota Shai, 12 Sneeuwgras Crescent, Countryview, Midrand, South Africa ~72: Selota Shai~

2022/09592 ~ Provisional ~54:CONTAINER SPOUT ~71:Lance Peter Matthews, 138 Saint Kilda Road, Crawford, South Africa ~72: Lance Peter Matthews~ 33:ZA ~31:1 ~32:28/08/2022

2022/09597 ~ Complete ~54:ENCODING AND DECODING METHOD AND DEVICE, ENCODER SIDE APPARATUS AND DECODER SIDE APPARATUS ~71:Hangzhou Hikvision Digital Technology Co., Ltd., No.555 Qianmo Road, Binjiang District, HANGZHOU 310051, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Fangdong~ 33:CN ~31:201910182197.8 ~32:11/03/2019

2022/09598 ~ Complete ~54:UNDERWATER CRAFT LESS LIKELY TO BE DETECTED ACROSS GREAT DISTANCES ~71:Thyssenkrupp Marine Systems GmbH, Werftstr. 112-114, KIEL 24143, GERMANY, Germany;thyssenkrupp AG, ThyssenKrupp Allee 1, ESSEN 45143, GERMANY, Germany ~72: AVSIC, Tom;TEPPNER, Randolph~ 33:DE ~31:10 2016 014 108.5 ~32:24/11/2016

2022/09603 ~ Complete ~54:A SYSTEM FOR INTEGRATING BLOCKCHAIN WITH LOCAL PUBLIC SERVICE AND METHOD THEREOF ~71:Bhushankumar Pitambar Nemade, Thakur College of Engineering and Technology, A-Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Kandivali East, Mumbai, India;Dr. Sujata Sameet Alegavi, Thakur College of Engineering and Technology, A-Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Kandivali East, Mumbai, India;Dr. Vikas Kaul, Shree L R Tiwari College of Engineering, Kanakia Rd, Kanakia Park, Mira Road, Mira Bhayandar, Thane, India;Dr. Vinayak Ashok Bharadi, Finolex Academy of Management and Technology, P60, P60-1, MIDC, Ratnagiri, Ratnagiri, India;Geetanjali Nilesh Sawant, Finolex Academy of Management and Technology, P60, P60-1, MIDC, Ratnagiri, India;Pravin Surtaram Jangid, Finolex Academy of Management and Technology, P60, P60-1, MIDC, Ratnagiri, India ~72: Bhushankumar Pitambar Nemade;Dr. Sujata Sameet Alegavi;Dr. Vikas Kaul;Dr. Vinayak Ashok Bharadi;Geetanjali Nilesh Sawant;Pravin Surtaram Jangid~

2022/09609 ~ Complete ~54:WATER-SAVING AND ENVIRONMENT-FRIENDLY PIG FARM ~71:Yantai Institute of China Agricultural University, No.2006, Binhai Mid-Rd, High-tech Zone, Yantai City, Shandong Province, People's Republic of China;Yantai Zhonghetang Agriculture Co., Ltd., No.1, Haiba-Rd, Laishan District, Yantai City, Shandong Province, People's Republic of China ~72: JIANG Hu;KONG Fanke;LEI Dejun;LIU Haijun;SHI Chenghai;WANG Youbin~

2022/09612 ~ Complete ~54:INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION ~71:VIIV HEALTHCARE UK (NO.5) LIMITED, 980 Great West Road, Brentford Middlesex, United Kingdom ~72: GILLIS, Eric, P.;IWUAGWU, Christiana~ 33:US ~31:62/985,937 ~32:06/03/2020;33:US ~31:63/040,051 ~32:17/06/2020

2022/09617 ~ Complete ~54:CRYSTALLINE HYDRATE OF A JAK INHIBITOR COMPOUND ~71:Theravance Biopharma R&D IP, LLC, 901 Gateway Boulevard, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: FASS, Gene Timothy~ 33:US ~31:62/983,931 ~32:02/03/2020

2022/09632 ~ Complete ~54:MOLECULES TARGETING MUTANT RAS PROTEIN ~71:AELIN THERAPEUTICS, Gaston Geenslaan 1, Belgium;KATHOLIEKE UNIVERSITEIT LEUVEN, KU Leuven R&D, Belgium;VIB VZW, Rijvisschestraat 120, Belgium ~72: CLAES, Filip Maria Hendrik;ROUSSEAU, Frederic;SCHYMKOWITZ, Joost~ 33:EP ~31:20158306.9 ~32:19/02/2020

2022/09633 ~ Provisional ~54:POOL CLEANING DEVICE TO ENHANCE THE PERFORMANCE OF POOL OR TANK VACUUM CLEANERS ~71:Grant Campbell, 25 Milcliff Road, South Africa ~72: Grant Campbell~

2022/09594 ~ Complete ~54:METHOD FOR REINFORCEMENT CONSTRUCTION OF FOUNDATION PIT IN SILTY SOIL LAYER ~71:CHINA RAILWAY SIXTH GROUP CO., LTD., NO. 2 WANSHOU ROAD,, HAIDIAN DISTRICT,, BEIJING, 100000, People's Republic of China;CHINA RAILWAY SIXTH GROUP GUANGZHOU ENGINEERING CO., LTD., UNIT 101, BUILDING 18, TIAN#39;AN HEADQUARTER CENTER, NO. 555 NORTH OF PANYU AVENUE, DONGHUAN STREET,, PANYU DISTRICT, GUANGZHOU, GUANGDONG, 511400, People's Republic of China ~72: Bing LIU;Gai LUO;Gang XU;Jinjun GENG;Qingshuang JIA;Xiaolei ZHANG;Zenghui FU~ 33:CN ~31:202111444408.4 ~32:30/11/2021

2022/09595 ~ Complete ~54:METHOD FOR QUANTITATIVELY EVALUATING CONTRIBUTION RATES OF DIFFERENT MASS TRANSFER DIFFUSION MECHANISMS OF SHALE GAS RESERVOIRS FOR SEEPAGE CAPACITIES OF RESERVOIR STRATA ~71:Chongqing University of Science and Technology, No. 20, East University Town Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: AO, Xiang;CHEN, Zhonghua;LIU, Zhezhi;LIU, Zhonghua;XIANG, Zuping;XIAO, Qianhua;ZHONG, Zhicong;ZHU, Shijie~

2022/09599 ~ Complete ~54:BIOACTIVE PEPTIDE CONTAINING TRYPTOPHAN AND CYSTEINE AND USE THEREOF ~71:Sun Yat-sen University, No. 135, Xingang West Road, Haizhu District, GUANGZHOU CITY

510275, GUANGDONG PROVINCE, CHINA (P.R.C.), People's Republic of China;Sun Yat-sen University·Shenzhen, Sun Yat-sen University Shenzhen Campus, No. 66 Gongchang Road, Guangming District, SHENZHEN 518107, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Peng;GAO, Liqian;LI, Mengchu;LU, Ciyong;SUN, Jie;XIA, Jiaxuan;XIANG, Menghua;XIAO, Qicai;XIE, Chengliang;YANG, Fen~ 33:CN ~31:202210306268.2 ~32:25/03/2022

2022/09602 ~ Complete ~54:A NEW MANAGEMENT APPROACH TO KNOWLEDGE CREATING STRATEGIC DECISION- MAKING IN ORGANIZATIONS ~71:Amit Ranjan Gupta, Director, Walfin Financial Services, C-62 Rustomjee Central Park, Andheri Kurla Road, Andheri East, Mumbai, India;Anand Pandey, Assistant Professor, Chandigarh University, NH-05 Chandigarh-Ludhiana Highway, Mohali, India;Barneet Singh, Student, Chandigarh University, NH-05 Chandigarh-Ludhiana Highway, Mohali, India;Dr. Abhimanyu Kumar Jha, Professor & Head, Sharda University, Greater Noida, India;Dr. Avtar Singh, Principal, GTB National College, Dakha, Ludhiana, India;Dr. Gyanesh Jain, Senior Data Scientist, Playpowerlabs Ltd, Gandhinagar, India;Dr. Mahendra Pandey, Assistant Professor, Chandigarh University, NH-05 Chandigarh-Ludhiana Highway, Mohali, India;Dr. Parmod, Assistant Professor, Guru Jambheshwar University of Science & Technology, Hisar, India;Dr. Renu Pareek, Dean, Jaipur School of Business, JECRC University, Jaipur, India;Dr. Santosh Kumar Maurya, Assistant Professor, Chandigarh University, NH-05 Chandigarh-Ludhiana Highway, Mohali, India;Dr. Sushil Kalyani, Associate Director & Area Director, NIIT University, Japanese Zone, Jaipur Delhi University, Neemrana, India;Mr. Kamal Batta, Assistant Professor, Chandigarh University, NH-05 Chandigarh-Ludhiana Highway, Mohali, India;Ms. Shaina Arora, Assistant Professor, Chandigarh University, NH-05 Chandigarh-Ludhiana Highway, Mohali, India;Sunil Dutt Trivedi, Research Scholar, IIM Rohtak, Rohtak, India ~72: Amit Ranjan Gupta;Anand Pandey;Barneet Singh;Dr. Abhimanyu Kumar Jha;Dr. Avtar Singh;Dr. Gyanesh Jain;Dr. Mahendra Pandey;Dr. Parmod;Dr. Renu Pareek;Dr. Santosh Kumar Maurya;Dr. Sushil Kalyani;Mr. Kamal Batta;Ms. Shaina Arora;Sunil Dutt Trivedi~

2022/09608 ~ Complete ~54:A METHOD FOR IMPROVING LIPOSOLUBILITY AND THERMAL STABILITY OF RED CLOVER POLYSACCHARIDE ~71:Lanzhou University, No. 222, Tianshui South Road, Lanzhou City, Gansu Province, 730000, People's Republic of China ~72: LIU Quan~

2022/09613 ~ Complete ~54:LIGHT-EMITTING ROAD TRAFFIC SIGN ~71:HUNAN XIANGXU TRAFFIC & LIGHTING HI-TECH CO. LTD, No. 118, Southwest Corner, The Intersection of Chigang Rd and Yanhe Rd, Jingkai Zone, Wangcheng Dist., Changsha, Hunan 414000, People's Republic of China ~72: JIANG, Lang;YI, Xuefeng~ 33:CN ~31:202010151442.1 ~32:06/03/2020

2022/09618 ~ Complete ~54:COMMUNICATION DEVICE, PROGRAM, COMMUNICATION METHOD, INFORMATION PROCESSING METHOD, INFORMATION PROCESSING DEVICE, AND COMMUNICATION SYSTEM ~71:DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-Ku, Osaka-shi, Osaka, 5308323, Japan ~72: GOU NAKATSUKA;KENTA NOHARA;KOUSUKE WAKAMATSU~ 33:JP ~31:2020-035381 ~32:02/03/2020

2022/09622 ~ Complete ~54:COMPOSITIONS COMPRISING NATURALLY DERIVED PRESERVATIVES ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: KIMBERLY DAY;MATTHEW JOSEPH RIENZO;MORGAN NICOLE KOZAR;TIRUCHERAI VARAHAN VASUDEVAN~ 33:US ~31:16/832644 ~32:27/03/2020;33:EP ~31:20169711.7 ~32:15/04/2020

2022/09626 ~ Complete ~54:UPLINK INFORMATION BASED ON WAKE-UP SIGNAL ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DALSGAARD, Lars;KAIKKONEN, Jorma;KOSKELA, Timo;KOSKINEN, Jussi-Pekka;TURTINEN, Samuli;WU, Chunli~

2022/09585 ~ Provisional ~54:RANK FINANCIAL SERVICES ~71:Siyanda, 24A cato road, South Africa ~72: Siyanda~

2022/09586 ~ Provisional ~54:HARPOON ANCHOR BOLT ~71:Kevin O'Neill, 4 Far Hills Estate, Ruitershoogte, Durbanville, South Africa ~72: Kevin O'Neill~ 33:ZA ~31:1 ~32:27/08/2022

2022/09587 ~ Provisional ~54:PATENT APPLICATION FOR AN ELECTROCHEMICAL DNA SENSOR BASED MICROFLUIDIC-SEQUENCING TECHNOLOGY ~71:Kabelo Osbon Rabutla, 262 Makhwibidung, South Africa ~72: Kabelo Osbon Rabutla~

2022/09590 ~ Provisional ~54:ACQUISITION OF DRIVERS LICENCE USING VEHICLE TELEMATICS TECHNOLOGY SOLUTION ~71:Selota Shai, 12 Sneeufras Crescent, Countryview, Midrand, South Africa ~72: Selota Shai~

2022/09591 ~ Provisional ~54:CHICKEN PREPARATION PROCESS FOR RETORT COOK AND PACKING ~71:MICALLEF, Stanley Charles, 10 Orange Road, Farrarmere, South Africa ~72: MICALLEF, Stanley Charles~

2022/09596 ~ Complete ~54:WATERPROOF AND MOISTURE-PERMEABLE COMPOSITE FABRIC ~71:Zhejiang Dongjin New Material Co., Ltd., No. 4636, Xingbin Road, Ma'an Town, Keqiao District, Shaoxing City, Zhejiang Province, 312073, People's Republic of China ~72: CHEN, Mingxian;DONG, Hongbo;GAO, Lifeng;JIN, Shihao;PANG, Jianqiang;SUN, Lixin;XIE, Guoyan;XU, Jun~

2022/09611 ~ Complete ~54:METHOD FOR PREPARING BROWN ALGAE EXTRACT, EXTRACT AND APPLICATION ~71:LANGFANG YINLIANG AGRICULTURAL DEVELOPMENT CO., LTD., West Longhu Village, Longhu Town, Yongqing County, Langfang, People's Republic of China;XIE, Lisha, No. 62 Zhangju Road, Luancheng District, Shijiazhuang, People's Republic of China;YELLOW SEA FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES, No. 106 Nanjing Road, Shinan District, Qingdao, People's Republic of China ~72: LI, Xiaoguang;LI, Zhenxing;LIU, Dongran;MA, Li;QUE, Gailing;TAO, Chuantao;WANG, Haiying;XIE, Lisha;ZHENG, Zhihong~

2022/09624 ~ Complete ~54:TREATMENT OF SYMPTOMATIC VIRAL DISEASES ~71:SYNACT PHARMA APS, Dronninggøds Allé 136, 2840, Holte, Denmark ~72: THOMAS ENGELBRECHT NORDKILD JONASSEN~ 33:EP ~31:20167256.5 ~32:31/03/2020;33:EP ~31:21163417.5 ~32:18/03/2021

2022/09628 ~ Complete ~54:METHOD AND MACHINE FOR DISPENSING AN INDIVIDUAL FORMULATION OF A BEVERAGE ~71:BRAIN BREW VENTURES 3.0, INC., 3849 EDWARDS ROAD, NEWTOWN, OHIO 45244, USA, United States of America ~72: HALL, Douglas, B.~ 33:US ~31:62/977,748 ~32:18/02/2020

2022/09630 ~ Complete ~54:IONIC SILICA GEL ANTIFOULING COATING AND PREPARATION METHOD THEREOF ~71:XIAMEN SUNRUI SHIP COATING CO., LTD., No.168 Neian Zhong Lu, Xiang'an Industrial Area, Xiamen Torch High-tech Zone, Xiamen City, Fujian Province, 361101, People's Republic of China ~72: CHEN, Shanshan;LI, Chunguang;LIU, Yilong;YANG, Mingliang~

2022/09593 ~ Complete ~54:TRICYCLIC PYRAZOLE COMPOUNDS, THEIR PREPARATION AND THEIR USE ~71:ZHAO, Jiye, No.41, Group 6, Xingou Village, Wuhe Town, Liangzhou District, Wuwei City, People's Republic of China ~72: ZHAO, Jiye~

2022/09600 ~ Complete ~54:ELECTROMAGNETIC IMMUNITY TEST SYSTEM AND METHOD FOR VEHICLE UNDER DYNAMIC WORKING CONDITIONS ~71:Guangdong Polytechnic Normal University, No. 293 Zhongshan Avenue West, Tianhe District, GUANGZHOU CITY 510665, GUANGDONG PROVINCE, CHINA

(P.R.C.), People's Republic of China ~72: BIN, Kun;LIN, Hongyan;WANG, Xiaojun;ZHONG, Senming~ 33:CN ~31:202111007230 .7 ~32:30/08/2021

2022/09601 ~ Complete ~54:GLOBAL ADDRESS SYSTEM AND METHOD ~71:SARWAR PEDAWI, Ster Group DMCC, Jumeirah Lake Towers, Cluster T, Fortune Executive Tower 2402, P.O. Box 214079, Dubai, United Arab Emirates ~72: SARWAR PEDAWI~ 33:US ~31:16/055,775 ~32:06/08/2018

2022/09605 ~ Complete ~54:TREATMENT EQUIPMENT FOR DEGRADING DYE WASTEWATER BY PERIODIC REVERSAL ELECTROCHEMISTRY IN COOPERATION WITH PERSULFATE AND USING METHOD THEREOF ~71:Yingkou Institute of Technology, No. 46, Bowen Road, Yingkou City, Liaoning Province, 115004, People's Republic of China ~72: LENG, Jiewen;LIU, Huan;PAN, Yujin;SHI, Ke;SUN, Zhaonan;YANG, Wei;ZHANG, Nan~ 33:CN ~31:202111019594.7 ~32:01/09/2021

2022/09607 ~ Complete ~54:METHOD FOR PREPARING THREE-DIMENSIONAL TUBULAR MULTI-CELLULAR STRUCTURE ~71:Hohai University Changzhou Campus, No. 200, Jinling North Road, Changzhou City, Jiangsu, 213022, People's Republic of China ~72: Xiaolu Zhu~

2022/09614 ~ Complete ~54:INTERFEROMETRIC GAIN LASER DEVICE ~71:ADIGE S.P.A., Via per Barco 11, Levico Terme, Italy ~72: BIASI, Stefano;PAVESI, Lorenzo;PICCIONE, Sara;RAFFALDI, Cristiano~ 33:IT ~31:102020000001897 ~32:31/01/2020

2022/09619 ~ Complete ~54:ANTI-TRANSFERRIN RECEPTOR (TFR) ANTIBODY AND USES THEREOF ~71:DYNE THERAPEUTICS, INC., 1560 Trapelo Road Waltham, Massachusetts, 02451, United States of America ~72: BRENDAN QUINN;CODY A DESJARDINS;MOHAMMED T QATANANI;ROMESH R SUBRAMANIAN;TIMOTHY WEEDEN~ 33:US ~31:62/968,252 ~32:31/01/2020;33:US ~31:63/055,405 ~32:23/07/2020

2022/09623 ~ Complete ~54:A PHARMACEUTICAL COMPOSITION AND METHOD OF TREATMENT USING SERRATIOPEPTIDASE, MANNOSE OR ITS DERIVATIVE, AND OPTIONALLY ANTINFECTION AGENTS ~71:NIMESH PATEL, 8103 Branding Iron Lane, Riverside, California, 92508, United States of America ~72: NIMESH PATEL~ 33:US ~31:62/984,135 ~32:02/03/2020

2022/09627 ~ Complete ~54:RANDOM ACCESS IN COMMUNICATION SYSTEM ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: TURTINEN, Samuli;WU, Chunli~

2022/09604 ~ Complete ~54:SUPPORTED PLATINUM-BASED THREE-WAY CATALYST REGENERATION METHOD ~71:Beijing University of Technology, No.100, Pingleyuan, Chaoyang District, Beijing, 100124, People's Republic of China;China Automotive Technology and Research Center Co., Ltd., No.68, Xianfeng East Road, Dongli District, Tianjin, 300000, People's Republic of China ~72: Guizhen Zhang;Shuzhen Li;Xiaodong Yang;Yameng Xu;Yuankai Shao;Zhenguo Li~

2022/09606 ~ Complete ~54:A SEEDING DEVICE BASED ON A SEED BELT ~71:Hainan University, No. 58, Renmin Avenue, Haidian Island, Meilan District, Haikou City, Hainan Province, 570228, People's Republic of China ~72: Baolong Wang;Hongyan Liu;Jiaolong Li~

2022/09615 ~ Complete ~54:METHOD AND INSTALLATION FOR PRODUCING ALUMINUM CAN SHEET ~71:HELLENIC RESEARCH CENTRE FOR METALS S.A., 2-4 Mesogeion Avenue, Greece ~72: MAVROUDIS, Andreas;SPATHIS, Dionysios;STASSINOPOULOS, Michael;TSIROS, Ioannis~ 33:EP ~31:20160733.0 ~32:03/03/2020

2022/09616 ~ Complete ~54:WAVE ENERGY CONVERSION SYSTEM ~71:Bombora Wave Power Europe Ltd, The Offices, Cleddau Reach, PEMBROKE DOCK SA72 6UJ, PEMBROKESHIRE, UNITED KINGDOM, United Kingdom ~72: ALGIE, Campbell Robert;LEIGHTON, James Samuel;LEIGHTON, Sam;RIGG, David Charles;VIGARS, Paul~ 33:GB ~31:2004016.8 ~32:19/03/2020

2022/09621 ~ Complete ~54:BOARD HAVING FLAME RETARDANT SURFACE ~71:SHIJIAZHUANG HUAJIE WOOD INDUSTRY CO., LTD, YANG Guangyao 2 Kilometers East of The North Extension of Jianshe Street, Lingshou County Shijiazhuang, Hebei, 050500, People's Republic of China ~72: GUANGYAO YANG;QINBO PENG;SHAOGANG PENG;XIAOYAN WEN;ZHIJUN PENG~ 33:CN ~31:202011202091.9 ~32:02/11/2020

2022/09629 ~ Complete ~54:TOOL FOR BREAKING ROCKS ~71:ROCK EXTRACTION LIMITED, 8 OAKRIDGE, BANBRIDGE, COUNTY DOWN, BT32 4RT, UNITED KINGDOM, United Kingdom ~72: DAWSON, Ian;JACKMAN, Stephen;PFEUFFER, Falko~ 33:GB ~31:2002042.6 ~32:14/02/2020

- APPLIED ON 2022/08/30 -

2022/09695 ~ Complete ~54:COMPOSITION AND METHOD OF MRNA VACCINES AGAINST NOVEL CORONAVIRUS INFECTION ~71:RNAIMMUNE, INC., 401 Professional Drive, Suite 280, Gaithersburg, Maryland, 20879, United States of America ~72: CHUN LU;DONG SHEN;JIAXI HE;PATRICK Y LU;SHENGGAO TANG;ZIYANG HE~ 33:US ~31:62/971,834 ~32:07/02/2020;33:US ~31:63/058,463 ~32:29/07/2020;33:US ~31:63/130,581 ~32:24/12/2020

2022/09698 ~ Complete ~54:METHODS OF TREATING ABNORMAL CELL GROWTH ~71:VERASTEM, INC., 117 Kendrick Street, Suite 500, Needham, Massachusetts, 02494, United States of America ~72: BRIAN M STUGLIK;DANIEL PATERSON;JONATHAN A PACHTER~ 33:US ~31:63/015,883 ~32:27/04/2020

2022/09664 ~ Complete ~54:SYSTEM AND METHOD FOR PERFORMANCE ASSESSMENT OF ENTITIES ~71:TATA CHEMICALS LIMITED, Bombay House, 24 Homi Modi Street, India ~72: BHADURI, Anirban;LOBO, Richard Anthony~ 33:IN ~31:202121039642 ~32:01/09/2021

2022/09672 ~ Complete ~54:DUAL-ACCESS CONTAINER CLOSURE ~71:Jason ASHTON, 1005 Moon Valley Ranch Road, United States of America ~72: ASHTON, Jason~ 33:US ~31:16/797,665 ~32:21/02/2020

2022/09679 ~ Complete ~54:INHIBITORS OF C5A FOR THE TREATMENT OF CORONA VIRUS INFECTION ~71:InflaRx GmbH, Winzerlaer Str. 2, JENA 07745, GERMANY, Germany ~72: GUO, Renfeng;RIEDEMANN, Niels C.~

2022/09683 ~ Complete ~54:AN ENCODER, A DECODER AND CORRESPONDING METHODS SIMPLIFYING SIGNALLING SLICE HEADER SYNTAX ELEMENTS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ALSHINA, Elena Alexandrovna;ESENLIK, Semih;KOTRA, Anand Meher;WANG, Biao~ 33:IB ~31:2020/055341 ~32:28/02/2020

2022/09687 ~ Complete ~54:ANTI-IL4 RECEPTOR ANTIBODIES FOR VETERINARY USE ~71:Kindred Biosciences, Inc., 1555 Bayshore Highway, Suite 200, BURLINGAME 94010, CA, USA, United States of America ~72: CHIN, Richard;CHU, Qingyi;LI, Shyr Jiann;NGUYEN, Lam;ZHAN, Hangjun~ 33:US ~31:62/991,568 ~32:18/03/2020

2022/09693 ~ Complete ~54:PHARMACEUTICAL FORMULATION COMPRISING BEVACIZUMAB ~71:SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No.222 Kangnan Road, China

(Shanghai) Pilot Free Trade Zone, Pudong District, People's Republic of China ~72: FANG, Yuan;HAN, Dongmei;LIU, Mujun~ 33:CN ~31:202010143839.6 ~32:04/03/2020

2022/09696 ~ Complete ~54:PLASMA COATING TREATMENT METHOD FOR INHIBITING BIOLOGICAL PATHOGEN TRANSFER ~71:MOLECULAR PLASMA GROUP S.A., Technoport - Hall 4B, Rue du commerce, Foetz, L-3895, Luxembourg ~72: BERNARD NISOL;GILL SCHELTJENS;JOANNA BOREK-DONTEN;MAXIMILIEN LOPES;RÉGIS HEYBERGER~ 33:EP ~31:20163607.3 ~32:17/03/2020;33:EP ~31:20194143.2 ~32:02/09/2020

2022/09697 ~ Complete ~54:PLASMA COATING METHOD AND APPARATUS FOR BIOLOGICAL SURFACE MODIFICATION ~71:MOLECULAR PLASMA GROUP S.A., Technoport - Hall 4B Rue du commerce Foetz, 3895, Luxembourg ~72: GILL SCHELTJENS;JOANNA BOREK-DONTEN;RÉGIS HEYBERGER~ 33:EP ~31:20163607.3 ~32:17/03/2020

2022/09644 ~ Complete ~54:PEROVSKITE LIGHT-ABSORBING LAYER MATERIAL AND APPLICATION THEREOF IN SOLAR CELLS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: DONG Haipeng;DUAN Kunjie;LI Wei;LIU Zhiqing;WANG Chaoyong~

2022/09653 ~ Complete ~54:ALOE VERA FLOWER TEA PRODUCTION METHOD AND ALOE VERA FLOWER TEA ~71:Fujian Agriculture and Forestry University, No.15 Shangxiadian Road, Cangshan, Fuzhou, Fujian, 350002, People's Republic of China;Second Putian Hanjiang Jiangxia Aloe Development Co., Ltd., Room Z201, No.8, Hanting West Road, Sanjiangkou, Hanjiang, Putian, Fujian, 351111, People's Republic of China ~72: Bixia QIU;Jiehui HUANG;Xiangyang HUANG~

2022/09658 ~ Complete ~54:A TENT WITH CONFIGURABLE FLUE OPENINGS ~71:The Cashmere Caveman Co, Wild Kitchens Limited, 5 Stratford Place, LONDON W1C 1AX, UNITED KINGDOM, United Kingdom ~72: RITCHIE, Guy Stuart~ 33:US ~31:17/463,006 ~32:31/08/2021

2022/09662 ~ Complete ~54:SELF-COMPACTING CONCRETE POURING DEVICE FOR CONCRETE FILLED STEEL TUBE COLUMN ~71:CHINA CONSTRUCTION SECOND ENGINEERING BUREAU SHENZHEN CONSTRUCTION INVESTMENT DEVELOPMENT CO., LTD., Room 2407-08, Chuangtou Mansion, No.9 Tengfei Road, Longgang District, Shenzhen, 518100, People's Republic of China;THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, 165 Haihutun, Yongdingmenwai, Fengtai District, Beijing, 100176, People's Republic of China ~72: GUANJUN HE;GUOWEN ZHANG;JING LI;JINSONG ZHENG;YUNPENG XU~ 33:CN ~31:20220150265.X ~32:20/01/2022

2022/09665 ~ Complete ~54:A SYSTEM FOR MONITORING REALTIME HEALTH CONDITION OF A PATIENT AND A METHOD THEREOF ~71:Archana Gautam, Senior Analyst, Centre for food research and analysis, National Institute of Food Technology Entrepreneurship and Management, Kundli, Sonipat, India;Dr Jatinder Singh, Assistant Professor, Department of Chemistry, Guru Nanak College Budhlada, Affiliated to Punjabi University Patiala, District Mansa, India;Dr. Anil Yadav, Associate Professor, Chemical Engineering, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonipat, India;Dr. Dhruva Kumar, Assistant Professor, Department of Chemistry, Guru Nanak College Budhlada, Affiliated to Punjabi University Patiala, District Mansa, India;Dr. Kuljinder Kaur, Lab Incharge, National Institute of Food Technology Entrepreneurship and Management, Kundli, Sonipat, India;Dr. Kulwinder Singh Parmar, Assistant Professor, Mathematical Sciences, I K Gujral Punjab Technical University, India;Dr. Mamta Bhagat, Assistant Professor, Chemical Engineering, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonipat, India;Dr. Rahul Boadh, Assistant Professor, Department of Mathematics, K. R. Mangalam University, Sohna Road, Gurugram,

India;Dr. Satish Kumar, Assistant Professor, Department of Applied Sciences, UIET, Panjab University SSG Regional Centre, Hoshiarpur, Affiliated to Panjab University Chandigarh, India;Dr. Surinder Singh, Assistant Professor, Dr. S. S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, India;VINAY ARORA, Assistant Professor, Department of Applied Sciences, UIET, Panjab University SSG Regional Centre, Hoshiarpur, Affiliation: Panjab University, Chandigarh, India ~72: Archana Gautam;Dr Jatinder Singh;Dr. Anil Yadav;Dr. Dhruva Kumar;Dr. Kuljinder Kaur;Dr. Kulwinder Singh Parmar;Dr. Mamta Bhagat;Dr. Rahul Boadh;Dr. Satish Kumar;Dr. Surinder Singh;VINAY ARORA~

2022/09668 ~ Complete ~54:ADJUSTABLE SPICE MILL ~71:JOMA KUNSTSTOFFTECHNIK GMBH, Wolfholzgassee 14-16, Austria ~72: FRIES, Rudolf~ 33:AT ~31:A 50308/2020 ~32:09/04/2020

2022/09671 ~ Complete ~54:STRUCTURAL ARRANGEMENT FOR A MOTOR HELMET WITH AUTOMATED VISOR ~71:Elimar SOARES DE OLIVEIRA, Rua Ettore Jacon, Brazil;Rodrigo Carlos FERREIRA DA SILVA, Rua Anália Franco, nº 275, Brazil ~72: SOARES DE OLIVEIRA, Elimar~

2022/09675 ~ Complete ~54:GENE THERAPY FOR NMNAT1-ASSOCIATED RETINAL DEGENERATION ~71:MASSACHUSETTS EYE AND EAR INFIRMARY, 243 Charles Street Boston, United States of America;THE SCHEPENS EYE RESEARCH INSTITUTE, INC., 20 Staniford Street Boston, United States of America ~72: BROWN, Emily;GREENWALD, Scott;PIERCE, Eric A.;VANDENBERGHE, Luk H.~ 33:US ~31:62/988,260 ~32:11/03/2020

2022/09678 ~ Complete ~54:METHODS OF PREPARING LIPID NANOPARTICLES ~71:ModernaTX, Inc., 200 Technology Square, CAMBRIDGE 02139, MA, USA, United States of America ~72: AUER, Jason;SKINNER, Brie;SMITH, Mike~ 33:US ~31:62/968,337 ~32:31/01/2020

2022/09682 ~ Complete ~54:NOVEL ANTI-LILRB4 ANTIBODIES AND DERIVATIVE PRODUCTS ~71:Immune-Onc Therapeutics, Inc., 795 San Antonio Road, PALO ALTO 94303, CA, USA, United States of America ~72: BONNANS, Caroline;COSTA, Maria Jose;HONG, Kyu Hee;HUANG, Tao;LI, Ji;LIAO, X. Charlene;SONG, An;STAFFORD, Ryan;WOODARD, J. Paul;ZHOU, Jianhui;ZHOU, Li~ 33:US ~31:62/988,892 ~32:12/03/2020

2022/09690 ~ Complete ~54:THREE WAY VALVE CONTROLLED SPRAYING SYSTEM ~71:Spraying Systems Co., North Avenue and Schmale Road, PO Box 7900, WHEATON 60187-7901, IL, USA, United States of America ~72: CROSBY, David;WINTER, Timothy~ 33:US ~31:62/976,892 ~32:14/02/2020

2022/09643 ~ Complete ~54:PEROVSKITE THIN-FILM SOLAR CELL ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: DONG Haipeng;DUAN Kunjie;LI Wei;WANG Chaoyong;ZHANG Renqi~

2022/09646 ~ Complete ~54:A FIREPROOF SUPER HYDROPHOBIC COATING, A SUPER HYDROPHOBIC MATERIAL AND THE CORRESPONDING PREPARATION METHOD ~71:Zhaoqing University, Zhaoqing Dadao Street, Duanzhou District, Zhaoqing City, Guangdong Province, People's Republic of China ~72: Wang Xia-Hui;Xu Li;Yuan Ru-Wen~

2022/09655 ~ Complete ~54:SOLID-LIQUID SEPARATION AND COLLECTION DEVICE FOR KITCHEN WASTE ~71:Sichuan YangZiSen environmental protection equipment Co.,LTD, Room 1607, 16th Floor, Building 1-3, No. 269, Jinyang Road, Wuhou District, Chengdu City, Sichuan Province, People's Republic of China ~72: Huang Hao;Huang Yujie;Wang Danjun;Wang Xinyu;Zhou Yong;Zhou Zibo~

2022/09637 ~ Provisional ~54:SLURRY TREATMENT APPARATUS ~71:VIETTI SLURRYTEC (PROPRIETARY) LIMITED, 33 Kyalami Boulevard Kyalami Business Park, Kyalami, 1684, South Africa ~72: ANDREW JOSEPH VIETTI~

2022/09638 ~ Provisional ~54:FITNESS ASSESSMENT SYSTEM AND METHODOLOGY ~71:MOMENTUM METROPOLITAN LIFE LIMITED, 268 West Avenue, Centurion, 0157, South Africa ~72: BERNARD MATTHEE STEYN;CHRISTIAAN MAARTEN VAN DER WALT;ERNST-ERICH DINKELMANN;FRANCESCO ORLANDO JOSHUA;HORATIO BENJAMIN MOGGEE;RUHAN COETZER~

2022/09641 ~ Complete ~54:VISIBLE LIGHT CATALYST OF GRAPHITE-PHASE CARBON NITRIDE MODIFIED FABRIC, ONE-STEP PREPARATION METHOD AND APPLICATION THEREOF ~71:Anhui Polytechnic University, No.8 Beijing Middle Road, Jiujiang District, Wuhu City, Anhui Province, People's Republic of China;Xiaogan Yunzhong Network Information Technology Co., Ltd., B-306 Shuangchuang Center, No.141 Chengzhan Road, Xiaogan City, Hubei Province, People's Republic of China ~72: HAN Xu;LI Changlong;LU Ming;WANG Peng;WANG Zongqian;XU Qingbo;ZHENG Xianhong~

2022/09649 ~ Complete ~54:LIFETIME PREDICTION OF A GAS FILLING OF AN ELECTRICAL SWITCHGEAR ~71:EATON INTELLIGENT POWER LIMITED, 30 Pembroke Road, Ireland ~72: DIJK VAN, Marcel;KUMAR, Vijay;MORSKIEFT, Elise;RAJWADE, Yogesh~ 33:IN ~31:202111040504 ~32:07/09/2021;33:GB ~31:2115415.8 ~32:27/10/2021

2022/09656 ~ Complete ~54:DESIGN METHOD FOR ANTENNA DISC OF WIFI ANTENNA FOR RURAL AND FOREST AREAS ~71:Dr.Beaulah David, Associate Professor, Information Technology, Hindusthan College of Engineering and Technology, Coimbatore, India;Dr.D.M.K.Chaitanya, Associate Professor, Department of ECE, Vasavi College of Engineering, Hyderabad, India;Dr.George Fernandez.I, Associate Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru, India;Dr.Kanchan Wagh, Assistant Professor, Department of Electronics and Telecommunication Engineering, Cummins College of Engineering for Women, Hingna, Nagpur, India;Dr.Kilari Veera Swamy, Professor, Department of ECE, Vasavi College of Engineering, Hyderabad, India;Dr.Sushma Jaiswal, Assistant Professor, Department of Computer Science & Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur, India;Mr. Ankit Khandelwal, Assistant Professor, Department of Computer Science, Shri Ratanlal Kanwarlal Patni Girls College, Kishangarh, Ajmer, India;Mr.Mehaboob Mujawar, Research Scholar, Department of Electronics and Communication Engineering, Annamalai University, Chidambaram, India;Mr.Tarun Jaiswal, Research Scholar, Department of Computer Application, National Institute of Technology (NITRR), Raipur, India;Mrs.Srilakshmi Aouthu, Associate Professor, Department of ECE, Vasavi College of Engineering, Hyderabad, India ~72: Dr.Beaulah David;Dr.D.M.K.Chaitanya;Dr.George Fernandez.I;Dr.Kanchan Wagh;Dr.Kilari Veera Swamy;Dr.Sushma Jaiswal;Mr. Ankit Khandelwal;Mr.Mehaboob Mujawar;Mr.Tarun Jaiswal;Mrs.Srilakshmi Aouthu~

2022/09659 ~ Complete ~54:TENT FEATURING RETRACTABLE ROOF AND SIDE CANVAS PANELS OR SHEETS ~71:The Cashmere Caveman Co, Wild Kitchens Limited, 5 Stratford Place, LONDON W1C 1AX, UNITED KINGDOM, United Kingdom ~72: CHARLES-JONES, Rupert Wilson;DEMPSTER, Allister Mark;RITCHIE, Guy Stuart~ 33:US ~31:17/463,017 ~32:31/08/2021

2022/09663 ~ Complete ~54:TELEHANDLER WITH IMPROVED WINCH ~71:MANITOU ITALIA S.R.L., Via Cristoforo Colombo 2, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102021000022928 ~32:06/09/2021

2022/09667 ~ Complete ~54:LEAKAGE CURRENT CONTROLLED BY SLEEP SWITCH FOR LOW POWER APPLICATION ~71:CHAURASIA, Vijayshri, Professor, Accounting Department Chair and Accounting Program Director, School of Economics & Business Administration, Saint Mary's College of California, United States of America;GUPTA, Tarun Kumar, Assistant Professor, Department of Electronics and Communication Engineering, Maulana Azad National Institute of Technology, Bhopal, India;KORI, Shiv Prasad, H.O.D., Department of Electronics and Telecommunication, Jijamata Govt Polytechnic College, Burhanpur, India;KUMAR,

Ana, Assistant Professor, School of ICT, Gautam Buddha University, Greater Noida, India; KUMAR, Shailendra, Associate Professor, Department of Electronics and Communication Engineering, Integral University, Lucknow, India; MAGRAIYA, Vijay Kumar, Lecturer, Department of Electronics and Telecommunication Engineering, Government Polytechnic College, Datia, India; PANDEY, Amit Kumar, Assistant Professor, Department of Applied Science & Humanities, Rajkiya Engineering College Ambedkar Nagar, India; PATEL, Pramod Kumar, Associate Professor, Department of Electronics and Communication Engineering, IES College of Technology, Bhopal, India; SHRIVASTAVA, Yogesh, Assistant Professor, Sagar Institute of Science Technology and Research Ratibadh, Bhopal, India; VAISHYA, Rahul O, Assistant Professor, Department of Production and Industrial Engineering, Punjab Engineering College, India ~72: CHAURASIA, Vijayshri; GUPTA, Tarun Kumar; KORI, Shiv Prasad; KUMAR, Ana; KUMAR, Shailendra; MAGRAIYA, Vijay Kumar; PANDEY, Amit Kumar; PATEL, Pramod Kumar; SHRIVASTAVA, Yogesh; VAISHYA, Rahul O~

2022/09673 ~ Complete ~54: COMBINATION ULTRA-VIOLET A (UVA) AND ULTRA-VIOLET C (UVC) SYSTEM FOR REDUCTION AND INHIBITION OF GROWTH OF PATHOGENS ~71: HELIOS SHIELD LTD, 73 Cornhill, United Kingdom ~72: AUBERT, Andrew Clark Baird~ 33:US ~31:62/984,360 ~32:03/03/2020; 33:US ~31:63/019,534 ~32:04/05/2020

2022/09676 ~ Complete ~54: METHOD FOR RAPIDLY EVALUATING EXUDATION RATE OF ANTIFOULING AGENT IN ANTIFOULING COATING ~71: XIAMEN SUNRUI SHIP COATING CO., LTD., No. 168 Neian Zhong Lu, Xiang'an Industrial Area, Xiamen Torch High-tech Zone, Xiamen City, Fujian Province, 361101, People's Republic of China ~72: HUANG, Jie; LI, Chunguang; LIU, Yilong; WANG, Shenglong~

2022/09686 ~ Complete ~54: CUTTING ELEMENT WITH IMPROVED MECHANICAL EFFICIENCY ~71: Baker Hughes Oilfield Operations LLC, 17021 Aldine Westfield, HOUSTON 77073, TX, USA, United States of America ~72: DOSTER, Michael L.~

2022/09688 ~ Complete ~54: METHODS TO TREAT CANCER USING (R)-N-(3-FLUORO-4-((3-((1-HYDROXYPROPAN-2-YL)AMINO)-1H-PYRAZOLO[3,4-B]PYRIDIN-4-YL)OXY)PHENYL)-3-(4-FLUOROPHENYL)-1-ISOPROPYL-2,4-DIOXO-1,2,3,4-TETRAHYDROPYRIMIDINE-5-CARBOXAMIDE ~71: Array BioPharma Inc., 3200 Walnut Street, BOULDER 80301, CO, USA, United States of America ~72: BOUHANA, Karyn Sue; WONG, Jim Yuk-Fai~ 33:US ~31:62/984,458 ~32:03/03/2020; 33:US ~31:63/133,501 ~32:04/01/2021

2022/09692 ~ Complete ~54: AMORPHOUS NILOTINIB MICROPARTICLES AND USES THEREOF ~71: Nanocopoeia, LLC, 639 Campus Drive, NEW BRIGHTON 55112, MN, USA, United States of America ~72: CHEN, Tzehaw; GEYEN, Daren; MCTARSNEY, Joseph; SCANLAN, Justin; THAO, Doua; WERTZ, Christian F.; YANG, Yia~ 33:US ~31:62/968,749 ~32:31/01/2020

2022/09636 ~ Provisional ~54: COMPUTER-IMPLEMENTED METHOD OF SUPPORTING A FARMER IN AGRICULTURAL ACTIVITIES ~71: DIVISION X (PTY) LTD, GROUND FLOOR, BLOCK D, 676 ON GALLAGHER, South Africa ~72: DELATE, Bryan; HURDEEN, Rikash Ramraj; UNSER, Evan~

2022/09640 ~ Complete ~54: VOC SAMPLING APPARATUS ~71: Jiangsu Environmental Monitoring Center, No. 100, Zhonghe Road, Jianye District, Nanjing City, Jiangsu Province, 210000, People's Republic of China ~72: ZHONG, Sheng~

2022/09647 ~ Complete ~54: DOUBLE-PILE UPLIFT AND COMPRESSION TEST DEVICE ~71: Jilin Jianzhu University, No.5088, Xincheng Street, Changchun City, Jilin Province, People's Republic of China ~72: CAI Jingwei; CHEN Yang; JIANG Xin; JIN Yujie; NIU Lei; QIAN Yongmei; TIAN Wei; WANG Ruozhu; XIE Xinying; XU Lina; ZHU Chunfeng~

2022/09651 ~ Complete ~54:SELF-ADAPTIVE BANDWIDTH HYSTERESIS BAND CURRENT CONTROL METHOD AND SYSTEM FOR ELECTRIC VEHICLE INVERTER ~71:Changzhou Institute of Technology, No. 666 Liaohe Road, Xinbei District, Changzhou City, Jiangsu Province, 213032, People's Republic of China ~72: CHEN, Jianfeng;HOU, Xinglin;LIAO, Lianying;LIU, Haimei;MENG, Haodong;XU, Yongming;ZHAO, Jingbo~

2022/09674 ~ Complete ~54:MOLECULES TARGETING RAS PROTEIN ~71:AELIN THERAPEUTICS, Gaston Geenslaan 1, Belgium;KATHOLIEKE UNIVERSITEIT LEUVEN, KU Leuven R&D, Belgium;VIB VZW, Rijvisschestraat 120, Belgium ~72: CLAES, Filip Maria Hendrik;ROUSSEAU, Frederic;SCHYMKOWITZ, Joost~ 33:EP ~31:20158306.9 ~32:19/02/2020

2022/09680 ~ Complete ~54:HIGH CONCENTRATION ANTI-A β PROTOFIBRIL ANTIBODY FORMULATIONS AND METHODS OF USE THEREOF ~71:Eisai R&D Management Co., Ltd., 6-10, Koishikawa, 4-chome, Bunkyo-ku, TOKYO 112-8088, JAPAN, Japan ~72: HSU, Yung Yueh;JOSHI, Anjali;KITO, Hirokazu;OZAWA, Takahiro;SAKAGUCHI, Takahisa;SAKURAMOTO, Naomi;SOUILLAC, Pierre;YOSHIDA, Nobuo~ 33:US ~31:62/992,746 ~32:20/03/2020;33:US ~31:63/027,263 ~32:19/05/2020

2022/09684 ~ Complete ~54:DEEP WATER CULTURE HYDROPONIC SYSTEM ~71:Hydra Unlimited, LLC, 960 74th Street SW, BYRON CENTER 49315, MI, USA, United States of America ~72: CAMPAU, Daniel N.;KLOOTE, Scott T.~ 33:US ~31:16/851,258 ~32:17/04/2020

2022/09634 ~ Provisional ~54:A VEHICLE ANTI-THEFT DEVICE CONFIGURED FOR USE WITH REMOTE CONTROL ~71:BERKOWITZ, Isaac Justin, 10 Golf Park, Wassenaar Street, Golfsig, MIDDELBURG 1050, SOUTH AFRICA, South Africa ~72: BERKOWITZ, Isaac Justin~

2022/09635 ~ Provisional ~54:FUTUREGO ~71:Nomthandazo Lungile Makhubu, 6a Diaz Avenue, Eastleigh, South Africa ~72: Nomthandazo Lungile Makhubu~

2022/09645 ~ Complete ~54:SUPER-HYDROPHOBIC MODIFICATION METHOD OF POLYVINYLIDENE FLUORIDE HYDROPHOBIC MEMBRANE ~71:Zhaoqing University, Zhaoqing Dadao Street,, Duanzhou District, Zhaoqing City, Guangdong Province, People's Republic of China ~72: Kang Yao-Tai;Wang Xia-Hui;Xu Li~

2022/09652 ~ Complete ~54:CONTROL METHOD AND SYSTEM FOR TORQUE DISTRIBUTION OF DISTRIBUTED-DRIVE VEHICLE ~71:Changzhou Institute of Technology, No. 666 Liaohe Road, Xinbei District, Changzhou City, Jiangsu Province, 213032, People's Republic of China ~72: CHEN, Jianfeng;HOU, Xinglin;LIAO, Lianying;LIU, Haimei;MENG, Haodong;XU, Yongming;ZHAO, Jingbo~

2022/09654 ~ Complete ~54:CELECOXIB-LOADED INJECTABLE TEMPERATURE-SENSITIVE CHITOSAN HYDROGEL, PREPARATION METHOD AND APPLICATION IN TREATING INTERVERTEBRAL DISC DEGENERATION THEREOF ~71:THE AFFILIATED HOSPITAL OF QINGDAO UNIVERSITY, No.16 Jiangsu Road, Qingdao City, Shandong Province, People's Republic of China ~72: DU Yukun;LI Jianyi;SUI Kunyan;XI Yongming~

2022/09657 ~ Complete ~54:METHOD FOR CULTIVATING MOUNTAINOUS BLUEBERRY MYCORRHIZA SEEDLINGS ~71:Guizhou Institute of Biology, No. 1, Longjiang Lane, Xiaohe Economic Development Zone, Guiyang City 550009, Guizhou, CHINA (P.R.C.), People's Republic of China ~72: AN, Changrong;DUAN, Ruyan;LI, Yun;NIE, Fei;WEN, Guangqin~ 33:CN ~31:202210607014.4 ~32:31/05/2022

2022/09660 ~ Complete ~54:A DIRECT-DRIVE FAN VARIABLE PITCH SYSTEM ELECTROMAGNETIC BRAKE DRIVER ~71:HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH, 2nd and 3rd Floor, Huashi Hotel, No. 52 Hongqi Street, Qiaoxi District, Shijiazhuang City, People's Republic of China ~72: LIU, Yi;QIAO,

Qiang;SUN, Jing'ao;WANG, Xiangwei;ZHANG, Qiang;ZHAO, Haiyu~ 33:CN ~31:202210947901.6
~32:08/08/2022

2022/09661 ~ Complete ~54:PHOTOISOMERIZATION-BASED BIOSENSOR AND APPLICATION THEREOF IN THROMBIN DETECTION ~71:GUANGDONG MEDICAL UNIVERSITY, No. 1 Xincheng Blvd, Songshan Lake National High-tech Industrial Development Zone, Dongguan City, People's Republic of China ~72: CHEN, Huizhi;XU, Hui;ZHOU, Qing;ZHOU, Yubin~ 33:CN ~31:202111027286.9 ~32:02/09/2021

2022/09669 ~ Complete ~54:INTEGRATED PLANT FOR REFUSE INCINERATION AND FOR PRODUCING ROCK WOOL, AND METHOD FOR OPERATING THE PLANT ~71:GRENZEBACH BSH GMBH, Rudolf-Grenzebach-Strasse 1, Germany;PETRURGIA EOOD, Tzarigradsko Shosse Bl. 48-50, Bulgaria ~72: Maik ULRICH;Roumen GAITANSKI-YOUNG;Todor TODOROV~

2022/09670 ~ Complete ~54:METHOD FOR DETERMINING MITOCHONDRIAL EVENTS ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, South Africa ~72: LOOS, Benjamin;NIESLER, Thomas Richard;THEART, Rensu Petrus~ 33:ZA ~31:2020/00654 ~32:31/01/2020

2022/09681 ~ Complete ~54:HUMANIZED ANTI-C5A ANTIBODIES ~71:InflaRx GmbH, Winzerlaer Str. 2, JENA 07745, GERMANY, Germany ~72: GUO, Renfeng;RIEDEMANN, Niels C.~ 33:EP ~31:20173255.9 ~32:06/05/2020

2022/09689 ~ Complete ~54:ADAPTIVE LOOP FILTERING FOR COLOR FORMAT SUPPORT ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: KARCZEWICZ, Marta;RUSANOVSKYY, Dmytro;ZHANG, Yan~ 33:US ~31:63/010,668 ~32:15/04/2020;33:US ~31:17/230,823 ~32:14/04/2021

2022/09694 ~ Complete ~54:AEROSOL COMPRISING 5-METHOXY-N,N-DIMETHYLTRYPTAMINE ~71:GH RESEARCH IRELAND LIMITED, 28 Baggot Street, Lower, Dublin 2, Ireland ~72: THEIS TERWEY~ 33:EP ~31:20159161.7 ~32:24/02/2020

2022/09699 ~ Complete ~54:NOVEL ANTIBODIES ~71:GAMMADELTA THERAPEUTICS LIMITED, WestWorks, 195 Wood Lane, White City Place, London, W12 7FQ, United Kingdom ~72: ADRIAN HAYDAY;OLIVER NUSSBAUMER;OXANA POLYAKOVA;PIERRE VANTOUROUT~ 33:GB ~31:2002581.3 ~32:24/02/2020

2022/09677 ~ Complete ~54:ANTIBODY-DRUG CONJUGATE INCLUDING NOVEL CYCLIC DINUCLEOTIDE DERIVATIVE ~71:Daiichi Sankyo Company, Limited, 3-5-1, Nihonbashi Honcho, Chuo-ku, TOKYO 103-8426, JAPAN, Japan ~72: CHIHARA, Masataka;HARA, Kyoko;ISHIZAKI, Masayuki;KYUTOKU, Mariko;OTSUKA, Takafumi;SUZUKI, Osamu;WADA, Teiji;YUKIURA, Hiroshi~ 33:JP ~31:2020-038983 ~32:06/03/2020

2022/09685 ~ Complete ~54:CUTTER GEOMETRY UTILIZING SPHERICAL CUTOUTS ~71:Baker Hughes Oilfield Operations LLC, 17021 Aldine Westfield, HOUSTON 77073, TX, USA, United States of America ~72: LOVELACE, Kegan L.;WOOD, Patrick~

2022/09691 ~ Complete ~54:HERBICIDAL MENTHA PLANT EXTRACT COMPOSITIONS AND METHODS OF USING SAME ~71:Harpe Bioherbicide Solutions, Inc., 501 Cole Street, RALEIGH 27605, NC, USA, United States of America ~72: BROMMER, Chad L.~ 33:US ~31:62/989,337 ~32:13/03/2020

2022/09700 ~ Provisional ~54:HEALTH CAKE AND BAKED PRODUCTS ~71:SONJA ROETS, 40 COLCHESTER CRES PARKLANDS, South Africa ~72: SONJA ROETS~

2022/09639 ~ Complete ~54:CLEAVED AMPLIFIED POLYMORPHIC SEQUENCE (CAPS) MOLECULAR MARKER FOR GENE OF EPICUTICULAR WAX BIOSYNTHESIS ON MATURE FRUIT SURFACE OF WAX

GOURD AND USE THEREOF ~71:Vegetable Research Institute, Guangdong Academy of Agricultural Sciences, Vegetable Research Institute, No. 66, Jinying Road, Tianhe District, Guangzhou City, Guangdong Province, 510640, People's Republic of China ~72: CHEN, Feng;HE, Xiaoming;JIANG, Biao;LIU, Wenrui;PENG, Qingwu;SUN, Piaoyun;WANG, Min;XIE, Dasen;YAN, Jinqiang~ 33:CN ~31:202111461951.5 ~32:02/12/2021

2022/09642 ~ Complete ~54:INFECTIOUS DISEASE DETECTION DEVICE BASED ON MECHANICAL TRANSMISSION AND PCR TECHNOLOGY AND WORKING METHOD THEREOF ~71:Fuzhou University, Fuzhou University, No.2 Wulongjiangbei Avenue, Fuzhou University Town, Minhou County, Fuzhou City, Fujian Province, People's Republic of China ~72: DONG Hui;JIA Yuan;LI Haichao;MO Jin;SUN Hao;XIE Wantao~

2022/09648 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF GOLD ION ADSORPTION MATERIAL WITH WIDE PH USE RANGE ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LONGXIANG AVENUE, People's Republic of China ~72: GENG, Hongchao;LIU, Biao;LIU, Chaopeng;LUO, Yulong;MA, Mengxia;MAO, Yanli;SONG, Zhongxian;WANG, CHAOHAI;WANG, Zhaodong;WU, Junfeng;ZHU, Xinfeng~

2022/09650 ~ Complete ~54:A HYBRID MANHOLE COVER ~71:SMART LOCKING LOGIC (PTY) LTD, 87 Regency Drive, Route 21 Corporate Park, Irene, CENTURION 0157, Gauteng, SOUTH AFRICA, South Africa ~72: OLIVIER, Johan~ 33:ZA ~31:2021/06584 ~32:08/09/2021

2022/09666 ~ Complete ~54:SYSTEM FOR PREDICTION OF FIRM PERFORMANCE ~71:JAYAPAL, Gayathri, Plot No.: 73, Pallavan Street, Anbil Nagar, Airport Post, India;RAJA, Mariappan, Plot No.6, Door No.1650, Nandha Nagar, No.1 Tolgate, India;SELVAM, Murugesan, 150, Kalyanasundram Nagar, Airport Post, India;SOMASUNDARAM, Balakrishnan, C/O Dr.Muthasir, Hay at turath, Plot No.: 0127, Flat No.: 001, Nizwa City, AL Dakhliya Governarate, Oman ~72: JAYAPAL, Gayathri;RAJA, Mariappan;SELVAM, Murugesan;SOMASUNDARAM, Balakrishnan~

- APPLIED ON 2022/08/31 -

2022/09715 ~ Complete ~54:BUILDING ENERGY-SAVING DOOR AND WINDOW WITH GOOD AIR CIRCULATION EFFECT ~71:Xinyu University, No. 2666, Yangguang Road, High-tech District, Xinyu City, Jiangxi Province, People's Republic of China ~72: Jian Xiaosheng;Pan Hongke;Peng Yujun;Ying Chenwei;Zhou Linkai~

2022/09719 ~ Complete ~54:THERAPEUTIC RNA FOR PROSTATE CANCER ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany;TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄT;TSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNÜTZIG;TZIGE GMBH, Freiligrathstrasse 12, 55131, Mainz, Germany ~72: CARINA WALTER;DAVID WEBER;DIANA BAREA ROLDAN;ELIF DIKEN;MARTIN SUCHAN;RUPRECHT KUNER;STEFANIA GANGI MAURICI;UGUR SAHIN~ 33:EP ~31:PCT/EP2019/056185 ~32:12/03/2019

2022/09745 ~ Complete ~54:COMPUTER ENHANCED MAINTENANCE SYSTEM ~71:Sandvik Ltd, T/A Sandvik Mining & Rock Technology, 2 Tullyvannon Road, Ballygawley, DUNGANNON BT70 2HW, UNITED KINGDOM, United Kingdom ~72: FORREST, Patrick;GRAYDON, Stuart~

2022/09752 ~ Complete ~54:PLD FOR USE IN COMBINATION IN THE TREATMENT OF CORONAVIRUS ~71:PHARMA MAR, S.A., Polígono Industrial La Mina Avda. de los Reyes, 1 Colmenar Viejo, E-28770, Madrid, Spain ~72: ALEJANDRO LOSADA GONZÁLEZ;JAVIER LIA VERGARA-ALERT;JOSÉ MARÍA A FERNÁNDEZ SOUSA-FARO;NURIA IZQUIERDO-USEROS;PABLO AVILÉS;SALVADOR FUDIO MUÑOZ~ 33:EP ~31:20382152.5 ~32:02/03/2020;33:EP ~31:20382192.1 ~32:13/03/2020;33:EP ~31:20382266.3 ~32:02/04/2020;33:EP ~31:20382339.8 ~32:27/04/2020;33:EP ~31:20382815.7 ~32:16/09/2020;33:EP ~31:20382821.5 ~32:17/09/2020

2022/09722 ~ Complete ~54:METHOD FOR ASSISTING WITH THE DETECTION OF ELEMENTS, ASSOCIATED DEVICE AND PLATFORM ~71:THALES, Tour Carpe Diem Place des Corolles Esplanade Nord, France ~72: BON, Dominique;COCLE, Olivier;DELACOURT, Dominique;LE GUSQUET, Frédéric;LE MEUR, Alain;PERRUCHOT, Ludovic;VERDY, Olivier~ 33:FR ~31:2002127 ~32:03/03/2020

2022/09728 ~ Complete ~54:USER EQUIPMENT AND METHOD FOR WARNING MESSAGES DELIVERY IN PRIVATE NETWORKS ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: WON, Sung Hwan~

2022/09716 ~ Complete ~54:PRIMATE EYEBALL FIXATOR ~71:West China Hospital of Sichuan University, #37 Guoxue Alley, Wuhou District, Chengdu, Sichuan Province, 610041, People's Republic of China ~72: Xiaofeng Zheng;Xinyue Zhu;Ye Zhou~

2022/09726 ~ Complete ~54:METHOD AND APPARATUS FOR TRANSFORM PRECODING CONFIGURATION IN RANDOM ACCESS PROCEDURE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: LIN, Zhipeng~ 33:CN ~31:PCT/CN2020/074617 ~32:10/02/2020

2022/09740 ~ Complete ~54:CYLINDRICAL BATTERY WITH ANTI-VIBRATION AND IMPACT-RESISTANT EFFECTS ~71:Hunan Times United New Energy Co., Ltd., Room 827, 8 / F, Shaoyang Economic Development Zone, Shaoyang City, Hunan Province, People's Republic of China ~72: Fuhua ZHOU;Miao LIU;Xiaoping CHEN;Yangfeng FU;Yunong LUO~ 33:CN ~31:202121806736X ~32:04/08/2021

2022/09751 ~ Complete ~54:COMPOUNDS FOR USE IN THE TREATMENT OF CORONAVIRUS INFECTION ~71:PHARMA MAR, S.A., Polígono Industrial La Mina Avda. de los Reyes, 1 Colmenar Viejo, E-28770, Madrid, Spain ~72: ALEJANDRO LOSADA GONZÁLEZ;JOSÉ MARÍA FERNÁNDEZ SOUSA-FARO;PABLO AVILÉS MARÍN;SALVADOR FUDIO MUÑOZ~ 33:EP ~31:20382152.5 ~32:02/03/2020;33:EP ~31:20382192.1 ~32:13/03/2020;33:EP ~31:20382266.3 ~32:02/04/2020;33:EP ~31:20382339.8 ~32:27/04/2020;33:EP ~31:20382815.7 ~32:16/09/2020;33:EP ~31:20382816.5 ~32:16/09/2020

2022/09718 ~ Complete ~54:KIT AND DETECTION METHOD FOR DETECTING TITER OF PRRSV-1 ANTIBODY ~71:South China Agricultural University, 480 Wushan Rd, Tianhe, Guangzhou, 510642, People's Republic of China;Zhaoqing Branch of Guangdong Provincial Laboratory of Lingnan Modern Agricultural Science and Technology, High tech Zone Innovation and Entrepreneurship Science Park, Zhaoqing, Guangdong, 526238, People's Republic of China ~72: Dongsheng He;Jiawei Niu;Jincheng Chen;Kehui Deng;Ruiai Chen;Weiyu Cai;Xiuwu Wang~

2022/09731 ~ Complete ~54:METHODS AND APPARATUSES FOR SMS DELIVERY ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: LONG, Hongxia~ 33:CN ~31:PCT/CN2020/074635 ~32:10/02/2020

2022/09738 ~ Complete ~54:CANISTER ASSEMBLY WITH PROTECTED CAP WELL AND BOOSTER EXPLOSIVE COMPRISING THE SAME ~71:DYNO NOBEL INC., 2795 East Cottonwood Parkway, Suite 500, Salt Lake City, United States of America ~72: MICHNA, Richard Joseph;PLITT, Tyson James;STREBEL, Paul Richard~ 33:US ~31:62/978,595 ~32:19/02/2020

2022/09743 ~ Complete ~54:SALT OF MONOCHLOROACETIC ACID WITH ACID FOR DELAYED ACIDIFICATION IN THE OIL FIELD INDUSTRY ~71:Nouryon Chemicals International B.V., Velperweg 76, ARNHEM 6824BM, THE NETHERLANDS, Netherlands ~72: BOKKERS, Albert;KOOIJMAN, Cornelis;LEON MATHEUS, Maria Antonieta;VAN LARE, Cornelis Elizabeth Johannus~ 33:EP ~31:20175675.6 ~32:20/05/2020;33:EP ~31:20175679.8 ~32:20/05/2020;33:EP ~31:20181769.9 ~32:23/06/2020

2022/09749 ~ Complete ~54:CBP/CATENIN SIGNALING PATHWAY INHIBITORS AND USES THEREOF
~71:3+2 Pharma, LLC, 16192 Coastal Highway, LEWES 19958, DE, USA, United States of America ~72: RUAN,
Fuqiang~ 33:US ~31:62/988,827 ~32:12/03/2020

2022/09755 ~ Complete ~54:COMPOUNDS FOR USE IN AUTOIMMUNE CONDITIONS ~71:PHARMA MAR,
S.A., Polígono Industrial La Mina Avda. de los Reyes, 1 Colmenar Viejo, E-28770, Madrid, Spain ~72:
ALEJANDRO LOSADA GONZÁLEZ; JOSÉ MARÍA FERNÁNDEZ SOUSA-FARO; PABLO
AVILÉS MARÍN~ 33:EP ~31:20382152.5 ~32:02/03/2020; 33:EP ~31:20382192.1
~32:13/03/2020; 33:EP ~31:20382266.3 ~32:02/04/2020; 33:EP ~31:20382339.8 ~32:27/04/2020; 33:EP
~31:20382814.0 ~32:16/09/2020; 33:EP ~31:20382815.7 ~32:16/09/2020; 33:EP ~31:21382059.0
~32:25/01/2021

2022/09760 ~ Complete ~54:PROCESS FOR THE REMOVAL OF HEAVY METALS FROM A PHOSPHORIC
ACID CONTAINING COMPOSITION ~71:YARA INTERNATIONAL ASA, Drammensveien 131, Norway ~72:
Bjørn ESEN, Katrine Lie; Jørgen RENSEN, Tom Rames; KITA, Patrycja; VOJNOVIC, Tanja~ 33:EP
~31:20180341.8 ~32:16/06/2020; 33:EP ~31:20195118.3 ~32:08/09/2020

2022/09702 ~ Provisional ~54:WATER OXYGENATION APPARATUS ~71:Watermed (Pty) Ltd, 730 Currie Road,
Morningside, South Africa ~72: BELL, Gilbert John~

2022/09705 ~ Complete ~54:ANTI-PLANT-VIRUS COMPOSITION, ANTI-PLANT-VIRUS AGENT AND
APPLICATION THEREOF ~71:Weifang University of Science And Technology, No. 1299, Jinguang Street,
Shouguang City, Shandong Province, 262700, People's Republic of China ~72: DAI, Huijie; LI, Meiqin; LIU,
Xiaoming; LIU, Yongguang; XU, Youxin; XUE, Qiqin~

2022/09712 ~ Complete ~54:MULTI-VIEW TARGET RECOGNITION METHOD AND SYSTEM BASED ON
INTERNET OF THINGS ~71:Hainan University, No. 58, Renmin Avenue, Haikou City, Hainan Province, 570228,
People's Republic of China ~72: LIU, Debing~

2022/09721 ~ Complete ~54:DIGITAL FIAT CURRENCY ~71:VISA INTERNATIONAL SERVICE ASSOCIATION,
P.O. Box 8999, San Francisco, United States of America ~72: HURRY, Simon J.; PIERRE, Alexandre~ 33:US
~31:62/758,430 ~32:09/11/2018

2022/09733 ~ Complete ~54:RELATIVE POSITIONING ASSISTANCE INFORMATION
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72:
GUNNARSSON, Fredrik; SHREEVASTAV, Ritesh~ 33:US ~31:62/971,604 ~32:07/02/2020

2022/09758 ~ Complete ~54:A TWO-TERMINAL DEVICE ~71:POWER ROLL LIMITED, Washington Business
Centre 2 Turbine Way, Sunderland, Tyne and Wear, SR5 3NZ, United Kingdom ~72: ALEXANDER JOHN
TOPPING; NICHOLAS KASCH; TREVOR MCARDLE~ 33:GB ~31:2004533.2 ~32:27/03/2020

2022/09704 ~ Provisional ~54:PAR VOIE ~71:Gary Chater, 11 Coventry Road, South Africa; Thato Moeng, 33
BALLYCLARE DRIVE BALLYWOOD, CEDARWOOD HOUSE, South Africa ~72: Gary Chater; Thato Moeng~

2022/09707 ~ Complete ~54:METHOD FOR INDUCING ZEA MAYS L. TO RESIST FUSARIUM EAR ROT BY
USING TRICHODERMA AGENT ~71:Shanghai Jiaotong University, 800 Dongchuan Road, Minhang District,
Shanghai, People's Republic of China ~72: Chen Jie; Chen Lusheng; Han Yi; Li Yaqian; Liu Peng; Shi Junxian; Wang
Caibo; Wang Jing; Wang Xinhua; Wang Yongkun~

2022/09713 ~ Complete ~54:RAPID IDENTIFICATION METHOD AND APPLICATION OF ALKALI SOAKED
CHICKEN ~71:Jiangsu Institute of Poultry Sciences, No.58 Cangjie Road, Hanjiang District, Yangzhou City,

Jiangsu Province, People's Republic of China ~72: CHEN Dawei;FAN Yanfeng;GAO Yushi;JIA Xiaoxu;LU Junxian;SHEN Xiao;TANG Mengjun;TANG Xiujun;ZHANG Jing;ZHOU Qian~

2022/09727 ~ Complete ~54:MODIFIED TREATMENT CHAMBER FOR TREATING CELLS ~71:BÜHLER AG, GUPFENSTRASSE 5, 9240 UZWIL, SWITZERLAND, Switzerland ~72: BÜNDER, Jana, Carmen;BUCHMANN, Leandro;GEORGET, Erika, Sylvie;MATHYS, Alexander~ 33:EP ~31:20156009.1 ~32:07/02/2020

2022/09734 ~ Complete ~54:TREATMENT OF PRIMARY BILIARY CHOLANGITIS WITH ELAFIBRANOR ~71:GENFIT, 885 AVENUE EUGÈNE AVINÉE, 59120 LOOS, FRANCE, France ~72: BIRMAN, Pascal;DIETRICH, Julie;MOUTON, Julie;OLHAYE, Omar;PETIT, Stéphanie~ 33:EP ~31:20305124.8 ~32:10/02/2020

2022/09757 ~ Complete ~54:POWER TAKE-OFF APPARATUS FOR A WAVE ENERGY CONVERTER AND WAVE ENERGY CONVERTER COMPRISING THE SAME ~71:NOVIGE AB, Lövängsvägen 91, 187 30, Täby, Sweden ~72: JAN SKJOLDHAMMER;TIMO POHJANVUORI~ 33:SE ~31:2050189-6 ~32:20/02/2020

2022/09710 ~ Complete ~54:ANDROGEN RECEPTOR SMALL-MOLECULE FLUORESCENT PROBE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Nanjing First Hospital, No. 68, Changle Road, Qinhuai District, Nanjing City, Jiangsu Province, 210006, People's Republic of China ~72: BIAN, Jinlei;DU, Qianming;GU, Yanqing;HU, Rong;LIU, Chao;YAO, Yiqin~

2022/09723 ~ Complete ~54:GENE THERAPY ~71:THE UNIVERSITY OF BRISTOL, Beacon House, Queens Road, United Kingdom ~72: FOSTER, Rebecca R;SALEEM-UDDIN, Moin Ahson;WELSH, Gavin Iain~ 33:GB ~31:2003109.2 ~32:04/03/2020

2022/09729 ~ Complete ~54:DEVICE FOR TREATING CELLS ~71:BÜHLER AG, GUPFENSTRASSE 5, 9240 UZWIL, SWITZERLAND, Switzerland ~72: BÜNDER, Jana, Carmen;BUCHMANN, Leandro;GEORGET, Erika, Sylvie;LARSEN, Sara;MATHYS, Alexander;O'REILLY, John, Robert~ 33:EP ~31:20156005.9 ~32:07/02/2020

2022/09714 ~ Complete ~54:METHOD FOR DETERMINING RANGE OF DEEP REGION OF SLOPE REINFORCEMENT ~71:Hefei University of Technology, No.193, Tunxi Road, Baohe District, Hefei City, Anhui Province, 230009, People's Republic of China ~72: Feng Shi;Juncai Wang;Kunlin Lu;Yang Yang;Zhikai Yin~

2022/09720 ~ Complete ~54:FRANCIS TURBINE ~71:NINGDE SHANGBAISHI WATER CONSERVANCY PROJECT CO., LTD, Floor 8, Xiawei Building, No. 27 Wan'an West Road, People's Republic of China ~72: WU, Hao;XIE, Yunding;XUE, Feng;YAN, Chenkai~ 33:CN ~31:202210573649.7 ~32:24/05/2022

2022/09735 ~ Complete ~54:METHOD FOR PRODUCING A SCREW, AND SCREW ~71:EJOT SE & CO. KG, Astenbergstrasse 21, Germany ~72: ACHENBACH, Michael;HELLMIG, Ralph J.;SIMONSEN, Fabian~ 33:DE ~31:10 2020 107 194.9 ~32:16/03/2020

2022/09746 ~ Complete ~54:PRODRUGS OF NEUROACTIVE STEROIDS ~71:Brii Biosciences, Inc., We-Work One City Ctr., Unit 05-130, 110 Corcoran St., DURHAM 27701, NC, USA, United States of America ~72: XU, Lianhong~ 33:US ~31:62/982,717 ~32:27/02/2020

2022/09756 ~ Complete ~54:SADDLE FOR HORSE RIDING ~71:PRESTIGE ITALIA S.P.A., Via Stazione, 38, 36070, Trissino, Italy ~72: ANDREA RASIA~ 33:IT ~31:102020000006154 ~32:24/03/2020;33:IT ~31:102020000019090 ~32:04/08/2020

2022/09761 ~ Complete ~54:ANTIMICROBIAL SOLUTIONS AND METHODS OF USING THE SAME IN THE TREATMENT OR PREVENTION OF INFECTIONS ~71:KERECIS AG, Webereistrasse 61, Switzerland ~72: GISLADOTTIR, Dora Hlin;KRISTJANSSON, Jon Magnus;SIGURJONSSON, Gudmundur Fertram~ 33:US ~31:62/993,201 ~32:23/03/2020;33:US ~31:62/993,356 ~32:23/03/2020;33:US ~31:62/993,360 ~32:23/03/2020;33:US ~31:63/003,887 ~32:01/04/2020;33:US ~31:63/004,467 ~32:02/04/2020;33:US ~31:63/040,807 ~32:18/06/2020;33:US ~31:63/091,177 ~32:13/10/2020

2022/09725 ~ Complete ~54:POLYMORPHS OF ELAFIBRANOR ~71:GENFIT, 885 AVENUE EUGENE NE AVINÉE, 59120 LOOS, FRANCE, France ~72: BERTRAND, Karine;DELHOMEL, Jean-François;ROUDOT, Alice~ 33:EP ~31:PCT/EP2020/053359 ~32:10/02/2020

2022/09737 ~ Complete ~54:APPARATUS, KIT AND A METHOD FOR THE PROVISION AND USE OF ELECTROMAGNETIC FIELDS WITH RESPECT TO A BIOREACTION ~71:ST ANDREWS PHARMACEUTICAL TECHNOLOGY LIMITED, 54 Queen Street, Henley-on-Thames, United Kingdom ~72: HENRY, William John~ 33:GB ~31:2006419.2 ~32:30/04/2020;33:GB ~31:2018710.0 ~32:27/11/2020

2022/09742 ~ Complete ~54:ACIDIZING TREATMENT FLUID FOR DELAYED ACIDIFICATION IN THE OIL FIELD INDUSTRY ~71:Nouryon Chemicals International B.V., Velperweg 76, ARNHEM 6824BM, THE NETHERLANDS, Netherlands ~72: KOELEWIJN, Willem;KOOIJMAN, Cornelis;LEON MATHEUS, Maria Antonieta;VAN LARE, Cornelis Elizabeth Johannis~ 33:EP ~31:20175675.6 ~32:20/05/2020;33:EP ~31:20175679.8 ~32:20/05/2020;33:EP ~31:20181769.9 ~32:23/06/2020

2022/09748 ~ Complete ~54:MODIFIED SHORT INTERFERING NUCLEIC ACID (SINA) MOLECULES AND USES THEREOF ~71:Aligos Therapeutics, Inc., 1 Corporate Drive, 2nd Floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BEIGELMAN, Leonid;DE COSTA, N. Tilani S.;ELTEPU, Laxman;HONG, Jin;HOSSBACH, Markus;MONTERO, Saul Martinez;PANDEY, Rajendra K.;RAJWANSHI, Vivek Kumar~ 33:US ~31:62/986,150 ~32:06/03/2020;33:US ~31:63/109,196 ~32:03/11/2020

2022/09754 ~ Complete ~54:COMPOUNDS FOR USE IN VIRAL INFECTIONS ~71:PHARMA MAR, S.A., Polígono Industrial La Mina Avda. de los Reyes, 1 Colmenar Viejo, E-28770, Madrid, Spain ~72: ALEJANDRO LOSADA GONZÁLEZ;JOSÉ MARÍA FERNÁNDEZ SOUSA-FARO;PABLO AVILÉS MARÍN;SALVADOR FUDIO MUÑOZ~ 33:EP ~31:20382152.5 ~32:02/03/2020;33:EP ~31:20382192.1 ~32:13/03/2020;33:EP ~31:20382266.3 ~32:02/04/2020;33:EP ~31:20382339.8 ~32:27/04/2020;33:EP ~31:20382815.7 ~32:16/09/2020;33:EP ~31:20382816.5 ~32:16/09/2020;33:EP ~31:21382059.0 ~32:25/01/2021

2022/09706 ~ Complete ~54:DEVICE FOR TESTING PHYSICAL PROPERTIES OF PILE-SOIL INTERFACE OF SIMULATED PILE ~71:Jilin Jianzhu University, No.5088, Xincheng Street, Changchun City, Jilin Province, People's Republic of China ~72: CAI Jingwei;JIANG Xin;JIN Yujie;NIU Lei;QIAN Yongmei;TIAN Wei;WANG Ruozhu;WANG Ziyu;XIE Xinying;XU Lina;ZHU Chunfeng~

2022/09709 ~ Complete ~54:METHOD FOR PRETREATING HIGH PYRRHOTITE-CONTAINING COPPER ORE ~71:Central South University, No. 932, Lushan South Road, Yuelu District, Changsha City, Hunan Province, 410083, People's Republic of China ~72: HU, Yuehua;JING, Nianwen;LIN, Shangyong;LIU, Runqing;SUN, Wei;WANG, Changtao;ZHAI, Qilin~

2022/09711 ~ Complete ~54:PREPARATION METHOD OF FENTANYL DRUG-CONTAINING HAIR REFERENCE MATERIAL AND APPLICATION THEREOF ~71:National Institute of Metrology, China, 18, Beisanhuandonglu, Chaoyang District, Beijing, 100029, People's Republic of China ~72: LI, Hongmei;SU, Fuhai;WEI, Qi~ 33:CN ~31:202210365077.3 ~32:07/04/2022

2022/09730 ~ Complete ~54:CONDUCTIVITY-ADJUSTED DEVICE FOR TREATING CELLS ~71:BÜHLER AG, GUPFENSTRASSE 5, 9240 UZWIL, SWITZERLAND, Switzerland ~72: BUCHMANN, Leandro;GEORGET, Erika, Sylvie;HUG, Jsmea;MATHYS, Alexander~ 33:EP ~31:20156008.3 ~32:07/02/2020

2022/09759 ~ Complete ~54:ENGINEERED POLYPEPTIDES DERIVED FROM VARIABLE DOMAIN OF ADENOVIRUS PENTON BASE ~71:IMOPHORON LIMITED, Science Creates Old Market, Midland Road, United Kingdom ~72: GARZONI, Frédéric~ 33:EP ~31:20155742.8 ~32:05/02/2020;33:EP ~31:20155982.0 ~32:06/02/2020

2022/09703 ~ Provisional ~54:A WASTE MANAGEMENT SYSTEM ~71:Holystic Approach Waste Technologies (Pty) Ltd, 247 Hoospees Place, Featherbrooke, South Africa ~72: NTULI, Natalia~

2022/09708 ~ Complete ~54:A SYSTEM AND A METHOD FOR PILOT CONTAMINATION MITIGATION IN MASSIVE MIMO NETWORK ~71:Abhinaba Dey, Research Scholar, Dept. of ECE, NIT Silchar, Silchar, India;Prabina Pattanayak, EC-A-31, Annex Building, Dept. of ECE, NIT Silchar, Silchar, India ~72: ABHINABA DEY;PRABINA PATTANAYAK~

2022/09717 ~ Complete ~54:CONVOLUTE CARDBOARD TUBE, APPARATUS AND METHOD FOR MANUFACTURING THE SAME ~71:ABZAC CANADA INC., 2945 boul. Lemire, DRUMMONDVILLE J2B 6Y8, QC, CANADA, Canada ~72: D'ANGLADE, Pierre-Michel~ 33:US ~31:17/503,068 ~32:15/10/2021

2022/09724 ~ Complete ~54:LIGHT STABILIZER MIXTURE ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: LIPS, Gerard;VILLENEUVE, Sebastien;VITALI, Manuele;WEYLAND, Tania~ 33:EP ~31:20156386.3 ~32:10/02/2020

2022/09739 ~ Complete ~54:SYSTEMS, METHODS, AND DEVICES FOR CONTROLLING THE OPERATION OF AN INDUSTRIAL MACHINE BASED ON A PIPE ATTRIBUTE ~71:JOY GLOBAL SURFACE MINING INC., 401 E Greenfield Avenue, Milwaukee, United States of America ~72: HAWORTH, Samuel~ 33:US ~31:62/987,485 ~32:10/03/2020

2022/09744 ~ Complete ~54:BLAST FURNACE SLAG GRANULATION AND WASTE HEAT RECOVERY AND UTILIZATION DEVICE AND METHOD ~71:Baoshan Iron & Steel Co., Ltd., No.885, Fujin Road, Baoshan District, SHANGHAI 201900, CHINA (P.R.C.), People's Republic of China ~72: GUAN, Yunze;LI, Yongqian;WANG, Yingjie;XIAO, Yongli;XIE, Mengqin;ZHANG, Youping~ 33:CN ~31:202010129701.0 ~32:28/02/2020

2022/09750 ~ Complete ~54:LOCK ASSEMBLY FOR GROUND ENGAGING TOOL ~71:TALON ENGINEERING SDN BHD, No. 10A & 10B Jalan Pangkalan Putra 1, Pusat Perniagaan Pengkalan Putra Jalan, Malaysia ~72: DENNIS, Neil Robert;TAN, Jia Hou~ 33:AU ~31:2020900305 ~32:04/02/2020

2022/09732 ~ Complete ~54:NON-CONTACT DEVICE FOR TREATING CELLS ~71:BÜHLER AG, GUPFENSTRASSE 5, 9240 UZWIL, SWITZERLAND, Switzerland ~72: ARNULNESAN, Johan;BÜNDER, Jana, Carmen;BUCHMANN, Leandro;GEORGET, Erika, Sylvie;KINSELLA, David;MATHYS, Alexander~ 33:EP ~31:20156006.7 ~32:07/02/2020

2022/09736 ~ Complete ~54:DOUBLE-SPAN MOVABLE FORMWORK OF LOWER BEARING TYPE AND CONSTRUCTION METHOD ~71:CHINA TIESIJU CIVIL ENGINEERING GROUP CO., LTD, No.96, East Wangjiang Road, Baohe District, Hefei City, People's Republic of China;THE FIRST ENGINEERING CO., LTD. OF CTCE GROUP, No. 434, North Fuyang Road, Luyang District, Hefei City, People's Republic of China ~72: HE, Hongsheng;HU, Zhukui;RUI, Shicai;WANG, Anhui;WANG, Ying;ZHANG, Bo;ZHANG, Guangxue;ZHANG, Jiesheng~ 33:CN ~31:202110540620.4 ~32:18/05/2021

2022/09741 ~ Complete ~54:DIHYDRONAPHTHYRIDINONE COMPOUND, AND PREPARATION METHOD THEREFOR AND MEDICAL USE THEREOF ~71:Genfleet Therapeutics (Shanghai) Inc., Level 2/3/4/5, Suite 8, 1206 Zhangjiang Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China;Zhejiang Genfleet Therapeutics Co., Ltd., 4th Floor, No.3 South Building, Medical Technology Industrial Park No. 1 Yunhai Road, Lihai Town, Shaoxing Binhai New City, 312000, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: LAN, Jiong;LI, Xin;TANG, Lili;XU, Xiaoming;ZHANG, Leitao;ZHOU, Fusheng~ 33:CN ~31:202010090252.3 ~32:13/02/2020;33:CN ~31:202110070075.7 ~32:19/01/2021

2022/09747 ~ Complete ~54:INHALER ~71:Kindeva Drug Delivery L.P., 11200 Hudson Road, WOODBURY 55129, MN, USA, United States of America ~72: COCKS, Philip M.~ 33:US ~31:62/982,823 ~32:28/02/2020

2022/09753 ~ Complete ~54:COMPOUNDS FOR USE IN INFLAMMATORY CONDITIONS ~71:PHARMA MAR, S.A., Pol.Ind.Industrial La Mina Avda. de los Reyes, 1 Colmenar Viejo, E-28770, Madrid, Spain ~72: ALEJANDRO LOSADA GONZALEZ;JOSÉ MARÍA FERNÁNDEZ SOUSA-FARO;PABLO AVILÉS MARÍN;SALVADOR FUDIO MUÑOZ~ 33:EP ~31:20382152.5 ~32:02/03/2020;33:EP ~31:20382192.1 ~32:13/03/2020;33:EP ~31:20382266.3 ~32:02/04/2020;33:EP ~31:20382339.8 ~32:27/04/2020;33:EP ~31:20382815.7 ~32:16/09/2020;33:EP ~31:20382816.5 ~32:16/09/2020;33:EP ~31:21382059.0 ~32:25/01/2021

- APPLIED ON 2022/09/01 -

2022/09764 ~ Complete ~54:SYSTEM FOR ISSUING, VALIDATING AND STORING CERTIFICATES IN PUBLIC-PERMISSIONED BLOCKCHAIN NETWORKS ~71:UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR), Avenida de la Paz 137,, Spain ~72: BURGOS SOLANS, Daniel;GONZÁLEZ CRESPO, Rubén;NOMBELA PÉREZ, Juan José;PANIAGUA DÍEZ, Fidel~

2022/09767 ~ Complete ~54:BULLET-PROOF AND STAB-PROOF MATERIAL ~71:NANTONG UNIVERSITY, No.9, Seyuan Road, Nantong, Jiangsu, 226019, People's Republic of China ~72: CAO, Haijian;CHEN, Hongxia;HUANG, Xiaomei;MA, Yan;YAN, Xuefeng~ 33:CN ~31:202111395807.6 ~32:23/11/2021

2022/09771 ~ Complete ~54:NUTRITIONAL FORTIFICATION DEVICE FOR SPROUT FOOD WITH RECYCLABLE WATER ~71:Heilongjiang Academy of Agricultural Machinery Sciences, No.156, Haping Road, Nangang District, Harbin City, Heilongjiang Province, People's Republic of China ~72: DU Chuandong;HAN Xiuhai;JIN Dehai;LI Jing;LI Jinshi;REN Hongchen;SONG Wei;SUN Daming;TIAN Ye;XING Zhanqiang;YAN Jingfeng;YIN Yuan;YU Lei;ZHANG Minghui;ZHAO Zhongliang;ZHENG Wei~

2022/09774 ~ Complete ~54:CURVED SURFACE FITTING IMAGE MAGNIFICATION METHOD AND SYSTEM BASED ON TRIANGULAR GRID DIVISION ~71:Shandong Institute of Commerce and Technology, No. 4516, Lvyou Road, Jinan City, Shandong Province, 250103, People's Republic of China ~72: WANG, Jun;YE, Caizeng;ZHU, Xugang~

2022/09776 ~ Complete ~54:A METHOD FOR STUDYING THE MECHANISM OF SPATIAL HETEROGENEITY OF MICROHABITATS IN ALPINE MARSH WETLAND ~71:Qinghai University, No. 251 Ningda Road, Xining City, Qinghai Province, People's Republic of China ~72: Wu Guiling~

2022/09777 ~ Complete ~54:SMART SECURITY ALERT SYSTEM ~71:PATRICK SHELDON COSTELLO, 5 Vine Road, Woodstock, 7925, South Africa;WILLIAM THOMAS COSTELLO, 57 Robins Road, Observatory, 7925, South Africa ~72: PATRICK SHELDON COSTELLO;WILLIAM THOMAS COSTELLO~ 33:ZA ~31:2021/03802 ~32:03/06/2021

2022/09779 ~ Complete ~54:INTRANASAL MRNA VACCINES ~71:ETHERNA IMMUNOTHERAPIES NV, Galileilaan 19, Belgium ~72: TIEST, Wim;VAN HOORICK, Diane~ 33:EP ~31:20157300.3 ~32:14/02/2020

2022/09781 ~ Complete ~54:PERSONAL CARE COMPOSITIONS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BHARDWAJ, Vinay;BOYD, Thomas;FAN, Aixing;LI, Min;NESTA, Jason~ 33:US ~31:62/987,023 ~32:09/03/2020;33:US ~31:62/987,049 ~32:09/03/2020

2022/09889 ~ Complete ~54:PHYTOSANITARY HERBICIDE COMPOSITION IN THE FORM OF A MICROEMULSION WITH LOW SURFACTANT CONTENT AND HIGH COMPATIBILITY IN ULTRA-LOW VOLUME SPRAY LIQUIDS, AND METHOD FOR OBTAINING IT ~71:RED SURCOS COLOMBIA S.A.S., ; Carrera 16 A Nro. 76-79, Oficina 504 – Barrio El Lago, Colombia ~72: GAL#193;N ROMANO, F#233;lix Silvestre~ 33:AR ~31:P20200101010 ~32:08/04/2020

2022/10175 ~ Provisional ~54:FLOATRAX ~71:Eugene van Dien, Vatican City 4 Unit 2, South Africa ~72: Eugene Vandien~

2022/09789 ~ Complete ~54:TOWER SECTION AND WIND GENERATING SET ~71:JIANGSU GOLDWIND SCIENCE & TECHNOLOGY CO., LTD., No. 5 Jinhai Road, Economic & Technological Development Zone Dafeng District, Yancheng, Jiangsu, 224100, People's Republic of China ~72: JING FANG;LONG MA;ZHU ZHANG~ 33:CN ~31:202010103876.4 ~32:20/02/2020

2022/09792 ~ Complete ~54:METHODS FOR PREPARING TYROSINE RECEPTOR KINASE INHIBITORS ~71:PYRAMID BIOSCIENCES, INC., 330 Bear Hill Road, Suite 302, Waltham, Massachusetts, 02451, United States of America ~72: AVINASH BORUDE;HARI PRAKASH;KOLLOL PAL;PRASANT DEB~ 33:US ~31:63/010,108 ~32:15/04/2020

2022/09772 ~ Complete ~54:ACID PLUS ESSENTIAL OIL COMPOUND PREPARATION AND PREPARATION METHOD THEREOF ~71:Zhejiang Vegamax Bio-technology Co., Ltd., Xiaoshu Industrial Functional Zone, Meixi Town, Anji County, Zhejiang Province, 313300, People's Republic of China ~72: KONG, Suifei;LI, Hui;LIU, Jinsong;NI, Zhibing;YANG, Biao~

2022/09782 ~ Complete ~54:BIODEGRADABLE GRAFT POLYMERS ~71:BASF SE, Carl-Bosch-Strasse 38, LUDWIGSHAFEN AM RHEIN 67056, GERMANY, Germany;The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: BEAN, Jessica Eleanor;BECKER, Natalia;BENLAHMAR, Ouidad;BOEHN, Roland;BOUTIQUE, Jeanpol;BUECHSE, Andreas;GORCZYNSKA COSTELLO, Katarzyna;HUELSKOETTER, Frank;MAES, Jef Annie Alfons;MARCZEWSKI, Dawid;MUELLER, Jan Ole;SAVEYN, Pieter Jan Maria;SI, Gang;STERGIOPOULOU, Natalia;WANG, Mu~ 33:EP ~31:20157383.9 ~32:14/02/2020

2022/09783 ~ Complete ~54:A HOOD FOR HUMIDIFYING AIR ENTERING INTO A TRACHEOSTOMY VALVE ~71:Fogless International AB, P.O. Box 84, J#214;NK#214;PING 551 12, SWEDEN, Sweden ~72: BLOMQUIST, Inge;EKEBERG, Daniel~ 33:SE ~31:2050231-6 ~32:02/03/2020

2022/09785 ~ Complete ~54:APPARATUS AND METHOD FOR RENDERING AN AUDIO SCENE USING VALID INTERMEDIATE DIFFRACTION PATHS ~71:FRAUNHOFER-GESELLSCHAFT ZUR F#214;RDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: LEE, Sangmoon;WEFERS, Frank~ 33:EP ~31:20163155.3 ~32:13/03/2020

2022/09766 ~ Complete ~54:ENVIRONMENT-FRIENDLY RECYCLING METHOD OF WASTE LIFEPO4 CATHODE MATERIALS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 168, TAIFENG STREET, People's Republic of China ~72: LU, Xiaoyong;MIAO, Yun;SHAO, Qun;WANG, Yuhao;YUAN, Yuan~

2022/09769 ~ Complete ~54:OPTIMIZATION DESIGN METHOD FOR ELECTRICAL EQUIPMENT CONSIDERING BOTH ROBUSTNESS AND RELIABILITY ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic and Technological Development Zone, Shenyang, Liaoning, 110870, People's Republic of China ~72: CHEN, Dezhi;REN, Ziyang;SUN, Yuan;ZHANG, Dianhai;ZHANG, Yanli~

2022/09786 ~ Complete ~54:FOLDABLE ELECTRONIC DEVICE INCLUDING HINGE ASSEMBLY ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: HEEBO SHIM;JINGOOK KIM;JONGMIN KANG;SEONGKI JEONG;SEUNGWHEE CHOI;SUMAN LEE;WONSEOK RHEE~ 33:KR ~31:10-2020-0015993 ~32:10/02/2020

2022/09763 ~ Provisional ~54:SOLAR TRAILER ~71:Thomas S Le Grange, 5 Lynndawn, 491 Dawn Ave, South Africa ~72: Rodney Reginald Kruger~

2022/09773 ~ Complete ~54:A VIBRATING INTELLIGENT SUSPENSION CONVEYING SYSTEM WITH SHAKING DEVICE FOR GRANULAR PLASTIC PROCESSING ~71:Shenzhen Yuanfan Plastic Products Co., Ltd., South 3rd Floor, No. 8 Yueming Street, Guantian Community, Shiyan Street, Baoan District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Lai Xinhua~ 33:CN ~31:202210404030.3 ~32:18/04/2022

2022/09778 ~ Complete ~54:THREE-DIMENSIONAL FILM SEALING ~71:JOHNSON, Philip, Richard, Steetly House, St. Nicholas Road, Littlestone Kent, United Kingdom;VAN DEN BROEK, Lucas, Karel, Johannes, De Boskamp 8, Baarn, Netherlands;WILLEMSSEN, Louis, Rinze, Henricus, Adrianus, EW Connection Building 5417, Mathilde Street, Brgy., Philippines ~72: VAN DEN BROEK, Lucas, Karel, Johannes;WILLEMSSEN, Louis, Rinze, Henricus, Adrianus~ 33:NL ~31:2025035 ~32:03/03/2020

2022/09780 ~ Complete ~54:APPARATUS AND METHOD FOR RENDERING A SOUND SCENE USING PIPELINE STAGES ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: SCHWÄR, Simon;WEFERS, Frank~ 33:EP ~31:20163153.8 ~32:13/03/2020

2022/09784 ~ Complete ~54:COMBINATION THERAPY WITH A MUTANT IDH INHIBITOR ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BROOKS, Nathan Arthur;GILMOUR, Raymond~ 33:US ~31:62/993,254 ~32:23/03/2020;33:US ~31:63/024,713 ~32:14/05/2020;33:US ~31:63/053,875 ~32:20/07/2020

2022/09794 ~ Complete ~54:EIF4E INHIBITORS AND USES THEREOF ~71:PIC THERAPEUTICS, INC., 22 Strathmore Road, Suite 115, Natick, Massachusetts, 02111, United States of America ~72: ALAN E WALT;CHRISTOPHER L VANDEUSEN;YAT SUN OR~ 33:US ~31:62/984,543 ~32:03/03/2020

2022/09788 ~ Complete ~54:AN AGRICULTURAL ADJUVANT ~71:ORO AGRI EUROPE S.A., Estrada Municipal 533, Biscaia, Lau, Palmela, Setúbal, 2950-065, Portugal ~72: CAROL PULLEN;SARA ALEXANDRA VALADAS SILVA MONTEIRO~ 33:GB ~31:1917213.9 ~32:26/11/2019

2022/09790 ~ Complete ~54:COMPOSITIONS IMPROVING POXVIRUS STABILITY ~71:BAVARIAN NORDIC A/S, Philip Heymans Alle 3, 2900, Hellerup, Denmark ~72: KJAER KATRINE;MARKUS KALLA~ 33:EP ~31:20162856.7 ~32:12/03/2020

2022/09793 ~ Complete ~54:MULTIMERIC T-CELL MODULATORY POLYPEPTIDES AND METHODS OF USE THEREOF ~71:CUE BIOPHARMA, INC., 21 Erie Street, Cambridge, Massachusetts, 02139, United States of America ~72: JOHN F ROSS;RODOLFO J CHAPARRO;RONALD D. III SEIDEL;SASO CEMERSKI~ 33:US ~31:63/023,834 ~32:12/05/2020;33:US ~31:63/041,451 ~32:19/06/2020

2022/09762 ~ Provisional ~54:VERTICAL KILN ~71:UNIVERSITY OF JOHANNESBURG, Cnr. Kingsway and University Roads Auckland Park, Johannesburg, 2006, South Africa ~72: ANTOINE MULABA;FREEMAN ELTHER DAVID SENZANI;LAGOUGE KWANDA TARTIBU;ROLLY KARODOLAN NDEKO KABINGA~

2022/09770 ~ Complete ~54:A METHOD AND DEVICE FOR IDENTIFYING SUSPENDED MATTER IN URINARY DIAGNOSIS OF TIBETAN MEDICINE ~71:University of Electronic Science and Technology of China, No.2006, Xiyuan Avenue, West Hi-Tech Zone, Chengdu City, Sichuan Province, 611731, People's Republic of China ~72: Jiajing Zhu;Qiaoqin Li;Yongguo Liu;Yun Zhang;Zhaowei Du~ 33:CN ~31:202210859399.3 ~32:21/07/2022

2022/09775 ~ Complete ~54:HORIZONTAL VINE-SOIL-PRESSING PLANTING METHOD OF EDIBLE SWEET POTATO WITH TWO CROPS A YEAR BASED ON AUTUMN SEEDLING OVERWINTERING METHOD ~71:Crop Institute of Jiangxi Academy of Agricultural Sciences, No. 602, Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: Ge Ruihua;Hou Longying;Pan Hao;Sun Mingzhu;Wu Wensheng;Wu Xinming;Xiao Manqiu;lan mengjiao~

2022/09765 ~ Complete ~54:A PROTECTIVE HOUSING ~71:WBHO CONSTRUCTION (PTY) LTD, 53 ANDRIES STREET, WYNBERG, SANDTON, 2092, SOUTH AFRICA, South Africa ~72: FERREIRA, Gert~

2022/09768 ~ Complete ~54:ROOT-PROMOTING TYPE SOIL CONDITIONER AND PREPARATION METHOD THEREOF ~71:Guizhou Institute of Soil and Fertilizer, No. 1, Jinnong Road, Jinxin Community, Huaxi District, Guiyang City, Guizhou Province, 550006, People's Republic of China ~72: HUANG, Xingcheng;JIANG, Taiming;LI, Yu;LIU, Yanling;XIONG, Han;YANG, Yehua;ZHANG, Yarong;ZHU, Huaqing~ 33:CN ~31:202210435088.4 ~32:24/04/2022

2022/09787 ~ Complete ~54:DEVICE FOR THE STORAGE OF THERMAL ENERGY OF SOLAR ORIGIN BASED UPON MULTIPLE REFLECTIONS ~71:MAGALDI POWER S.P.A., Piazza di Pietra 26, 00186, Roma RM, Italy ~72: FULVIO BASSETTI;MARIO MAGALDI~

2022/09791 ~ Complete ~54:FOLDABLE INHALER ~71:1NHALER LTD, Upper Whitfield, West Linton, Scottish Borders, EH46 7AY, United Kingdom ~72: DONALD SMITH;GREGOR JOHN MCLENNAN ANDERSON;LISA CHARLESTON MCMYN;SUTTIE ALAN MILLER~ 33:GB ~31:2004337.8 ~32:25/03/2020

- APPLIED ON 2022/09/02 -

2022/09796 ~ Provisional ~54:COMPOSITION FOR TREATING VITILIGO ~71:WELWITCHIA HEALTH TRAINING CENTRE, 183 Industrial Street, Lafrenz, Namibia ~72: MAGESA, Emmanuel~

2022/09798 ~ Provisional ~54:SHRINK-WRAP AND GLUED SIX-PACK PACKAGING DESCRIPTION ~71:Martin Hempel, Endeavour Farm, South Africa ~72: Martin Hempel~

2022/09808 ~ Complete ~54:USE OF MALIC ENZYME 2 IN PREPARATION OF DIAGNOSTIC REAGENT OR MEDICAMENT FOR SILICOSIS OR PULMONARY FIBROSIS-RELATED DISEASE ~71:Institute of Basic Medical Sciences of Chinese Academy of Medical Sciences, No. 5, Dongdan Santiao, Dongcheng District, Beijing, 100005, People's Republic of China ~72: QI, Xianmei;SUN, Youliang;WANG, Jing;ZHANG, Tiantian~ 33:CN ~31:202210703092.4 ~32:21/06/2022

2022/09821 ~ Complete ~54:ABC DRY POWDER FIRE EXTINGUISHANT AND PREPARATION METHOD THEREFOR ~71:NANJING GAO SHENG FIRE EXTINGUISHING AGENT CO., LTD., No.7 Jingshandong Road, Economic Development Zone, Gaochun District, Nanjing, Jiangsu 211300, People's Republic of China ~72: JIANG, Cuiping;JIANG, Jinkang;JIANG, Zhonghu~

2022/09826 ~ Complete ~54:INACTIVATED SARS-COV-2 VIRUS VACCINE ~71:VALNEVA AUSTRIA GMBH, Campus Vienna Biocenter 3, Austria ~72: HEINDL-WRUSS, Jürgen;MÖhlen, Michael;MEINKE, Andreas;SCHLEGL, Robert~ 33:EP ~31:20168324.0 ~32:04/06/2020;33:EP ~31:20202118.4 ~32:15/10/2020;33:EP ~31:20211853.5 ~32:04/12/2020;33:EP ~31:21154647.8 ~32:01/02/2021;33:US ~31:PCT/US21/20313 ~32:01/03/2021;33:EP ~31:21160913.6 ~32:05/03/2021

2022/09834 ~ Complete ~54:STORAGE UNIT WITH SUPPORT CRADLE ~71:DANIEL KELLY, 9 Roxbury Drive Medford, New Jersey, 08055, United States of America ~72: GERALD KOEFELDA;JOHN SPADAVECCHIA~ 33:US ~31:16/687,027 ~32:18/11/2019

2022/09835 ~ Complete ~54:SYSTEM AND METHOD FOR PROVIDING BROAD BAND LOCAL AREA NETWORK SERVICES AT A DWELLING ~71:POYNTING ANTENNAS (PTY) LIMITED, Unit 4, N1 Industrial Park, Landmarks Avenue, South Africa ~72: FOURIE, Andries, Petrus, Cronje;WALKER, Eduard, Willem~ 33:ZA ~31:2020/01522 ~32:11/03/2020

2022/09801 ~ Provisional ~54:A DISPLACEMENT MEASURING DEVICE FOR INSTALLATION IN A ROCK HOLE ~71:INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, South Africa ~72: PASTORINO, Paolo Ettore~

2022/09809 ~ Complete ~54:METHOD FOR ENVIRONMENTALLY-FRIENDLY TREATMENT OF RIVER SEDIMENT BY MAGNESIUM-BASED CEMENTING MATERIAL BASED ON INDUSTRIAL WASTE RESIDUE ~71:Huzhou Vocational and Technical College (Huzhou Radio and Television University) (Huzhou Community University), No. 299, Xuefu Road, Wuxing District, Huzhou City, Zhejiang Province, People's Republic of China ~72: LI Jianhua;XU Xueyong;YANG Xiaonan~

2022/09815 ~ Complete ~54:CULTIVATING DEVICE FOR RAPID GROWTH OF FOREST SEEDLINGS ~71:JILIN PROVINCIAL ACADEMY OF FORESTRY SCIENCES, 3528 Linhe Street, Changchun, People's Republic of China ~72: CHEN, Shigang;CHEN, Siyu;CHEN, Yalin;CHENG, Bin;DAI, Wei;ZHANG, Yang~

2022/09822 ~ Complete ~54:ELECTRICALLY OPERATED AEROSOL-GENERATING DEVICE WITH MEANS FOR DETECTING AN AIRFLOW IN THE DEVICE ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: OLIANA, Valerio~ 33:EP ~31:20155847.5 ~32:06/02/2020

2022/09841 ~ Complete ~54:P450 BM3 MONOOXYGENASE VARIANTS FOR C19-HYDROXYLATION OF STEROIDS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer Pharma Aktiengesellschaft, Müllerstr. 178, BERLIN 13353, GERMANY, Germany ~72: BERENDES, Frank;BULUT, Dalia;BURMEISTER, Jens;COCO, Wayne;HELFRICH, Petra;KENSCH, Oliver;KRETSCHMANN, Nils;LINNHOFF, Ruben;LUDWIG, Marcus;PILLING, Jens;RICHTER, Florian;SKALDEN, Lilly;THEDE, Kai;TRENNER, Sabine;WAGNER, Jakob;ZORN, Ludwig~ 33:EP ~31:20155122.3 ~32:03/02/2020

2022/09850 ~ Provisional ~54:COMPOSTABLE AND BIODEGRADABLE PRESERVATIVE GAS GENERATING DEVICE ~71:Andre Jooste, 2 Vredenzicht Crescent, Vredenzicht Estate, South Africa;Willem Jacobus Opperman, 2 Thibault Ave, Parel Vallei, Somerset West, South Africa ~72: Andre Jooste;Willem Jacobus Opperman~

2022/09848 ~ Complete ~54:SYSTEMS, COMPUTER-IMPLEMENTED METHODS AND COMPUTER PROGRAMS FOR CAPITAL MANAGEMENT ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CHEAH, Soon-Ee;DOAN, Tuan;DRIDAN, Rebecca;GARDINER, Philip;MERVAL, Antoine;PERMEZEL, Donald John Robert;STYLES, Benjamin Lloyd~ 33:AU ~31:2020901197 ~32:15/04/2020;33:WO ~31:PCT/AU2020/050924 ~32:03/09/2020

2022/09852 ~ Provisional ~54:ALARM CLOCK WITH HANDS-FREE CALLING WITH BUILT-IN HARD DRIVE WITH CUSTOMIZABLE IN-APP. ~71:Ahmed Waseef Saib, 24 Park Avenue, Desainager, South Africa ~72: Ahmed Waseef Saib~

2022/09811 ~ Complete ~54:COMPUTER MULTIMEDIA TEACHING SYSTEM FOR ONLINE EDUCATION ~71:ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE, No.56 Pengcheng Avenue, Zhengdong New District, Zhengzhou City, Henan Province, People's Republic of China ~72: CHEN Bin;CHENG Lanzhi;GAO Yixuan;QI Hui;WANG Lingyun;YANG Xiangge~ 33:CN ~31:202210984568.6 ~32:17/08/2022

2022/09820 ~ Complete ~54:BEARING EXTRACTION FROM A STUFFING BOX OF A ROTARY MECHANICAL DEVICE ~71:SEAL-RYT CORP., 64 Servistar Industrial Way, Westfield, Massachusetts, 01085, United States of America ~72: HUARD, Michael;MONAHAN, Thomas~ 33:US ~31:16/809,461 ~32:04/03/2020

2022/09827 ~ Complete ~54:SYSTEMS AND METHODS FOR PREDICTING PEST PRESSURE USING GEOSPATIAL FEATURES AND MACHINE LEARNING ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: CASSANDRA PALLAI;ROSS JOSEPH PUTTERMAN;RUIXUE GONG;SAI ANIRUDH MANDAGONDI;SARA CATHERINE STERLING;SIMON BRIDGE BARRATT;SUKHVINDER SINGH;WANDI LIN~ 33:US ~31:62/984,881 ~32:04/03/2020;33:US ~31:62/984,885 ~32:04/03/2020;33:US ~31:17/081,263 ~32:27/10/2020;33:US ~31:17/081,361 ~32:27/10/2020

2022/09837 ~ Complete ~54:KAPOK PASSIVE HOUSE ~71:ZHANG, Quankang, 1-502, Building 23, Huangcunzhongli, Daxing District, Beijing, 102600, People's Republic of China ~72: ZHANG, Jin;ZHANG, Quankang~ 33:CN ~31:202010984508.5 ~32:18/09/2020

2022/09842 ~ Complete ~54:STABLE PHARMACEUTICAL COMPOSITIONS OF ROPINIROLE ~71:Orion Corporation, Orionintie 1, ESPOO FI-02200, FINLAND, Finland ~72: LESKINEN, Mikko;SALMIA, Jukka~ 33:FI ~31:20205109 ~32:03/02/2020

2022/09843 ~ Complete ~54:COMPOSITION FOR PREVENTING OR TREATING PULMONARY DISEASES COMPRISING HYALURONAN AND PROTEOGLYCAN LINK PROTEIN 1 ~71:HapInScience Inc., B-1001, 10F, 660, Daewangpangyo-ro, Bundang-gu, SEONGNAM-SI 13494, GYEONGGI-DO, REPUBLIC OF KOREA, Republic of Korea ~72: JANG, Ji Min;KIM, Dae Kyong;PARK, Bo Kyung;PIAO, Yong Wei;YUN, So Yoon;ZHOU, Dan~ 33:KR ~31:10-2020-0012742 ~32:03/02/2020

2022/09847 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING CANCER WITH IMMUNE CELLS ~71:NeoTX Therapeutics Ltd., Pekeris St. #2, REHOVOT 7670202, ISRAEL, Israel ~72: NATHAN, Asher;SAGI, Yael;SHAHAR, Michal~ 33:US ~31:62/985,553 ~32:05/03/2020

2022/09800 ~ Provisional ~54:WATER TURBINE ARRANGEMENT ~71:UDOBID AJAM GREEN ENERGY SOLUTIONS (PTY) LTD, 622 Block F West, Tshwane, Tshwane, Gauteng, 0152, South Africa ~72: TSHOLOFELO DIBODU~

2022/09805 ~ Complete ~54:DETECTION DEVICE AND DETECTION METHOD FOR DETECTING DISTRIBUTION UNIFORMITY OF TRANSPARENT MATERIALS ~71:Quanzhou Institute of Equipment Manufacturing, No.166,Xidong Road, Sunei Community, Luoshan Street, Jinjiang City, Quanzhou City, Fujian Province, People's Republic of China ~72: HAN Jun;HUANG Huiling~

2022/09807 ~ Complete ~54:METHOD FOR REDUCING PRESSURE AND INCREASING INJECTION BY CONTINUOUS OPERATION SYSTEM OF BIOLOGICAL ACID ACIDIFICATION AND NANO COATING ~71:YANGTZE UNIVERSITY, No. 1, Daxue Road, Caidian District, Wuhan City, Hubei Province, 430100, People's Republic of China ~72: FENG, Qing;LI, Shengsheng;LI, Xiaonan;SHE, Yuehui;ZHANG, Fan~

2022/09813 ~ Complete ~54:PAPER-BASED MICROFLUIDIC CHIP FOR QPCR AND MANUFACTURING METHOD THEREOF ~71:Fuzhou University, Fuzhou University, No.2 Wulongjiangbei Avenue, Fuzhou University Town, Minhou County, Fuzhou City, Fujian Province, People's Republic of China ~72: DONG Hui;JIA Yuan;LI Haichao;MO Jin;SUN Hao;XIE Wantao~

2022/09817 ~ Complete ~54:LANGUAGE BARRIER IN SCHOOL EDUCATION OF INDIGENOUS STUDENTS AS PER NATIONAL EDUCATION POLICY 2020 ~71:Dr. Debasish Pahi, Assistant Professor, School of Social Financial and Human Sciences, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Dr. Pradeep Kumar Mallick, Associate Professor, School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. Arun Kumar Ray, Director (Academics), Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. Sasmita Rani Samanta, Vice Chancellor, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India ~72: Dr. Debasish Pahi;Dr. Pradeep Kumar Mallick;Prof. Arun Kumar Ray;Prof. Sasmita Rani Samanta~

2022/09819 ~ Complete ~54:CONTAINER AND METHOD OF ERECTING A CONTAINER ~71:APL CARTONS (PTY) LTD, Abattoir Road, South Africa ~72: PORTWIG, Heinrich~

2022/09828 ~ Complete ~54:SYSTEMS AND METHODS FOR PEST PRESSURE HEAT MAPS ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: D'HYVER DE LAS DESES, PAUL;IAN ANTHONY STUART-HOFF;ROSS JOSEPH PUTTERMAN;SARA CATHERINE STERLING;SIMON BRIDGE BARRATT;SUKHVINDER SINGH;WANDI LIN~ 33:US ~31:62/984,881 ~32:04/03/2020;33:US ~31:62/984,885 ~32:04/03/2020;33:US ~31:17/081,263 ~32:27/10/2020;33:US ~31:17/081,361 ~32:27/10/2020

2022/09830 ~ Complete ~54:HETEROCYCLIC AMIDES AND THEIR USE FOR MODULATING SPLICING ~71:REMIX THERAPEUTICS INC., One Kendall Square Building 600, 4th Floor Cambridge, Massachusetts, 02139, United States of America ~72: ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;MICHAEL WALKER SEILER;PETER SMITH~ 33:US ~31:62/983,541 ~32:28/02/2020;33:US ~31:63/007,333 ~32:08/04/2020;33:US ~31:63/040,484 ~32:17/06/2020;33:US ~31:63/072,790 ~32:31/08/2020;33:US ~31:63/126,492 ~32:16/12/2020

2022/09833 ~ Complete ~54:PYRIDAZINE DERIVATIVES FOR MODULATING NUCLEIC ACID SPLICING ~71:REMIX THERAPEUTICS INC., One Kendall Square Building 600, 4th Floor Cambridge, Massachusetts, 02139, United States of America ~72: ALLEN T HOPPER;ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;MICHAEL WALKER SEILER;PETER SMITH~ 33:US ~31:62/983,537 ~32:28/02/2020;33:US ~31:63/007,134 ~32:08/04/2020;33:US ~31:63/040,474 ~32:17/06/2020;33:US ~31:63/072,781 ~32:31/08/2020;33:US ~31:63/126,491 ~32:16/12/2020

2022/09836 ~ Complete ~54:BATTERY ASSEMBLY ~71:POYNTING ANTENNAS (PTY) LIMITED, Unit 4, N1 Industrial Park, Landmarks Avenue, South Africa ~72: FOURIE, Andries, Petrus, Cronje~ 33:ZA ~31:2020/01492 ~32:10/03/2020

2022/09840 ~ Complete ~54:STERILIZATION COMPOSITIONS AND METHODS FOR USING THEREOF ~71:SAVE FOODS LTD., 20 Raoul Wallenberg St., Building A, Israel ~72: BEN YEHUDA, Nimrod;MATIS, Neta;SZTYBEL, Dan~ 33:US ~31:62/983,691 ~32:01/03/2020

2022/09846 ~ Complete ~54:METHODS AND SYSTEMS FOR IMPROVING THE EFFICIENCIES OF POWER AND OTHER INDUSTRIAL PROCESS PLANTS ~71:MACEDA, Joseph Peter, 300 Albany Street, Apt 7H, NEW

YORK 10280, NY, USA, United States of America ~72: MACEDA, Joseph Peter~ 33:US ~31:62/972,246
~32:10/02/2020

2022/09816 ~ Complete ~54:DEVICE FOR INSPECTING A PIPE, IN PARTICULAR WITH REGARD TO
CLANDESTINE TAPPING ~71:SOCIETE DES TRANSPORTS PETROLIERS PAR PIPELINE TRAPIL, 7 &
9, rue des Frères Morane, France ~72: BENICHOUE, Stéphane;RADISSON, Marc~ 33:FR
~31:2109200 ~32:03/09/2021

2022/09824 ~ Complete ~54:PROTECTIVE LENS COVER ASSEMBLY ~71:SHELTERED WINGS, INC. d/b/a
VORTEX OPTICS, ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72:
HAMILTON, David;MORELL, Robert;ROSEN, Michael, A.~ 33:US ~31:62/969,285 ~32:03/02/2020

2022/09797 ~ Provisional ~54:BEVERAGE CAN PACKAGING CRATE ~71:Martin Hempel, Endeavour Farm,
South Africa ~72: Martin Hempel~

2022/09803 ~ Provisional ~54:DUAL OPENING BEVERAGE CAN END ~71:Martin Hempel, Endeavour Farm,
South Africa ~72: Martin Hempel~

2022/09810 ~ Complete ~54:SEEDING DEVICE FOR PLANTING ECOLOGICAL VEGETABLES ~71:Anhui
Science and Technology University, 1501 Huangshan Avenue, Bengbu City, Anhui province, People's Republic of
China ~72: LU Xiaomin;YAN Congsheng;YANG Dekun;YI Kechuan;ZHAN Qiuwen~ 33:CN ~31:202210657499.8
~32:10/06/2022

2022/09795 ~ Provisional ~54:A SYSTEM FOR MONITORING FUEL USAGE ~71:BRUMMER, Keegan Larry,
Unit C1, 29 Riley Road, South Africa ~72: BRUMMER, Keegan Larry~

2022/09806 ~ Complete ~54:COMPONENTS ASSEMBLING DEVICE FOR COMPUTER MAINBOARD
~71:ANQING NORMAL UNIVERSITY, No.1318 Jixian North Road, Yixiu District, Anqing City, Anhui Province,
People's Republic of China ~72: AI Liefu;CHEN Chunsheng;CHEN Jian;HU Langtao;WANG Lingfang~

2022/09814 ~ Complete ~54:FFC-OSA: AN INTEGRATION OF CONVOLUTIONAL BLOCK ATTENTION
MODULE AND TRANSFORMERS FOR OBSTRUCTIVE SLEEP APNEA DETECTION USING SINGLE-
CHANNEL EEG ~71:Xi'an University of Technology, No.5, Jinhua South Road, Xi'an, Shaanxi,
710048, People's Republic of China ~72: Chengjian Li;Haiqin Liu;Jing Luo;Jingguo Chen;Liang Zhou;Xiaoyong
Ren;Xinhong Hei;Yitong Zhang;Zhenghao Shi;Zhenzhen You;Zhijun Zhang~

2022/09845 ~ Complete ~54:TECHNIQUES FOR FORMING POLYCRYSTALLINE, SUPERABRASIVE
MATERIALS, AND RELATED METHODS, MATERIALS, CUTTING ELEMENTS. AND EARTH-BORING TOOLS
~71:Baker Hughes Oilfield Operations LLC, 17021 Aldine Westfield, HOUSTON 77073, TX, USA, United States of
America ~72: BIRD, Marc;ROBERTSON, Andrew~ 33:US ~31:62/972,555 ~32:10/02/2020

2022/09849 ~ Complete ~54:PRESSURE VESSEL FOR USE IN A BEVERAGE DISPENSING ASSEMBLY
~71:HEINEKEN SUPPLY CHAIN B.V., Tweede Weteringplantsoen 21, Netherlands ~72: GRIFFIOEN, Edwin
Johannes Cornelis;PAAUWE, Arie Maarten;SLUIJTER, Robert Hugo~ 33:NL ~31:2025019 ~32:28/02/2020

2022/09839 ~ Complete ~54:DISPATCHING OPERATION METHOD, DEVICE AND COMPUTER EQUIPMENT
FOR DEEP SEWAGE DRAINAGE TUNNEL ~71:CHINA CONSTRUCTION THIRD BUREAU GREEN INDUSTRY
INVESTMENT CO., LTD, No. 215, 2nd Floor, Research And Development Building, No.220 Dongcheng Avenue,
Wuhan Economic And Technological Development, Wuhan, People's Republic of China ~72: CHEN,
Yanping;HUO, Peishu;TANG, Dingding;XIA, Yunfeng;ZHAN, De;ZHAO, Huang;ZHENG, Bijuan;ZHOU, YAN~
33:CN ~31:202010575152.X ~32:22/06/2020

2022/09844 ~ Complete ~54:A SINGLE LAYER CHEWABLE TABLET COMPRISING CETIRIZINE ~71:Johnson & Johnson Consumer Inc., 199 Grandview Road, SKILLMAN 08558, NJ, USA, United States of America ~72: WALDMAN, Joel H.~ 33:US ~31:62/969,357 ~32:03/02/2020

2022/09799 ~ Provisional ~54:OPTIMISED CARDBOARD SIX-PACK PACKAGING ~71:Martin Hempel, Endeavour Farm, South Africa ~72: Martin Hempel~

2022/09812 ~ Complete ~54:A CONSTRUCTION METHOD FOR IMPROVING ANTI-OVERTURNING BEARING CAPACITY OF CONCRETE CURVED BEAM BRIDGE ~71:China Railway 23rd Bureau Group No.1 Engineering Co., Ltd, No. 65, Huanghai 2nd Road, Donggang District, Rizhao City, Shandong Province, People's Republic of China;Fuzhou University, No. 1, Shuicheng Road, Jinjing Town, Jinjiang City, Fujian Province, People's Republic of China ~72: Gu Yin;Huang Xinyi;Rao Chengzhi;Sun Yaqi;Sun Yin;Zhuo Weidong~

2022/09823 ~ Complete ~54:CONTROLLED RELEASE FORMULATIONS COMPRISING DROTAVERINE OR SALT THEREOF ~71:BERLIA, Sushma Paul, S-361, Panchsheel Park, Outer Ring Road, India ~72: BERLIA, Nishant;BERLIA, Sushma Paul;BHANDARI, Sunder Singh;DIWAN, Anupama;SINGH, Gurvinder~ 33:IN ~31:202011010072 ~32:09/03/2020

2022/09825 ~ Complete ~54:PREPARATION METHOD FOR ANTIBODY MEDICAMENT CONJUGATE ~71:JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., No. 7 Kunlunshan Road, Economic and Technological Development Zone, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing Road, People's Republic of China ~72: LIANG, Zhi;LIN, Wenfeng;LIU, Xun;SHI, Ruijun~ 33:CN ~31:202010219311.2 ~32:25/03/2020;33:CN ~31:202110297397.5 ~32:19/03/2021

2022/09829 ~ Complete ~54:PYRIDAZINE DERIVATIVES FOR MODULATING NUCLEIC ACID SPLICING ~71:REMIX THERAPEUTICS INC., One Kendall Square Building 600, 4th Floor Cambridge, Massachusetts, 02139, United States of America ~72: ALLEN T HOPPER;ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;MICHAEL WALKER SEILER;PETER SMITH~ 33:US ~31:62/983,537 ~32:28/02/2020;33:US ~31:63/007,134 ~32:08/04/2020;33:US ~31:63/040,474 ~32:17/06/2020;33:US ~31:63/072,781 ~32:31/08/2020;33:US ~31:63/126,491 ~32:16/12/2020

2022/09831 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING SPLICING ~71:REMIX THERAPEUTICS INC., One Kendall Square Building 600, 4th Floor Cambridge, Massachusetts, 02139, United States of America ~72: ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;MICHAEL WALKER SEILER;PETER SMITH~ 33:US ~31:62/983,541 ~32:28/02/2020;33:US ~31:63/007,333 ~32:08/04/2020;33:US ~31:63/040,484 ~32:17/06/2020;33:US ~31:63/072,790 ~32:31/08/2020;33:US ~31:63/126,492 ~32:16/12/2020

2022/09802 ~ Provisional ~54:REMOTE ROCK ANCHOR SYSTEM AND METHOD ~71:JACOBS, Arno, 9 Valk St, South Africa ~72: JACOBS, Arno~

2022/09804 ~ Complete ~54:METHOD FOR EXPLORING MIGRATION AND TRANSFORMATION OF HEAVY METALS IN MULTIMEDIA ENVIRONMENT ~71:Northwest Institute of Plateau Biology, Chinese Academy of Sciences, No. 23, Xinning Road, Chengxi District, Xining City, Qinghai Province, 810008, People's Republic of China;Ocean University of China, No. 238 Songling Road, Laoshan District, Qingdao City, Shandong Province, 266100, People's Republic of China ~72: CHAO, Le;CHEN, Dongdong;CHEN, Xin;HE, Fuquan;HUO, Lili;KANG, Bin;LI, Qi;LUO, Caiyun;MA, Shisheng;PAN, Sichen;SHU, Min;SUN, Jiachen;ZHANG, Li;ZHANG, Yukun;ZHAO, Liang;ZUO, Chao~

2022/09818 ~ Complete ~54:IMPACT OF SPIRITUAL INTELLIGENCE AND EMOTIONAL INTELLIGENCE ON DECISION MAKING AND LIFE SATISFACTION ~71:Dr. Jyotiranjana Gochhayat, Assistant Professor, KIIT School

of Rural Management, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India; Kalinga Institute of Industrial Technology (KIIT), OF: Deemed to be University, KIIT Road, Patia, Bhubaneswar, India; Prof. Sasmita Rani Samanta, Vice Chancellor, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India ~72: Dr. Jyotiranjan Gochhayat; Prof. Sasmita Rani Samanta~

2022/09832 ~ Complete ~54: COMPOUNDS AND METHODS FOR MODULATING SPLICING ~71: REMIX THERAPEUTICS INC., One Kendall Square Building 600, 4th Floor Cambridge, Massachusetts, 02139, United States of America ~72: ALLEN T HOPPER; ANANT A AGRAWAL; DOMINIC REYNOLDS; FREDERIC VAILLANCOURT; MICHAEL WALKER SEILER; PETER SMITH~ 33: US ~31: 62/983,539 ~32: 28/02/2020; 33: US ~31: 63/007,145 ~32: 08/04/2020; 33: US ~31: 63/040,477 ~32: 17/06/2020; 33: US ~31: 63/072,919 ~32: 31/08/2020; 33: US ~31: 63/126,324 ~32: 16/12/2020

2022/09838 ~ Complete ~54: SEPARATE QUALITY AND DISTRICT CSO REGULATION AND STORAGE PURIFICATION SYSTEM AND PURIFICATION METHOD ~71: CHINA CONSTRUCTION THIRD BUREAU GREEN INDUSTRY, No. 70, Chuangye Road, Wuhan Economic Development Zone, Wuhan, People's Republic of China ~72: GONG, Jie; HUO, Peishu; LIU, Jun; PENG, Guanping; TANG, Dingding; WU, Zhiyan; ZHANG, Shixiong; ZHU, Feilong~ 33: CN ~31: 202011054885.5 ~32: 28/09/2020

2022/09851 ~ Provisional ~54: THE DEVELOPMENT AND VALIDATION OF A LATERAL FLOW ASSAY/RAPID DIAGNOSTIC URINE TEST TARGETING STAGE-SPECIFIC BREAST CANCER URINARY MARKER MAST4, FOR EARLY DETECTION OF BREAST CANCER IN FEMALES ~71: LARRY PETER VAN VUUREN, 62 SAYSTER STREET SALSONEVILLE,, South Africa ~72: LARRY PETER VAN VUUREN~

- APPLIED ON 2022/09/05 -

2022/09861 ~ Complete ~54: PREPARATION METHOD OF RECOMBINANT PORCINE PSEUDORABIES VIRUS (PRV) STRAIN EXPRESSING PORCINE CIRCOVIRUS TYPE II (PCV2) ORF2 GENE ~71: Henan Agricultural University, No. 95, Wenhua Road, Zhengzhou City, Henan Province, 450000, People's Republic of China ~72: CHEN, Hongying; JIA, Yunfei; WEI, Zhanyong; ZHENG, Lanlan; ZHU, Qianlei~

2022/09872 ~ Complete ~54: DROPLET DIGITAL PCR FLUORESCENCE ACQUISITION SYSTEM BASED ON MECHANICAL MOTION ~71: Fuzhou University, Fuzhou University, No.2 Wulongjiangbei Avenue, Fuzhou University Town, Minhou County, Fuzhou City, Fujian Province, People's Republic of China ~72: DONG Hui; JIA Yuan; LI Haichao; MO Jin; SUN Hao; XIE Wantao~

2022/09877 ~ Complete ~54: CLOUD BASED INTEGRATION OF HEALTH CARE SERVICES SYSTEM ~71: Dr. Manish Kumar Thimmaraju, Head of the Department, Pharmaceutical Analysis, Balaji Institute of Pharmaceutical Sciences, Narsampet, Warangal, India; Dr. Raghava Doonaboyina, Professor & Principal, KGRL College of Pharmacy, Bhimavaram, West Godavari, India; Dr. Shailee Vijay Tiwari, Professor & Principal, Prayag Kunj, Near Pardeshwar Mandir, Parbhani, India; Dr. Sridhar Babu Gummadi, Professor & Principal, Sri Shivani College of Pharmacy, Doctor's colony, Near Mulugu Road, Warangal, India; Mrs. Divya Pingili, Associate Professor, Sri Venkateswara College of Pharmacy, Madhapur, Hyderabad, India ~72: Dr. Manish Kumar Thimmaraju; Dr. Raghava Doonaboyina; Dr. Shailee Vijay Tiwari; Dr. Sridhar Babu Gummadi; Mrs. Divya Pingili~

2022/09881 ~ Complete ~54: AN EXOSOME-RICH HEMOFIBRIN-BASED GEL AND ITS PREPARATION METHOD ~71: BEIJING TECHNOLOGY AND BUSINESS UNIVERSITY, No. 33 Fucheng Road, Haidian District, People's Republic of China; HENAN HUAYING AGRICULTURAL DEVELOPMENT CO., LTD., No. 1 Gongye Avenue, Industrial Cluster Area, Huangchuan County, People's Republic of China; NINGBO UNIVERSITY, No. 818 Fenghua Road, Jiangbei District, Ningbo City, People's Republic of China ~72: CAO, Jinxuan; LI, Chunbao; LI, Xiaocun; PAN, Daodong; SUN, Baoguo; WANG, Ying; ZHANG, Yuemei; ZHOU, Changyu; ZHOU, Guanghong~

2022/09886 ~ Complete ~54:WATER HEATER PROVIDED WITH AN IMPROVED FLANGE SUITABLE FOR SUPPORTING AT LEAST ONE HEATING DEVICE ~71:Ariston S.p.A., Viale Aristide Merloni, 45, FABRIANO 60044, (AN), ITALY, Italy ~72: PRASAD, Nithesh;SAMPAOLESI, Marco;SERAFINI, Lorenzo~

2022/09896 ~ Complete ~54:SULFONAMIDE OR SULFINAMIDE COMPOUND HAVING EFFECT OF INDUCING BRD4 PROTEIN DEGRADATION AND PHARMACEUTICAL USE THEREOF ~71:MITSUBISHI TANABE PHARMA CORPORATION, 3-2-10, Dosho-machi, Chuo-ku, Osaka-shi, Osaka, 5418505, Japan ~72: KIYOMI OHBA;MAIKO HAMADA;RYUTA YAMAZAKI;TATSUYA IBUKI;TETSUJI MATSUDAIRA;YASUKI NIWA~ 33:JP ~31:2020-019227 ~32:06/02/2020

2022/09901 ~ Complete ~54:DRUG COMBINATIONS FOR INHIBITING INFLAMMATION AND SRC KINASE ACTIVATION FOLLOWING INVASIVE SURGICAL PROCEDURES ~71:Sintetica S.A., Via Penate 5, MENDRISIO 6850, SWITZERLAND, Switzerland ~72: BERGEAT, Alain;DONATI, Elisabetta;MITIDIERI, Augusto;VENTURI, Miro;VOTTA-VELIS, E. Gina~ 33:US ~31:62/985,962 ~32:06/03/2020

2022/09884 ~ Complete ~54:VEHICLE DOOR OPENING SIGNAL INDICATING SYSTEM ~71:Hunan University of Science and Technology, No.2, Taoyuan Road, Yuhu District, Xiangtan, Hunan, 411201, People's Republic of China ~72: Jun Fang;Wentao Yang;Yongshun Han;Zhensheng Yang~

2022/09899 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PRODUCTION OF GLUCOSE OXIDATION PRODUCTS ~71:SOLUGEN, INC., 14549 Minetta Street, Houston, Texas, 77035-6523, United States of America ~72: BRIAN F FISHER;GAURAB CHAKRABARTI;SARAH DOWNING;SEAN HUNT;SHUAI QIAN;TONI M LEE~ 33:US ~31:62/986,447 ~32:06/03/2020

2022/09864 ~ Complete ~54:LASER WELDING EQUIPMENT AND LASER WELDING METHOD FOR INSERTING CONNECTING MATERIAL FOR WELDING ~71:Shenzhen Chengruixing Laser Technology Co., Ltd., Room 502, Building 6, Wanyan Industrial Zone, Qiaotou Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Xiong Fumei~ 33:CN ~31:202210210855.1 ~32:04/03/2022

2022/09866 ~ Complete ~54:MEASUREMENT TECHNOLOGY OF GROUNDWATER RECHARGE IN ARID AREA COMBINING VARIOUS TECHNOLOGIES ~71:XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY CHINESE ACADEMY OF SCIENCES, 818 Beijing South Road, Xinshi District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China;Xinjiang University, 666 Shengli Road, Tianshan District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: CHEN Yaning;WANG Wanrui;WANG Weihua;YANG Yuhai~

2022/09875 ~ Complete ~54:HELICAL SILICON DRIFT DETECTOR AND DESIGN METHOD THEREOF ~71:Ludong University, No. 186, Hongqi Middle Road, Zhifu District, Yantai City, Shandong Province, People's Republic of China ~72: Cai Xinyi;Li Xiaodan;Li Xinqing;Li Zheng;Sun Jiaxiong;Tan Zewen~

2022/09880 ~ Complete ~54:AN IOT BASED SMART FARMING MANAGEMENT SYSTEM IN THE STATE OF ODISHA ~71:Dr. Pradeep Kumar Mallick, Associate Professor, School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. Arun Kumar Ray, Director (Academics), Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. Sasmita Rani Samanta, Vice Chancellor, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India ~72: Dr. Pradeep Kumar Mallick;Prof. Arun Kumar Ray;Prof. Sasmita Rani Samanta~

2022/09898 ~ Complete ~54:FULLY SYNTHETIC, LONG-CHAIN NUCLEIC ACID FOR VACCINE PRODUCTION TO PROTECT AGAINST CORONAVIRUSES ~71:ROCKETVAX AG, c/o Swiss Rockets AG Ritttergasse 3, 4051, Basel, Switzerland ~72: MATTHIAS CHRISTEN~ 33:EP ~31:20020092.1 ~32:03/03/2020;33:EP ~31:20020240.6 ~32:20/05/2020

2022/09853 ~ Provisional ~54:GLUED SIX-PACK PACKAGING ~71:Martin Hempel, Endeavour Farm, South Africa ~72: Martin Hempel~

2022/09857 ~ Provisional ~54:METHOD OF MANAGING A BLASTING SYSTEM ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: LIEBENBERG Abrie;MEYER Tielman~

2022/09859 ~ Complete ~54:PREPARATION METHOD OF Y2O3-MGO INFRARED TRANSPARENT CERAMIC MATERIAL ~71:Zhengzhou University of Aeronautics, No.2, Daxue Middle Road, Erqi District, Zhengzhou, Henan, 450015, People's Republic of China ~72: An, Li'nan;Fan, Lei;Guo, Xiaoqin;He, Junlin;Li, Zhaosheng;Wang, Shuxia;Yang, Shoulei;Zhang, Mengwen~

2022/09868 ~ Complete ~54:SAFETY INSPECTION SYSTEM AND METHOD FOR AQUACULTURE WORK BOAT OPERATING PERSONNEL ~71:Fishery Machinery and Instrument Research Institute, Chinese Academy of Fishery Sciences, No. 63, Chifeng Road, Siping Street, Yangpu District, Shanghai, 200092, People's Republic of China ~72: CUI, Mingchao;LI, Jianxun;WANG, Jing~ 33:CN ~31:202210145981.3 ~32:17/02/2022

2022/09871 ~ Complete ~54:SHIP BREEDING TANK WITH OPTIMIZED STRUCTURE FOR HIGH SPACE UTILIZATION ~71:Fishery Machinery and Instrument Research Institute, Chinese Academy of Fishery Sciences, No. 63, Chifeng Road, Siping Street, Yangpu District, Shanghai, 200092, People's Republic of China ~72: CUI, Mingchao;WANG, Jing;ZHAO, Xinying~

2022/09873 ~ Complete ~54:TURBOT OFFSHORE THREE-DIMENSIONAL AQUACULTURE UNIT ~71:Fishery Machinery and Instrument Research Institute, Chinese Academy of Fishery Sciences, No. 63, Chifeng Road, Siping Street, Yangpu District, Shanghai, 200092, People's Republic of China ~72: HUANG, Wenyun;ZHANG, Chuntao;ZHANG, Yaoming~ 33:CN ~31:202210133470.X ~32:14/02/2022

2022/09876 ~ Complete ~54:HIGH-CONCENTRATION FINE FRACTION TAILINGS DEEP CONE THICKENER ~71:Backfill Engineering Laboratory, Shandong Gold Mining Technology Co., Ltd., Jiaojia Village, Jincheng Town, Laizhou City, Yantai City,, Shandong Province,, 261441, People's Republic of China;Shandong Gold Mining Technology Co., Ltd., No. 2503, Jingshi Road, Licheng District, Jinan City,, Shandong Province,, 250002, People's Republic of China ~72: Gengjie Zhu;Guangbo Li;Haibo Jia;Jianzhe Liu;Jiaren Guo;Jiguang Yang;Laifa Sang;Shiqun Xu;Xiaodong Jing;Yuhang Sheng;Yuliang Wang;Yunpeng Kou;Zaihai Wu;Zengjia Wang;Zepu Song;Zhaojun Qi~ 33:CN ~31:202110781376.0 ~32:11/07/2021

2022/09900 ~ Complete ~54:IGG VARIANTS FOR INDUCTION OF IMMUNE RESPONSE WITHOUT ADJUVANT ~71:Arizona Board of Regents on behalf of Arizona State University, SkySong, 1475 N. Scottsdale Rd., Suite 200, SCOTTSDALE 85257, AZ, USA, United States of America ~72: DIAMOS, Andrew;MASON, Hugh;PARDHE, Mary~ 33:US ~31:62/980,012 ~32:21/02/2020

2022/09904 ~ Complete ~54:IMMUNE ACTIVATING FC DOMAIN BINDING MOLECULES ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: AMANN, Maria;BRANSI, Ali;CARPY GUTIERREZ CIRLOS, Alejandro;CLAUS, Christina;CODARRI DEAK, Laura;DAROWSKI, Diana;FAUTI, Tanja;FERRARA KOLLER, Claudia;FREIMOSER-GRUNDSCHOBBER, Anne;HERTER, Sylvia;HOFER, Thomas;KLEIN, Christian;LAUENER, Laura;LECLAIR, Stephane;MOESSNER,

Ekkehard;NEUMANN, Christiane;SUR#211;WKA, Marlana;UMA#209;A, Pablo~ 33:EP ~31:20181087.6 ~32:19/06/2020

2022/09855 ~ Provisional ~54:SPRAY BOTTLE SUCTION STRAW DEVICE ~71:Stephan Pretorius, 1035 Fish Eagle Street, South Africa ~72: Susan Pretorius~

2022/09887 ~ Complete ~54:CRUSHING DEVICE WITH LARGE-VOLUME CONCRETE AGGLOMERATION SCREENING AND CRUSHING FUNCTIONS ~71:China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., Room 2407-08, Chuangtou Mansion, No. 9 Tengfei Road, SHENZHEN 518100, LONGGANG DISTRICT, CHINA (P.R.C.), People's Republic of China;The First Construction Engineering Company Ltd. of China Construction Second Engineering Bureau, 165 Haihutun, Yongdingmenwai, BEIJING 100176, FENGTAI DISTRICT, CHINA (P.R.C.), People's Republic of China ~72: HUANG, Bo;LIU, Ziqiang;LONG, Jiayu;PAN, Yangming~ 33:CN ~31:202210610087.9 ~32:31/05/2022

2022/09890 ~ Complete ~54:AGRICULTURAL SAMPLING SYSTEM AND RELATED METHODS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HARMAN, Reid;O#39;NEALL, Matthew~ 33:US ~31:63/017,789 ~32:30/04/2020;33:US ~31:63/017,840 ~32:30/04/2020;33:US ~31:63/018,120 ~32:30/04/2020;33:US ~31:63/018,153 ~32:30/04/2020

2022/09894 ~ Complete ~54:COMPOUNDS FOR TARGETED DEGRADATION OF BRD9 ~71:C4 THERAPEUTICS, INC., 490 Arsenal Way, Suite 120, Watertown, Massachusetts, 02472, United States of America ~72: CHRISTOPHER G NASVESCHUK;GESINE KERSTIN VEITS;JEREMY L YAP;KATRINA L JACKSON;MOSES MOUSTAKIM;NING YIN;RHAMY ZEID~ 33:US ~31:62/985,774 ~32:05/03/2020;33:US ~31:63/061,659 ~32:05/08/2020

2022/09903 ~ Complete ~54:COMPUTER ENHANCED SAFETY SYSTEM ~71:Sandvik Ltd, T/A Sandvik Mining & Rock Technology, 2 Tullyvannon Road, Ballygawley, DUNGANNON BT70 2HW, UNITED KINGDOM, United Kingdom ~72: FORREST, Patrick;GRAYDON, Stuart~

2022/09905 ~ Complete ~54:COMBINATION THERAPY COMPRISING AXL/MER AND PD-1/PD-L1 INHIBITORS ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: KOBLISH, Holly K.;RIOS-DORIA, Jonathan~ 33:US ~31:62/986,482 ~32:06/03/2020

2022/09908 ~ Complete ~54:A BUCKET AND A GROUND MOVING APPARATUS INCLUDING THE BUCKET ~71:AUSTIN ENGINEERING LTD, 100 Chisholm Crescent, Australia ~72: GREESHAW, Lyndon Brian;HALL, Jamie Vincent Clarke~ 33:AU ~31:PCT/AU2017/050483 ~32:23/05/2017

2022/09862 ~ Complete ~54:AN INTELLIGENT SUSPENSION CONVEYING SYSTEM WITH GAS CONVEYING DEVICE FOR GRANULAR PLASTIC PROCESSING ~71:Shenzhen Yuanfan Plastic Products Co., Ltd., South 3rd Floor, No. 8 Yueming Street, Guantian Community, Shiyan Street, Baoan District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Lai Xinhua~ 33:CN ~31:202210403156.9 ~32:18/04/2022

2022/09869 ~ Complete ~54:METHOD FOR PREPARING DIMETHOXYDOPA ~71:Shandong Holly Pharmaceutical Co.,Ltd, No. 99, Wutong 9th Road, Binbei Office, Bincheng District, Binzhou City, Shandong Province, 256651, People's Republic of China ~72: GAI, Shuqiang;LI, Lanhua;LIU, Zhiyuan;QIU, Yuenan;SUN, Kuankuan;WU, Huaqiang;XUE, Yanjun~

2022/09882 ~ Complete ~54:METHOD AND SYSTEM FOR PREDICTING SHORT TERM TRAFFIC FLOW OF SECTORS ~71:Nanjing University of Aeronautics and Astronautics, No. 29, Yudao Street, Qinhuai District, Nanjing, Jiangsu, 210007, People's Republic of China ~72: Gang Zhong;Hao Liu;Honghai Zhang;Junqiang Wan;Weikai Song~

2022/09893 ~ Complete ~54:APPARATUS AND METHOD FOR RENDERING A SOUND SCENE COMPRISING DISCRETIZED CURVED SURFACES ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BORSS, Christian;WEFERS, Frank~ 33:EP ~31:20163151.2 ~32:13/03/2020

2022/09902 ~ Complete ~54:METHODS OF SLOWING BRAIN VOLUME LOSS ~71:Actelion Pharmaceuticals Ltd, Gewerbestrasse 16, ALLSCHWIL 4123, SWITZERLAND, Switzerland ~72: BURCKLEN, Michel;HENNESSY, Brian;KRACKER, Hilke;LINSCHIED, Philippe;SIDORENKO, Tatiana~ 33:US ~31:62/986171 ~32:06/03/2020

2022/09865 ~ Complete ~54:TURN-BACK RUNNING TEST SYSTEM AND TESTING METHOD ~71:Shenyang University of Technology, No.111 Shenliao West Road, Shenyang Economic and Technological Development Zone, Shenyang City, Liaoning Province, People's Republic of China ~72: CHEN Ruoyu;CHEN Ziqiang;GUO Hui;LIU Bo;LIU Shimeng;LIU Yunting;MA Yaning;REN Huadong;ZHANG Haiming;ZHAO Meng~

2022/09870 ~ Complete ~54:HIGH-STRENGTH, TYPHOON-RESISTANT, AUTOMATED MARINE PASTURE BREEDING PLATFORM ~71:Fishery Machinery and Instrument Research Institute, Chinese Academy of Fishery Sciences, No. 63, Chifeng Road, Siping Street, Yangpu District, Shanghai, 200092, People's Republic of China ~72: LIU, Hewei;LIU, Ping;WANG, Jing~

2022/09874 ~ Complete ~54:CT GUIDED PUNCTURE POSITIONING GRID FOR EASY POSITIONING ~71:The Third Affiliated Hospital of Shandong First Medical University(Affiliated Hospital of Shandong Academy of Medical Sciences), No. 38, WuYingShan Road, Tianqiao District, Jinan City, Shandong Province, People's Republic of China ~72: Li Shancheng;Wang Jian;Wen Lijuan;Xu Zhongfa;Zhang Xikun;Zhong Feng~ 33:CN ~31:202220313571.0 ~32:16/02/2022

2022/09879 ~ Complete ~54:DOUBLE RBF KERNEL-BASED DEEP SAMPLING WITH CNNs TO HANDLE COMPLEX IMBALANCED DATASETS ~71:Dr. Jyotiranjana Gochhayat, Assistant Professor, KIIT School of Rural Management, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Dr. Pradeep Kumar Mallick, Associate Professor, School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Ms. Subhashree Rout, Research Scholar, School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. (Dr.) Sasmita Rani Samanta, Vice Chancellor, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India ~72: Dr. Jyotiranjana Gochhayat;Dr. Pradeep Kumar Mallick;Ms. Subhashree Rout;Prof. (Dr.) Sasmita Rani Samanta~

2022/09885 ~ Complete ~54:PREPARATION METHOD OF ASYMMETRIC CAPACITOR ELECTRODE MATERIAL ~71:Anhui Polytechnic University, Beijing Middle Road, Jiujiang District, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: Tong Wu;Wenrui Wu;Xianfu Li;Xing Wang;Yujie Li~

2022/09888 ~ Complete ~54:GENE FOR CONTROLLING THE SIZE OF PLANT PETAL AND USE THEREOF ~71:Shenzhen Fairy Lake Botanical Garden, Xianhu Rd. 160, Luohu District, People's Republic of China ~72: LI, Lingfei;LI, Na;REN, Guiping~

2022/09891 ~ Complete ~54:BCL-2 INHIBITOR ~71:BEIGENE, LTD., c/o Mourant Ozannes Corporate Services (Cayman) Limited, 94 Solaris Avenue, Camana Bay, Cayman Islands ~72: GUO, Yunhang;WANG, Zhiwei;XUE, Hai~ 33:CN ~31:PCT/CN2020/084992 ~32:15/04/2020;33:CN ~31:PCT/CN2020/100472 ~32:06/07/2020;33:CN ~31:PCT/CN2020/125580 ~32:30/10/2020;33:CN ~31:PCT/CN2021/075831 ~32:07/02/2021;33:CN ~31:PCT/CN2021/086189 ~32:09/04/2021

2022/09895 ~ Complete ~54:RECOMBINANT POXVIRUS BASED VACCINE AGAINST SARS-COV-2 VIRUS ~71:THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, Suite 4000, 10230 Jasper Avenue, Edmonton, Alberta, T5J 4P6, Canada;TONIX PHARMA LIMITED, No. 56 Fitzwilliam Square North, Dublin 2, D02 X224, Ireland ~72: DAVID EVANS;RYAN NOYCE;SCOTT J GOEBEL;SETH LEDERMAN~ 33:US ~31:62/981,997 ~32:26/02/2020;33:US ~31:63/114,514 ~32:16/11/2020

2022/09858 ~ Provisional ~54:GEOGRAPHICAL COMMUNITY ENVIRONMENTAL SCANNER ~71:NQUAMO (PTY) LTD., 13 Gordonstoun, Gordon Road, BERGBRON 1709, Gauteng, SOUTH AFRICA, South Africa ~72: BASSED, Philistas Jane~

2022/09860 ~ Complete ~54:VIRUS-LIKE PARTICLE (VLP), AND PREPARATION METHOD AND USE THEREOF ~71:LANZHOU VETERINARY RESEARCH INSTITUTE, CHINESE ACADEMY OF AGRICULTURAL SCIENCES, No. 1 Xujiaping, Yanchangbao, Lanzhou City, Gansu Province, 730046, People's Republic of China ~72: BAI, Manyuan;DING, Yaozhong;DONG, Hu;FENG, Xia;GUO, Huichen;HE, Rongze;MU, Suyu;SUN, Shiqi;WU, Jin~33:CN ~31:202111641645.X ~32:29/12/2021

2022/09863 ~ Complete ~54:AN AUTOMATIC THREE-DIMENSIONAL WAREHOUSE WITH SPIRAL CHUTE ~71:Nong shuhua, No. 83, Baizhu Natural Village, Wanfu Town, Ji~33:CN ~31:202210457974.7 ~32:27/04/2022

2022/09867 ~ Complete ~54:VEHICLE ENERGY-FEEDING TYPE INTELLIGENT SUSPENSION BASED ON 2-DOF PARALLEL MECHANISM ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No.777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, 266520, People's Republic of China ~72: LI, Xiaogang;LI, Yang;LIU, Jiang;LIU, Jianze;QU, Zhaole;WEI, Yunling~ 33:CN ~31:202111310461.5 ~32:05/11/2021

2022/09878 ~ Complete ~54:A TUNED WHALE OPTIMIZATION BASED STACKED-LSTM NETWORK FOR DIGITAL IMAGE SEGMENTATION ~71:Dr. Jyotiranjana Gochhayat, Assistant Professor, KIIT School of Rural Management, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Dr. Pradeep Kumar Mallick, Associate Professor, School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. (Dr.) Sasmita Rani Samanta, Vice Chancellor, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India ~72: Dr. Jyotiranjana Gochhayat;Dr. Pradeep Kumar Mallick;Prof. (Dr.) Sasmita Rani Samanta~

2022/09883 ~ Complete ~54:MULTI-FLIGHT 4D TRAJECTORY COLLABORATIVE OPTIMIZATION METHOD ~71:Nanjing University of Aeronautics and Astronautics, No. 29, Yudao Street, Qinhuai District, Nanjing, Jiangsu, 210007, People's Republic of China ~72: Gang Zhong;Honghai Zhang;Jia Yi;Jinlun Zhou;Wenquan Liu~

2022/09892 ~ Complete ~54:CABIN FOR EPIDEMIC PREVENTION AND CONTROL DETECTION AND PRELIMINARY VIRUS SCREENING ~71:FU, Jinting, No.94, Hanghai Middle Road, Erqi District, Zhengzhou, Henan, 450000, People's Republic of China;LI, Juxuan, No.94, Hanghai Middle Road, Erqi District, Zhengzhou, Henan, 450000, People's Republic of China;WANG, Ang, No.94, Hanghai Middle Road, Erqi District, Zhengzhou, Henan, 450000, People's Republic of China ~72: FU, Jinting;LI, Juxuan;WANG, Ang~ 33:CN ~31:202010152015.5 ~32:06/03/2020

2022/09897 ~ Complete ~54:METHOD FOR PRODUCING A FOOD PRODUCT ~71:PLANTED FOODS AG, Kemptpark 32, 8310, Kemptthal, Switzerland ~72: JUDITH WEMMER;LUKAS JOHANNES B~33:IB ~31:PCT/IB2020/052047 ~32:10/03/2020

2022/09854 ~ Provisional ~54:COUNTER TOP REFLUX DISTILLATION APPLIANCE. ~71:Maylene Henning, 175/1 Buffels Drift, Drummond, South Africa ~72: Maylene Henning;Petrus Lafras Henning~

2022/09856 ~ Provisional ~54:UNDERWEAR ~71:Abdool Rehman Ismail KADER, 139 Warangal Road, South Africa ~72: KADER, Abdool Rehman Ismail~

- APPLIED ON 2022/09/06 -

2022/09910 ~ Complete ~54:SUPPLEMENTARY FEEDING FENCE DEVICE FOR POSTPARTUM COW ~71:Beijing Eastern Bell Technology Group, 21-D, Building 2, No. 2, Shangdi Xinx Road, Haidian District, Beijing, 100085, People's Republic of China;Tianjin Agricultural University, No. 22, Jinjing Road, Xiqing District, Tianjin, 300380, People's Republic of China ~72: DONG, Yinxi;LIU, Weidong;TIAN, Yujia;WANG, Yuxin;ZHANG, Xuewei~ 33:CN ~31:20220498350.5 ~32:09/03/2022

2022/09914 ~ Complete ~54:SYSTEM AND METHOD FOR FACILITATING CIGARETTE SALES AND CIGARETTE TRACKING ~71:K61 BLAZER INVESTMENTS (PTY) LTD, 37 Rae Frankel Street, Brackenhurst, South Africa ~72: PHILLIPS, Kyle~ 33:ZA ~31:2022/07286 ~32:01/07/2022

2022/09926 ~ Complete ~54:TIRE SUPPORT DEVICE ~71:METADATIA TECHNOLOGIES S.L., C/ Ramón y Cajal, 41 Planta 1, Local 5 - Parque Empresarial del Elche, Spain ~72: LLOMBART GAVALDA, Juan José;MARTÍNEZ ALEJO, Juan~ 33:ES ~31:20382185.5 ~32:12/03/2020

2022/09906 ~ Provisional ~54:SPARE WHEEL CARRIER ~71:CONTRANSMATIC CC, 18-20 Circuit Road, Westmead, Pinetown, South Africa ~72: COLEPEPER, Andrew James~

2022/09918 ~ Complete ~54:A METHOD FOR ANALYSIS LEADERSHIP APPROACH ~71:Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. Sasmita Rani Samanta, Vice Chancellor, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India ~72: Prof. Sasmita Rani Samanta~

2022/09923 ~ Complete ~54:EXTERNAL PRESTRESS STRENGTHENING SYSTEM OF PRESTRESSED CONCRETE CYLINDER PIPE AND CONSTRUCTION METHOD THEREOF ~71:China Institute of Water Resources and Hydropower Research, 510 Building 15, Courtyard 20, Chegongzhuang West Road, Haidian District, Beijing, 100044, People's Republic of China ~72: Lijun Zhao;Tiesheng Dou~

2022/09928 ~ Complete ~54:PANEL AND METHOD FOR PRODUCING A PANEL ~71:CHAMPION LINK INTERNATIONAL CORPORATION, OMC Offices, Babrow Building, Anguilla ~72: BAERT, Thomas Luc Martine;BOON, Sven;VAN POYER, Tom~ 33:NL ~31:2025119 ~32:13/03/2020;33:NL ~31:2026795 ~32:30/10/2020

2022/09934 ~ Complete ~54:HUMAN ALPHA-GALACTOSIDASE VARIANTS ~71:CODEXIS, INC., 200 Penobscot Drive, Redwood City, California, 94063, United States of America ~72: ADAM P SILVERMAN;ANTOINETTE SERO;CHARU SHUKLA REDDY;CHINPING CHNG;DAVID WILLIAM HOMAN;JONATHAN VROOM;JUDY VICTORIA ANTONIO VIDUYA;KERRY MCCLUSKIE;KRISTEN JEAN VALLIEU;MOULAY HICHAM ALAOU I SMAILI;NIKKI DELLAS;RACHEL CATHLEEN BOTHAM;WILLIAM CASEY HALLOWS;YU ZHU~ 33:US ~31:62/982,949 ~32:28/02/2020

2022/09938 ~ Complete ~54:THE RAD51 INHIBITOR COMPOUND 67A (2301085-06-1) AT A SPECIFIC DOSAGE FOR TREATING CANCER ~71:CYTEIR THERAPEUTICS, INC., 128 Spring Street, Building A, Suite 510, United States of America ~72: BOWSER, Todd;LAPIERRE, Jean-Marc;MILLS, Kevin;O'SHEA,

Thomas;RENSCHLER, Markus~ 33:US ~31:62/984,765 ~32:03/03/2020;33:US ~31:63/148,683
~32:12/02/2021

2022/09912 ~ Complete ~54:LITHOLOGY ANALYSIS METHOD FOR MINERAL WATER-BEARING ROCK GROUP ~71:Bureau of Qinghai Environmental Geological Prospecting, NO.77 Haiyan Road, Chengxi District, Xining City, Qinghai Province, People's Republic of China;Qinghai 906 Engineering Survey and Design Institute Co., Ltd., NO.77 Haiyan Road, Chengxi District, Xining City, Qinghai Province, People's Republic of China;Qinghai Geological Survey, No.22 Shengli Road, Xining, Qinghai province, People's Republic of China;Qinghai Institute of Geological and Environmental Survey, NO.77 Haiyan Road, Chengxi District, Xining City, Qinghai Province, People's Republic of China ~72: CHEN Long;CHEN Xiaolin;DAI Shiwei;DONG Gaofeng;LIU Yi;QI Zexue;WANG Fenglin;WANG Mengyun;WANG Shengbin;WANG Wanping;XIE Zhenxing;ZHAO Shengjun~

2022/09916 ~ Complete ~54:PREPARATION METHOD OF GIANT SALAMANDER WINE ~71:Moutai Institute, Moutai Institute, Luban Avenue, Renhuai City, Zunyi City, Guizhou Province, People's Republic of China ~72: CHEN Juan;LIU Hong;LIU Lan;MA Lina;SU Hongliang;SUI Kunyu;YU Shirui;ZHANG Guoqiang~

2022/09925 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING POMPE DISEASE ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, Massachusetts, United States of America ~72: AN HAACK, Kristina;FINN, Patrick;WILSON, Catherine~ 33:US ~31:62/971,930 ~32:08/02/2020;33:US ~31:63/115,975 ~32:19/11/2020

2022/09927 ~ Complete ~54:CEREBRAL DURAL VENOUS SINUS STENT ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 12th Floor, United States of America ~72: AMANS, Matthew~ 33:US ~31:62/984,549 ~32:03/03/2020

2022/09936 ~ Complete ~54:PHARMACEUTICAL COMPOSITION CONTAINING REGORAFENIB AND A STABILIZING AGENT ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: HOHEISEL, Werner;MÜLLER, Martin Günter~ 33:EP ~31:20156003.4 ~32:07/02/2020

2022/09913 ~ Complete ~54:DIRECT SEEDING CULTIVATION METHOD OF MORCHELLA ESCULENTA LIQUID STRAIN ~71:Guizhou Gu Nonghui Technology Service Co., Ltd, In the Provincial Academy of Agricultural Sciences, Huaxi District, Guiyang City, Guizhou Province, People's Republic of China;Institute of Crop Germplasm Resources, Guizhou Academy of Agricultural Sciences, 13th floor, agricultural science and technology innovation building, Provincial Academy of Agricultural Sciences, Jinxin community, Huaxi District, Guiyang City, Guizhou Province, People's Republic of China ~72: Gong GuangLu;Hu TengWen;Peng Bin;Wang Qin;Yang Shan;Yang TongJing;Zhang Li~

2022/09917 ~ Complete ~54:SPECIAL BASE FERTILIZER, SPECIAL FRUIT-STRENGTHENING FERTILIZER AND FERTILIZATION METHODS FOR JINGGANG HONEY POMELO ~71:Jinggangshan Red Soil Research Institute (Jinggangshan branch of Jiangxi Academy of Agricultural Sciences), Jinggangshan agricultural science and Technology Park, No. 61, Xingqiao Town, Jizhou District, Ji'an City, Jiangxi Province, People's Republic of China;Soil and Fertilizer & Resources and Environmental Jiangxi Academy of Agricultural Sciences, No. 602, NANLIAN Road, Qingyunpu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: CaiFei Qiu;ChunRui Peng;GuoQiang Deng;JianHua Ji;Jiang Xie;Jin Chen;XiHuan Liang;XianJiao Guan;XianMao Chen;XingZhao Dai;YinFei Qian~

2022/09920 ~ Complete ~54:TRAVEL BOOKING AND MANAGING METHOD AND SYSTEM ~71:GRABA GLOBAL (PTY) LTD, 36 Allen Road, GLEN AUSTIN, Midrand 1685, Gauteng, SOUTH AFRICA, South Africa ~72: Charalambous, Dorin~ 33:ZA ~31:2021/04056 ~32:14/06/2021

2022/09922 ~ Complete ~54:SYSTEM AND PROCESS FOR DESULPHURISATION OF PYROLYSIS FEEDSTOCKS ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, South Africa ~72: DU PREEZ, Louis Jacobus;FARZAD, Somayeh;GÖRGENS, Johann Ferdinand;KNOETZE, Johannes Hendrik;STANDER, Adam Johannes~ 33:ZA ~31:2021/06492 ~32:06/09/2021

2022/09930 ~ Complete ~54:ARRANGEMENT, DRILL RIG AND METHOD THEREIN FOR DETECTION OF WATER IN MATERIAL FLOW ~71:EPIROC ROCK DRILLS AKTIEBOLAG, 701 91 Örebro, Sweden ~72: HARALD FRANZ ARNO MERKEL~ 33:SE ~31:2050420-5 ~32:14/04/2020

2022/09933 ~ Complete ~54:CORONAVIRUS VACCINES AND METHODS OF USE ~71:BIONTECH US INC., 40 Erie Street, Suite 110, Cambridge, Massachusetts, 02139, United States of America ~72: ASAF PORAN;CHRISTINA KUKSIN;DANIEL ABRAM ROTHENBERG;DEWI HARJANTO;JOHN SROUJI;LAKSHMI SRINIVASAN;RICHARD B GAYNOR~ 33:US ~31:62/992,666 ~32:20/03/2020;33:US ~31:63/026,559 ~32:18/05/2020;33:US ~31:63/059,582 ~32:31/07/2020;33:US ~31:63/086,519 ~32:01/10/2020;33:US ~31:63/122,904 ~32:08/12/2020

2022/09907 ~ Provisional ~54:CIRCLE OF LIFE RENEWABLE ENERGY POWER PLANT ~71:JJ Govender, 49 Allen Road, South Africa ~72: JJ Govender~

2022/09911 ~ Complete ~54:DYNAMIC MONITORING AND EARLY WARNING SYSTEM FOR DRINKING WATER SOURCES AREA ~71:Bureau of Qinghai Environmental Geological Prospecting, NO.77 Haiyan Road, Chengxi District, Xining City, Qinghai Province, People's Republic of China;Qinghai 906 Engineering Survey and Design Institute Co., Ltd., NO.77 Haiyan Road, Chengxi District, Xining City, Qinghai Province, People's Republic of China;Qinghai Geological Survey, No.22 Shengli Road, Xining, Qinghai province, People's Republic of China;Qinghai Institute of Geological and Environmental Survey, NO.77 Haiyan Road, Chengxi District, Xining City, Qinghai Province, People's Republic of China ~72: A Huijuan;CHAI Xiaoran;CHEN Long;KOU Haicong;LI Shangwei;QI Zexue;WANG Shengbin;WANG Wanping;WU Ping;YANG Shaokang;YANG Zhanmei;ZHANG Guoqiang~

2022/09915 ~ Complete ~54:METHOD FOR FEEDING COCCINELLA SEPTEMPUNCTATA L ADULTS WITH KINOPRENE ARTIFICIAL FEED ~71:Institute of Plant Protection, Guizhou Academy of Agricultural Sciences, In the Institute of Plant Protection, Guizhou Academy of Agricultural Sciences, Jinzhu Town, Huaxi District, Guiyang City, Guizhou, 550006, People's Republic of China ~72: CHENG, Ying;JIN, Jianxue;LI, Fengliang;LI, Hongbo;LI, Wenhong;ZHOU, Yuhang~

2022/09921 ~ Complete ~54:A SYSTEM FOR DETERMINING GROWTH OF MID PHALANX [MP3] STAGING IN A PATIENT AND A METHOD THEREOF ~71:Dr. Amit Bhawalkar, Assistant Professor, Government dental college and hospital, Mumbai, India;Dr. Dimple Padawe, Professor & Head of department Pediatric And preventive dentistry, Government dental college and hospital, Mumbai, India;Dr. Easwaran Ramaswami, Professor and Head of dept, oral medicine and radiology, Government dental college and hospital, Mumbai, India;Dr. Nimma Vijayalaxmi, Associate professor (dept of oral medicine and radiology), Government dental college and hospital, Mumbai, India;Dr. Prajwalit Kende, Associate Professor, Dept. of oral and maxillofacial surgery Government dental college and hospital, Mumbai, India;Dr. Vilas Takate, Associate Professor Dept of Pediatric And preventive dentistry, Government dental college and hospital, Mumbai, India;Rewant Chauhan, Student & Intern, Government dental college and hospital, Mumbai, India ~72: Dr. Amit Bhawalkar;Dr. Dimple Padawe;Dr. Easwaran Ramaswami;Dr. Nimma Vijayalaxmi;Dr. Prajwalit Kende;Dr. Vilas Takate;Rewant Chauhan~

2022/09924 ~ Complete ~54:DESIGNER EXTRACELLULAR VESICLES FOR TREATING EXCITOTOXICITY
~71:OHIO STATE INNOVATION FOUNDATION, 1524 North High Street, Columbus, Ohio, United States of
America ~72: GALLEG0-PEREZ, Daniel;HIGUITA-CASTRO, Natalia~ 33:US ~31:62/990,783 ~32:17/03/2020

2022/09929 ~ Complete ~54:METH0D FOR PRODUCING LOW-CARBON FERROMANGANESE ~71:JFE
MINERAL & ALLOY COMPANY, LTD., 8-2, Shiba 3-chome, Minato-ku, Tokyo, 1050014, Japan;JFE STEEL
CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 1000011, Japan ~72: IPPEI
HIGUCHI;NAOKI KIKUCHI;NOBUHIKO ODA;RYO KAWABATA;SHINGO SATO;TOSHIO SHIOTA;YUSUKE
FUJII~ 33:JP ~31:2020-038790 ~32:06/03/2020

2022/09931 ~ Complete ~54:SHINGLES VACCINES COMPRISING A TLR9 AGONIST ~71:DYNAVAX
TECHNOLOGIES CORPORATION, 2100 Powell Street, Suite 720, Emeryville, California, 94608, United States of
America ~72: DAVID NOVACK;JOHN D CAMPBELL;RANDALL N HYER;ROBERT S JANSSEN~ 33:US
~31:62/987,243 ~32:09/03/2020

2022/09932 ~ Complete ~54:GIF RECEPTOR AGONIST PEPTIDE COMPOUNDS AND USES THEREOF
~71:TAKEDA PHARMACEUTICAL COMPANY LIMITED, 1-1, Doshomachi 4-Chome Chuo-ku Osaka-shi, Osaka,
541-0045, Japan ~72: ANTOINE CHARLES OLIVIER HENNINOT;DEREK CECIL COLE;NICHOLAS SCORAH~
33:US ~31:62/994,721 ~32:25/03/2020

2022/09935 ~ Complete ~54:AREA VENTILATION DEVICES, SYSTEMS, AND METHODS ~71:Oy Halton Group
Ltd., Firdonkatu 2 T 146, Tripla - Workery West, HELSINKI 00520, FINLAND, Finland ~72: LIVCHAK, Andrey V.~
33:US ~31:62/984,868 ~32:04/03/2020

2022/09937 ~ Complete ~54:NOVEL ELECTROCHEMICAL CELLS, STACKS, MODULES AND SYSTEMS
~71:MACEDA, Joseph Peter, 300 Albany Street, Apt 7H, NEW YORK 10280, NY, USA, United States of America
~72: MACEDA, Joseph Peter~ 33:US ~31:62/975,231 ~32:12/02/2020

2022/09909 ~ Complete ~54:ASPHALT FLOATABILITY TEST DEVICE AND TEST METHOD THEREOF
~71:CHANGSHA UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 960, 2nd Section, Wanjiali South Road,
Tianxin District, Changsha, Hunan, 410114, People's Republic of China;GUANGXI RONGWU EXPRESSWAY
CO., LTD., No. 3 Jinbei Avenue, Teng County, Wuzhou, Guangxi, 543399, People's Republic of China;GUANGXI
TRANSPORTATION SCIENCE AND TECHNOLOGY GROUP CO., LTD, No. 158 Xinkang West Road, High-tech
Zone, Nanning, Guangxi, 530007, People's Republic of China ~72: HUANGFU, Youhui;LI, Ping;LIU,
Shende;PENG, Wenju;WANG, Dawei;WANG, Zihan;XIONG, Jianping;YI, Keliang;ZHANG, Honggang;ZHANG,
Yangpeng;ZHOU, Yuming~

2022/09919 ~ Complete ~54:SUPPORT FOR DRILLING AND BOLTING TOOL ~71:JOY GLOBAL
UNDERGROUND MINING LLC, 40 Pennwood Place, Suite 100, Warrendale, United States of America ~72:
HANNA, Peter;PLUMB, Daniel;TYLER, Callum~ 33:US ~31:63/241,517 ~32:07/09/2021

- APPLIED ON 2022/09/07 -

2022/09940 ~ Provisional ~54:NAIL BIN ~71:Johannes Mahlaola, 5523 Mokone Block, Stinkwater, South Africa
~72: Johannes Mahlaola~

2022/09982 ~ Complete ~54:VEHICLE AND MOBILE TERMINAL UTILIZED THEREFOR ~71:YAMAHA MOTOR
POWER PRODUCTS KABUSHIKI KAISHA, 200-1, Sakagawa, Kakegawa-shi, Shizuoka 4360084, Japan ~72:
NOBUYASU ARIMUNE~ 33:JP ~31:2020-021836 ~32:12/02/2020

2022/09948 ~ Complete ~54:A SHIELD-MACHINE PLANETARY REDUCER ~71:Zheng Zhou Research Institute of Mechanical Engineering CO.,LTD, No.149 Kexue Avenue, Hi-Tech Zone, Zhengzhou City, Henan Province, 450001, People's Republic of China;Zhongyuan University of Technology, NO.41 Zhongyuan Road (M), Zhengzhou City, Henan Province, 450007, People's Republic of China ~72: Bang,Pei;Hongyan,Zhao;Lubing,Shi;Shidang,Yan;Shipu,Wang;Weiwei,Miao;Youhua,Li;Zhongming,Liu~ 33:CN ~31:202210829014.9 ~32:15/07/2022

2022/09950 ~ Complete ~54:MOBILE VEHICLE-MOUNTED DEVICE FOR REGENERATING ACTIVATED CARBON ~71:Shandong Taiya Environmental Protection Technology Co., Ltd., Room 509, Gaoxin Building, west of the central sub-arterial road, north of Yuqing East Street, Weifang High-tech Zone, Shandong Province, 261000, People's Republic of China ~72: DONG, Shancheng;JIANG, Xiaolei;MA, Xiaolan~

2022/09984 ~ Complete ~54:A STABLE FOOD-GRADE MICROCAPSULE FOR THE DELIVERY OF UNSTABLE AND FOOD-INCOMPATIBLE ACTIVE INGREDIENTS TO FOOD PRODUCTS ~71:NUVERSIS LTD., Building 1, P.O.B. 90001, Tel Hai Industrial Park, 1220900 Upper Galilee, Israel ~72: EMMA KVITNITSKY;INNA LITINITSKY;IRENA PALUY;OLGA PRIVALOVA;RAM SNIR;SANAA MUSA;YEHOYADA BEERI~ 33:US ~31:62/983,919 ~32:02/03/2020

2022/09964 ~ Complete ~54:ACRYLIC MULTILAYER FOIL WITH IMPROVED MECHANICAL PROPERTIES AND A HIGH WEATHERING RESISTANCE ~71:RÖHM GMBH, DEUTSCHE-TELEKOM-ALLEE 9, 64295 DARMSTADT, GERMANY, Germany ~72: ENDERS, Michael;GROOTHUES, Herbert;GUÉNANTEN, Claude;HÄRING, Helmut;MUSCI, Girolamo;SEYOUN, Ghirmay;STRUWE, Kim~ 33:EP ~31:20157833.3 ~32:18/02/2020

2022/09976 ~ Complete ~54:STABLE SUSTAINED RELEASE THERAPEUTIC COMPOSITIONS IN APROTIC POLAR SOLVENTS AND METHODS OF MANUFACTURING THE SAME ~71:Xeris Pharmaceuticals, Inc., 180 N. LaSalle Street, Suite 1600, CHICAGO 60601, IL, USA, United States of America ~72: CASSAVALUGH, Evan;PRESTRELSKI, Steven~ 33:US ~31:63/044,973 ~32:26/06/2020

2022/09970 ~ Complete ~54:NEUROTOXIN COMPOSITIONS FOR USE IN TREATING CARDIOVASCULAR DISORDERS ~71:AEON BIOPHARMA, INC., 5 PARK PLAZA, SUITE 1750, IRVINE, CA 92614, USA, United States of America ~72: BROOKS, Gregory, F.;STAGG, Adelbert, L.~ 33:US ~31:62/988,764 ~32:12/03/2020

2022/09990 ~ Complete ~54:GPR52 MODULATOR COMPOUNDS ~71:HEPTARES THERAPEUTICS LIMITED, Granta Park, Great Abington, Cambridge, United Kingdom ~72: BUCKNELL, Sarah Joanne;O'BRIEN, Michael Alistair;WATSON, Stephen Paul~ 33:GB ~31:2003668.7 ~32:13/03/2020

2022/09942 ~ Complete ~54:WAIST ROTATION MEASURING CHAIR ~71:Shenyang University of Technology, No.111 Shenliao West Road, Shenyang Economic and Technological Development Zone, Shenyang City, Liaoning Province, People's Republic of China ~72: BO Mingwei;GUO Hui;JIA Xiao;KONG Zhenxing;LI Qiang;LI Zhuoran;LIU Bo;LIU Tong;SUN Feng;WANG Shuo;XU Fangchao;YU Jingjing;ZHANG Yimin;ZHAO Meng~

2022/09945 ~ Complete ~54:SILANE-TERMINATED RESIN FOR SEALANT AND PREPARATION METHOD THEREOF ~71:Zhejiang Huangma Shangyi New Material Co., Ltd., No. 8, Jingqi East Road, Shangyu economic and Technological Development Zone, Hangzhou Bay, Shangyu District, Shaoxing City, Zhejiang Province, People's Republic of China;Zhejiang Huangma Special Surfactant Research Institute Co., Ltd., Zhangzhen industrial new area, Shangyu District, Shaoxing City, Zhejiang Province, People's Republic of China;Zhejiang Huangma Technology Co., Ltd., Hangzhou Bay Shangyu economic and Technological Development Zone, Shangyu District, Shaoxing City, Zhejiang Province, People's Republic of China;Zhejiang Lvkean Chemistry Co., Ltd, Shangyu economic and Technological Development Zone, Hangzhou Bay, Shangyu City, Zhejiang Province, People's Republic of China ~72: DONG Nan;JIN Yifeng;QIU Bihan;WANG Ma Jishi;WANG Weisong~

2022/09956 ~ Complete ~54:RAPID COLLECTION DEVICE FOR SMALL-SIZED MARINE LITTER AND MICROPLASTIC SAMPLES FROM COASTAL TIDAL FLAT ~71:Shandong Marine Resources and Environment Research Institute, No. 216, Changjiang Road, Economic and Technological Development Zone, YANTAI 264006, SHANDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Lizhu;HU, Shunxin;LIU, Ning;MA, Yuanqing;NIE, Chaohui;SUN, Guiqin;SUN, Wei;WANG, Han;WEI, Xiao;XU, Yandong;ZHU, Jinlong~

2022/09962 ~ Complete ~54:DEGRADATION OF BRUTON'S TYROSINE KINASE (BTK) BY CONJUGATION OF BTK INHIBITORS WITH E3 LIGASE LIGAND AND METHODS OF USE ~71:BEIGENE, LTD., c/o Maurant Ozannes Corporate Services (Cayman) Limited, 94 Solaris Avenue, Camana Bay, Cayman Islands ~72: CHEN, Jie;HUO, Changxin;LEI, Bailin;SUN, Dongqing;WANG, Hexiang;WANG, Yucheng;WANG, Zhiwei~ 33:CN ~31:PCT/CN2020/088322 ~32:30/04/2020;33:CN ~31:PCT/CN2021/085369 ~32:02/04/2021

2022/09975 ~ Complete ~54:CODING OF LASER ANGLES FOR ANGULAR AND AZIMUTHAL MODES IN GEOMETRY-BASED POINT CLOUD COMPRESSION ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: KARCZEWICZ, Marta;KEROFSKY, Louis Joseph;RAMASUBRAMONIAN, Adarsh Krishnan;RAY, Bappaditya;VAN DER AUWERA, Geert~ 33:US ~31:63/007,282 ~32:08/04/2020;33:US ~31:63/009,940 ~32:14/04/2020;33:US ~31:63/036,799 ~32:09/06/2020;33:US ~31:17/224,551 ~32:07/04/2021

2022/09966 ~ Complete ~54:ACRYLIC MULTILAYER FOIL WITH IMPROVED MECHANICAL PROPERTIES AND A HIGH WEATHERING RESISTANCE ~71:RÖHM GMBH, DEUTSCHE-TELEKOM-ALLEE 9, 64295 DARMSTADT, GERMANY, Germany ~72: ENDERS, Michael;GROOTHUES, Herbert;GUÉNANTEN, Claude;HÄRING, Helmut;MUSCI, Girolamo;SEYOU, Ghirmay;STRUWE, Kim~ 33:EP ~31:20157832.5 ~32:18/02/2020

2022/09979 ~ Complete ~54:FASTENER FEEDING SYSTEM AND METHOD ~71:KUKA Systems North America LLC, 6600 Center Drive, STERLING HEIGHTS 48312, MI, USA, United States of America ~72: MARX, Timothy James~ 33:US ~31:16/863,499 ~32:30/04/2020

2022/09988 ~ Complete ~54:IN VIVO TISSUE ENGINEERING DEVICES, METHODS AND REGENERATIVE AND CELLULAR MEDICINE EMPLOYING SCAFFOLDS MADE OF ABSORBABLE MATERIAL ~71:BARB SHANNON LIMITED, Road #3 KM. 77.5 St. Geronimo Industrial Park Humacao, Puerto Rico, 00791, Puerto Rico ~72: ROBERT D REHNKE~ 33:US ~31:16/827,030 ~32:23/03/2020

2022/09955 ~ Complete ~54:COMPOUND ECOLOGICAL IMPROVEMENT METHOD FOR HEAVY SODA SALINE-ALKALINE LAND ~71:Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, No. 4888 Shengbei Street, Northeast Core Area, High-tech Industrial Development Zone, Changchun, Jilin, People's Republic of China ~72: CHEN Guoshuang;LI Xiujun;LIU Hongyuan;LU Xinrui;YANG Fuyi~

2022/09963 ~ Complete ~54:FORGED FLEXIBLE TRAILING ARM HAVING AN OMEGA SHAPED CROSS SECTION ~71:VDL WEWELER B.V., 10, Ecofactorij, WC APELDOORN, Netherlands ~72: BRUINJA, Marten, Frank, Ciarán;HENDRIKS, Michel;SCHRIER, Tom~ 33:NL ~31:2025334 ~32:10/04/2020

2022/09974 ~ Complete ~54:SHUTTER ASSEMBLY ~71:LOUVER-LITE LIMITED, ASHTON ROAD, HYDE CHESHIRE SK 14 4BG, GREAT BRITAIN, United Kingdom ~72: GREENING, Andrew~ 33:GB ~31:2001727.3 ~32:07/02/2020

2022/09967 ~ Complete ~54:IMPROVED PACKET TRANSFER ~71:ONOMONDO APS, HØJBRO PLADS 10, 1200 COPENHAGEN K, DENMARK, Denmark ~72: JØRGENSEN, Henrik, Aagaard;KARLSEN, Michael~ 33:DK ~31:PA 2020 70083 ~32:13/02/2020

2022/09980 ~ Complete ~54:ANALYTE SENSOR AND A METHOD FOR PRODUCING AN ANALYTE SENSOR ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: HOCHMUTH, Gernot;SLIOZBERG, Kirill;STECK, Alexander~ 33:EP ~31:20181542.0 ~32:23/06/2020

2022/09991 ~ Complete ~54:PROCESS FOR THE REMOVAL OF HEAVY METALS FROM A PHOSPHORIC ACID CONTAINING COMPOSITION USING A FLOCCULATING AGENT ~71:YARA INTERNATIONAL ASA, Drammensveien 131, Norway ~72: JØRGENSEN, Tom Rames;JORDBRÆK, Per Arne;KITA, Patrycja;VOJNOVIC, Tanja~ 33:EP ~31:20180341.8 ~32:16/06/2020;33:EP ~31:20195106.8 ~32:08/09/2020

2022/09992 ~ Complete ~54:SOL APPLICATION METHODS ~71:GREEN SOL-GEL LTD, Unit B1093A, United Kingdom ~72: ISMAIL, Fanya~

2022/09968 ~ Complete ~54:METHOD OF PREPARING GRANULAR FEED ADDITIVE ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: CHO, Seok Tae;JO, Se Hee;JUNG, Su Kwon;KIM, Il Chul;LEE, In Sung;LEE, Seung Je;SEO, Yong Bum;SHIN, Jong Hwan~ 33:KR ~31:10-2020-0031305 ~32:13/03/2020

2022/09985 ~ Complete ~54:ZINC COATED UREA FERTILIZER ~71:SABIC GLOBAL TECHNOLOGIES B.V., Plasticlaan 1, 4612 PX, Bergen op Zoom, Netherlands ~72: RAJAMALLESWARAMMA KORIPALLY;SAMIK GUPTA;SATISH BURLA~ 33:IN ~31:202011014247 ~32:31/03/2020

2022/09939 ~ Provisional ~54:MISSION 44 : NEVER GIVE UP: CLOTHING BRAND AND SHOE BRAND ~71:Chereze Salome Booysen, 31 Meintjies Street , Spandauville , Graaff-Reinet , Eastern cape , South Africa , 6280, South Africa ~72: Chereze Salome Booysen~

2022/09944 ~ Complete ~54:AUTOMATIC SAND GRINDING APPARATUS FOR CHINESE STYLE FURNITURE AND GRINDING METHOD THEREFOR ~71:Zhejiang Pan'an Jinmao Fushi Arts And Crafts Products Co.,Ltd., No. 381 Yueshan Road, Anwen Street, Pan'an County, Jinhua City, Zhejiang Province, 322300, People's Republic of China ~72: CHEN, Sufang;GE, Guoan;JIN, Yongfang;LI, Wenzhu;MA, Genshui;YANG, Guifu~

2022/09947 ~ Complete ~54:A VENT VALVE ~71:I-CAT INTERNATIONAL CONSULTING AND TRADING (PTY) LTD, N4 GATEWAY INDUSTRIAL PARK WEST, 38 AMATOLE ROAD, CRN. SOLOMON MAHLANGU DRIVE & BRONKHORSTSPRUIT ROAD, WILLOW MANOR PARK X65, PRETORIA, South Africa ~72: ROTHMANN, David, Schalk;VAN DER MERWE, Antonie, Duminy;VAN ZYL, Stanley, Percy, Henry~ 33:ZA ~31:2021/06114 ~32:25/08/2021

2022/09952 ~ Complete ~54:A PROGRAM-CONTROLLED MANIPULATOR FOR LOGISTICS WITH A ROTATING CLAW ARM AND A MOVING WORKING HEAD ~71:Wang Zihui, Room 302, Unit 3, Building C, Changxin, South Zhonghua Road, Zhushan District, Jingdezhen City, Jiangxi Province, 333000, People's Republic of China ~72: Wang Zihui~ 33:CN ~31:202210068723.X ~32:20/01/2022

2022/09958 ~ Complete ~54:NOVEL COMPILATION SYSTEM FOR ACCEPTING NON-ENGLISH BASED PROGRAMMING LANGUAGES ~71:JHA, Avaneesh, KARPURA BHAWAN, JHANKAR GALI, SHITLA MANDIR ROAD, BAWALI KUAN, RAIGARH, India;PANIGRAHI, Lipismita, AT- SAMALPUR, BALIA, BALASORE, India ~72: JHA, Avaneesh;PANIGRAHI, Lipismita~

2022/09971 ~ Complete ~54:STABLE FAT-SOLUBLE VITAMIN POWDERS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: CHU, Fangfang;FELDTHUSEN JENSEN, Jesper;MUSAEUS, Nina;SOENDERGAARD, Claus;SUBINYA ALBRICH, Mireia~ 33:EP ~31:20157973.7 ~32:18/02/2020

2022/09943 ~ Complete ~54:MULTIFUNCTIONAL OAT HOLE SOWING MACHINE ~71:Institute of the Crops in High Latitude&Cold Climate Area,Shanxi Agricultural University, No.18 Yingbin East Road, Datong City, Shanxi Province, People's Republic of China ~72: HUANGFU Hongfang;JIANG Chao;LI Gang;XUE Longfei;YANG Fu;ZHENG Minna~

2022/09946 ~ Complete ~54:METHOD AND SYSTEM OF GEOGRAPHICALLY MATCHING A USER TO A VENUE ~71:ROOS, Renier, 15 Hoyt Crescent, South Africa ~72: ROOS, Renier~ 33:ZA ~31:2021/03875 ~32:07/06/2021

2022/09953 ~ Complete ~54:A PROGRAM-CONTROLLED MANIPULATOR FOR EXPRESS DELIVERY USING A MANIPULATOR FOR MOVEMENT ~71:Wang Zihui, Room 302, Unit 3, Building C, Changxin, South Zhonghua Road, Zhushan District, Jingdezhen City, Jiangxi Province, 333000, People's Republic of China ~72: Wang Zihui~ 33:CN ~31:202210145870.2 ~32:17/02/2022

2022/09959 ~ Complete ~54:A STEEL FOR HIGH-TEMPERATURE RESISTANT AND HOT EMBEDDED ALLOY TEETH BIT AND ITS HEAT TREATMENT TECHNOLOGY ~71:G.Y HOPH STROVE TOOLS MANUFACTURE CO., LTD, 1st Floor, No. 108, Kaifa Avenue, Xiaomeng Sub-district Office, Economic and Technological Development Zone, Guiyang City, People's Republic of China ~72: Min LEI;Yilong LIANG;Yong LIU~ 33:CN ~31:202210867511.8 ~32:22/07/2022

2022/09972 ~ Complete ~54:MODULATORS OF THE INTEGRATED STRESS RESPONSE PATHWAY ~71:EVOTEC INTERNATIONAL GMBH, ESSENER BOGEN 7, 22419 HAMBURG, GERMANY, Germany ~72: ATTON, Holly Victoria;BROWN, Christopher, John;CARR, James, Lindsay;SADLER, Scott, Alexander;SHINE, Jonathan, Paul;WALTER, Daryl, Simon~ 33:EP ~31:20162329.5 ~32:11/03/2020

2022/09983 ~ Complete ~54:ZEOLITE OF A NEW FRAMEWORK STRUCTURE TYPE AND PRODUCTION THEREOF ~71:BASF SE, Carl-Bosch-Strasse 38, 67056, Ludwigshafen am Rhein, Germany ~72: ANDREI-NICOLAE PARVULESCU;BERND MARLER;DIRK DE VOS;FENG-SHOU XIAO;TOSHIYUKI YOKOI;TREES MARIA DE BAERDEMAEKER;ULRICH MUELLER;UTE KOLB;WEIPING ZHANG;XIANGJU MENG~ 33:CN ~31:PCT/CN2020/083520 ~32:07/04/2020

2022/09941 ~ Provisional ~54:XANADU ~71:ANDILE SITYATA, 42 UITENHAGE ROAD AMALINDA, South Africa;ANDILE SITYATA, 42 UITENHAGE ROAD AMALINDA, South Africa ~72: ANSILE SITYATA~ 33:ZA ~31:1 ~32:06/09/2022

2022/09949 ~ Complete ~54:SECTIONAL RUBBER TRACK ~71:Shanghai Huaxiang Rubber Track Co.,Ltd., No. 2735 Fengzhe Road, Qingcun Town, Fengxian District, Shanghai, 201407, People's Republic of China ~72: YUN, Xiaobi~ 33:CN ~31:202111401344.X ~32:24/11/2021

2022/09951 ~ Complete ~54:PREPARATION METHOD OF CARBON ISOTOPE SAMPLE FOR DETECTING TREE RING IN ARID AREA ~71:XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY CHINESE ACADEMY OF SCIENCES, 818 Beijing South Road, Xinshi District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: CHEN Yapeng;YE Zhaoxia;ZHOU Honghua~

2022/09954 ~ Complete ~54:METHOD FOR EFFICIENTLY PREPARING POLYSACCHARIDE FROM STIPE OF SPARASSIS CRISPA ~71:Hangzhou Qiandao Lake Xingbao mushroom industry professional cooperative, Jie Shou Xiang Tong Zi Wu Cun, Chun'an County, Hangzhou City, Zhejiang Province, People's Republic of China;Hangzhou Qiandao Xiugu Biotechnology Co.,Ltd., Jie Shou Xiang Tong Zi Wu Cun, Chun'an County, Hangzhou City, Zhejiang Province, People's Republic of China ~72: Aizhen HE;Fugen WANG;Kaicheng YANG;Peng WANG;Shizhu LIU;Wei ZHANG;Zuofa ZHANG~

2022/09960 ~ Complete ~54:THE COMPREHENSIVE REINFORCEMENT AND SUPPORT METHOD FOR THE SIDE OF SMALL PILLAR MINING ROADWAY IN COAL MINE ~71:Coal Mining Research Institute, China Coal Technology and Engineering Group Co., Ltd., No.1, Lingkong 2nd Road, Shunyi Park, Zhongguancun Science and Technology Park, Shunyi District, Beijing City, 101300, People's Republic of China ~72: Bing Ma;Bingshuang Yan;Dongpan Wang;Jinzhou Tian;Ke Zhao;Wei Jiang~

2022/09973 ~ Complete ~54:DEVICE AND METHOD FOR HEATING A FLUID IN A PIPELINE WITH SINGLE-PHASE ALTERNATING CURRENT ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany;LINDE GMBH, DR.-CARL-VON-LINDE-STRASSE 6-14, 82049 PULLACH, GERMANY, Germany ~72: JENNE, Eric;KOCHENDOERFER, Kiara, Aenne;SHUSTOV, Andrey~ 33:EP ~31:20157516.4 ~32:14/02/2020

2022/09981 ~ Complete ~54:IMAGE PREDICTION METHOD, ENCODER, DECODER AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road, Wusha, Chang'an, People's Republic of China ~72: GONG, Hao;HUO, Junyan;MA, Yanzhuo;RAN, Qihong;WAN, Shuai~

2022/09957 ~ Complete ~54:WIDE-SPEED-RANGE MULTI-WORKING-MEDIUM EFFICACY MATCHING COMBINED POWER SYSTEM ~71:Central South University, No.932 South Lushan Road, Changsha, Hunan, 410083, People's Republic of China ~72: Jian Liu;Jiawen Song;Wenxiong Xi~

2022/09978 ~ 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;SEFRIDGE, Brandon;YEAGER, Adam~ 33:US ~31:63/011,964 ~32:17/04/2020

2022/09961 ~ Complete ~54:MONITORING MINE INSTALLATIONS ~71:Mining Product Developments (Pty) Ltd, 10 Vegkop Street Noordheuwel, South Africa ~72: HOWELL, Mark;PIENAAR, Frans Roelof Petrus~ 33:ZA ~31:2021/03876 ~32:07/06/2021

2022/09977 ~ Complete ~54:ANTIBODIES BINDING TO CD3 ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: CARPY GUTIERREZ CIRLOS, Alejandro;FREIMOSER-GRUNDSCHOBBER, Anne;HOFER, Thomas;KLEIN, Christian;MOESSNER, Ekkehard;NEUMANN, Christiane;UMA, A, Pablo~ 33:EP ~31:20180968.8 ~32:19/06/2020

2022/09969 ~ Complete ~54:METHOD AND NETWORK ENTITY FOR SERVICE API PUBLISHING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: XU, Wenliang~ 33:CN ~31:PCT/CN2020/075379 ~32:14/02/2020

2022/09986 ~ Complete ~54:BISPECIFIC GD2 AND B7H2 BINDING MOLECULES AND METHODS OF USE ~71:INVENRA INC., 505 South Rosa Road, Suite 235 Madison, Wisconsin, 53719, United States of America;WIN THERAPEUTICS, INC., 505 South Rosa Road, Suite 235, Madison, Wisconsin, 53719, United States of America;WISCONSIN ALUMNI RESEARCH FOUNDATION, 614 Walnut St. 13th Floor, Madison, Wisconsin, 53726, United States of America ~72: DANIEL JUSTIN GERHARDT;PAUL SONDEL~ 33:US ~31:62/979,245 ~32:20/02/2020

2022/09989 ~ Complete ~54:A COMBINATION THERAPY WITH NIROGACESTAT AND A BCMA-DIRECTED THERAPY AND USES THEREOF ~71:SPRINGWORKS THERAPEUTICS, INC., 100 Washington Boulevard, Stamford, Connecticut, 06902, United States of America ~72: BADREDDIN EDRIS;TODD WEBSTER SHEARER~ 33:US ~31:62/989,372 ~32:13/03/2020

2022/09993 ~ Complete ~54:TRANSACTION PROCESSING METHOD, TRANSACTION PROCESSING SYSTEM, ELECTRONIC DEVICE AND STORAGE MEDIUM ~71:HONG KONG INTELLECTUAL PROPERTY EXCHANGE LIMITED, Level 17, Silvercord Tower 2, 30 Canton Road, Tsim Sha Tsui, Hong Kong ~72: LING, Lau Sara;MO, Chengwei;McELROY Brian;WU, Gaolin~ 33:HK ~31:320200043307 ~32:16/03/2020

2022/09987 ~ Complete ~54:FEM1B PROTEIN BINDING AGENTS AND USES THEREOF ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, Twelfth Floor, Oakland, California, 94607-5200, United States of America ~72: ANDREW MANFORD;DANIEL K NOMURA;MICHAEL RAPE;NATHANIEL HENNING~ 33:US ~31:62/987,304 ~32:09/03/2020

2022/09965 ~ Complete ~54:RECYCLABLE PAPER PACKAGING WITH HIGH BARRIER TO WATER VAPOR AND OXYGEN ~71:CONSTANTIA PIRK GMBH & CO. KG, PIRKMÜHLE 14-16, 92712 PIRK, GERMANY, Germany ~72: BÜTTNER, Stefan;GREFENSTEIN, Achim;JONES, Dudley~ 33:AT ~31:A50116/2020 ~32:18/02/2020

- APPLIED ON 2022/09/08 -

2022/10022 ~ Complete ~54:HYBRID INSTALLATION APPARATUS AND PROCESSES ~71:SHERMAN + REILLY, INC., 400 West 33rd Street, Chattanooga, Tennessee, 37410, United States of America ~72: CARLOS ALBERT BELLOT;DOUGLAS BRUCE MACDONALD;JOHN JEREMIAH MORTON;TIMOTHY MICHAEL HANSON;TONI CORINNE TRAN~ 33:US ~31:62/972,800 ~32:11/02/2020

2022/10032 ~ Complete ~54:ANTI-CD6 ANTIBODY COMPOSITIONS AND METHODS FOR TREATING AND REDUCING NEGATIVE EFFECTS OF A CORONAVIRUS INCLUDING COVID-19 ~71:BIOCON LIMITED, 20th KM, Hosur Road, Electronic City, India;CENTRO DE INMUNOLOGÍA MOLECULAR, Calle 216, Esquina 15, Atabey, Cuba ~72: ATHALYE, Sandeep Nilkanth;BUGHANI, Usha;CASIMIRO, Jose Enrique Montero;CROMBET RAMOS, Tania;LEÓN MONZÓN, Kalet;MAZUMDAR SHAW, Kiran;NAIR, Pradip;RAMAKRISHNAN, Melarkode Subbaraman;RAMOS SUZARTE, Mayra~ 33:IN ~31:202041014994 ~32:04/04/2020;33:CU ~31:CU-2020-0027 ~32:17/04/2020

2022/10036 ~ Complete ~54:USE OF COMPOUNDS IN THE TREATMENT OF FUNGAL INFECTIONS ~71:Amplix Pharmaceuticals, Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: HODGES, Michael;SHAW, Karen Joy~ 33:US ~31:62/985,274 ~32:04/03/2020

2022/10029 ~ Complete ~54:PHYTOSANITARY COMPOSITION COMPRISING ULVANS AND SILICON ~71:AGRO INNOVATION INTERNATIONAL, 18 Avenue, Franklin Roosevelt, 35400, Saint-Malo, France ~72: ÉRIC NGUEMA-ONA;JEAN-CLAUDE YVIN~ 33:FR ~31:FR2002511 ~32:13/03/2020

2022/09994 ~ Provisional ~54:ACCURATE MEASUREMENT OF SPECTRAL REFLECTIVITY OF FLOTATION FROTH BUBBLES ~71:Blue Cube Technology (Pty) Ltd, The Woodmill, Shop 14B Ground Floor, Vredenburg Street, South Africa ~72: DU PLESSIS, Francois Eberhardt~

2022/10006 ~ Complete ~54:A VIRTUAL INTERFACING SYSTEM TO TRAIN FARMERS FOR SMART FARMING AND A METHOD THEREOF ~71:Abha Kaushik, Associate Professor, Department of Computer Science & Engineering, School of Engineering and Technology, Sharda University, Greater Noida, India;Dr Ashish Kumar Chakraverti, Associate Professor, Department of Computer Science & Engineering, School of Engineering and Technology, Sharda University, Greater Noida Uttar Pradesh, India;Dr Shiraz Khurana, Associate Professor, Department of Computer Science & Engineering, School of Engineering and Technology, Sharda University, Greater Noida, India;Dr. Achala Shakya, Assistant Professor, School of Computer Science, University of Petroleum and Energy Studies, Bidholi, Dehradun, India;Dr. Pankaj Agarwal, Professor and Dean Engineering, K.R Mangalam University, Gurugram, India;Dr. Rajnesh Singh, Associate Professor,

Department of Information and Technology, GL Bajaj Institute of Technology and management, Greater Noida, India;Dr. Shwetav Sharad, Professor, Department of Computer Science & Engineering, Babu Banarsi Das Institute of Technology Ghaziabad, India;Gaurav Tripathi, PhD Student, Department of Geoinformatics, Central University of Jharkhand, India;Himanshu Kumar Diwedi, Assistant Professor, Department of Computer Science & Engineering, Pranveer Singh Institute of technology University, Kanpur, India;Sugandha Chakraverti, Assistant Professor, Department of Computer Science and Engineering, Greater Noida Institute of Technology, Greater Noida, India ~72: Abha Kaushik;Dr Ashish Kumar Chakraverti;Dr Shiraz Khurana;Dr. Achala Shakya;Dr. Pankaj Agarwal;Dr. Rajnesh Singh;Dr. Shwetav Sharad;Gaurav Tripathi;Himanshu Kumar Diwedi;Sugandha Chakraverti~

2022/10009 ~ Complete ~54:DEVICE AND METHOD FOR OBTAINING LIVING EEL PHENOTYPE ~71:Shanghai Academy of Agricultural Sciences, No. 1000 Jin Qi Road, Fengxian District, Shanghai, 201403, People's Republic of China ~72: MA, Chao;SONG, Weiguo;SUN, Xiaolin;YANG, Haifeng;YAO, Chunxia;ZHOU, Jiaxin~

2022/10020 ~ Complete ~54:CD137 BINDING MOLECULES AND USES THEREOF ~71:MACROGENICS, INC., 9704 Medical Center Drive, United States of America ~72: Alexey Yevgenyevich BEREZHNOY;Ezio BONVINI;Gundo DIEDRICH;Kalpana SHAH;Paul A. MOORE~ 33:US ~31:62/980,000 ~32:21/02/2020;33:US ~31:63/104,685 ~32:23/10/2020;33:US ~31:63/147,565 ~32:09/02/2021

2022/10026 ~ Complete ~54:ADENO-ASSOCIATED VARIANTS, FORMULATIONS AND METHODS FOR PULMONARY DELIVERY ~71:4D MOLECULAR THERAPEUTICS INC., 5858 Horton Street, Suite 455, Emeryville, California, 94608, United States of America ~72: CHRISTOPHER SCHMITT;JOHNNY GONZALES;MELISSA CALTON;MELISSA KOTTERMAN;PETER FRANCIS;ROXANNE CROZE~ 33:US ~31:63/016,246 ~32:27/04/2020;33:US ~31:63/088,432 ~32:06/10/2020

2022/10038 ~ Complete ~54:ANTI-CORONAVIRUS ANTIBODIES AND METHODS OF USE ~71:AbCellera Biologics Inc., 2215 Yukon Street, VANCOUVER V5Y 0A1, BC, CANADA, Canada;The United States of America, as represented by the Secretary, Department of Health and Human Services, Office of Technology Transfer / National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, BETHESDA 20892-7660, MD, USA, United States of America ~72: ABIONA, Olubukola;BOYLES, Jeffrey Streetman;CHAI, Qing;CORBETT, Kizzmekia;DAVIES, Julian;FALCONER, Ester;FOSTER, Denisa;FRYE, Christopher Carl;GOPALRATHNAM, Ganapathy;GRAHAM, Barney;HENDLE, Jörg;JEPSON, Kevin;JONES, Bryan Edward;KONG, Wing-pui;LEDGERWOOD, Julie;MASCOLA, John;MUTHURAMAN, Krithika;PUSTILNIK, Anna;SAUDER, John Michael;SHI, Wei;WANG, Lingshu;WESTENDORF, Kathryn;ZENTELIS, Stefanie;ZHANG, Yi~ 33:US ~31:62/987,313 ~32:09/03/2020;33:US ~31:63/010,999 ~32:16/04/2020;33:US ~31:63/030,530 ~32:27/05/2020;33:US ~31:63/036,089 ~32:08/06/2020;33:US ~31:63/080,351 ~32:18/09/2020;33:US ~31:63/085,042 ~32:29/09/2020;33:US ~31:63/116,483 ~32:20/11/2020

2022/09996 ~ Provisional ~54:ULTRAVIOLET LIGHT WATER PURIFIER ~71:MARK WYNESS VOSLOO, 47 NORTHOAKS PRIVATE ESTATE, NORTHOAKS AVENUE, HOUT BAY, South Africa;ROY EDWARD SCHOEMAN, 6 PALM CRESCENT, WAVECREST, South Africa ~72: MARK WYNESS VOSLOO;ROY EDWARD SCHOEMAN~

2022/09998 ~ Complete ~54:DECODING AUDIO BITSTREAMS WITH ENHANCED SPECTRAL BAND REPLICATION METADATA IN AT LEAST ONE FILL ELEMENT ~71:DOLBY INTERNATIONAL AB, Apollo Building 3E Herikerbergweg 1-35, 1101 CN, Amsterdam Zuidoost, Netherlands ~72: HEIKO PURNHAGEN;LARS VILLEMOES;PER EKSTRAND~ 33:EP ~31:15159067.6 ~32:13/03/2015;33:US ~31:62/133,800 ~32:16/03/2015

2022/09999 ~ Complete ~54:A DEVICE FOR DEVELOPING FORCED DRAFT THERMOELECTRIC GENERATOR (TEG) COOKSTOVE ~71:Dr. Risha Mal, Electrical Engineering Department, National Institute of Technology Silchar, India ~72: Dr. Risha Mal~

2022/10002 ~ Complete ~54:INDIGENOUS LEADERSHIP MEASUREMENT TOOL ~71:Dr. Jyotiranjana Gochhayat, Assistant Professor, KIIT School of Rural Management, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. Sasmita Rani Samanta, Vice Chancellor, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India ~72: Dr. Jyotiranjana Gochhayat;Prof. Sasmita Rani Samanta~

2022/10004 ~ Complete ~54:AZOLOPYRIMIDINE FOR THE TREATMENT OF CANCER-RELATED DISORDERS ~71:ARCUS BIOSCIENCES, INC., 3928 POINT EDEN WAY, HAYWARD, United States of America ~72: BEATTY, JOEL;DEBIEN, LAURENT;JEFFREY, JENNA;LELETI, MANMOHAN REDDY;MANDAL, DEBASHIS;MILES, DILLON;POWERS, JAY;ROSEN, BRANDON;SHARIF, EHESAN;THOMAS-TRAN, RHIANNON~ 33:US ~31:62/448,608 ~32:20/01/2017;33:US ~31:62/479,005 ~32:30/03/2017

2022/10030 ~ Complete ~54:ANTI-CD137 CONSTRUCTS, MULTISPECIFIC ANTIBODY AND USES THEREOF ~71:SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No.222 Kangnan Road China (Shanghai) Pilot Free Trade Zone, Pudong District, People's Republic of China ~72: FENG, Weijun;JIANG, Wei-Dong;XU, Wenfeng;XUE, Jie~ 33:WO ~31:PCT/CN2020/077146 ~32:28/02/2020

2022/10033 ~ Complete ~54:APPARATUS FOR IMPROVED TRANSFECTION EFFICIENCY AND/OR PROTEIN EXPRESSION AND METHOD OF USE THEREOF ~71:ST ANDREWS PHARMACEUTICAL TECHNOLOGY LIMITED, 54 Queen Street, Henley-on-Thames, United Kingdom ~72: BOURDON, Jean-Christophe;HENRY, William J;MONTALI, Anna~ 33:GB ~31:2004411.1 ~32:26/03/2020;33:GB ~31:2004412.9 ~32:26/03/2020;33:GB ~31:2009296.1 ~32:18/06/2020;33:GB ~31:2009297.9 ~32:18/06/2020

2022/10035 ~ Complete ~54:METHOD FOR AN IMPROVED PARTIAL CONDENSATION CARBON MONOXIDE COLD BOX OPERATION ~71:Praxair Technology, Inc., 10 Riverview Drive, DANBURY 06810, CT, USA, United States of America ~72: KALP, Bryan S.;SCHWARTZ, Joseph Michael;SHAH, Minish Mahendra;WARTA, Andrew M.~ 33:US ~31:16/791,320 ~32:14/02/2020

2022/10037 ~ Complete ~54:COMBINATIONS ~71:Recurium IP Holdings, LLC, 10275 Science Center Drive, Suite 200, SAN DIEGO 92121, CA, USA, United States of America ~72: BUNKER, Kevin Duane;DONATE, Fernando;HUANG, Peter Qinhua;IZADI, Hooman;PINCHMAN, Joseph Robert;SAMATAR, Ahmed Abdi~ 33:US ~31:63/021,290 ~32:07/05/2020

2022/10039 ~ Complete ~54:ANTI-CORONAVIRUS ANTIBODIES AND METHODS OF USE ~71:AbCellera Biologics Inc., 2215 Yukon Street, VANCOUVER V5Y 0A1, BC, CANADA, Canada;The United States of America, as represented by the Secretary, Department of Health and Human Services, c/o National Institutes of Health, 9000 Rockville Pike, BETHESDA 20892, MD, USA, United States of America ~72: ABIONA, Olubukola;BOYLES, Jeffrey Streetman;CHAI, Qing;CORBETT, Kizzmekia;DAVIES, Julian;FALCONER, Ester;FOSTER, Denisa;FRYE, Christopher Carl;GOPALRATHNAM, Ganapathy;GRAHAM, Barney;HENDLE, Jörg;JEPSON, Kevin;JONES, Bryan Edward;KONG, Wing-pui;LEDGERWOOD, Julie;MASCOLA, John;MUTHURAMAN, Krithika;PUSTILNIK, Anna;SAUDER, John Michael;SHI, Wei;WANG, Lingshu;WESTENDORF, Kathryn;ZENTELIS, Stefanie;ZHANG, Yi~ 33:US ~31:62/987,313 ~32:09/03/2020;33:US ~31:63/010,999 ~32:16/04/2020;33:US ~31:63/030,530 ~32:27/05/2020;33:US ~31:63/036,089 ~32:08/06/2020;33:US ~31:63/080,351 ~32:18/09/2020;33:US ~31:63/085,042 ~32:29/09/2020;33:US ~31:63/116,483 ~32:20/11/2020

2022/10027 ~ Complete ~54:COMPOSITIONS OF VITAMIN A PALMITATE, PROCESSES FOR THEIR PREPARATION, USES AND METHODS COMPRISING THEM ~71:ADVENT THERAPEUTICS INC., 6500 Old Carversville Road Lumberville, Pennsylvania, 18933, United States of America ~72: CRAIG GELFAND;DAVID LOPEZ;ROBERT SEGAL~ 33:US ~31:62/972,784 ~32:11/02/2020

2022/09995 ~ Provisional ~54:ADAPTIVE MODULAR APPARATUS AND SYSTEM FOR NUDGING BEHAVIOURS AND PRACTICES IN WASTE COLLECTION, HANDLING AND RECYCLING ~71:Theo Arthur, 27 Karee Street, South Africa ~72: Theo Arthur~

2022/10003 ~ Complete ~54:A HYBRID DEEP NEURAL NETWORK-BASED INTRUSION DETECTION SYSTEM ~71:Deepika Deenathayalan, K L Deemed to be University, Green Fields, Vaddeswaram, Guntur District, India;Deepthi Suresh Sindhukumari, Assistant Professor, Department of Information Technology, Francis Xavier Engineering College, Tirunelveli, India;Dr.Ahilan Appathurai, Associate professor, Department of ECE, PSN College of engineering and technology, Tirunelveli, India;Dr.Jenifa Gnanamanickam, Department of Artificial Intelligence and Data Science, KPR Institute of Engineering and Technology, Arasur, Coimbatore, India;Dr.Kuntavai Thangavel, Assistant Professor, Department of Electrical and Electronics Engineering, AdhiparaSakthi Engineering College, Melmaruvathur, Chengalpattu, India;Dr.Muthumanickam Thangavelu, Professor and Head, Department of Electronics and Communication Engineering, Vinayaka Mission's Kirupananda Variyar Engineering College, NH-47, Sankari Main Road, Periya Seeragapadi (po), Salem, India;Dr.Prasanth Aruchamy, Assistant Professor, Department of Electronics and Communication Engineering, Sri Venkateswara College of Engineering, Sriperumbudur, India;Dr.Vijaylakshmi Pagadala, Associate Professor, CMS Business School, JAIN (Deemed-to-be University), Bengaluru, India ~72: Deepika Deenathayalan;Deepthi Suresh Sindhukumari;Dr.Ahilan Appathurai;Dr.Jenifa Gnanamanickam;Dr.Kuntavai Thangavel;Dr.Muthumanickam Thangavelu;Dr.Prasanth Aruchamy;Dr.Vijaylakshmi Pagadala~

2022/10007 ~ Complete ~54:A METHOD FOR PRODUCTION OF COMPOSITE CLAY BRICKS ~71:Dr Kulkarni Vihangraj Vijaykumar, Department of Civil Engineering National Institute of Technology, India;Prof Animes Kumar Golder, Chemical Engineering Department, Indian Institute of Technology, India;Prof Pranab Kumar Ghosh, Department of Civil Engineering, Indian Institute of Technology, India ~72: Dr Kulkarni Vihangraj Vijaykumar;Prof Animes Kumar Golder;Prof Pranab Kumar Ghosh~

2022/10014 ~ Complete ~54:TOPICAL ANTI- SUPRASPINATUS TENDINITIS HERBAL FORMULATION AND A PROCESS FOR PREPARATION THEREOF ~71:ARTHI GURUMURTHY, D/O GURUMURTHY, 29/1 GANDHI ROAD, VIJAYAPURAM, THIRUVARUR, India;LAKSHMANAKUMAR VENKATACHALAM, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH, G E ROAD, India;MEENALOTCHINI GURUNTHALINGAM, DISTRICT HOSPITAL, PANDRI, RAIPUR, India;PUGAZHENTHAN THANGARAJU, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH, G E ROAD, India;SAJITHA VENKATESAN, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH, G E ROAD, India;SREE SUDHA TANGUTURI YELLA, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, DEOGHAR, PANCHAYAT TRAINING INSTITUTE, DABURGRAM JASIDIH, DEOGHAR, India ~72: ARTHI GURUMURTHY;LAKSHMANAKUMAR VENKATACHALAM;MEENALOTCHINI GURUNTHALINGAM;PUGAZHENTHAN THANGARAJU;SAJITHA VENKATESAN;SREE SUDHA TANGUTURI YELLA~

2022/10031 ~ Complete ~54:APPARATUS FOR IMPROVED TRANSFECTION AND/OR INTRACELLULAR DELIVERY EFFICIENCY OF AN AGENT INTO A EUKARYOTIC CELL AND/OR PROTEIN EXPRESSION AND METHOD OF USE THEREOF ~71:ST ANDREWS PHARMACEUTICAL TECHNOLOGY LIMITED, 54 Queen Street, Henley-on-Thames, United Kingdom ~72: BOURDON, Jean-Christophe;HENRY, William J;MONTALI, Anna~ 33:GB ~31:2004411.1 ~32:26/03/2020;33:GB ~31:2004412.9 ~32:26/03/2020;33:GB ~31:2009296.1 ~32:18/06/2020;33:GB ~31:2009297.9 ~32:18/06/2020

2022/10034 ~ Complete ~54:ANTI-CD137 ANTIGEN-BINDING MOLECULE FOR USE IN CANCER TREATMENT ~71:Chugai Seiyaku Kabushiki Kaisha, 5-1, Ukima 5-chome, Kita-ku, TOKYO 1158543, JAPAN, Japan ~72: HAMADA, Koki;HORIYAMA, Sayuri;MIKAMI, Hirofumi;NARITA, Yoshinori;ONO, Natsuki;SAKURAI, Mika;TANIGUCHI, Kenji;UCHIKAWA, Ryo~ 33:JP ~31:2020-021275 ~32:12/02/2020;33:JP ~31:2020-140489 ~32:21/08/2020

2022/10028 ~ Complete ~54:FITTING OF GLASSES FRAMES INCLUDING LIVE FITTING ~71:DITTO TECHNOLOGIES, INC., 1611 Telegraph Ave., Ste. 600, Oakland, California, 94612, United States of America ~72: CLIFF MERCER;EBUBE ANIZOR;TENZILE BERKIN CILINGIROGLU;TREVOR NOEL HOWARTH~ 33:US ~31:62/979,968 ~32:21/02/2020

2022/09997 ~ Complete ~54:STORAGE METHOD AND STORAGE AGENT OF 'SHINE MUSCAT' GRAPES ~71:WUGANG CITY QINFENGYUAN FORESTRY PROFESSIONAL COOPERATIVE, XINZHUANG GROUP, ZHAO'ANZHUANG VILLAGE, MINE CONSTRUCTION OFFICE, People's Republic of China;WUGANG MUNICIPAL BUREAU OF AGRICULTURE AND RURAL AFFAIRS, NORTH OF THE MIDDLE SECTION OF CHAOYANG ROAD, People's Republic of China ~72: CAO, Nan;CHEN, Li;HU, Shaoying;LI, Fengru;LI, Xinna;LIU, Guoju;LIU, Kaihua;SONG, Dapeng;SUN, Sisheng;WANG, Junhui;WANG, Liying;WANG, Yumin;YANG, Xu;YANG, Yongliang;ZHANG, Huage;ZHANG, Yafei~

2022/10000 ~ Complete ~54:A COMPOSITION AND A METHOD FOR PREPARING A PLURALITY OF HEXA HYBRID NANO FLUID SAMPLE ~71:Aujasvi Kumar, B- 24, Parijat Apts, Pitampura, West Enclave, India;Dr. Kuldeep Panwar, FEA Analyst, General Electric Power India Ltd., Greater Noida, India;Dr. Lokesh Pandey, Associate Professor, Mechanical Engineering, G.N.I.T., India;Dr. Satyendra Singh, Professor, Department of Mechanical Engineering, B.T. Kumaon Institute of Technology, Dwarahat, Almora, India;Shivasheesh Kaushik, Assistant Professor, Mechanical Engineering Department, Shivalik College of Engineering, Dehradun, India ~72: Aujasvi Kumar;Dr. Kuldeep Panwar;Dr. Lokesh Pandey;Dr. Satyendra Singh;Shivasheesh Kaushik~

2022/10001 ~ Complete ~54:SCREENING LOADING APPARATUS FOR FRUITS OF CAMELLIA OLEIFERA ~71:HARBIN FORESTRY MACHINERY RESEARCH INSTITUTE, STATE FORESTRY AND GRASSLAND ADMINISTRATION, NO. 374, XUEFU ROAD, People's Republic of China ~72: FAN, Zhiyuan;KOU, Xin;QU, Zhenxing;TANG, Jingyu;WANG, Dezhu;WANG, Dong;XIANG, Wenbo;XIAO, Bing~ 33:CN ~31:202210134408.2 ~32:14/02/2022

2022/10005 ~ Complete ~54:AN ANTI-SLIP MEMORY ALLOY POWER LINE PIPE JOINT ~71:Chengdu University of Technology, No. 1, Erxianqiao East 3rd Road, Erxianqiao Street, Chenghua District, CHENGDU 610051, SICHUAN, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Tianxiang;WANG, Anqi;WANG, Rongquan;ZHANG, Yu~

2022/10008 ~ Complete ~54:PREPARATION METHOD OF LITHIUM-SULFUR BATTERY CATHODE WITH DUAL PROTECTION FROM BIOCARBON AND COATING ~71:Hebei Normal University of Science and Technology, No. 360, West Section of Hebei Street, Qinhuangdao City, Hebei Province, 066004, People's Republic of China ~72: HAN, Lina;LEI, Zijie;LI, Bowen;LI, Zemin;WANG, Lijiang~ 33:CN ~31:202111048082.3 ~32:08/09/2021

2022/10013 ~ Complete ~54:A COMPOSITION AND A METHOD FOR SYNTHESIS OF AZITHROMYCIN LOADED NANOEMULSION ~71:Aalok Basu, Assistant Professor, Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur, India;Asif Arfan Sheikh, Doctor of Medicine (Philippines), M.Sc in Chemistry (Department of chemistry Aliah University), HA/27 New town, India;Asim Halder, Assistant Professor, Department of Pharmaceutical Technology, School of Medical Sciences, Adamas University, Kolkata, India;Nagaraja Sreeharsha, Department of Pharmaceutical Sciences, College of Clinical Pharmacy, King Faisal University, Saudi

Arabia;Partha Roy, Associate Professor, Department of Pharmaceutical Technology, School of Medical Sciences, Adamas University, Kolkata, India;Sonia Kundu, Assistant Professor, Food Science and Technology, Maulana Abul Kalam Azad University of Technology, India;Suvadra Das, Associate Professor (Chemistry), University of Engineering and Management, Kolkata, New town, Action Area -III Kolkata, India;Teeka Sathiesh Roopashree, Department of Pharmacognosy, Government College of Pharmacy, Bangalore, India ~72: Aalok Basu;Asif Arfan Sheikh;Asim Halder;Nagaraja Sreeharsha;Partha Roy;Sonia Kundu;Suvadra Das;Teeka Sathiesh Roopashree~

2022/10015 ~ Complete ~54:SYSTEM AND METHOD FOR UNDERGROUND WIRELESS SENSOR COMMUNICATION ~71:REALMFIVE, INC., 3300 Folkways Circle, United States of America ~72: ADKINS, Tim;BURKEY, Brant;PFRENGER, Jochen;PICKERILL, Dan;TIPPERY, Steve R.~ 33:US ~31:62/596,444 ~32:08/12/2017;33:US ~31:16/215,261 ~32:10/12/2018

2022/10023 ~ Complete ~54:A METHOD FOR THE DIGESTION OF A URANIUM BASED MATERIAL ~71:CENTRE D'ETUDE DE L'ENERGIE NUCLÉAIRE, Avenue Herrmann-Debroux 40, 1160, Bruxelles, Belgium;INSTITUT NATIONAL DES RADIOÉLÉMENTS, Avenue de l'Espérance 1, 6220, Fleurus, Belgium ~72: ANDREW KEN CEA;ANN JOSEFINE GEORGETTE LEENAERS;CHRISTOPHE ETIENNE MICHEL WYLOCK;SVEN VAN DEN BERGHE;THOMAS PARDOEN;VALERY CLAUDE LINO G HOST~ 33:EP ~31:20156652.8 ~32:11/02/2020

2022/10025 ~ Complete ~54:DEVICE AND METHOD FOR JOINING MULTI-PART TAMPON APPLICATORS ~71:RUGGLI PROJECTS AG, Frauentalstrasse 3, 6332, Hagendorn, Switzerland ~72: ANTONELLO ZUDDAS;PATRIK SCHEIBER;SAMUEL SCHULER~ 33:CH ~31:412/20 ~32:06/04/2020

2022/10012 ~ Complete ~54:A DEVICE FOR QUICKLY DRYING PLANT SPECIMENS IN FIELD ~71:Jiangsu Cancer Hospital, 42 Baiziting, Xuanwu District, Nanjing City, Jiangsu Province, People's Republic of China ~72: Xu Silu;Yan Dan;Zheng Xiao~

2022/10016 ~ Complete ~54:A KIND OF SHAPING EQUIPMENT FOR WIRE HARNESS JOINTS ~71:Wuhu Bokang Electromechanical Co., Ltd., No. 82, Huizhou Road, Qingshui Street, Jiujiang District, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: Fang Liang;Li Guoying;Min Luoqi;Xu Bin~ 33:CN ~31:202110928741.6 ~32:13/08/2021

2022/10010 ~ Complete ~54:CULTIVATION EQUIPMENT FOR AGRONOMIC EXPERIMENT, AND APPLICATION THEREOF ~71:Hainan Institute of Zhejiang University, Science and Technology City, Yazhou Bay, Yazhou District, Sanya City, Hainan Province, 572025, People's Republic of China;Tropical Crops Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences, No. 4, Xueyuan Road, Longhua District, Haikou City, Hainan Province, 571101, People's Republic of China ~72: CAO, Zhenmu;GU, Fenglin;LIU, Weixia;LIU, Ziji;QIN, Yuling;ZHANG, Zhiyuan~

2022/10011 ~ Complete ~54:DRYING AGENT FOR DRILLING WATER-BASED MUD ~71:Sichuan Greentech Environmental Technology Co., Ltd., No. 11-7, Building 1, Deyang High Tech Building, 39 Anshan Road, Jingyang District, Deyang, Sichuan, People's Republic of China ~72: Hui Huang;Xue Wang~

2022/10017 ~ Complete ~54:ORAL GLP RECEPTOR AGONISTS ~71:HEPTARES THERAPEUTICS LIMITED, Granta Park, Great Abington, Cambridge, United Kingdom ~72: BROWN, Giles Albert;CONGREVE, Miles Stuart;MUTO, Susumu;NUKUI, Seiji;PAUL, Rebecca;SCULLY, Conor;WADA, Hiroki~ 33:GB ~31:2003764.4 ~32:16/03/2020;33:GB ~31:2003766.9 ~32:16/03/2020

2022/10018 ~ Complete ~54:GLP RECEPTOR AGONISTS ~71:HEPTARES THERAPEUTICS LIMITED, Granta Park, Great Abington, Cambridge, United Kingdom ~72: BORTOLATO, Andrea;BROWN, Giles Albert;CONGREVE, Miles Stuart;PAUL, Rebecca;SCULLY, Conor~ 33:GB ~31:2003762.8 ~32:16/03/2020

2022/10019 ~ Complete ~54:HYBRID GRID AND RENEWABLE BASED ENERGY SYSTEM ~71:CONDUCTIFY LIMITED, Suite 225, 5 High Street, United Kingdom ~72: TENNANT, Robert~ 33:GB ~31:2102250.4 ~32:17/02/2020;33:GB ~31:2002293.5 ~32:19/02/2020

2022/10021 ~ Complete ~54:TRACK ASSEMBLY BUSHING HAVING A WEAR MEMBER ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: RECKER, Roger, L.;VELIZ, Mark, D.;WEAVER, Douglas, Trent~ 33:US ~31:16/813,900 ~32:10/03/2020

2022/10024 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR CANCER TREATMENT COMPRISING FUSION PROTEIN INCLUDING IL-2 PROTEIN AND CD80 PROTEIN AND ANTICANCER DRUG ~71:GI INNOVATION, INC., A-1116, 167, Songpa-daero, Songpa-gu, Seoul, 05855, Republic of Korea ~72: MYUNG HO JANG;SU YOUN NAM;YOUNG JUN KOH~ 33:KR ~31:10-2020-0033233 ~32:18/03/2020;33:KR ~31:10-2021-0020708 ~32:16/02/2021

- APPLIED ON 2022/09/09 -

2022/10045 ~ Complete ~54:MACHINE TRANSLATION METHOD AND SYSTEM OF SWAHILI PLACE NAME ~71:Chinese Academy of Surveying and Mapping, No. 28, Lianhuachi West Road, Haidian District, Beijing, 100036, People's Republic of China ~72: CHENG, Yao;GAO, Wujun;LU, Wenjuan;MA, Weijun;MAO, Xi;WANG, Jizhou~

2022/10055 ~ Complete ~54:METHOD FOR BREEDING SORGHUM VARIETIES THROUGH MUTATION BREEDING ~71:Sorghum Research Institute, Shanxi Agricultural University, No.238 Yunhua Street, Yuci District, Jinzhong City, Shanxi Province, People's Republic of China ~72: WANG Rui;YAN Fengxia;YANG Bin;ZHANG Haiyan;ZHANG Yizhong;ZHAO Weijun;ZHOU Fuping~

2022/10056 ~ Complete ~54:PROFILE FIXED-LENGTH CUTTING MACHINE ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 11, Fushun Road, Shibei District, Qingdao City, Shandong Province, People's Republic of China ~72: LI Yang;LIANG Liping;WANG Guangzheng;WANG Shaozhu;WANG Yongqi;WU Ningning;YANG Fazhan;ZHANG Xuefeng~

2022/10041 ~ Provisional ~54:MABONE GENERATOR TECHNOLOGY 1 ~71:Leon Aphane, 41 Harmse Avenue, Chantelle, South Africa ~72: Tsholofelo Jeremia Ramongana~ 33:ZA ~31:1 ~32:08/09/2022

2022/10042 ~ Complete ~54:AUTOMATIC IRRIGATION MANAGEMENT DECISION CONTROL SYSTEM FOR DRIP IRRIGATION OF PERENNIAL FORAGE GRASSES ~71:INSTITUTE OF WATER RESOURCES FOR PASTORAL AREA, MWR, NO. 128, UNIVERSITY EAST STREET, People's Republic of China ~72: BAI, Xingang;BIAN, Nan;CAO, Xuesong;CHANG, Limao;CHEN, Bing;FENG, Rui;FU, Hua;HAN, Zaihui;LI, Yong;LIU, Jin;MIAO, Ping;TIAN, Xiaoqiang;WU, Jiabin;WU, Tongjing;ZHENG, Hexiang~ 33:CN ~31:202211072012.6 ~32:02/09/2022

2022/10060 ~ Complete ~54:A LARGE CAPACITY STORAGE AND TRANSPORTATION DEVICE FOR COILED TUBING ~71:Jilin university, 2699 Qianjin Dajie, Changchun City, Jilin Province, People's Republic of China ~72: Gao ke;Niu xin;Xie xiaobo;Zhao yan~

2022/10065 ~ Complete ~54:INTERLEUKIN-21 MUTEINS AND METHODS OF TREATMENT ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: AGRAWAL, Neeraj Jagdish;ALI, Khaled M.K.Z.;BATES, Daren;FOLTZ, Ian;KANNAN, Gunasekaran;MOCK, Marissa;TAKENAKA, Shunseke;WANG, Zhulun~ 33:US ~31:62/540,692 ~32:03/08/2017;33:US ~31:62/616,733 ~32:12/01/2018

2022/10080 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING SOLID AND SOFT TUMORS AND PROLIFERATIVE DISEASES ~71:NOVEL CONCEPTS MEDICAL LTD, Museum Tower, 6-7th Fl 4 Berkovitz Street P.O. Box 31 Tel Aviv, 6423806, Israel ~72: RACHEL ALKALAY~ 33:US ~31:62/992,276 ~32:20/03/2020

2022/10082 ~ Complete ~54:SYSTEMS AND METHODS FOR MOVING OBJECTS ALONG A PREDETERMINED PATH ~71:BROWN INTERNATIONAL CORPORATION, LLC, 333 Avenue M. NW P.O. Box 713 Winter Haven, Florida, 33881, United States of America ~72: MIKE POORBAUGH;TERRY PAGANO;TONY TEDESCO~ 33:US ~31:62/988,530 ~32:12/03/2020

2022/10084 ~ Complete ~54:TREATMENT OF HEAVY PYROLYSIS PRODUCTS BY PARTIAL OXIDATION GASIFICATION ~71:Eastman Chemical Company, 200 South Wilcox Drive, KINGSPORT 37660, TN, USA, United States of America ~72: BITTING, Daryl;DEBRUIN, Bruce Roger;SLIVENSKY, David Eugene;TRAPP, William Lewis;WU, Xianchun~ 33:US ~31:62/972,276 ~32:10/02/2020

2022/10052 ~ Complete ~54:A SHAPING DEVICE FOR COPPER WIRE JOINTS OF AUTOMOBILE WIRING HARNESES ~71:Wuhu Bokang Electromechanical Co., Ltd., No. 82, Huizhou Road, Qingshui Street, Jiujiang District, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: Fang Liang;Li Guoying;Min Luoqi;Xu Bin~ 33:CN ~31:202110928780.6 ~32:13/08/2021

2022/10053 ~ Complete ~54:A PROCESSING DEVICE AND A PROCESSING METHOD OF A CCS CELL CONNECTION ASSEMBLY ~71:Wuhu Bokang New Energy Vehicle Technology Co., Ltd., No. 15-1, Zhanghe Road, High-tech Industrial Development Zone, Yijiang District, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: Cheng Li;Fang xiangMing;Li Liang;Lin Jun;Liu Changyong~ 33:CN ~31:202210767901.8 ~32:30/06/2022

2022/10054 ~ Complete ~54:A PROCESSING DEVICE FOR A NEW ENERGY BATTERY PACK WIRE HARNESS ASSEMBLY ~71:Wuhu Bokang New Energy Vehicle Technology Co., Ltd., No. 15-1, Zhanghe Road, High-tech Industrial Development Zone, Yijiang District, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: Cha Min;Jiang Wen;Lin Jun;Qiu Liangliang;Zhu Lei~ 33:CN ~31:202210769134.4 ~32:30/06/2022

2022/10059 ~ Complete ~54:SUPERHEATED STEAM DRYING DEVICE BASED ON NEW ENERGY ~71:Jiangxi Agricultural University, No. 1101, Zhimin Avenue, Nanchang Economic and Technological Development Zone, Nanchang City, Jiangxi Province, People's Republic of China ~72: CAI Yujun;CHEN Liang;HE Wenxiang;HU Jie;LI Tao;LI Xiayang;SU Jiahai;WANG Jianhong;XIAO Zhifeng;XU Huilong~

2022/10063 ~ Complete ~54:SPIRAL CONVEYOR SYSTEM ~71:ASHWORTH BROS., INC., 222 Milliken Blvd., Suite 7, Fall River, Massachusetts, 02721, United States of America ~72: BRYAN HOBBS;DARROLL JOSEPH NEELY~ 33:US ~31:62/196,582 ~32:24/07/2015;33:US ~31:15/216,210 ~32:21/07/2016

2022/10050 ~ Complete ~54:FEED FORMULATION FOR IMPROVING HONEYBEE IMMUNITY ~71:ChongQing Academy of Animal Sciences, No. 51, Changzhou Avenue, Rongchang District, Chongqing, 402460, People's Republic of China;DENG, Juan, No. 333, Jinfa Avenue, Guilin Street, Tongnan District, Chongqing, 402660, People's Republic of China;TANG, Fengjiao, No. 62, Furong East Road, Furong Street, Wulong District, Chongqing, 408500, People's Republic of China ~72: CHEN, Heng;GAO, Lijiao;JIANG, Yu;LIU, Jialin;LUO, Wenhua;YANG, Jinlong~

2022/10051 ~ Complete ~54:PORTABLE POST-HEALING REHABILITATION AID FOR LOWER EXTREMITY FRACTURE ~71:Shandong Vocational College of Science and Technology, No. 6388, West Ring Road, Weifang City, Shandong Province, 261053, People's Republic of China ~72: LI, Xiaoming;LIU, Mingyuan;QIN, Jian;WEI, Chunguang;YU, Yanjiang;ZHANG, Zhe;ZHOU, Shuqing~

2022/10058 ~ Complete ~54:MUTATION BREEDING METHOD OF DISEASE-RESISTANT SORGHUM
~71:Sorghum Research Institute, Shanxi Agricultural University, No.238 Yunhua Street, Yuci District, Jinzhong City, Shanxi Province, People's Republic of China ~72: FAN Xinqi;GUO Qi;LIANG Du;LIU Qingshan;WANG Huiyan;ZHANG Xiaojuan;ZHANG Yizhong~

2022/10061 ~ Complete ~54:SELF-BALANCING ROCK-CRUSHING DRILLING SYSTEM COUPLING ROTATION AND VIBRATION WITHOUT DRILL RIG ~71:Jilin university, 2699 Qianjin Dajie, Changchun City, Jilin Province, People's Republic of China ~72: Gao ke;Jin tianyu;Peng yuzheng;Piao jianyu;Qiu song;Wang longbin;Wen yumin;Xie xiaobo;Zhao yan~

2022/10089 ~ Complete ~54:CHEMICAL RECYCLING OF PLASTIC-DERIVED STREAMS TO A CRACKER SEPARATION ZONE ~71:Eastman Chemical Company, 200 South Wilcox Drive, KINGSPORT 37660, TN, USA, United States of America ~72: BITTING, Daryl;DEBRUIN, Bruce Roger;EKART, Michael Paul;SLIVENSKY, David Eugene;WU, Xianchun~ 33:US ~31:62/972,291 ~32:10/02/2020

2022/10091 ~ Complete ~54:TREATMENT OF PATIENTS HAVING C-MET EXON 14 SKIPPING MUTATIONS ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: KNOBLAUCH, Roland;LAQUERRE, Sylvie;MOORES, Sheri~ 33:US ~31:62/975,406 ~32:12/02/2020

2022/10094 ~ Complete ~54:MODULAR CONTROL UNIT AND SYSTEMS COMPRISING THE SAME ~71:KAJLEH, Khaled, Peppermint Grove, Australia;STEELE, Edwin, 18 Airle Street, Canada;STEWART, Gordon, 18 Airle Street, Australia;TOMASZEWSKI, Adam, 2442 South Sheridan Way, Canada ~72: KAJLEH, Khaled;STEELE, Edwin;STEWART, Gordon;TOMASZEWSKI, Adam~ 33:US ~31:62/975,423 ~32:12/02/2020

2022/10070 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE SELECTIVE DETECTION OF TUMOR-DERIVED VIRAL DNA ~71:THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, 109 Church Street, Street Chapel Hill, United States of America ~72: CHERA, Bhishamjit, S.;GUPTA, Gaorav;KUMAR, Sunil~ 33:US ~31:62/990,438 ~32:16/03/2020

2022/10074 ~ Complete ~54:A LOCK ASSEMBLY FOR A VEHICLE LOAD COMPARTMENT ~71:Locks4Vans Ltd, Imperial Business Estate, West Mill, Gravesend, Kent, DA11 0DL, United Kingdom ~72: BATTERBEE, Christopher~ 33:GB ~31:2002015.2 ~32:13/02/2020

2022/10076 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING AND PREVENTING A CORONAVIRUS INFECTION ~71:NOVEL CONCEPTS MEDICAL LTD, Museum Tower, 6-7th Fl 4 Berkovitz Street P.O. Box 31 Tel Aviv, 6423806, Israel ~72: RACHEL ALKALAY~ 33:US ~31:62/992,276 ~32:20/03/2020

2022/10079 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING INFLAMMATORY DISEASES INCLUDING DIABETES MELLITUS 10 TYPE I AND TYPE II AND THYROID DISEASES ~71:NOVEL CONCEPTS MEDICAL LTD, Museum Tower, 6-7th Fl 4 Berkovitz Street P.O. Box 31 Tel Aviv, 6423806, Israel ~72: RACHEL ALKALAY~ 33:US ~31:62/992,276 ~32:20/03/2020

2022/10085 ~ Complete ~54:CHEMICAL RECYCLING OF PLASTIC-DERIVED STREAMS TO A CRACKER SEPARATION ZONE WITH ENHANCED SEPARATION EFFICIENCY ~71:Eastman Chemical Company, 200 South Wilcox Drive, KINGSPORT 37660, TN, USA, United States of America ~72: BILLODEAUX, Damon Ray;BITTING, Daryl;DEBRUIN, Bruce Roger;SLIVENSKY, David Eugene;WU, Xianchun~ 33:US ~31:62/972,296 ~32:10/02/2020

2022/10093 ~ Complete ~54:SYSTEMS AND METHODS FOR MEASURING DEPTH WITHIN A BOREHOLE ~71:GLOBALTECH CORPORATION PTY LTD, 883 Abernethy Road, Australia;LONGYEAR TM, INC., 2455

South 3600 West, United States of America ~72: STEWART, Gordon;TOMASZEWSKI, Adam~ 33:US
~31:62/975,418 ~32:12/02/2020

2022/10073 ~ Complete ~54:NOVEL N-ARYL OXAMIC ACIDS ~71:PURDUE RESEARCH FOUNDATION, 101 Foundry Drive, United States of America ~72: RUDDRARAJU, Kasi Viswanatharaju;ZHANG, Zhong-Yin~ 33:US
~31:63/005,485 ~32:06/04/2020

2022/10075 ~ Complete ~54:CRYSTAL FORM OF NITROXOLINE PRODRUG, PHARMACEUTICAL COMPOSITION CONTAINING SAME, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:ASIERIS PHARMACEUTICALS (SHANGHAI) CO., LTD., 12F, Building 56, No.1000 Jinhai Road, City Of Elite, Pudong, Shanghai 201203, People's Republic of China;JIANGSU YAHONG MEDITECH CO., LTD., D-1009, New Drug Innovation Base, No. 1, Yaocheng Avenue, CMC Taizhou, Jiangsu, 225316, People's Republic of China ~72: CHEN ZHOU;LIANG WU;YIJUN DENG~ 33:CN ~31:202010236147.6 ~32:30/03/2020

2022/10087 ~ Complete ~54:CHEMICAL RECYCLING OF PLASTIC-DERIVED STREAMS TO A CRACKER SEPARATION ZONE WITH ENHANCED ENERGY EFFICIENCY ~71:Eastman Chemical Company, 200 South Wilcox Drive, KINGSPORT 37660, TN, USA, United States of America ~72: BILLODEAUX, Damon Ray;BITTING, Daryl;DEBRUIN, Bruce Roger;SLIVENSKY, David Eugene;WU, Xianchun~ 33:US ~31:62/972,295
~32:10/02/2020

2022/10049 ~ Complete ~54:MULTI-FUNCTIONAL INTELLIGENT AUTOMATIC FIRE EXTINGUISHING SYSTEM ~71:Zhejiang Zhonghu Network Technology Co., Ltd., East of Room 1, Room 301, Guangming Building, No. 133, Yangguang Avenue, Chengdong Street, Wenling City, Taizhou City, Zhejiang Province, 317500, People's Republic of China ~72: LI, Chunsheng~

2022/10040 ~ Provisional ~54:VIRTUAL SECRETARY (JOY) ~71:Bulk Business Box App, Tsazo Location, South Africa ~72: Zolani Nkuna~ 33:ZA ~31:1 ~32:12/12/2019

2022/10067 ~ Complete ~54:A SYSTEM FOR ELECTROGASTROGRAM IN DETECTION OF GASTRIC DISORDERS AND A METHOD THEREOF ~71:Dr. Ganeshbabu Chidhambaram, B4 - BIT Staff Quarters, Bannari Amman Institute Of Technology, Sathyamangalam, India;Dr. Harikumar Rajaguru, D1 - BIT Staff Quarters, Bannari Amman Institute Of Technology, Sathyamangalam, India;Dr. Sannasichakravarthy Ramaraj, H11 – BIT Staff Quarters, Bannari Amman Institute Of Technology, Sathyamangalam, India;Mrs. Kalaiyarasi Mani, 8/375, Near Manu Workshop, Nehru Nagar, Punjai Puliamatti, India ~72: Dr. Ganeshbabu Chidhambaram;Dr. Harikumar Rajaguru;Dr. Sannasichakravarthy Ramaraj;Mrs. Kalaiyarasi Mani~

2022/10083 ~ Complete ~54:TREATMENT OF LIGHT PYROLYSIS PRODUCTS BY PARTIAL OXIDATION GASIFICATION ~71:Eastman Chemical Company, 200 South Wilcox Drive, KINGSPORT 37660, TN, USA, United States of America ~72: BITTING, Daryl;SLIVENSKY, David Eugene;WU, Xianchun~ 33:US
~31:62/972,274 ~32:10/02/2020

2022/10088 ~ Complete ~54:COMPOSITIONS FROM THE CHEMICAL RECYCLING OF PLASTIC-DERIVED STREAMS AND USES THEREOF ~71:Eastman Chemical Company, 200 South Wilcox Drive, KINGSPORT 37660, TN, USA, United States of America ~72: BILLODEAUX, Damon Ray;BITTING, Daryl;DEBRUIN, Bruce Roger;SLIVENSKY, David Eugene;WU, Xianchun~ 33:US ~31:62/972,293 ~32:10/02/2020

2022/10092 ~ Complete ~54:MICROBIALY PRODUCED PALM OIL SUBSTITUTES ~71:C16 Biosciences, Inc., 619 West 54th Street, 7th Floor, NEW YORK 10019, NY, USA, United States of America ~72: HELLER, David;MCNAMARA, Harold M.;MOEVUS, Corentin;TICKU, Shara;YONG-GONZALEZ, Vladimir~ 33:US
~31:62/972,299 ~32:10/02/2020;33:US ~31:63/061,521 ~32:05/08/2020

2022/10057 ~ Complete ~54:MACHINE-MADE SAND GEOPOLYMER MORTAR AND PREPARATION METHOD THEREOF ~71:Huzhou Vocational and Technical College (Huzhou Radio and Television University) (Huzhou Community University), No. 299, Xuefu Road, Wuxing District, Huzhou City, Zhejiang Province, People's Republic of China ~72: LANG Jianlei;LI Chao;LI Jianhua;XU Xueyong;YANG Xiaonan~

2022/10069 ~ Complete ~54:NOVEL RECOMBINANT CELL SURFACE MARKERS ~71:LYELL IMMUNOPHARMA, INC., 201 Haskins Way, South San Francisco, California, United States of America ~72: BOYKEN, Scott, Edward;LAJOIE, Marc, Joseph;MOFFETT, Howell, Franklin~ 33:US ~31:62/992,806 ~32:20/03/2020;33:US ~31:63/137,022 ~32:13/01/2021

2022/10072 ~ Complete ~54:DEVICE FOR HANDLING CATALYST AND OTHER MATERIAL IN A REACTOR VESSEL ~71:CS CATALYST SERVICES (PTY) LTD, 51 Stella Road, Montaque Gardens, CAPE TOWN 7140, SOUTH AFRICA, South Africa ~72: BARNARD, Jakobus;COLE, Conan;OOSTHUIZEN, Riaan Daniel~ 33:ZA ~31:2020/00893 ~32:12/02/2020

2022/10078 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING AND PREVENTING NON-MALIGNANT RESPIRATORY DISEASE ~71:NOVEL CONCEPTS MEDICAL LTD, Museum Tower, 6-7th Fl 4 Berkovitz Street P.O. Box 31 Tel Aviv, 6423806, Israel ~72: RACHEL ALKALAY~ 33:US ~31:62/992,276 ~32:20/03/2020

2022/10081 ~ Complete ~54:FUNGICIDAL HALOMETHYL KETONES AND HYDRATES AND THEIR MIXTURES ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: ALVIN DONALD JR CREWS;BYRON VEGA-JIMENEZ;EARL WILLIAM REED;HENGBIN WANG;LIANA HIE;RAVISEKHARA P REDDY;ROBERT JAMES PASTERIS;SRINIVAS CHITTABOINA;SRINIVASA RAO UPPALAPATI;TRAVIS CHANDLER MCMAHON;YUZHONG CHEN~ 33:US ~31:63/988,098 ~32:11/03/2020;33:US ~31:62/991,306 ~32:18/03/2020

2022/10086 ~ Complete ~54:HETEROCYCLIC PAD4 INHIBITORS ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: AGARWAL, Piyush;ALAJANGI, Tirupathi Rao;ANTROPOW, Alyssa H.;CHERNEY, Robert J.;CUERVO, Julio Hern~#225;n;DHAR, T. G. Murali;DUNCIA, John V.;GARDNER, Daniel S.;GORMISKY, Paul E.;KUMAR CM, Vijaya;MAHADEVU, Krishna;MIAO, Guobin;MORAMPUDI, Ooha;NAIR, Jalathi S.;NIU, Deqiang;PAIDI, Venkatram Reddy;PANDA, Manoranjan;ROSS, Audrey Graham;SELETSKY, Boris M.;SELVAKUMAR, Kumaravel;SISTLA, Ramesh Kumar;SUBBIAH KARUPPIAH, Arul Mozhi;SURA, Mallikarjun Reddy;THANGATHIRUPATHY, Srinivasan;TINO, Joseph A.;ZHU, Xiao;ZHU, Zhengdong~ 33:IN ~31:202041006146 ~32:12/02/2020

2022/10090 ~ Complete ~54:MONOACYLGLYCEROL LIPASE MODULATORS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: AMERIKS, Michael K.;BERRY, Cynthia B.;GARCIA-REYNAGA, Pablo;LAFORTEZA, Brian Ngo;LIANG, Jimmy T.~ 33:US ~31:62/972,484 ~32:10/02/2020

2022/10096 ~ Provisional ~54:HOE PICK ~71:GAUSAND TRUST, PLOT 7, BOSCHKOP, GAUTENG, South Africa ~72: ANDR JOHANN PIENAAR ~

2022/10043 ~ Complete ~54:MULTI-WAVEFORM COMMUNICATION SYSTEM ~71:Army Academy of Armored forces of PLA, 21 Dujiakan, Fengtai District, Beijing, 100072, People's Republic of China ~72: CHENG, Jie;CUI, Peizhi;LEI, Zhen;SUN, Yan;WANG, Hongqiang;WU, Xixi;ZHAI, Xiaoning;ZHENG, Xianzhu~

2022/10044 ~ Complete ~54:FEEDBACK PRINCIPLE BASED TROLLEY FOR SURVEYING GROUND INFORMATION ~71:QINGDAO JIELIDA GEOGRAPHIC INFORMATION GROUP CO., LTD., Resident in Poli

Town, Huangdao District, Qingdao City, Shandong Province, 266400, People's Republic of China ~72: LI, Kesen;QU, Weirong;ZHANG, Yongsheng~ 33:CN ~31:202210265697.X ~32:17/03/2022

2022/10046 ~ Complete ~54:MACHINE TRANSLATION METHOD AND SYSTEM OF HAUSA PLACE NAME ~71:Chinese Academy of Surveying and Mapping, No. 28, Lianhuachi West Road, Haidian District, Beijing, 100036, People's Republic of China ~72: CHENG, Yao;GAO, Wujun;LU, Wenjuan;MA, Weijun;MAO, Xi;WANG, Jizhou~

2022/10047 ~ Complete ~54:INTELLIGENT ROAD VIDEO SHARING TERMINAL, CONTROL METHOD AND APPLICATION THEREOF ~71:Zhejiang International Maritime College, 268 Haitian Road, Lincheng New District, Zhoushan City, Zhejiang Province, 316021, People's Republic of China ~72: ZHOU, Jianmin~ 33:CN ~31:202210765579.5 ~32:01/07/2022

2022/10048 ~ Complete ~54:MODIFIED ARTIFICIAL FEED FOR COCCINELLA SEPTEMPUNCTATA L ~71:Institute of Plant Protection, Guizhou Academy of Agricultural Sciences, In the Institute of Plant Protection, Guizhou Academy of Agricultural Sciences, Jinzhu Town, Huaxi District, Guiyang City, Guizhou, 550006, People's Republic of China ~72: CHENG, Ying;JIN, Jianxue;LI, Fengliang;LI, Hongbo;LI, Wenhong;ZHOU, Yuhang~

2022/10062 ~ Complete ~54:SUPER HIGH WORKING LAYER GRADUALLY EXPOSED NOZZLE IMPREGNATED DIAMOND DRILL BIT AND PREPARATION METHOD ~71:Jilin university, 2699 Qianjin Dajie, Changchun City, Jilin Province, People's Republic of China ~72: Gao ke;Wang jinlong;Xie xiaobo;Zhang zongzheng;Zhao yan~

2022/10064 ~ Complete ~54:GLUCOAMYLASES AND METHODS OF USE THEREOF ~71:DANISCO US INC, 925 Page Mill Road, Palo Alto, California, 94304, United States of America ~72: BO ZHANG;HELONG HAO;JINAHUA (JALSEN) LI;JING GE;KARSTEN MATTHIAS KRAGH;KUN ZHONG;SHUKUN YU;WENTING LI;XIAOGANG GU;ZHENGZHENG ZOU;ZHONGMEI TANG~ 33:CN ~31:PCT/CN2018/078575 ~32:09/03/2018

2022/10066 ~ Complete ~54:A SMART HRV MONITORING SYSTEM FOR RURAL AREAS USING CLOUD COMPUTING APPROACHES IN IOT ~71:Dr. Pradeep Kumar Mallick, Associate Professor, School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. Arun Kumar Ray, Director (Academics), Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India;Prof. Sasmita Rani Samanta, Vice Chancellor, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, KIIT Road, Patia, Bhubaneswar, India ~72: Dr. Pradeep Kumar Mallick;Prof. Arun Kumar Ray;Prof. Sasmita Rani Samanta~

2022/10068 ~ Complete ~54:A FORMULATION FOR PREPARING MACRO-MOLECULAR COLLOIDS TO TREAT SKIN DISEASES AND A METHOD THEREOF ~71:ESWARAN THANGARAJU, AKT MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY, India;PUGAZHENTHAN THANGARAJU, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH, G E ROAD, India;SAJITHA VENKATESAN, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH, G E ROAD, India;TAMILSELVAN THANGARAJU, SHRI RAMASAMY MEMORIAL UNIVERSITY, 5TH MILE, TADONG, GANGTOK, India ~72: ESWARAN THANGARAJU;PUGAZHENTHAN THANGARAJU;SAJITHA VENKATESAN;TAMILSELVAN THANGARAJU~

2022/10071 ~ Complete ~54:METHODS FOR TREATING EOSINOPHILIC ESOPHAGITIS BY ADMINISTERING AN IL-4R INHIBITOR ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America;SANOFI BIOTECHNOLOGY, 54, rue La Boetie, France ~72: HAMILTON, Jennifer, D.;MALONEY, Jennifer;MANNENT, Leda;RUDDY, Marcella~ 33:US ~31:63/029,085 ~32:22/05/2020;33:US

~31:63/066,705 ~32:17/08/2020;33:US ~31:63/071,264 ~32:27/08/2020;33:US ~31:63/088,147
~32:06/10/2020;33:US ~31:63/121,088 ~32:03/12/2020;33:US ~31:63/144,939 ~32:02/02/2021

2022/10077 ~ Complete ~54:FUNGICIDAL MIXTURES CONTAINING PYRAZOLE DERIVATIVES ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: JEFFREY KEITH LONG;SRINIVAS CHITTABOINA;TRAVIS CHANDLER MCMAHON~ 33:US ~31:62/988,128 ~32:11/03/2020

2022/10095 ~ Provisional ~54:SEE TROUGH COOLER BOX ~71:ZOLANI JOSEPH BROWN, 13622 MBATHA STREET, EMAPHUPHENI, GAUTENG, South Africa ~72: ZOLANI JOSEPH BROWN~

- APPLIED ON 2022/09/12 -

2022/10115 ~ Complete ~54:TREATMENT OF TYPE 2 DIABETES OR OBESITY OR OVERWEIGHT WITH 2-[(4-{6-[(4-CYANO-2-FLUOROBENZYL)OXY]PYRIDIN-2-YL} PIPERIDIN-1-YL)METHYL]-1-[(2S)-OXETAN-2-YLMETHYL]-1H-BENZIMIDAZOLE-6-CARBOXYLIC ACID OR A PHARMACEUTICALLY SALT THEREOF ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: LEE, Kai Teck;MANTHENA, Sweta;SAXENA, Aditi Rao~ 33:US ~31:63/000,787 ~32:27/03/2020;33:US ~31:63/126,113 ~32:16/12/2020;33:US ~31:63/135,870 ~32:11/01/2021

2022/10122 ~ Complete ~54:CONTROL CIRCUIT OF NPC-TYPE THREE-LEVEL CONVERTER, NPC-TYPE THREE-LEVEL CONVERTER AND WIND POWER GENERATOR SET ~71:BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD., No. 19 Kangding Road, Beijing Economic & Technological Development Zone, Daxing District, Beijing, 100176, People's Republic of China ~72: MENG WANG;SONGGE FU~ 33:CN ~31:202010129575.9 ~32:28/02/2020

2022/10125 ~ Complete ~54:PROCESS AND APPARATUS FOR DISTILLATION ~71:TOPSOE A/S, Haldor Topsøe All, 1, 2800, Kgs. Lyngby, Denmark ~72: ESBEN LAUGE SØRENSSEN;JOHANNES QUINTERO;PER JUUL DAHL;TAIS BJERG CLARIDGE~ 33:EP ~31:20182805.0 ~32:29/06/2020

2022/10098 ~ Provisional ~54:MICELLAR MYCOLATE COATED CARBON ELECTRODES FOR ELECTROCHEMICAL IMPEDANCE IMMUNOASSAY (MARTI2) ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: BAUMEISTER, Carl Robert;MOLATSELI, Mosa Jennifer;OKEKE, Ikechukwu, Emmanuel;RAGAVALOO, Arthessa;VERSCHOOR, Jan Adrianus~

2022/10102 ~ Complete ~54:A PROCESS AND COMPOSITION FOR PREPARING PROTEIN RICH PUMPKIN SPROUTED ICE-POPSICLES ~71:A kishore Babu, Lecturer, Centre Of Excellence For Pharmaceutical Sciences, School of Pharmacy, KPJ Healthcare University College, Malaysia;Dr. Chadawalada Arun Kumar, Department of physiology and pharmacology, Chebrolu hanumaiah institute of pharmaceutical sciences, India;Dr. D.V.R.N.Bhikshapathi, Professor & Principal, Teegala Ram Reddy College of Pharmacy, Meerpet, Saroornagar (M), R R Dist, Hyderabad, India;Dr. Kommu Pradeep, Professor, Dept of Pharmaceutics, BA&KR college of Pharmacy, Doddavarapadu, India;Dr. Kotaiah Silakabattini, Professor, Komar University of science and technology, chaq chaq, Qularaisi, Iraq;Dr. Krupavaram, Associate professor, Centre Of Excellence For Pharmaceutical Sciences, School of Pharmacy, KPJ Healthcare University College, Malaysia;Dr. M Venkata Ramana, Professor and Director, Vagdevi college of pharmacy, Gurajala, Guntur district, India;Dr. Rajiv Rajpal kukkar, Professor, Department of pharmacognosy, School of pharmacy, Raffles university, Neembrana, India;Dr. SUNIL KUMAR KADIRI, Associate Professor, Dept. Of Pharmacology, Marri Laxman Reddy Institute Of Pharmacy, Dundigal, India;Dr. cheepurupalli prasad, Professor, Pydah college of pharmacy, Yanam Road, Patavala Tallarevu Mandal, East Godavari District, Kakinada, India ~72: A kishore Babu;Dr. Chadawalada Arun Kumar;Dr. D.V.R.N.Bhikshapathi;Dr. Kommu Pradeep;Dr. Kotaiah Silakabattini;Dr. Krupavaram;Dr. M Venkata Ramana;Dr. Rajiv Rajpal kukkar;Dr. SUNIL KUMAR KADIRI;Dr. cheepurupalli prasad~

2022/10103 ~ Complete ~54:PREPARATION OF A CONFECTIONERY ~71:EMMERSON, Brett Raymond, 22 Kestrel Way, Valley Road, Hout Bay, South Africa ~72: EMMERSON, Brett Raymond~

2022/10107 ~ Complete ~54:MEANS AND METHODS OF PREVENTING AND TREATING INFECTIONS ~71:LEOPOLD GMBH, Emdener Strasse 34, Germany;SOLYPLUS GMBH, Hauptstrasse 8, Germany ~72: ANDERSEN, Richard Dolph;SKRINER, Karl;VOIGT, Andreas~ 33:US ~31:63/010,423 ~32:15/04/2020;33:EP ~31:20216717.7 ~32:22/12/2020

2022/10109 ~ Complete ~54:FUEL COMPOSITION FOR COMBUSTION ~71:The Trustees for the time being of the KMN FULFILMENT TRUST, 8 Kestrel Street, Ebotse Golf Estate, Rynfield, BENONI 1504, SOUTH AFRICA, South Africa ~72: MAKGERU, Kabu Walter~ 33:ZA ~31:2021/05246 ~32:26/07/2021;33:ZA ~31:2021/05855 ~32:17/08/2021

2022/10111 ~ Complete ~54:ANTI-CORONAVIRUS EFFECT AND APPLICATION OF PI4K INHIBITOR ~71:Nuo-Beta Pharmaceutical Technology (Shanghai) Co., Ltd., 4560 Jinke Road, Zhangjiang Hi-Tech Park, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China;The First Affiliated Hospital, Zhejiang University School of Medicine, 79 Qingchun Rd., Shangcheng District, HANGZHOU 310003, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: CAO, Luxiang;HUANG, Fude;JIAO, Changping;LI, Lanjuan;LU, Xiangyun;WANG, Wenan;WU, Nanping;YAO, Hangping~ 33:CN ~31:202010177429.3 ~32:13/03/2020

2022/10113 ~ Complete ~54:SELECTIVE PRODUCTION OF LIGHT SYNTHETIC GASOLINE ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: ANGELICA HIDALGO VIVAS;ARNE KNUDSEN;HENRIK WOLTERS RASMUSSEN;IAN MENJON;OLE FREJ ALKILDE~ 33:US ~31:63/005,852 ~32:06/04/2020;33:EP ~31:20179758.6 ~32:12/06/2020

2022/10123 ~ Complete ~54:PROCESS AND APPARATUS FOR DISTILLATION ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: ESBEN LAUGE SØRENSSEN;JOHANNES QUINTERO;PER JUUL DAHL;TAIS BJERG CLARIDGE~ 33:EP ~31:20182805.0 ~32:29/06/2020

2022/10126 ~ Complete ~54:A GYRATORY CRUSHER, A METHOD FOR ROTATING AN UPPER CRUSHER FRAME AND A RETROFITTING KIT ~71:METSO OUTOTEC USA INC., 20965 Crossroads Circle, Waukesha, 53186, United States of America ~72: CARL NICHOLLS;IAN VANZYL~ 33:SE ~31:2050768-7 ~32:26/06/2020

2022/10119 ~ Complete ~54:VACUUM-ASSISTED ELECTROPORATION DEVICES, AND RELATED SYSTEMS AND METHODS ~71:Inovio Pharmaceuticals, Inc., 660 W. Germantown Pike, Suite 110, PLYMOUTH MEETING 19462, PA, USA, United States of America ~72: BRODERICK, Kate;FISHER, Paul;GENEROTTI, Alison A.;KEMME, Andrea;MCCOY, Jay;SCHADE, Eric~ 33:US ~31:62/992,513 ~32:20/03/2020

2022/10110 ~ Complete ~54:MATERIALS AND METHODS FOR BINDING SIGLEC-3/CD33 ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: DEREBE, Mehabaw Getahun;DOONAN, Patrick John;GANESAN, Rajkumar;GREWAL, Iqbal S.;SINGH, Sanjaya;VENKATARAMANI, Sathyadevi;WIEHAGEN, Karla R.~ 33:US ~31:62/989,071 ~32:13/03/2020;33:US ~31:62/989,093 ~32:13/03/2020;33:US ~31:62/989,120 ~32:13/03/2020;33:US ~31:62/989,187 ~32:13/03/2020;33:US ~31:62/989,230 ~32:13/03/2020

2022/10112 ~ Complete ~54:METHOD FOR TREATING IDH1 INHIBITOR-RESISTANT SUBJECTS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BROOKS, Nathan Arthur;GILMOUR, Raymond~ 33:US ~31:62/993,135 ~32:23/03/2020;33:US ~31:63/024,761 ~32:14/05/2020;33:US ~31:63/151,905 ~32:22/02/2021

2022/10116 ~ Complete ~54:STAT DEGRADERS AND USES THEREOF ~71:Kymera Therapeutics, Inc., 200 Arsenal Yards Blvd., Suite 230, WATERTOWN 02472, MA, USA, United States of America ~72: JI, Nan;YANG, Bin;ZHENG, Xiaozhang;ZHU, Xiao~ 33:US ~31:62/990,555 ~32:17/03/2020;33:US ~31:63/088,945 ~32:07/10/2020;33:US ~31:63/123,335 ~32:09/12/2020;33:US ~31:63/159,102 ~32:10/03/2021

2022/10117 ~ Complete ~54:PROCESS, COMPOSITIONS, AND CRYSTALLINE FORMS OF SUBSTITUTED PYRIDINONE-PYRIDINYL COMPOUNDS ~71:Aclaris Therapeutics, Inc., 640 Lee Road, Suite 200, WAYNE 19087, PA, USA, United States of America ~72: DECRESCENZO, Gary A.;HOCKERMAN, Susan Landis;SPRINGER, John Robert~ 33:US ~31:63/000,746 ~32:27/03/2020;33:US ~31:63/015,241 ~32:24/04/2020;33:US ~31:63/018,954 ~32:01/05/2020;33:US ~31:63/022,298 ~32:08/05/2020;33:US ~31:63/022,301 ~32:08/05/2020;33:US ~31:63/024,160 ~32:13/05/2020;33:US ~31:63/053,903 ~32:20/07/2020;33:US ~31:63/076,689 ~32:10/09/2020;33:US ~31:63/126,173 ~32:16/12/2020;33:US ~31:63/128,523 ~32:21/12/2020;33:US ~31:63/136,080 ~32:11/01/2021;33:US ~31:63/136,967 ~32:13/01/2021;33:US ~31:63/138,672 ~32:18/01/2021;33:US ~31:63/140,116 ~32:21/01/2021;33:US ~31:63/149,230 ~32:13/02/2021

2022/10120 ~ Complete ~54:HEPATIC STEM-LIKE CELLS FOR THE TREATMENT AND/OR THE PREVENTION OF FULMINANT LIVER DISORDERS ~71:Goliver Therapeutics, 8 quai Moncoussu, BP 70721, NANTES CEDEX 1 44007, FRANCE, France;INSERM (Institut National de la Santé et de la Recherche Médicale), 101 rue de Tolbiac, PARIS CEDEX 13 75654, FRANCE, France;Nantes Université, 1 quai de Tourville, NANTES 44000, FRANCE, France ~72: DELBOS, Frédéric;FOURRIER, Angélique;NGUYEN, Tuan Huy;RISPAL, Raphaël~ 33:EP ~31:20305267.5 ~32:13/03/2020

2022/10129 ~ Complete ~54:DRIP IRRIGATION PIPE AND AN IRRIGATION SPOUT THEREOF ~71:NETAFIM LTD, 10 Derech Hashalom, Tel-Aviv, 67892, Israel ~72: ABED MASARWA;YUVAL GABAY~ 33:US ~31:62/994,325 ~32:25/03/2020

2022/10100 ~ Complete ~54:APPARATUS, METHOD AND COMPUTER PROGRAM FOR CONNECTION MANAGEMENT ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: WON, Sung Hwan~

2022/10114 ~ Complete ~54:COMBINATION THERAPY WITH A MUTANT IDH INHIBITOR AND A BCL-2 INHIBITOR ~71:Board of Regents, The University of Texas System, 210 West 7th St., AUSTIN 78701, TX, USA, United States of America;Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BROOKS, Nathan Arthur;DINARDO, Courtney;GILMOUR, Raymond;KONOPLEVA, Marina;SALAMA, Vivian~ 33:US ~31:62/993,166 ~32:23/03/2020;33:US ~31:63/024,743 ~32:14/05/2020

2022/10118 ~ Complete ~54:SYSTEM AND METHOD FOR AUTOMATED ASSEMBLY OF COMPONENTS ~71:KUKA Systems North America LLC, 6600 Center Drive, STERLING HEIGHTS 48312, MI, USA, United States of America ~72: BOULAN, Kenneth Michael;FRENCH, Thomas William;KINSELLA, Aaron K.;MARX, Timothy James;MCISAAC, Scott;MESSNER, Jason Edmunn;NIEMAN, Thomas Jon;NILSON, Craig Richard~ 33:US ~31:63/006,491 ~32:07/04/2020;33:US ~31:17/171,688 ~32:09/02/2021

2022/10128 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING MULTIPLE ORGAN DYSFUNCTION SYNDROME ~71:VIVACELLE BIO, INC., 3060 Nottingham Drive, Shreveport, Louisiana, 71115, United States of America ~72: CUTHBERT SIMPKINS~ 33:US ~31:63/004,769 ~32:03/04/2020

2022/10101 ~ Complete ~54:A RETRACTABLE COMPARTMENT ~71:LUDIK, Riaan, 110 GRASKOP ROAD, WATERKLOOF HEIGHTS, PRETORIA, 0181, SOUTH AFRICA, South Africa ~72: LUDIK, Riaan~

2022/10106 ~ Complete ~54:GLUTAMATE-CYSTEINE LIGASE VARIANT AND METHOD FOR PRODUCING GLUTATHIONE USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: HA, Cheol Woong;IM, Yeong Eun;KIM, Yeonsoo;YANG, Eun Bin~ 33:KR ~31:10-2020-0036456 ~32:25/03/2020

2022/10108 ~ Complete ~54:A BLAST-LIMITING INSTALLATION AND METHOD ~71:MARTINS, Roelof Petrus, 23 Stinkhout Street, KATHU 8446, SOUTH AFRICA, South Africa ~72: MARTINS, Roelof Petrus~ 33:ZA ~31:2021/00489 ~32:25/01/2021

2022/10121 ~ Complete ~54:SAFETY MONITORING APPARATUS FOR INTERNET OF THINGS IN POWER SYSTEM ~71:NANJING VOCATIONAL COLLEGE OF INFORMATION TECHNOLOGY, No. 99, Wenlan Road, Xianlin University Town, Qixia District, Nanjing, People's Republic of China ~72: CHEN, Fan;GU, Zhenfei;LI, Jianlin;LI, Weiyong;LI, Xiang;TANG, Xinyi;YUAN, Xiaoyan~ 33:CN ~31:202010830249.0 ~32:18/08/2020

2022/10124 ~ Complete ~54:METHOD FOR THE TREATMENT OF A METAL SUBSTRATE FOR THE PREPARATION OF ELECTRODES ~71:INDUSTRIE DE NORA S.P.A., Via Bistolfi, 35, 20135 Milan, Italy ~72: ALICE CALDERARA;MARIANNA BRICHESE~ 33:IT ~31:102020000006187 ~32:24/03/2020

2022/10127 ~ Complete ~54:CODON OPTIMIZED GLA GENES AND USES THEREOF ~71:4D MOLECULAR THERAPEUTICS INC., 5858 Horton Street, Suite 455, Emeryville, California, 94608, United States of America ~72: DAVID H KIRN;DAVID SCHAFFER;KEVIN WHITTLESEY;MELISSA KOTTERMAN;PAUL SZYMANSKI;PETER FRANCIS~ 33:US ~31:63/016,207 ~32:27/04/2020;33:US ~31:63/114,195 ~32:16/11/2020

2022/10099 ~ Provisional ~54:METHOD OF DETECTING EARLY SIGNS OF A WILDFIRE AND DETECTING WHICH SUBSTANCE IS CURRENTLY COMBUSTING ~71:SHAWN, 21 CONSTELLATION ROAD, , SUNWARD PARK, , BOKSBURG, , 1459, South Africa ~72: SHAWN TAYLOR~

2022/10104 ~ Complete ~54:TARGET INTERFERENCE MITIGATION IN ANTI-DRUG ANTIBODY ASSAY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHEN, Jihua;KENDRA, Kimberly;OLIVEIRA SUMNER, Giane;TORRI, Albert~ 33:US ~31:62/990,681 ~32:17/03/2020

2022/10097 ~ Provisional ~54:PHTHALOCYANINE NANOWIRE DECORATED TITANIUM DIOXIDE/METAL ORGANIC FRAMEWORK TERNARY NANOCOMPOSITE PHOTOVOLTAIC SYSTEM ~71:Prof Kwena Desmond Modibane, Department of Chemistry, University of Limpopo, South Africa ~72: Dr Katlego Makgopa;Phuti S Ramaripa;Prof Kwena Desmond Modibane~ 33:ZA ~31:1 ~32:09/09/2022

2022/10105 ~ Complete ~54:TERMINAL AND COMMUNICATION METHOD ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 20000 MARINER AVENUE, SUITE 200, TORRANCE, CA 90503, USA, United States of America ~72: IWAI, Takashi;NAKANO, Takayuki;URABE, Yoshio~ 33:JP ~31:2020-044072 ~32:13/03/2020

- APPLIED ON 2022/09/13 -

2022/10131 ~ Provisional ~54:A DIAGNOSTIC DEVICE ~71:HLOMUKA HOLDINGS (PTY) LTD, 238 BLUESTREAM VILLAS, 1 MATT STREET, PRETORIUS PARK, 0081, SOUTH AFRICA, South Africa ~72: NGIDI, Nhlakanipho, Pascal~

2022/10147 ~ Complete ~54:SOLID BEVERAGE OF SPARASSIS CRISPA ~71:Hangzhou Qiandao Lake Xingbao mushroom industry professional cooperative, Jie Shou Xiang Tong Zi Wu Cun, Chun'an County,

Hangzhou City, Zhejiang Province, People's Republic of China; Hangzhou Qiandao Xiugu Biotechnology Co., Ltd., Jie Shou Xiang Tong Zi Wu Cun, Chun'an County, Hangzhou City, Zhejiang Province, People's Republic of China ~72: Aizhen HE; Fugen WANG; Kaicheng YANG; Peng WANG; Shizhu LIU; Wei ZHANG; Zuofa ZHANG~

2022/10153 ~ Complete ~54: AEROSOL-GENERATING ARTICLE HAVING BRIDGING ELEMENT WITH BASIS WEIGHT ~71: PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: CAMUS, Alexandre; CIFTCIOGLU, Yalin; LEKILI, Levent~ 33:EP ~31:20158535.3 ~32:20/02/2020

2022/10160 ~ Complete ~54: HAND DISHWASH DETERGENT COMPOSITION ~71: UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID CHRISTOPHER THORLEY; HANS-CHRISTIAN RATHS; HOLGER MICHAEL TÜRK; JULIE BENNETT; SUSANNE CARINA ENGERT~ 33:EP ~31:20169106.0 ~32:09/04/2020

2022/10172 ~ Complete ~54: RECOMBINANT PROTEIN PRODUCTION IN INSECTS ~71: Proteinea, Inc., 479 Jessie Street, SAN FRANCISCO 94103, CA, USA, United States of America ~72: ADEL, Ahmed; ELGAMMAL, Abdulaziz; ELJENDY, Mahmoud; HASHISH, Rana; MADBOULY, Youssef; MAROUF, Ahmed~ 33:US ~31:62/989,725 ~32:15/03/2020

2022/10139 ~ Complete ~54: IMAGE ENCODING/DECODING METHOD AND DEVICE ~71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu, Republic of Korea ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0034174 ~32:25/03/2018; 33:KR ~31:10-2018-0034882 ~32:27/03/2018; 33:KR ~31:10-2018-0085679 ~32:24/07/2018; 33:WO ~31:PCT/KR2019/003443 ~32:25/03/2019

2022/10146 ~ Complete ~54: WHOLE-STAINING AND CLEARING METHOD FOR FLYBLOW ~71: GUIZHOU MEDICAL UNIVERSITY, No.9 Beijing Road, Yunyan District, Guiyang, Guizhou Province, People's Republic of China ~72: HUANG Jiang; JI Jingyan; JIN Xiaoye; REN Zheng; WANG Qiyang; YANG Meiqing; ZHANG Hongling~

2022/10164 ~ Complete ~54: NEOANTIGENS EXPRESSED IN OVARIAN CANCER AND THEIR USES ~71: Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: BHARGAVA, Vipul; KRISHNA, Vinod; POCALYKO, David J.; SAFABAKHSH, Pegah; SEPULVEDA, Manuel Alejandro~ 33:US ~31:62/976,384 ~32:14/02/2020

2022/10171 ~ Complete ~54: THERAPEUTIC MUSK ANTIBODIES ~71: New York University, 70 Washington Square South, NEW YORK 10012, NY, USA, United States of America; argenx IIP BV, Industriepark Zwijnaarde 7, GHENT 9052, BELGIUM, Belgium ~72: BLANCHETOT, Christophe; BURDEN, Steven J.; KOIDE, Akiko; KOIDE, Shohei; LELOUP, Nadia; OURY, Julien; SILENCE, Karen; VANHAUWAERT, Roeland~ 33:US ~31:63/011,986 ~32:17/04/2020; 33:US ~31:63/038,633 ~32:12/06/2020; 33:US ~31:63/112,375 ~32:11/11/2020

2022/10136 ~ Complete ~54: CONTROL DEVICE FOR REMOTELY ACCESSING AND MANAGING BATTERY ~71: ANQING NORMAL UNIVERSITY, No.128 Linghu South Road, Daguan District, Anqing City, Anhui Province, People's Republic of China; Anqing Branch of China Telecom Co., LTD, No.168, Zhenfeng Avenue, Yixiu District, Anqing City, Anhui Province, People's Republic of China; Xiaoxian Xinhuiyuan Battery Co., Ltd., Building 2, Phase II standardized Workshop, Intersection of Buyun Road and Tianmen, Xiaoxian Economic Development Zone, Suzhou City, Anhui Province, People's Republic of China ~72: GAO Guangbin; JIANG Jiansheng; WANG Yibin; WANG Yijun; ZHU Yanping~

2022/10143 ~ Complete ~54: USE OF LINC01978 INHIBITOR IN PREPARATION OF MEDICAMENT FOR TREATING COLORECTAL CANCER ~71: Yancheng Teachers University, No. 2, South Road of Xiwang Avenue, Yancheng, Jiangsu Province, 224007, People's Republic of China ~72: GAO, Xueren; ZHAO, Yining~ 33:CN ~31:202210941154.5 ~32:08/08/2022

2022/10155 ~ Complete ~54:ANTIFUNGAL (1, 3)-BETA-D-GLUCAN MONOCLONAL ANTIBODY, ENCODING GENE, EXPRESSION AND APPLICATION THEREFOR ~71:HEBEI COLLEAD BIOTECH CO., LTD., Room 308 of Building D, Workshop No.201, Beijing-Tianjin-Hebei Collaborative Innovation Demonstration Park, No.769 of Taihang South Street, High-tech District Shijiazhuang, People's Republic of China ~72: LI, Ning;PENG, Bo;TAN, Shaochen~ 33:CN ~31:202111045511.1 ~32:07/09/2021

2022/10159 ~ Complete ~54:AEROSOL COMPOSITION FOR SANITIZATION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID JONATHAN TROPIA;DAVID JONES;JABIR GULAB SAYYED;KIRTI SHARMA~ 33:IN ~31:202021018490 ~32:30/04/2020;33:EP ~31:20179870.9 ~32:15/06/2020

2022/10165 ~ Complete ~54:A METHOD AND SYSTEM FOR LUBRICATING ONE OR MORE ROTARY BEARINGS ~71:SDT International SA-NV, Boulevard de l'Humanité, 415, BRUXELLES 1190, BELGIUM, Belgium ~72: MACHADO, Charles;TROBRADOVIC, Haris~ 33:EP ~31:20162123.2 ~32:10/03/2020

2022/10132 ~ Complete ~54:SEPARATION AND CULTURING METHOD FOR SMALL YELLOW FOLLICLE GRANULE CELLS OF MEAT PIGEONS ~71:Yangzhou University, No. 88, Daxue South Road, Yangzhou City, Jiangsu Province, 225009, People's Republic of China ~72: GUO, Zhenyu;WANG, Ying;YANG, Haiming;ZHANG, Chi~

2022/10140 ~ Complete ~54:METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu, Republic of Korea ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0037812 ~32:01/04/2018;33:WO ~31:PCT/KR2019/003777 ~32:01/04/2019

2022/10152 ~ Complete ~54:A FEEDING EQUIPMENT AND BREEDING METHOD FOR PROMOTING TIBETAN PIG REPRODUCTION ~71:Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry, No.72, Duodi Road, Chengguan District, Lhasa City, Xizang Province, 850009, People's Republic of China ~72: Ba-Sang-Wang-Dui;Changhui Xu;Ci-Dan-Yang-Ji;Fengbo Sun;Guangming Sun;Haiyu Han;Jinhui Wang;Luo-Sang-Dun-Zhu;Sensen Chai;Yanbin Zhu~

2022/10173 ~ Complete ~54:METHOD FOR CLOSING A KNITTED TUBULAR ARTICLE AT AN AXIAL END THEREOF ~71:Lonati S.p.A., Via Francesco Lonati, 3, BRESCIA 25124, ITALY, Italy ~72: LONATI, Ettore;LONATI, Fausto;LONATI, Francesco~ 33:IT ~31:102020000023137 ~32:01/10/2020

2022/10130 ~ Provisional ~54:SEGMENTED MIXING AUGER ~71:Mark Ralph Haley, No 4 North Willow 24 Noorde St, South Africa;Raymond Cyril Staines, Farm Klein Brakfontein,27 R500 Fochville Road, South Africa ~72: Mark Ralph Haley;Raymond Cyril Staines~

2022/10137 ~ Complete ~54:SHELL-KERNEL SEPARATING DEVICE FOR AUTOMATIC WALNUT PROCESSING ~71:Tarim University, 1487 East Tarim Dadao, Alar City, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: FAN Xiuwen;LI Guowei;LIU Shifan;ZHANG Hong;ZHANG Rui;ZHANG Yongcheng~

2022/10149 ~ Complete ~54:A FLIGHT PATH PLANNING METHOD FOR MULTI-UAV COOPERATIVE WORK BASED ON IMPROVED ANT COLONY ALGORITHM IN MULTI-CONSTRAINED COMPLEX ENVIRONMENT ~71:Zhengzhou University of Aeronautics, No.15, Wenyuan West Road, Zhengdong New District, Zhengzhou City, Henan Province, 450046, People's Republic of China ~72: Fang Huan;Guo LeiLei;Han XinYu;Wang XiuHong~

2022/10167 ~ Complete ~54:BONE PLATE HOLE CAPS, BONE PLATE SYSTEMS, AND METHODS USING SAME ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: DACOSTA, Albert;HARTSON, Kyle James;HUNT, Richard David;MILLER, Shane;RAYMOND, Spanky~ 33:US ~31:62/976,662 ~32:14/02/2020

2022/10133 ~ Complete ~54:METHODOLOGY FOR DISTINGUISHING INFLUENCE RANGE OF MICA MINERALS IN YANGTZE RIVER AND YELLOW RIVER ~71:JIAYING UNIVERSITY, No. 100, Meisong Road, Meijiang District, Meizhou City, Guangdong Province, People's Republic of China ~72: DONG Zhicheng;JIN Bingfu;ZHANG Lina~

2022/10144 ~ Complete ~54:IMPROVED LEATHER DEFECT SEGMENTATION NETWORK ALGORITHM BASED ON SEGNET ~71:Quanzhou Institute of Equipment Manufacturing, No.166,Xidong Road, Sunei Community, Luoshan Street, Jinjiang City, Quanzhou City, Fujian Province, People's Republic of China ~72: HAN Jun;HUANG Huiling~

2022/10154 ~ Complete ~54:COMPOSITIONS, KITS, METHODS AND USES FOR CLEANING, DISINFECTING, STERILIZING AND/OR TREATING ~71:COLLIDION, INC., 1770 CORPORATE CIRCLE, PETALUMA, CALIFORNIA 94954, USA, United States of America ~72: ALIM, Hojabr;PRASAD, Sridhar, Govinda;SINHA, Santosh, C.~ 33:US ~31:62/977,095 ~32:14/02/2020

2022/10174 ~ Provisional ~54:ATTENTIVE DRIVERS SYSTEM (ADS) ~71:Sakhile Hopewell Ntuli, 1351 Ext 05 Empumelelweni Ward 29, South Africa ~72: Sakhile Hopewell Ntuli~

2022/10135 ~ Complete ~54:BLACK TEA AND PREPARATION METHOD THEREOF ~71:Huangshan University, No.39 Xihai Road, Tunxi District, Huangshan City, Anhui Province, People's Republic of China;Huangshan Xin' an yuandongcha research institute co., ltd, No.10 Qiyun East Avenue, Haiyang Town, Xiuning County, Huangshan City, Anhui Province, People's Republic of China ~72: FANG Guoqiang;GAN Zhuoting;HUANG Yisheng;YAO Ting;ZHANG Na~

2022/10142 ~ Complete ~54:METHODOLOGY FOR IMPLEMENTING USER-MODE THREAD ~71:Guangdong Open University(Guangdong Polytechnic Institute), No. 1 Xiatang West Road, Yuexiu District, Guangzhou City, Guangdong Province, 510000, People's Republic of China ~72: CAI, Bin;CHEN, Yazhi;CHENG, Yongchang;LI, Ke;LI, Meiman;QIU, Bingcheng;XIAO, Xiaohong;XIE, Jiangang;YAO, Jian;YU, Qiang~

2022/10156 ~ Complete ~54:AN ANTITHROMBOTIC MOLECULE HAVING APAC ACTIVITY FOR THE PREVENTION AND/OR TREATMENT OF THROMBOCYTOPENIA ~71:APLAGON OY, Biomedicum Helsinki 2A Tukholmankatu, Finland ~72: LASSILA, Riitta~ 33:GB ~31:2006960.5 ~32:12/05/2020

2022/10158 ~ Complete ~54:TOPICAL COMPOSITION BASED ON POROUS PARTICLES AND A CROSSPOLYMER COMPRISING ADIPIC ACID AND NEOPENTYLGLYCOL ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: LIN WANG;XIUJUAN CAO~ 33:CN ~31:PCT/CN2020/082322 ~32:31/03/2020;33:EP ~31:20174419.0 ~32:13/05/2020

2022/10169 ~ Complete ~54:COMPOSITE, PROCESS FOR PREPARING THE COMPOSITE, AND IMPLEMENTATION THEREOF ~71:Sea6 Energy Pvt. Ltd., Centre for Cellular and Molecular Platforms (C-CAMP), NCBS-TIFR, GKVK Campus, Bellary Road, KARNATAKA 560065, BANGALORE, INDIA, India ~72: AYYAKKALAI, Balamurugan;NORI, Sri Sailaja;RAMESH, Praneeth Srivanth;SURYANARAYAN, Shrikumar;VANTHARAM VENKATA, Hemanth Giri Rao~ 33:IN ~31:202041011997 ~32:19/03/2020

2022/10141 ~ Complete ~54:METHODOLOGY AND DEVICE FOR CODING/DECODING IMAGE USING INTRA PREDICTION ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu, Republic of Korea ~72: KIM, Ki Baek~

2022/10148 ~ Complete ~54:GRU NETWORK MODEL BASED ON ORDINARY DIFFERENTIAL EQUATION, AND FEATURE EXTRACTION METHOD AND DEVICE ~71:Army Medical University, No. 30, Gaotanyan Street, Shapingba District, Chongqing, 400038, People's Republic of China ~72: DU, Wenqiong;HUANG, Junjian;JIA, Yijun;JIANG, Renqing;YANG, Haoyang;ZHONG, Xin;ZHOU, Xiaolin;ZONG, Zhaowen~ 33:CN ~31:202111080690.2 ~32:15/09/2021

2022/10151 ~ Complete ~54:A TRADITIONAL CHINESE MEDICINE PREPARATION FOR THE TREATMENT OF "POSTPARTUM COLD" ~71:Fanyan Meng, No. 1-6-1, Building 33, Group B, Jiayun Tiancheng, East Second Ring Road, Xixiu District, Anshun City, Guizhou Province, 561000, People's Republic of China;Tao Gu, No. 1-6-1, Building 33, Group B, Jiayun Tiancheng, East Second Ring Road, Xixiu District, Anshun City, Guizhou Province, 561000, People's Republic of China ~72: Fanyan Meng;Tao Gu~

2022/10161 ~ Complete ~54:LAUNDRY DETERGENT COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID CHRISTOPHER THORLEY;HANS-CHRISTIAN RATHS;HOLGER MICHAEL TURK;JULIE BENNETT;SUSANNE CARINA ENGERT~ 33:EP ~31:20169106.0 ~32:09/04/2020

2022/10163 ~ Complete ~54:RECYCLED RESIN COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ARJIT AJAY GADGEEL;SANDIP DAS;SHASHANK TEJRAO MHASKE;THEJASWI SESA KURUGANTI~ 33:EP ~31:20167996.6 ~32:03/04/2020

2022/10138 ~ Complete ~54:WING PLATE TYPE ANTI-REVERSE STRUCTURE WITH SIDE CUTTER GROOVE ~71:Northwest Institute of Eco-Environment and Resources,CAS, No.320, Donggang West Road, Lanzhou, Gansu Province, People's Republic of China ~72: GUO Zhilong;QI Lulu;SHANGGUAN Donghui~

2022/10157 ~ Complete ~54:DETERGENT COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DIETMAR ANDREAS LANG;IAN MALCOLM TUCKER;MARK LAWRENCE THOMPSON;SARAH LOUISE HOSKING~ 33:EP ~31:20164151.1 ~32:19/03/2020

2022/10168 ~ Complete ~54:PERSONAL RESPIRATORY ISOLATION SYSTEM ~71:Flexsys, Inc., 2205 Commonwealth Blvd, ANN ARBOR 48105 , MI, USA, United States of America;The Regents of the University of Michigan, Office of Technology Transfer, 1600 Huron Parkway, 2nd Floor, ANN ARBOR 48109-2590, MI, USA, United States of America ~72: HORNICK, David;KOTA, Shalini Sarala;KOTA, Sridhar;WARD, Kevin R.~ 33:US ~31:63/002,120 ~32:30/03/2020;33:US ~31:63/005,117 ~32:03/04/2020;33:US ~31:63/010,208 ~32:15/04/2020

2022/10170 ~ Complete ~54:MDM2 DEGRADERS AND USES THEREOF ~71:Kymera Therapeutics, Inc., 200 Arsenal Yards Blvd., Suite 230, WATERTOWN 02472, MA, USA, United States of America ~72: JI, Nan;WEISS, Matthew M.;ZHENG, Xiaozhang;ZHU, Xiao~ 33:US ~31:62/991,763 ~32:19/03/2020;33:US ~31:63/123,315 ~32:09/12/2020

2022/10145 ~ Complete ~54:PHOTOSENSITIVE NANOMATERIAL, PREPARATION METHOD AND APPLICATION THEREOF ~71:The Affiliated Wuxi Maternity and Child Health Care Hospital of Nanjing Medical University, No.48 Huaishu Lane, Liangxi District, Wuxi City, Jiangsu Province, People's Republic of China ~72: CHEN Daozhen;CHEN Yu;LI Su;LU Mudan;MING Lan;SU Chen;YANG Rui~

2022/10150 ~ Complete ~54:EXTRACTION DEVICE ASSEMBLY ~71:SOUTH AFRICAN MEDICAL RESEARCH COUNCIL, Francie Van Zijl Drive Parow Valley, South Africa;STELLENBOSCH UNIVERSITY, Admin B, Victoria

Street, Stellenbosch, South Africa ~72: DIJKSTRA, Stephan;NIEUWOUDT, Martinus Johannes;THERON, Grant De Vos;VENTER, Rouxjeane;WARREN, Robin Mark~ 33:ZA ~31:2021/06784 ~32:14/09/2021

2022/10162 ~ Complete ~54:AN AQUEOUS LAUNDRY TREATMENT COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AKASH AR;NARAYANAN SUBRAHMANYAM;PINTU PAUL;RAMASUBRAMANIAM RAJAGOPAL;RAMYA SAMPATH KUMAR;SAMIRAN MAHAPATRA;SRILAXMI VENKATA MEDEPALLI~ 33:IN ~31:202021018234 ~32:28/04/2020;33:EP ~31:20179157.1 ~32:10/06/2020

2022/10166 ~ Complete ~54:COMPLEX CAVITY PROFILE STRAIGHTENING AND STRETCHING DEVICE AND METHOD ~71:Foshan JMA Aluminium Industry Co., Ltd, No. 1, Xiaotang Nanhai Nonferrous Metals Industrial Park, Shishan Town, Nanhai District, FOSHAN 528000, GUANGDONG, CHINA (P.R.C.), People's Republic of China;Guangdong JMA Aluminum Profile Factory (Group) Co., Ltd, Fengchi Industrial Area, Dali Town, Nanhai District, FOSHAN 528200, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN , Jian;DING, Xingyu;GAO, Sentian;RUAN, Taotao;TENG, Guangbiao~ 33:CN ~31:202011634421.1 ~32:31/12/2020

2022/10134 ~ Complete ~54:METHOD FOR DISTINGUISHING MICA SUBSTANCES IN YANGTZE RIVER AND YELLOW RIVER ~71:JIAYING UNIVERSITY, No.100, Meisong Road, Meijiang District, Meizhou City, Guangdong Province, People's Republic of China ~72: DONG Zhicheng;JIN Bingfu;ZHANG Lina~

- APPLIED ON 2022/09/14 -

2022/10179 ~ Provisional ~54:A DEVICE FOR INACTIVATING BIOLOGICAL MATERIAL ~71:Corneilus Ssemakaklu, 456 North Fork, Frikkie Meyer Blvd, South Africa;Mark Trevor Johnson, 16, Capri Drive, South Africa ~72: Dr Cornelius Ssemakalu;Mark Trevor Johnson~

2022/10180 ~ Complete ~54:AUTOMATIC FIRE HOSE WINDING DEVICE ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 11, Fushun Road, Shibei District, Qingdao City, Shandong Province, People's Republic of China ~72: GE Xiaohan;KANG Ke~39;nan;KONG Qingdong;WANG Yong~

2022/10193 ~ Complete ~54:A TIBETAN PIG BREEDING EQUIPMENT AND METHOD BASED ON CIRCULATION COOLING TECHNOLOGY ~71:Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry, No.72, Duodi Road, Chengguan District, Lhasa City, Xizang Province, 850009, People's Republic of China ~72: Ba-Sang-Wang-Dui;Changhui Xu;Ci-Dan-Yang-Ji;Fengbo Sun;Guangming Sun;Haiyu Han;Jinhui Wang;Luo-Sang-Dun-Zhu;Sensen Chai;Yanbin Zhu~

2022/10200 ~ Complete ~54:A PEDESTAL LINER ~71:LEGER, Jean-Patrick, 15 BRUCE STREET, WAVERLEY, JOHANNESBURG 2090, SOUTH AFRICA, South Africa ~72: LEGER, Jean-Patrick~ 33:ZA ~31:2020/01068 ~32:20/02/2020;33:ZA ~31:2020/02795 ~32:15/05/2020

2022/10205 ~ Complete ~54:IMPROVED SOLVENTS FOR ACETYLENE FLUID STORAGE ~71:Praxair Technology, Inc., 10 Riverview Drive, DANBURY 06810, CT, USA, United States of America ~72: KANE, William S.;SINHA, Ashwini K.;SONG, Xuemei~ 33:US ~31:62/978,989 ~32:20/02/2020;33:US ~31:63/129,805 ~32:23/12/2020;33:US ~31:17/177,636 ~32:17/02/2021

2022/10208 ~ Complete ~54:APPARATUS FOR EXTRACTING OIL FROM PLANT MATERIAL ~71:MACH Technologies, 400 Renaissance Center, Suite 2600, DETROIT 48243, MI, USA, United States of America ~72: WIRTZ, Jason T.;WIRTZ, John W. II;WIRTZ, Robert N.~ 33:US ~31:62/982,180 ~32:27/02/2020;33:US ~31:62/982,188 ~32:27/02/2020;33:US ~31:63/006,343 ~32:07/04/2020

2022/10212 ~ Complete ~54:COATING AGENT PUMP, COATING INSTALLATION AND ASSOCIATED OPERATING METHOD ~71:DÜRR SYSTEMS AG, Carl-Benz-Straße 34, 74321, Bietigheim-Bissingen, Germany ~72: ERHARD KUBACH;HERBERT MARTIN;MANFRED MICHELFELDER~ 33:DE ~31:10 2020 109 973.8 ~32:09/04/2020

2022/10218 ~ Complete ~54:MODULAR ELECTRONIC BRAKE SYSTEM ~71:CARLISLE INDUSTRIAL BRAKE & FRICTION, 6160 Cochran Road, Solon, United States of America ~72: BOULIVAN, Guillaume;CAREY, Sean;RHEAD, Philip~ 33:US ~31:62/987,598 ~32:10/03/2020

2022/10223 ~ Complete ~54:DNA BARCODE FOR RECOGNIZING ORIGINAL PLACE OF FLOCCULARIA LUTEOVIRENS ~71:YANG, Manjun, A21-3-402, WEST CAMPUS OF TIBET VOCATIONAL TECHNICAL COLLEGE, LUODUI WEST ROAD, People's Republic of China ~72: YANG, Manjun~ 33:CN ~31:202111401642.9 ~32:19/11/2021

2022/10186 ~ Complete ~54:INTRA PREDICTION-BASED VIDEO ENCODING/DECODING METHOD AND DEVICE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu, Republic of Korea ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0173164 ~32:28/12/2018;33:KR ~31:10-2018-0173228 ~32:29/12/2018;33:WO ~31:PCT/KR2019/018740 ~32:30/12/2019

2022/10192 ~ Complete ~54:YAK FEED WITH HIGH CONVERSION RATE AND PREPARATION METHOD ~71:Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry, No.72, Duodi Road, Chengguan District, Lhasa City, Xizang Province, 850009, People's Republic of China ~72: Ba-Sang-Wang-Dui;Ci-Dan-Yang-Ji;Ci-Yang;Guangming Sun;Luo-Sang-Dun-Zhu;Luo-Sang-Zha-Xi;Suo-Lang;Suo-Lang-Zha-Xi;Xin Li;Yanbin Zhu~

2022/10202 ~ Complete ~54:MEASUREMENT IDENTITIES COORDINATION BETWEEN MASTER NODE AND SECONDARY NODE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: ORSINO, Antonino~ 33:US ~31:63/007,904 ~32:09/04/2020

2022/10211 ~ Complete ~54:CELL CULTURE, METHOD FOR EVALUATING CELL CULTURE, METHOD FOR PRODUCING CELL CULTURE, AND MARKER FOR EVALUATING CARTILAGE-LIKE TISSUE FORMING PROPERTY ~71:CELLSEED INC., Telecom Center Building, 2-5-10, Aomi, Japan;TOKAI UNIVERSITY EDUCATIONAL SYSTEM, 10-2, Tomigaya 2-chome, Japan ~72: KAWAGUCHI, Yuka;MIYAZAWA, Michihide;SATO, Chikako;SATO, Masato;SONG, Dandan;TAKAHASHI, Takumi;TOHYAMA, Chiharu;TSUNODA, Satoshi~ 33:JP ~31:2020-044265 ~32:13/03/2020

2022/10220 ~ Complete ~54:PRETREATMENT METHOD, PRETREATMENT SOLUTION, KIT FOR VIRUS NUCLEIC ACID DETECTION, AND USE THEREOF ~71:SANSURE BIOTECH INC., No. 680, Lusong Road, Hi-Tech Development Zone, Changsha, Hunan, 410205, People's Republic of China ~72: DAI, Lizhong;DENG, Zhongping;FAN, Xu;JI, Bozhi;LIU, Jia;TAN, Deyong~ 33:CN ~31:202010143226.2 ~32:04/03/2020

2022/10225 ~ Complete ~54:DNA BARCODE FOR SCREENING TOTAL POLYPHENOL CONTENT INDEX OF FLOCCULARIA LUTEOVIRENS ~71:YANG, Manjun, A21-3-402, WEST CAMPUS OF TIBET VOCATIONAL TECHNICAL COLLEGE, LUODUI WEST ROAD, People's Republic of China ~72: YANG, Manjun~ 33:CN ~31:202111399047.6 ~32:19/11/2021

2022/10184 ~ Complete ~54:TRANSPORT VEHICLE FOR LIBRARY ~71:Xuzhou College of Industrial Technology, Xiangwang Road, Gulou District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Lei Shuiwang;Ning Junsheng~

2022/10177 ~ Provisional ~54:A SUPPORT ~71:MCGOWAN, Cheryl, Diane, 43 VIVA LA VIDA, LEITH ROAD, BARTLETT, BOKSBURG, 1459, SOUTH AFRICA, South Africa ~72: MCGOWAN, Cheryl, Diane;WHITE, Trevor, Edwin~

2022/10181 ~ Complete ~54:IDENTIFICATION METHOD AND DEVICE FOR AUTOMATICALLY TRACKING AND POSITIONING FIRE SOURCE POINTS BASED ON MACHINE VISION ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 11, Fushun Road, Shibei District, Qingdao City, Shandong Province, People's Republic of China ~72: GE Xiaohan;KANG Ke~#39;nan;KONG Qingdong;WANG Yong~

2022/10185 ~ Complete ~54:DIRECT SEEDING DEVICE AND CULTIVATOR ~71:Hainan University, No 58, Renmin Avenue, Meilan District, Haikou, Hainan~#160;province, 570228, People's Republic of China ~72: Baolong Wang;Hongyan Liu;Tianyu Tan;Yi Na;Yihong Pan~ 33:CN ~31:202111160276.2 ~32:30/09/2021

2022/10188 ~ Complete ~54:A FABRICATED MAKESHIFT ROAD AND ITS FABRICATION METHOD ~71:HENAN PROVINCIAL COMMUNICATIONS PLANNING & DESIGN INSTITUTE CO., LTD., No. 9 Zeyu Street, Zhengdong New District, Zhengzhou City, People's Republic of China ~72: CHEN, Kepeng;HAO, Menghui;KANG, Cunli;LI, Jun;LI, Liyuan;LIU, Na;ZHANG, Hao;ZHANG, Xiaowei~

2022/10197 ~ Complete ~54:METHOD FOR THE PRODUCTION AND PURIFICATION OF MULTIVALENT IMMUNOGLOBULIN SINGLE VARIABLE DOMAINS ~71:ABLYNX NV, Technologiepark 21, Zwijnaarde, Belgium ~72: BORSALI, Chakib;BRIG~#201;, Ann;LETESTU, Sonia;MADURA, Florian;MERCHERS, Tom;VAN HOREN, Ellen~ 33:EP ~31:20166803.5 ~32:30/03/2020

2022/10201 ~ Complete ~54:TOXIN GENE AND METHODS FOR ITS USE ~71:BASF AGRICULTURAL SOLUTIONS SEED US LLC, 100 PARK AVENUE, FLORHAM PARK, NEW JERSEY 07932, USA, United States of America ~72: CARDOZA, Yasmin;CHOUGULE, Nanasaheb;DING, Lei;DOOLEY, Margaret;EBERLE, Timothy;LEHTINEN, Duane;ZAITSEVA, Jelena~ 33:US ~31:62/979,868 ~32:21/02/2020

2022/10206 ~ Complete ~54:HIGH TEMPERATURE HYDRIDE MODERATOR ENABLING COMPACT AND HIGHER POWER DENSITY CORES IN NUCLEAR MICRO-REACTORS ~71:Westinghouse Electric Company LLC, 1000 Westinghouse Drive, Suite 141, CRANBERRY TOWNSHIP 16066, PA, USA, United States of America ~72: ARAFAT, Yasir;DASARI, Venkateswara Rao;LEVINSKY, Alex;VAN WYK, Jurie J.~ 33:US ~31:62/984,591 ~32:03/03/2020

2022/10213 ~ Complete ~54:PRISM FOR REPOINTING REFLECTOR ANTENNA MAIN BEAM ~71:ALL.SPACE NETWORKS LIMITED, 40rty Caversham Road, Reading, Berkshire, RG1 7EB, United Kingdom ~72: JEREMIAH P TURPIN;JOHN FINNEY~ 33:US ~31:62/981,367 ~32:25/02/2020

2022/10268 ~ Provisional ~54:GASIFIER ~71:HERMANUS CHRISTOFFEL PETRUS HUMAN, 10a Chanclyff Road, South Africa ~72: HERMANUS CHRISTOFFEL PETRUS HUMAN;JAN PETRUS HUMAN~

2022/10178 ~ Provisional ~54:METHOD OF COMMUNICATION ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: GUEST, Ian William~

2022/10182 ~ Complete ~54:AN IMAGE-BASED MEASUREMENT METHOD FOR CROSS-SECTION DIMENSIONS OF CONSTRUCTION STEEL PIPE ~71:North China University of Science and Technology, 21 Bohai Road, Caofeidian Xincheng, Tangshan, Hebei, People's Republic of China ~72: Ning Xuebin;Qin Zhihu;Suo Yina;Wu Yafeng;Yu Fuxing~

2022/10189 ~ Complete ~54:A HIGH PRECISION HEXAGONAL SPIRAL SILICON DRIFT DETECTOR
~71:LUDONG UNIVERSITY, Ludong University, Yantai, People's Republic of China ~72: CAI, Xinyi;LI,
Xiaodan;LI, Xinqing;LI, Zheng;SUN, Jiaxiong;TAN, Zewen~

2022/10196 ~ Complete ~54:AN ARTIFICIAL INTELLIGENCE ENABLED SECURE BLOCKCHAIN SYSTEM
FOR HEALTHCARE APPLICATION ~71:Dr. Gerard Deepak, Assistant Professor, Department of CSE, Manipal
Institute of Technology Bengaluru, Manipal Academy of Higher Education, India;Dr. Idimadakala Nagaraju,
Professor, Department of CSE, Malla Reddy College of Engineering And Technology, Hyderabad, India;Dr.
Kalarani Senthilkumar, Professor, Department of Information Technology, St Joseph's Institute of Technology,
OMR, Chennai, India;Dr. Pulugu Dileep, Professor, Department of CSE, Malla Reddy College of Engineering And
Technology, Hyderabad, India;Dr. Shaik Mohammad Rafi, Professor, Department of CSE, Sri Mittapalli College of
Engineering, Guntur, India;Dr. Baranitharan Kannan, Associate Professor, Department of CSE, VSB Engineering
College, Karudapalayam, Karur, India;Hariprasath Subbarao, Assistant Professor, Department of ECE,
Saranathan College of Engineering, Trichy, India;Jayachitra Sekar, Assistant Professor, Department of ECE,
PSNA College of Engineering and Technology, Dindigul, India ~72: Dr. Gerard Deepak;Dr. Idimadakala
Nagaraju;Dr. Kalarani Senthilkumar;Dr. Pulugu Dileep;Dr. Shaik Mohammad Rafi;Dr. Baranitharan
Kannan;Hariprasath Subbarao;Jayachitra Sekar~

2022/10207 ~ Complete ~54:TOWING ARRANGEMENT AND MOBILE WORK MACHINE ~71:Sandvik Mining
and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: MIKKOLA, Mr. Jussi~ 33:EP
~31:20169552.5 ~32:15/04/2020

2022/10219 ~ Complete ~54:FILM PRODUCTION PROCESS ~71:ANQING KANGMINGNA PACKAGING CO.,
LTD, No. 8, Wuxiang Road, Daqiao Sub District, Yixiu District, Anqing City, People's Republic of China ~72: LI,
Tuotuo;LONG, Qicheng~ 33:CN ~31:202210307336.7 ~32:25/03/2022

2022/10226 ~ Complete ~54:DNA BARCODE FOR SCREENING TOTAL SOLUBLE PROTEIN CONTENT
INDEX OF FLOCCULARIA LUTEOVIRENS ~71:YANG, Manjun, A21-3-402, WEST CAMPUS OF TIBET
VOCATIONAL TECHNICAL COLLEGE, LUODUI WEST ROAD, People's Republic of China ~72: YANG, Manjun~
33:CN ~31:202111399048.0 ~32:19/11/2021

2022/10176 ~ Provisional ~54:"SMART SHOWER CLAMP" ~71:Diego Singer, Prince str 8 , Atholone Park, South
Africa ~72: Diego Singer~

2022/10183 ~ Complete ~54:DEVICE AND METHOD FOR NONDESTRUCTIVE AND SAFE DISCHARGE OF
SPENT CYLINDRICAL POWER BATTERIES ~71:Shanghai Polytechnic University, No.2360 Jinhai Road,
Pudong New Area, Shanghai, People's Republic of China ~72: HUANG Qing;WU Yuxin;XU Lijun;YUAN
Wenyi;ZHANG Jinyu~ 33:CN ~31:202210639629.5 ~32:07/06/2022

2022/10187 ~ Complete ~54:QUALITY-PRESERVING AND DRYING METHOD OF CYPERUS ESCULENTUS L.
~71:Jilin Agricultural University, 2888 Xincheng Street, Nanguan District, Changchun City, Jilin Province, People's
Republic of China ~72: LIU Tingting;WANG Dawei;ZHANG Yanrong~

2022/10190 ~ Complete ~54:A LASER DRILLING THREE-DIMENSIONAL SPHERICAL ELECTRODE
DETECTOR, DESIGN METHOD AND APPLICATION THEREOF ~71:LUDONG UNIVERSITY, Ludong
University, Yantai, People's Republic of China ~72: CAI, Xinyi;LI, Xiaodan;LI, Xinqing;LI, Zheng;SUN,
Jiaxiong;TAN, Zewen~

2022/10191 ~ Complete ~54:GRAPE SEED MEAL EXTRACT TARGETING QUORUM SENSING AND
PREPARATION METHOD THEREOF ~71:Shihezi University, Beisi Road, Shihezi, Xinjiang Uygur Autonomous

Region, 832000, People's Republic of China ~72: Cheng Chen;Cunxi Nie;Hailiang Wang;Junli Niu;Wenju Zhang;Yanyan Wu;Yuanyuan Li~ 33:CN ~31:202210373135.7 ~32:11/04/2022

2022/10195 ~ Complete ~54:ISOLATING SWITCH CONTROL CABINET FOR POWER TRANSFORMATION OPERATION ~71:Yinchuan Electric Power Supply Company of State Grid Ningxia Electric Power Co., Ltd., No. 222, Xinchang Road, Jinfeng District, Yinchuan City, Ningxia Hui Autonomous Region, 750001, People's Republic of China ~72: Haomiao Zhang;Zhe Jing~

2022/10198 ~ Complete ~54:FRICITION STIR WELDING TOOL AND METHOD FOR PRODUCING SAME ~71:STIRTEC GMBH, INDUSTRIESTRAßE 41, 8141 PREMSTÄTTEN, AUSTRIA, Austria ~72: CALISKANOGLU, Ozan;FIGNER, Gunter;OPPENEIGER, Lucas;PFEIFFER, Christian~ 33:AT ~31:A 50125/2020 ~32:20/02/2020

2022/10209 ~ Complete ~54:APPARATUS AND METHOD FOR EXTRACTING OIL FROM PLANT MATERIAL ~71:MACH Technologies, 400 Renaissance Center, Suite 2600, DETROIT 48243, MI, USA, United States of America ~72: WIRTZ II, John W.;WIRTZ, Jason T.;WIRTZ, Robert N.~ 33:US ~31:62/982,180 ~32:27/02/2020;33:US ~31:62/982,188 ~32:27/02/2020;33:US ~31:63/006,343 ~32:07/04/2020

2022/10222 ~ Complete ~54:DNA BARCODE FOR SCREENING FLOCCULARIA LUTEOVIRENS WITH HIGH ANTIOXIDANT ACTIVITY ~71:YANG, Manjun, A21-3-402, WEST CAMPUS OF TIBET VOCATIONAL TECHNICAL COLLEGE, LUODUI WEST ROAD, People's Republic of China ~72: YANG, Manjun~ 33:CN ~31:202111401645.2 ~32:19/11/2021

2022/10228 ~ Complete ~54:SEALING AND RESTRAINT SYSTEM FOR JOINING PLASTIC PIPE SECTIONS HAVING PRE-FORMED SOCKETS ~71:S & B TECHNICAL PRODUCTS, INC., 1300 East Berry Street, United States of America ~72: QUESADA, Guido~ 33:US ~31:16/801,874 ~32:26/02/2020

2022/10194 ~ Complete ~54:A ROBUST DEEP LEARNING-BASED SYSTEM TO CLASSIFY SITAR – INDIAN MUSICAL STRING INSTRUMENT ~71:DR. SANGEETA N. KAKARWAL, Research Guide, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India;SEEMA RAMESH CHAUDHARY, Maharashtra Institute of Technology, NH-211, MIT Campus, Satara Village Road, Aurangabad, India ~72: DR. SANGEETA N. KAKARWAL;SEEMA RAMESH CHAUDHARY~

2022/10199 ~ Complete ~54:GLP-1 RECEPTOR AGONIST, PHARMACEUTICAL COMPOSITION COMPRISING SAME, AND METHOD FOR PREPARING SAME ~71:LG CHEM, LTD., 128, YEOUI-DAERO, YEONGDEUNGPO-GU, SEOUL 07336, REPUBLIC OF KOREA, Republic of Korea ~72: JO, Min Mi;KIM, Young Kwan;PARK, Jun~ 33:KR ~31:10-2020-0033477 ~32:18/03/2020;33:KR ~31:10-2021-0034452 ~32:17/03/2021

2022/10203 ~ Complete ~54:METHODS FOR RECEIVING AND SENDING CONTROL SIGNALING, AND COMMUNICATION NODE ~71:ZTE Corporation, ZTE Plaza, Keji Road South Hi-Tech Industrial Park, NANSHAN SHENZHEN 518057, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: GAO, Bo;JIANG, Chuangxin;KOU, Shuaihua;LI, Yu Ngok;LU, Zhaohua;WU, Hao;ZHANG, Shujuan~ 33:CN ~31:202010093882.6 ~32:14/02/2020

2022/10204 ~ Complete ~54:METHODS OF DISARMING VIRUSES USING REACTIVE GAS ~71:NanoGuard Technologies, LLC, 1100 Corporate Square Drive, Suite 229, ST. LOUIS 63132, MO, USA, United States of America ~72: HOCHWALT, Mark A.~ 33:US ~31:63/005,094 ~32:03/04/2020;33:US ~31:17/017,517 ~32:10/09/2020

2022/10210 ~ Complete ~54:SMART ROCK BOLT DRIVER ~71:Sandvik Mining and Construction Australia Pty Ltd, Level 1, Kings Row Office Park, 50 McDougall Street, MILTON 4064, QUEENSLAND, AUSTRALIA,

Australia;Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: VALLATI, Osvaldo~ 33:EP ~31:20170773.4 ~32:22/04/2020

2022/10214 ~ Complete ~54:THERAPEUTIC AGENT TARGETING HER2 ~71:HOBER BIOTECH AB, c/o HOBER Hårdvallsgatan 14, 115 46, Stockholm, Sweden ~72: EMMA VON WITTING;JAVAD GAROUSI;SOPHIA HOBER;VLADIMIR TOLMACHEV~ 33:EP ~31:20161922.8 ~32:09/03/2020

2022/10215 ~ Complete ~54:INHIBITORS OF NOROVIRUS AND CORONAVIRUS REPLICATION ~71:COCRYSTAL PHARMA, INC., 19805 North Creek Parkway Bothell, Washington, 98011, United States of America ~72: IRINA C JACOBSON~ 33:US ~31:63/008,183 ~32:10/04/2020;33:US ~31:63/027,495 ~32:20/05/2020

2022/10216 ~ Complete ~54:FERMENTATIVE PRODUCTION OF 2-PHENYLETHANOL FROM GASEOUS SUBSTRATES ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: AUDREY HARRIS;FUNGMIN LIEW;MICHAEL KOEPKE;SHILPA NAGARAJU~ 33:US ~31:62/991,428 ~32:18/03/2020

2022/10217 ~ Complete ~54:KETOHEXOKINASE (KHK) 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: FREDERIC TREMBLAY;JAMES D MCININCH~ 33:US ~31:62/985,948 ~32:06/03/2020

2022/10221 ~ Complete ~54:DNA BARCODE FOR SCREENING TOTAL SOLUBLE AMINO ACID CONTENT INDEX OF FLOCCULARIA LUTEOVIRENS ~71:YANG, Manjun, A21-3-402, WEST CAMPUS OF TIBET VOCATIONAL TECHNICAL COLLEGE, LUODUI WEST ROAD, People's Republic of China ~72: YANG, Manjun~ 33:CN ~31:202111399046.1 ~32:19/11/2021

2022/10224 ~ Complete ~54:CHELATOR COMPOSITIONS FOR RADIOMETALS AND METHODS OF USING SAME ~71:PROVINCIAL HEALTH SERVICES AUTHORITY, 600 West 10th Avenue Vancouver, Canada;THE UNIVERSITY OF BRITISH COLUMBIA, University-Industry Liaison Office 103-6190 Agronomy Road Vancouver, Canada;TRIUMF INC., 4004 Wesbrook Mall Vancouver, Canada ~72: BENARD, Francois;GAO, Feng;SCHAFFER, Paul;WHARTON, Luke;YANG, Hua;YUAN, Zheliang;ZHANG, Chengcheng~ 33:US ~31:62/981,113 ~32:25/02/2020;33:US ~31:62/993,636 ~32:23/03/2020

2022/10227 ~ Complete ~54:METHODS FOR CONTROLLING MERISTEM SIZE FOR CROP IMPROVEMENT ~71:PAIRWISE PLANTS SERVICES, INC., 807 East Main Street, Suite 4-100, Durham, United States of America ~72: GRAHAM, Nathaniel;KARLSON, Dale;O'CONNOR, Devin~ 33:US ~31:63/000,206 ~32:26/03/2020

- APPLIED ON 2022/09/15 -

2022/10259 ~ Complete ~54:FOOD PRODUCT DISPENSER WITH REMOVABLE MODULE ~71:Rich Products Corporation, One Robert Rich Way, BUFFALO 14213, NY, USA, United States of America ~72: CAMPBELL, Shawn;KIM, Jeff;REISER, Ralf~ 33:US ~31:62/985,142 ~32:04/03/2020

2022/10261 ~ Complete ~54:OXAZOLIDINONE COMPOUND AND METHODS OF USE THEREOF AS AN ANTIBACTERIAL AGENT ~71:Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America ~72: CROWLEY, Brendan M.;NANTERMET, Philippe;OLSEN, David B.;SUZUKI, Takao;YANG, Lihu;YOU, Lanying~ 33:IB ~31:2020/080359 ~32:20/03/2020

2022/10239 ~ Complete ~54:PERFORMANCE TEST DEVICE OF METRO TRACTION MOTOR ~71:Hunan Electrical College of Technology, No. 2, Xiashesi Street, Xiangtan, Hunan, People's Republic of China;Hunan

Hugong Electric Co., Ltd., Room 1006, No. 9, Xiaotang Road, High-tech Zone, Xiangtan, Hunan, People's Republic of China; Hunan Institute of Engineering, No. 88, Fuxing East Road, Xiangtan, Hunan, People's Republic of China; Hunan Tianshun Metro Technology Co., Ltd., No. 358, Yingwu Road, Yisuhe Town, Xiangtan County, Xiangtan, Hunan, People's Republic of China ~72: CHEN Zhengrong; HU Xiaozhou; HUANG Zhonghua; LIAN Honghai; LIU Lixin; LIU Wantai; XIE Ya~

2022/10244 ~ Complete ~54:GGPPS DIRECTED SINGLE-SITE MUTANT PROTEIN GGPPS-233 ~71:Henan Agricultural University, No.63, Agricultural Road, Zhengzhou City, Henan Province, 450002, People's Republic of China; Henan University of Technology, No. 100 Lianhua Street, Zhengzhou High-Tech Development Zone, Zhengzhou City, Henan Province, 450001, People's Republic of China; Sanya Institute of Henan University, Room 402, 4th Floor, Building 1, Yabulun Industrial Park, Yazhou Bay Science and Technology City, Yazhou District, Sanya City, Hainan Province, 572025, People's Republic of China ~72: Chen DONG; Jinggong GUO; Kun LI; Mengxin SHEN; Ran WANG; Rui XU; Shuwen GAO; Yu ZHANG; Yuchen MIAO~

2022/10247 ~ Complete ~54:FAT COMPOSITION SUITABLE AS A COCOA BUTTER EQUIVALENT ~71:AAK AB (PUBL), Skrivaregatan 9, 21532, Malmö, Sweden ~72: BJARNE JUUL~ 33:SE ~31:2050191-2 ~32:20/02/2020

2022/10234 ~ Complete ~54:HMOX1 INDUCERS ~71:MITOBRIDGE, INC., 1030 Massachusetts Avenue, Suite 200, Cambridge, Massachusetts, 02138, United States of America ~72: ARTHUR KLUGE; BHARAT LAGU; ERIC BELL; MARGARET BIDDLE; SANJITA SASMAL; TAKASHI OGIYAMA; XINYUAN WU~ 33:US ~31:62/833,031 ~32:12/04/2019; 33:US ~31:62/932,629 ~32:08/11/2019

2022/10238 ~ Complete ~54:LANDSCAPING RESIDUE STATISTICAL INVESTIGATION METHOD ~71:Hunan University of Arts and Science, 3150 Dongting Avenue, Changde, Hunan, People's Republic of China ~72: Niu Panxin; Wang Shaohua; Yang Ting~

2022/10245 ~ Complete ~54:TECHNIQUES FOR MANAGING SCALE FORMATION IN WATER FILTRATION SYSTEMS AND A REVERSE OSMOSIS (RO) AND NANOFILTRATION (NF) SYSTEM IMPLEMENTING SAME ~71:CROSSTEK MEMBRANE TECHNOLOGY, 600 South Street, United States of America ~72: Stanton Russel SMITH~ 33:US ~31:62/991,393 ~32:18/03/2020

2022/10254 ~ Complete ~54:VIDEO PROCESSING USING SYNTAX ELEMENTS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: ANDERSSON, Kenneth; DAMGHANIAN, Mitra; ENHORN, Jack; PETTERSSON, Martin; SJÖBERG, Rickard; STRÖM, Jacob; ZHANG, Zhi~ 33:US ~31:63/002,534 ~32:31/03/2020

2022/10248 ~ Complete ~54:FAT COMPOSITION SUITABLE AS A COCOA BUTTER EQUIVALENT HAVING A LOW AMOUNT OF DIGLYCERIDES ~71:AAK AB (PUBL), Skrivaregatan 9, 21532, Malmö, Sweden ~72: BJARNE JUUL~ 33:SE ~31:2050191-2 ~32:20/02/2020; 33:SE ~31:2051474-1 ~32:16/12/2020

2022/10253 ~ Complete ~54:PROGRAMMABLE SHELLS FOR VIRUS ENCAPSULATION ~71:TECHNISCHE UNIVERSITÄT MÜNCHEN, Arcisstr. 21, Germany ~72: DIETZ, Hendrik~ 33:EP ~31:20158577.5 ~32:20/02/2020

2022/10255 ~ Complete ~54:FIRST WIRELESS DEVICE, NETWORK NODE, AND METHODS PERFORMED THEREBY, FOR HANDLING ACCESS TO A WIRELESS COMMUNICATIONS NETWORK ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: HÖGLUND, Andreas; OHLSSON, Oscar~ 33:US ~31:63/025,236 ~32:15/05/2020

2022/10258 ~ Complete ~54:METHOD FOR ON-DEMAND CLOSED-LOOP CONTROL OF AN ELECTROCHEMICAL PLANT ~71:thyssenkrupp nucera AG & Co. KGaA, Vosskuhle 38, DORTMUND 44141, GERMANY, Germany ~72: BUERKIN, Cornelia;FEDERICO, Fulvio;LUEKE, Lukas;POLCYN, Gregor Damian;TOROS, Peter;TSIKLIOS, Christos~ 33:DE ~31:10 2020 115 711.8 ~32:15/06/2020

2022/10262 ~ Complete ~54:DEVICE AND METHOD FOR PROVIDING AUGMENTED REALITY INTERACTION ~71:Mentar Holding AG, Bösch 65, HÜNENBERG 6331, SWITZERLAND, Switzerland ~72: SPOERRI, Reto~ 33:CH ~31:00342/20 ~32:23/03/2020;33:CH ~31:01627/20 ~32:18/12/2020

2022/10267 ~ Complete ~54:SYSTEMS AND METHODS FOR IMAGE-BASED LOCATION DETERMINATION ~71:SENSEN NETWORKS GROUP PTY LTD, Level 1, 9 Harper Street, Australia ~72: CHALLA, Subhash;QUINN, Louis;VO, Duc;VO, Nhat~ 33:AU ~31:2020900736 ~32:10/03/2020;33:AT ~31:2020902942 ~32:18/08/2020

2022/10230 ~ Provisional ~54:SMART STAND ~71:Chumani Mgele, 13 Pheasant Way, South Africa ~72: Chumani Mgele~

2022/10232 ~ Provisional ~54:PROCESS OF PROVIDING TITANIUM DIOXIDE AND/OR VANADIUM OXIDE ~71:FODERE TITANIUM LIMITED, 12 Hay Hill, London, W1J 8NR, United Kingdom ~72: ALEXANDER NOEL OLD;DOUGLAS MAZWI MUSOWOYA;GOLDEN KALUBA;JANET MUNDUNDU;NACHIKONDE FUMPA;STEPHEN PARIRENYATWA;YOTAMU STEPHEN RAINFORD HARA~

2022/10236 ~ Complete ~54:REHABILITATION TRAINING MACHINE ~71:HENAN UNIVERSITY OF CHINESE MEDICINE, No. 156, Jinshui East Road, Zhengdong New District, Zhengzhou City, Henan Province, 450046, People's Republic of China ~72: FENG, Xiaodong;GUO, Ning;HUA, Xiaoqiong;JIN, Xiaoqin;LI, Yanjie;LIU, Bin;LIU, Haoyuan;MAO, Fuqiang;MENG, Changhai;QIN, Hewei;XU, Guofang~

2022/10241 ~ Complete ~54:ELECTRIC FIELD DEVICE FOR TREATING TUMORS ~71:The First Hospital of Shanxi Medical University, Jiefang South Road 85, Yingze District, Taiyuan City, Shanxi Province, People's Republic of China ~72: Duan Hubin;Hao Chunyan~

2022/10246 ~ Complete ~54:ATMOSPHERIC WATER GENERATING APPARATUS AND SYSTEMS FOR PRODUCING WATER FROM MOISTURE-LADEN AIR ~71:DRIPDROPUSA, INC., 566 KENT DRIVE, MADERA, CA 93837, USA, United States of America ~72: FLORES, Robert, Jesse~ 33:US ~31:16/795,298 ~32:19/02/2020

2022/10251 ~ Complete ~54:METHOD OF TREATMENT USING META-ARSENITE ~71:KOMIPHARM INTERNATIONAL AUSTRALIA PTY LTD, 11 Monterey Road, Dandenong South, Victoria, 3175, Australia;PANAPHIX INC., Cayman Financial Centre 36A Dr Roy's Drive P.O. Box 2510 GT, George Town Grand Cayman, KY1-1104, Cayman Islands ~72: YONG-JIN YANG~ 33:AU ~31:2020900433 ~32:16/02/2020;33:AU ~31:2021900204 ~32:29/01/2021

2022/10260 ~ Complete ~54:METHOD OF TREATING VIRAL INFECTIONS WITH HEXOSE TYPE MONOSACCHARIDES AND ANALOGS THEREOF ~71:Board of Regents, The University of Texas System, 210 West 7th St., AUSTIN 78701, TX, USA, United States of America;Moleculin Biotech, Inc., 5300 Memorial Drive, Suite 950, HOUSTON 77007, TX, USA, United States of America ~72: FOKT, Izabela;KLEMP, Walter;PICKER, Donald;PRIEBE, Waldemar;SKORA, Stanislaw;ZIELINSKI, Rafal~ 33:US ~31:62/990,337 ~32:16/03/2020

2022/10243 ~ Complete ~54:GREENHOUSE ROOF LIFTING DEVICE BASED ON PARALLEL BEVEL GEARS DRIVING IN DIFFERENT DIRECTIONS ~71:Hainan University, No 58, Renmin Avenue, Meilan District, Haikou,

Hainan province, 570228, People's Republic of China ~72: Baolong Wang;Guopeng Zhu;Jian Liu;Xuyong Wu;Yanli Chen~ 33:CN ~31:20211172414.9 ~32:08/10/2021

2022/10249 ~ Complete ~54:GROUP A STREP IMMUNOGENIC COMPOSITIONS WITH POLYSACCHARIDE-PROTEIN CONJUGATES ~71:VAXCYTE, INC., 825 Industrial Road, Suite 300, San Carlos, California, 94070, United States of America ~72: ANGIE A SEDRA;JEFFERY C FAIRMAN;NEERAJ KAPOOR;PETER T DAVEY~ 33:US ~31:62/977,886 ~32:18/02/2020;33:US ~31:63/013,924 ~32:22/04/2020;33:US ~31:63/090,069 ~32:09/10/2020;33:US ~31:63/123,293 ~32:09/12/2020

2022/10250 ~ Complete ~54:INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE ~71:LONE GULL HOLDINGS, LTD., 5331 SW Macadam Ave., Suite 258-332, Portland, Oregon 97239, United States of America ~72: BRIAN LEE MOFFAT;DANIEL WILLIAM PLACE;GARTH ALEXANDER SHELDON-COULSON;IVAR LEE THORSON~ 33:US ~31:62/978,299 ~32:19/02/2020;33:US ~31:63/026,670 ~32:18/05/2020;33:US ~31:63/060,145 ~32:03/08/2020

2022/10252 ~ Complete ~54:TUNNEL CURTAIN ~71:HAYES-IVY MANUFACTURING, INC., 401 E. Las Olas Blvd., Suite 130-525, Ft. Lauderdale, Florida, 33301, United States of America ~72: PETER H KNIGHT~ 33:US ~31:16/867,474 ~32:05/05/2020

2022/10256 ~ Complete ~54:CYLINDER LOCK AND KEY THEREOF ~71:CISA S.p.A., Via Guglielmo Oberdan, 42, FAENZA 48018, ITALY, Italy ~72: FABBRI, Matteo;FERRI, Giovanni;TALAMONTI, Enzo~

2022/10264 ~ Complete ~54:MULTISPECIFIC BINDING PROTEINS AND METHODS OF DEVELOPING THE SAME ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: CHAI, Qing;WU, Xiufeng~ 33:US ~31:62/994,509 ~32:25/03/2020

2022/10231 ~ Provisional ~54:SHOE CLEANING DEVICE ~71:ADAMJEE, Zakariyya Abed, Unit 18, Qurtuba Citadel Complex, No. 43 First Road, South Africa ~72: ADAMJEE, Zakariyya Abed~

2022/10237 ~ Complete ~54:ARYLOXYANILINE ACYL COMPOUND WITH HERBICIDAL ACTIVITY ~71:Shandong Academy of Pesticide Sciences, No.234 Beiyuan Street, Jinan City, Shandong Province, People's Republic of China ~72: HAN Jintao;HAO Zesheng;LIU Jun;WANG Yingxiu;ZHANG Xiaokang;ZUO Bojun~

2022/10242 ~ Complete ~54:HOSPITAL DISCIPLINE EVALUATION METHOD AND SYSTEM ~71:Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, 1277 Jiefang Avenue, Wuhan, Hubei Province, People's Republic of China ~72: Chen Shi;Jin Yang;Luo Fei;Ma Ming;Wang Zheng;Wang ZhiHui;Wu JianCai;Wu QingSong;Xiang Can;Zhang YingCong~

2022/10263 ~ Complete ~54:PROTEASE-ACTIVATED T CELL BISPECIFIC ANTIBODIES ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BRUENKER, Peter;CARPY GUTIERREZ CIRLOS, Alejandro;FREIMOSER-GRUNDSCHOBBER, Anne;GEIGER, Martina;HOFER, Thomas;KLEIN, Christian;MOESSNER, Ekkehard;NEUMANN, Christiane~ 33:EP ~31:20181072.8 ~32:19/06/2020

2022/10266 ~ Complete ~54:SYSTEMS AND METHODS FOR IMAGE-BASED LOCATION DETERMINATION AND PARKING MONITORING ~71:SENSEN NETWORKS GROUP PTY LTD, Level 1, 9 Harper Street, Australia ~72: CHALLA, Subhash;QUINN, Louis;VO, Duc;VO, Nhat~ 33:AU ~31:2020900736 ~32:10/03/2020;33:AU ~31:2020902942 ~32:18/08/2020

2022/10229 ~ Provisional ~54:RECOVERY OF PALLADIUM IONS FROM INDUSTRIAL WASTEWATER BY ION IMPRINTED POLYMER SYSTEM ~71:Prof Kwena Desmond Modibane, Department of Chemistry, University of

Limpopo, South Africa ~72: Dr Katlego Makgopa; Prof Kwena Desmond Modibane; Thabiso C Maponya~ 33:ZA ~31:1 ~32:14/09/2022

2022/10233 ~ Provisional ~54:A SYSTEM AND METHOD TO ACHIEVE PUBLIC SECTOR FISCAL REVENUE ENHANCEMENT AND SOUTH AFRICAN REVENUE SERVICE (SARS) IMPROVED TAXPAYER ASSESSMENTS AND IMPROVED REVENUE GENERATION THROUGH ENHANCED PUBLIC AND PRIVATE SECTOR DATA SOURCES, DATA COLLECTION, SYSTEMS INTEGRATION AND DATA ANALYTICS ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2022/10235 ~ Complete ~54:A THREE-DIMENSIONAL EPITAXIAL IMPLANTED HEXAGONAL ELECTRODE SILICON DETECTOR ~71:LUDONG UNIVERSITY, Ludong University, Yantai, People's Republic of China ~72: CAI, Xinyi; LI, Xiaodan; LI, Xinqing; LI, Zheng; SUN, Jiaxiong; TAN, Zewen~

2022/10240 ~ Complete ~54:A CULTIVATION TECHNOLOGY FOR PREVENTING BASAL STALK ROT OF SOLANACEOUS VEGETABLES ~71:Shijiazhuang academy of agricultural and Forestry Sciences, No. 479, Shengli North Street, Shijiazhuang, Hebei province, People's Republic of China ~72: Bai Chunmei; Chang Zhen; Geng Xiaobin; Li Yan; Liu Na; Liu Qiong; Pang Yongchao; Qi Lianfen; Shi Jianhua; Tian Guoying; Wang Dandan; Wang Zifan; Yan Kaijie; Zhang Qingyin~

2022/10257 ~ Complete ~54:NEW SEX PHEROMONE COMPONENTS FOR THE FALL ARMYWORM, SPODOPTERA FRUGIPERDA ~71:North Carolina State University, 1021 Main Campus Drive, 2nd Floor, RALEIGH 27606, NC, USA, United States of America ~72: AHMED, Mohamed Saveer; HATANO, Eduardo; SCHAL, Coby~ 33:US ~31:62/986,419 ~32:06/03/2020

2022/10265 ~ Complete ~54:MAGNETIC FIELD GRADIENT APPARATUS AND APPARATUS FOR SEPARATION ~71:Urban Mining Corp B.V., Keileweg 80, ROTTERDAM 3029 BT, THE NETHERLANDS, Netherlands ~72: DHALLÉ, Marc Maria Jozef; KOSSE, Jaap Jeroen~ 33:NL ~31:2025139 ~32:16/03/2020

- APPLIED ON 2022/09/16 -

2022/10293 ~ Complete ~54:METHOD FOR CONSTRUCTING GREEN HEALTHY VEGETATION INDEX FOR REMOTE SENSING IDENTIFICATION ~71:Henan University, No. 85, Minglun Street, Shunhe District, Kaifeng City, Henan Province, 475001, People's Republic of China ~72: QIAO, Jiajun; QIN, Yaochen; QUAN, Shu; TIAN, Haifeng; WANG, Shuai; WANG, Yongjiu; WANG, Zhihua; YANG, Mengdan~ 33:CN ~31:202210156692.3 ~32:21/02/2022

2022/10317 ~ Complete ~54:AN NK-1 RECEPTOR ANTAGONIST FOR TREATING A DISEASE SELECTING FROM SEPSIS, SEPTIC SHOCK, ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS) OR MULTIPLE ORGAN DYSFUNCTION SYNDROME (MODS) ~71:NeRRE Therapeutics Limited, Stevenage Bioscience Catalyst, Office F25 Incubator Building, Gunnels Wood Road, STEVENAGE SG1 2FX, HERTFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: TROWER, Mike~ 33:US ~31:63/004,646 ~32:03/04/2020

2022/10305 ~ Complete ~54:PYRIMIDOHETEROCYCLIC COMPOUNDS AND APPLICATION THEREOF ~71:D3 BIO (WUXI) CO., LTD, Room 324, 88 MeiLiang Road, MaShan Street, People's Republic of China ~72: CHEN, Shuhui; CHEN, Zhijian; JIN, John Fenyu; SUN, Jikui; WU, Wentao; XU, Yangyang; ZHANG, Jing; ZHANG, Yang~ 33:CN ~31:202010172140.2 ~32:12/03/2020; 33:CN ~31:202010323035.4 ~32:22/04/2020; 33:CN ~31:202010953203.8 ~32:11/09/2020; 33:CN ~31:202011593642.9 ~32:29/12/2020

2022/10311 ~ Complete ~54:CORONAVIRUS THERAPEUTICS AND TREATMENT METHODS ~71:HAMILTON, Douglas A., 2271 Cobblehill Place, SAN MATEO 94402, CA, USA, United States of America; Vasomune

Therapeutics, Inc., 180 John Street, Suite 305, TORONTO M5T 1X5, ON, CANADA, Canada ~72: CHIKH, Ghania;HAMILTON, Douglas A.~ 33:US ~31:63/005,981 ~32:06/04/2020

2022/10270 ~ Provisional ~54:OXIDATIVE NITRATE HEAP LEACHING PROCESS ~71:BHP CHILE INC., Avda Cerro El Plomo 6000, Piso 15, Las Condes, Chile ~72: CHIBWANA, Clement Chilowa~

2022/10271 ~ Provisional ~54:FINGERAPP ~71:EDDY BISHOGO, 29 Grobler av, Berry park, NEWCASTLE, KwaZulu-Natal, 2940, South Africa ~72: EDDY BISHOGO~

2022/10273 ~ Complete ~54:WIRELESS MONITORING SYSTEM AND METHOD OF COAL AND ROCK DYNAMIC DISASTER BASED ON 5G COMMUNICATION ~71:FAN Penghong, No. 1, Xueyuan Road, Development Zone, Yangquan City, Shanxi Province, People's Republic of China;SHANXI INSTITUTE OF TECHNOLOGY, No. 1, Xueyuan Road, Development Zone, Yangquan City, Shanxi Province, People's Republic of China ~72: FAN Penghong;LI Dan;LI Shuai;WANG Defeng;XING Aohui~

2022/10304 ~ Complete ~54:PRODUCTION OF SODIUM METAL BY DUAL TEMPERATURE ELECTROLYSIS PROCESSES ~71:ENLIGHTEN INNOVATIONS INC., Suite 201, 1100 1st Street SE Calgary, Canada ~72: BHAVARAJU, Sai Venkata;FLINDERS, Roger Marc;HINKLIN, Thomas Ray;HUGHES, Steven William;MAKOWSKY, Mykola;ROBINS, Mathew Richard~ 33:US ~31:62/985,287 ~32:04/03/2020

2022/10316 ~ Complete ~54:THERMOPLASTIC POLYURETHANE COMPOSITIONS COMPRISING NITRO-SUBSTITUTED POLYESTER DIOLS ~71:Novoloop, Inc., 3475 Edison Way, Suite Q, MENLO PARK 94025, CA, USA, United States of America ~72: HIGGINSON, Cody James;KNAUER, Katrina Marie;LE ROY, Jennifer;PILSK, David Samuel;PRATT, Russell Clayton~ 33:US ~31:62/989,098 ~32:13/03/2020;33:US ~31:16/985,009 ~32:04/08/2020

2022/10301 ~ Complete ~54:SHEET FOR THE ASSEMBLY OF A DISPLAY SHELVING UNIT AND THE DISPLAY SHELVING THUS OBTAINED ~71:MARIANO COLOMBO, Luis Saenz Peña 1926, Argentina;PABLO BATTILANA, Billingham 38, Argentina ~72: BATTILANA, Pablo;COLOMBO, Mariano~ 33:AR ~31:P20200100442 ~32:17/02/2020

2022/10269 ~ Provisional ~54:A PHOTOCHEMICAL GAS SENSOR ~71:ARCAQUA (PTY) LTD, Unit 1 and 2 Castle Close, South Africa ~72: SMITH, Raphael V~

2022/10321 ~ Complete ~54:PESTICIDE COMPOSITION FOR CROP CARE AND PROTECTION ~71:ALPHA BIOPESTICIDES LIMITED, St John's Innovation Centre, Cowley Road, Cambridge, CB4 0WS, United Kingdom ~72: VECCHI, Alfeo~ 33:IT ~31:102020000004816 ~32:06/03/2020

2022/10285 ~ Complete ~54:A CLAMP ASSEMBLY FOR A CONVEYOR BELT ~71:SHAW-ALMEX INDUSTRIES, PO Box 430, Parry Sound, P2A 2X4, ONTARIO, CANADA, Canada ~72: SHAW, Timothy Glen~ 33:ZA ~31:2021/06822 ~32:17/09/2021

2022/10288 ~ Complete ~54:COMPREHENSIVE EXPLORATION METHOD FOR GOLD DEPOSITS IN PLATEAU BEDROCK AREA ~71:The Third Geological Exploration Institute of Qinghai Province, No. 61 Xichuan South Road, Xining City, Qinghai Province, 810000, People's Republic of China ~72: MA, Zhongyuan;SU, Shengshun;ZHANG, Daming;ZHANG, Jianping;ZHAO, Jianpeng~

2022/10291 ~ Complete ~54:COMPREHENSIVE EXPLORATION METHOD FOR FLUORITE ORES IN SHALLOW COVERAGE AREAS ~71:The Third Geological Exploration Institute of Qinghai Province, No. 61 Xichuan South Road, Xining City, Qinghai Province, 810000, People's Republic of China ~72: DING, Zhaobin;HAN, Shengrong;MA, Zhongyuan;WANG, Zongsheng;ZHANG, Daming~

2022/10272 ~ Complete ~54:A THREE-GEAR AIR MOTOR ~71:Hebei Ficson Coal Mine Machinery Manufacturing Co., Ltd., No. 22, Jiahua Environmental Protection Industrial Park, Qiutou Town, Shijiazhuang Circular Chemical Industry Park, Hebei, People's Republic of China ~72: Pengfei Zhang~

2022/10274 ~ Complete ~54:AUTOMOBILE POWER PERFORMANCE IMPROVING SYSTEM ~71:Hunan Institute of Engineering, No. 88, Fuxing East Road, Xiangtan, Hunan, People's Republic of China ~72: HUANG Zhonghua;XIE Ya~

2022/10278 ~ Complete ~54:METHOD FOR QUICKLY EVALUATING INTRAMUSCULAR FAT CONTENT OF PORK USING WATER CONTENT ~71:Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, 202 Gongye North Road, Jinan, Shandong, People's Republic of China ~72: CHENG Jianguo;HU Hongmei;LI Jingxuan;WANG Cheng;WANG Huaizhong;WANG Jiying;WANG Yanping;ZHAO Xueyan~

2022/10280 ~ Complete ~54:BUTTER FAT SPREAD ~71:SIQALO FOODS (PTY) LTD, 10 The Boulevard, Westway Office Park, South Africa ~72: MZUNGU, Chipita;SAKWA, Susan, Matemu;VLOTMAN, Alicia;XABA, Phakamani~ 33:ZA ~31:2021/07054 ~32:22/09/2021

2022/10287 ~ Complete ~54:EXPLORATION METHOD OF PORPHYRY-EPIHYDROTHERMAL-SKARN METALLOGENIC SYSTEM IN COLLISION OROGENIC ENVIRONMENT ~71:The Third Geological Exploration Institute of Qinghai Province, No. 61 Xichuan South Road, Xining City, Qinghai Province, 810000, People's Republic of China ~72: MA, Fusheng;MA, Qiang;MA, Zhongyuan;YAN, Zhengjun;ZHANG, Daming~

2022/10290 ~ Complete ~54:WIRELESS MEASUREMENT WHILE DRILLING ~71:Beijing Research Institute of Chemical Engineering and Metallurgy, No. 145, Jiukeshu, Tongzhou District, Beijing, 101149, People's Republic of China ~72: CUI, Yufeng;DU, Zhiming;HU, Baishi;LI, Jianhua;LI, Po;LI, Zhaokun;LIU, Zhengbang;QIN, Hao;YANG, Lizhi~

2022/10299 ~ Complete ~54:IMPROVED PROCESSES FOR IN VITRO TRANSCRIPTION OF MESSENGER RNA ~71:TRANSLATE BIO, INC., 200 West Street, Waltham, MA, United States of America ~72: COOPER, Dustin;DEROSA, Frank;DIAS, Anusha;DUBINS, Jeffrey, S.;GU, Xiaobo;TRAN, Khang, Anh~ 33:US ~31:62/978,180 ~32:18/02/2020

2022/10309 ~ Complete ~54:SYSTEM AND METHOD FOR DISTRIBUTING MULTIMEDIA CONTENT ~71:HUBBARD, Robert B., 5801 Olin Lane, BURLINGTON 41005, KY, USA, United States of America ~72: HUBBARD, Robert B.~

2022/10313 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TARGETED RNA DELIVERY ~71:Verve Therapeutics, Inc., 500 Technology Square, Suite 901, CAMBRIDGE 02139, MA, USA, United States of America ~72: BISWAS, Souvik;CHADWICK, Alexandra;KASIEWICZ, Lisa N.;MALYALA, Padma;RAJEEV, Kallanthottathil G.;REISS, Caroline~ 33:US ~31:62/984,866 ~32:04/03/2020;33:US ~31:63/078,982 ~32:16/09/2020

2022/10320 ~ Complete ~54:A HOMOGENEOUS CHARGE COMPRESSION IGNITION (HCCI-TYPE) COMBUSTION SYSTEM FOR AN ENGINE AND POWERTRAIN USING WET-ALCOHOL AS A FUEL AND INCLUDING HOT ASSIST IGNITION ~71:MAYMANN RESEARCH, LLC, 3904 North 29th Avenue, Hollywood, Florida, 33020, United States of America ~72: DORON SHMUELI;EITAN SHMUELI;YEHUDA SHMUELI~ 33:US ~31:62/990,104 ~32:16/03/2020;33:US ~31:17/199,800 ~32:12/03/2021

2022/10277 ~ Complete ~54:IMAGE SEGMENTATION METHOD BASED ON WEIGHTED ROBUST FCM CLUSTERING ~71:Wuhu Technology and Innovation Research Institute, AHUT, Building B5, Science and

Technology Industrial Park, Zhongshan South Road, Yijiang District, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: GUO, Hongzhe;WANG, Bing;WANG, Wenyan;WU, Ziheng;ZHAO, Yuan~

2022/10279 ~ Complete ~54:PORTABLE MASK FOR MOUTH AND NOSE OF NON-INVASIVE VENTILATOR ~71:Shaanxi Normal University, 620 West Chang 'an Avenue, Chang 'an District, Xi 'an City, Shaanxi Province, People's Republic of China;Tangdu Hospital, the Fourth Military Medical University, No. 1, Xinsi Road, Baqiao District, Xi'an City, Shaanxi Province, People's Republic of China ~72: Li Kai;Li Yang;Qin Haonan;Wang Bin~

2022/10281 ~ Complete ~54:PROCESS FOR THE PRODUCTION OF BUTTER FAT SPREAD ~71:SIQALO FOODS (PTY) LTD, 10 The Boulevard, Westway Office Park, South Africa ~72: MZUNGU, Chipita;SAKWA, Susan, Matemu;VLOTMAN, Alicia;XABA, Phakamani~ 33:ZA ~31:2021/07055 ~32:22/09/2021

2022/10283 ~ Complete ~54:A SYSTEM AND A METHOD FOR GRAIN STORAGE MANAGEMENT ~71:Aditya Kumar Singh, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;Amrees Pandey, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;Devesh Mishra, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;Saiyed Salim Sayeed, Department of Electronics and Communication Engineering, Buddha Institute of Technology, Gorakhpur, India;Sweta Singh, Department of Electronics and Communication, University of Allahabad, Prayagraj, India ~72: Aditya Kumar Singh;Amrees Pandey;Devesh Mishra;Saiyed Salim Sayeed;Sweta Singh~

2022/10289 ~ Complete ~54:COMPREHENSIVE EXPLORATION METHOD FOR POLYMETALLIC ORES IN PLATEAU LOESS COVERAGE AREAS ~71:The Third Geological Exploration Institute of Qinghai Province, No. 61 Xichuan South Road, Xining City, Qinghai Province, 810000, People's Republic of China ~72: LIN, Gui;LIU, Guoyan;MA, Zhongyuan;ZHANG, Daming;ZHAO, Yongliang~

2022/10292 ~ Complete ~54:PURPLE SWEET POTATO ICE CREAM POWDER WITH HIGH DIETARY FIBER AND APPLICATION THEREOF ~71:Xuzhou Institute of Agricultural Sciences of the Xuhuai District, Kunpeng Road, Gulou District, Xuzhou, Jiangsu Province, People's Republic of China ~72: DENG Shaoying;MA Chen;NIU Fuxiang;SUN Jian;XU Fei;YUE Ruixue;ZHANG Wenting;ZHANG Yi;ZHU Hong~

2022/10296 ~ Complete ~54:SECURITY VERIFICATION METHOD, CONSUMABLE CHIP, CONSUMABLE, AND IMAGE FORMING APPARATUS ~71:ZHUHAI PANTUM ELECTRONICS CO., LTD., Building 02, Building 06, Building 08, No. 888, Shengping Avenue, People's Republic of China ~72: NING, Dan;YU, Chengzhu~ 33:CN ~31:2021111132451 ~32:18/09/2021

2022/10310 ~ Complete ~54:NON-HOOKE'S LAW SPRING CONSTANT SYSTEMS AND METHODS ~71:KLOTZER, Daniel, 4579 Laclede Ave., #210, ST. LOUIS 63130, MO, USA, United States of America ~72: KLOTZER, Daniel~ 33:US ~31:62/979,439 ~32:22/02/2020;33:US ~31:63/070,267 ~32:26/08/2020

2022/10276 ~ Complete ~54:WIND SPEED MEASURING DEVICE OF LARGE-SCALE FAN ~71:Hunan Institute of Engineering, No. 88, Fuxing East Road, Xiangtan, Hunan, People's Republic of China ~72: HUANG Zhonghua;XIE Ya~

2022/10282 ~ Complete ~54:A SYSTEM AND A METHOD FOR MONITORING GRAIN STORAGE BAGS THROUGHOUT A SUPPLYCHAIN ~71:Aditya Kumar Singh, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;Amrees Pandey, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;Devesh Mishra, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;H Shree Kumar, Department of Electrical Engineering, Sona College of Technology, Salem, India;Saiyed Salim Sayeed, Department of Electronics and Communication Engineering,

Buddha Institute of Technology, Gorakhpur, India ~72: Aditya Kumar Singh;Amrees Pandey;Devesh Mishra;H Shree Kumar;Saiyed Salim Sayeed~

2022/10298 ~ Complete ~54:SPRAYER SYSTEM ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: STOLLER, Jason;WILDERMUTH, Paul;WINKLER, Nicholas~ 33:US ~31:63/050,314 ~32:10/07/2020;33:US ~31:63/050,315 ~32:10/07/2020

2022/10308 ~ Complete ~54:AMPHIPHILIC POLYMERS AND THEIR USE FOR IMPROVED PRODUCTION OF NANOPARTICLES FOR THE TARGETED DELIVERY OF ANTIGENS ~71:Topas Therapeutics GmbH, Falkenried 88, HAMBURG 20251, GERMANY, Germany ~72: DIGIGOW, Reinaldo;MUNGALPARA, Disha;POHLNER, Johannes;SELECI, Muharrem~ 33:EP ~31:20157797.0 ~32:17/02/2020

2022/10318 ~ Complete ~54:USE OF A THIENOPYRIDONE DERIVATIVE IN THE TREATMENT OF AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE (ADPKD) ~71:POXEL, Immeuble Le Sunway, 259/261, Avenue Jean Jaurès, 69007, Lyon, France ~72: PASCALE FOUQUERAY;S&BASTIEN BOLZE;SOPHIE HALLAKOU-BOZEC~ 33:EP ~31:20167687.1 ~32:02/04/2020

2022/10306 ~ Complete ~54:TRUSS AND SUPPORTING STRUCTURES CONSTRUCTED THEREFROM ~71:SINN POWER GMBH, Germeringer Strasse 9, Germany ~72: BOSCHER, Patrick;SCHWAIGER, Dominik;SINN, Philipp~ 33:EP ~31:PCT/EP2020/058041 ~32:23/03/2020

2022/10315 ~ Complete ~54:PEPTIDE FOR THE TREATMENT OF CYTOKINE STORM SYNDROME ~71:Centro de Ingenieria y Biotecnologia, Avenida 31 No. 158 y 190, Cubanacan, Playa, LA HABANA 11600, CUBA, Cuba ~72: DOMINGUEZ HORTA, Mariana del Carmen;GARAY PEREZ, Hilda Elisa;GUILLÉN NIETO, Gerardo Enrique;HERNÁNDEZ CEDEÑO, Mabel;LOPEZ ABAD, Cruz Matilde;MARTÍNEZ DONATO, Gillian;NODARSE CUNI, Hugo;ORTEGA GONZÁLEZ, Lilia Mariana;UBIETA GARCÍA MEZ, Raimundo;VENEGAS RODRIGUEZ, Rafael~ 33:CU ~31:2020-0026 ~32:13/04/2020

2022/10275 ~ Complete ~54:SIT-UP TRAINING TESTING DEVICE ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: GUO, Hui;HUANG, Fu;JIA, Xiao;LI, Qiang;LI, Zhuoran;SUN, Feng;SUN, Ping;WANG, Lei;XU, Fangchao;YU, Jingjing;ZHANG, Ming;ZHANG, Yimin;ZHAO, Meng~ 33:CN ~31:202210309472.X ~32:28/03/2022

2022/10284 ~ Complete ~54:ANTI-TREM1 ANTIBODIES AND RELATED METHODS ~71:PIONYR IMMUNOTHERAPEUTICS, INC., 2 Tower Place, Suite 800, South San Francisco, United States of America ~72: CHAN, Christopher;LE, Tiep Tu;LIANG, Linda;PAL, Aritra;PRESTA, Leonard G.;SRIRAM, Venkataraman~ 33:US ~31:62/802,161 ~32:06/02/2019;33:US ~31:62/889,994 ~32:21/08/2019

2022/10286 ~ Complete ~54:ABSORPTION AND PURIFICATION SYSTEM FOR DUST AND HARMFUL GAS OF TUNNEL CONSTRUCTION ~71:The 5th Engineering Co., Ltd. of China Railway Construction Bridge Engineering Bureau Group, No. 1000, Middle Section of Shulong Avenue, Xindu Street, Xindu District, Chengdu, 610500, People's Republic of China;The First Engineering Co.,Ltd of China Railway Beijing Engineering Group, No. 259, Hangchuang Road, National Civil Aerospace Industry Base, Xi'an, Shaanxi, 710100, People's Republic of China;Xi'an University of Architecture and Technology, No. 13, Yanta Road, Beilin District, Xi'an City, Shaanxi, 710055, People's Republic of China ~72: GUO, Desai;JIN, Diyu;JIN, Zhouhao;LIU, Naifei;PAN, Hongwei;PAN, Huiyu;SONG, Zhanping;TIAN, Song;XU, Leilei;XU, Wangliang;YANG, Pengtao;ZHANG, Yijia;ZHANG, Yuwei;ZHAO, Xin~ 33:CN ~31:202210269815.4 ~32:18/03/2022

2022/10307 ~ Complete ~54:MATERIALS AND METHODS FOR THE EFFICIENT DISPERSION OF NANOPARTICLES ~71:LOCUS IP COMPANY, LLC, 30600 Aurora Road, Suite 180, United States of America ~72: ALIBEK, Ken;FARMER, Sean;ROGERS, Jonathan~ 33:US ~31:62/992,420 ~32:20/03/2020

2022/10314 ~ Complete ~54:METHOD, SYSTEM AND COMPUTER PROGRAMS FOR TRACEABILITY OF LIVING SPECIMENS ~71:Touchless Animal Metrics, SL, C/ Trafalgar, 6 - 3a planta, Despatx 31, BARCELONA 08010, SPAIN, Spain ~72: AMAT ROLDAN, Ivan~ 33:EP ~31:20382117.8 ~32:17/02/2020

2022/10319 ~ Complete ~54:USE OF A THIENOPYRIDONE DERIVATIVE IN THE TREATMENT OF ADRENOLEUKODYSTROPHY OR ADRENOMYELONEUROPATHY ~71:POXEL, Immeuble Le Sunway, 259/261, Avenue Jean Jaurès, 69007, Lyon, France ~72: PASCALE FOUQUERAY;SÉBASTIEN BOLZE;SOPHIE HALLAKOU-BOZEC~ 33:EP ~31:20166035.4 ~32:26/03/2020

2022/10312 ~ Complete ~54:VEHICLE HAIL PROTECTION SYSTEM AND ASSOCIATED HAIL PROTECTION TARPAULIN ~71:MIGNONAT, Cédric, 12 Allée Henri Sellier, TOULOUSE 31400, FRANCE, France ~72: MIGNONAT, Cédric~ 33:FR ~31:2002586 ~32:17/03/2020

2022/10300 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING ANGPTL3 EXPRESSION ~71:DICERNA PHARMACEUTICALS, INC, 75 Hayden Avenue, Lexington, United States of America ~72: ABRAMS, Marc;BROWN, Bob, D.;DUDEK, Henryk ,T.;SAXENA, Utsav;TURANOV, Anton~ 33:US ~31:62/991,335 ~32:18/03/2020

2022/10303 ~ Complete ~54:RECHARGEABLE HYBRID SODIUM METAL-SULFUR BATTERY ~71:FIELD UPGRADING USA, INC., A subsidiary of Enlighten Innovations Inc., United States of America ~72: BHAVARAJU, Sai Venkata;FLINDERS, Roger Marc;HINKLIN, Thomas Ray;HUGHES, Steven William;MAKOWSKY, Mykola;ROBINS, Mathew Richard~ 33:US ~31:62/985,250 ~32:04/03/2020

2022/10375 ~ Provisional ~54:DATA SHUFFLE AND UNSHUFFLE METHOD AND SYSTEM ~71:Pieter Willem van der Walt, 1A Beneden street, South Africa ~72: Pieter van der Walt~

2022/10294 ~ Complete ~54:A METHOD TO SYNTHESIZE METHYLACROLEIN WITH THE IONIC LIQUID CATALYST ~71:ZHENGZHOU UNIVERSITY, No. 100 Science Avenue, Gaoxin District, Zhengzhou City, People's Republic of China ~72: CAO, Yijun;LI, Chunshan;WANG, Gang;ZHAO, Qiu~

2022/10295 ~ Complete ~54:INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE ~71:LONE GULL HOLDINGS, LTD., Suite 258-332, 5331 SW Macadam Avenue, Portland, Oregon, 97239, United States of America ~72: BRIAN LEE MOFFAT;DANIEL WILLIAM PLACE;GARTH ALEXANDER SHELDON-COULSON~ 33:US ~31:62/718,383 ~32:14/08/2018;33:US ~31:62/719,648 ~32:18/08/2018;33:US ~31:62/724,629 ~32:30/08/2018;33:US ~31:62/739,190 ~32:29/09/2018;33:US ~31:62/755,427 ~32:03/11/2018;33:US ~31:62/768,968 ~32:18/11/2018;33:US ~31:62/831,202 ~32:09/04/2019;33:US ~31:16/538,472 ~32:12/08/2019

2022/10297 ~ Complete ~54:GENOMIC INFRASTRUCTURE FOR ON-SITE OR CLOUD-BASED DNA AND RNA PROCESSING AND ANALYSIS ~71:EDICO GENOME, CORP., 3344 North Torrey Pines Court, Plaza Level, United States of America ~72: MCMILLEN, Robert J.;MEHIO, Rami;RUEHLE, Michael;VAN ROOYEN, Pieter~ 33:US ~31:62/277,445 ~32:11/01/2016

2022/10302 ~ Complete ~54:BIOINFORMATICS ~71:UNIVERSITY OF HELSINKI, P.O. Box 4 (Yliopistonkatu 3) 00014, Finland ~72: CAPASSO, Cristian;CERULLO, Vincenzo;CHIARO, Jacopo;FEOLA, Sara;SIKANEN, Tiina;TÄHKÄ, Sari~ 33:GB ~31:2006760.9 ~32:07/05/2020

- APPLIED ON 2022/09/19 -

2022/10328 ~ Provisional ~54:X-SLUMBER FEMININE SPRAY ~71:PROF. B.D. DE BEER, 110 RIVER ROAD, South Africa ~72: PROF. B.D. DE BEER (CBD FULL SPECTRUM MANUFACTURERS INTERNATIONAL LIMITED)~

2022/10335 ~ Complete ~54:METHOD AND SYSTEM FOR REMOTE COLLECTION OF LARGE AMOUNT OF DATA IN UNSTABLE NETWORK ~71:SHANGHAI MARITIME UNIVERSITY, Logistics Building, No.1550 Haigang Avenue, Pudong New Area, Shanghai, People's Republic of China ~72: LU Houjun;ZHANG Songbo~

2022/10338 ~ Complete ~54:A GENE DATA SHARING METHOD AND A DEVICE FOR PROTECTING PRIVACY AND SECURITY ~71:Zhejiang Wanli University, No. 8, Qianhu South Road, Ningbo City, Zhejiang Province, People's Republic of China ~72: Chen Zhigang;Song Xinxia~

2022/10342 ~ Complete ~54:BUTT JOINT DEVICE FOR WELDING CONSTRUCTION STEEL PIPES ~71:Hebei University of Architecture, No. 13 Chaoyang West Street, Zhangjiakou City, Hebei Province, People's Republic of China ~72: CHAI Xiaoli;DING Yong;HUANG Jianguo;HUANG Xiaoyun;LI Bomin;LIU Haijing;NIU Yuanyuan;WANG Guobin;WANG Shuo;WANG Xiaodong;WEI Wenbo;WEN Wanli;XIAO Xiangyu;YAO Hai;ZHAO Fang;ZHOU Jianyu~

2022/10345 ~ Complete ~54:EXTRACTION METHOD OF SNAIL ALBUMIN PEPTIDE ~71:CHEN, Heping, Room 923, Building 1, Beichuang Science and Technology Park, No. 401, Xingyuan North Road, Liangxi District, Wuxi City, Jiangsu, 214000, People's Republic of China ~72: CHEN, Heping~

2022/10352 ~ Complete ~54:WIND POWER GENERATION INTEGRATED DEVICE OF BUILDING WIND TUNNEL ~71:Jiangxi Jianbang Construction Group Co., Ltd., No. 77 Yanjiang South Road, Zhangshu City, Yichun City, Jiangxi Province, People's Republic of China ~72: Jianqiang Cao;Ming Li;Xiaoming Chen~

2022/10359 ~ Complete ~54:A CASH BAG SEALING DEVICE, A CASH DEPOSITING SYSTEM AND A METHOD FOR CONTROLLING THE SAME ~71:SCAN COIN AB, Nordenskiöldsgatan 24, 211 19, Malmö, Sweden ~72: KRISTIAN BENGTSSON;VICTOR WALLMAN-CARLSSON~ 33:EP ~31:20158757.3 ~32:21/02/2020

2022/10361 ~ Complete ~54:RECYCLABLE FLEXIBLE FILMS AND BAGS FOR PACKAGING FLOWABLE MATERIALS ~71:LIQUI-BOX CORPORATION, 901 East Byrd Street, Suite 1105, Riverfront Plaza, Richmond, Virginia, 23219, United States of America ~72: LAMY CHOPIN;NICHOLAS FARKAS~ 33:US ~31:62/990,540 ~32:17/03/2020;33:US ~31:63/054,309 ~32:21/07/2020

2022/10366 ~ Complete ~54:HETEROARYL HETEROCYCLIC COMPOUNDS AND USES THEREOF ~71:Hutchison MediPharma Limited, Building 4, 720 Cailun Road, Pilot Free Trade Zone, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: DAI, Guangxiu;XIAO, Kun~ 33:CN ~31:202010104062.2 ~32:20/02/2020;33:CN ~31:202110169142.0 ~32:07/02/2021

2022/10370 ~ Complete ~54:METHOD FOR IMPROVING THE STABILITY OF A PHARMACEUTICAL COMPOSITION COMPRISING A HIGH PENETRATION DRUG, AND THE PHARMACEUTICAL COMPOSITION OBTAINED THEREFROM ~71:Techfields Inc., 731 Alexander Road, Suite 205, PRINCETON 08548, NJ, USA, United States of America ~72: XU, Lina;YU, Chongxi~ 33:IB ~31:2020/080477 ~32:20/03/2020

2022/10374 ~ Provisional ~54:SMART DEVICE FOR SHOPPING TROLLEY ~71:MOKGALE GREETINGS BOPAPE, MPHAGA STREET EXT 6, MAMELODI EAST, South Africa;TSHWARELO MOTIANE MODISHA, 340

EXT 24, NELLMAPHIUS, GAUTENG, South Africa ~72: MOKGALE GREETINGS BOPAPE ;TSHWARELO MOTIANE MODISHA ~

2022/10360 ~ Complete ~54:ACTIVIN RECEPTOR TYPE II CHIMERAS AND METHODS OF USE THEREOF ~71:KEROS THERAPEUTICS, INC., 99 Hayden Avenue, Suite 120 (Bldg. E), Lexington, Massachusetts, 02421, United States of America ~72: CLAIRE TSENG;ELISSA FURUTANI;HENNING THØGERSEN;JASBIR S SEEHRA;JASON O'NEILL;JENNIFER LACHEY~ 33:US ~31:62/992,839 ~32:20/03/2020;33:US ~31:63/029,443 ~32:23/05/2020;33:US ~31:63/109,821 ~32:04/11/2020

2022/10365 ~ Complete ~54:SYSTEMS AND METHODS FOR PROTECTING NUCLEIC ACID MOLECULES ~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, Stanford, California, 94305-2038, United States of America ~72: ARASH ASH ALIZADEH;DAVID M KURTZ;JACOB J CHABON;MAXIMILIAN DIEHN~ 33:US ~31:62/980,972 ~32:24/02/2020

2022/10369 ~ Complete ~54:SLOPED SIDEWALL FOR A FURNACE ~71:Systems Spray-Cooled, Inc., 877 Seven Oaks Blvd., Suite 500, SMYRNA 37167, TN, USA, United States of America ~72: FERGUSON, Scott A.~ 33:US ~31:16/918,788 ~32:01/07/2020

2022/10322 ~ Provisional ~54:TEMPORARY STOPE SUPPORT UNIT TEMPORARY AND PERMANENT ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2022/10326 ~ Provisional ~54:SLUMBER FEMININE SPRAY ~71:PROF. BD DE BEER, 110 RIVER ROAD, South Africa ~72: PROF. B.D. DE BEER~

2022/10329 ~ Provisional ~54:X-AWAKE FEMININE SPRAY ~71:PROF. B.D. DE BEER, 110 RIVER ROAD, South Africa ~72: PROF. B.D. DE BEER - CBD FULL SPECTRUM MANUFACTURERS INTERNATIONAL LIMITED~

2022/10333 ~ Complete ~54:DEVICE FOR CLEANING PIG BREEDING EXCREMENT ~71:ANCHEE(SHANDONG) ACADEMY OF ANIMAL NUTRITION Co.LTD, Room 02, Building 5, Block 5, Yinfeng Biological City, No.1177 Chunlan Road, Innovation Zone, Jinan City, Shandong Province, People's Republic of China;Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.23788 Industrial North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: DU Yushi;GUO Jianfeng;TAO Zhiyong;WANG Huaizhong;ZHAO Xueyan~

2022/10339 ~ Complete ~54:PIPELAYER MACHINE WITH REAR ENGINE CONFIGURATION ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: BARBIER, Benjamin;CALDWELL, Curtis J.;VANCE, Donald L.~ 33:US ~31:17/449,896 ~32:04/10/2021

2022/10343 ~ Complete ~54:A METHOD FOR PREPARING SECHIU EDULE EXTRACT FOR REVERSING NEUROTOXICITY OF LEAD ~71:Abdelaziz Abdelfattah Abdelaziz Elsayed, Zoology Department, Faculty of Science, Zagazig University, Egypt;Ahmed Abdelfattah Hafez Abdellatif, Department of Pharmaceutics, College of Pharmacy, Qassim University, Saudi Arabia;Aisha Alhaddad, Department of Pharmacology and Toxicology, College of Pharmacy, Taibah University, Saudi Arabia;Mahmoud Abdalla Hafiz Mostafa, Department of Pharmacognosy and Pharmaceutical Chemistry, College of Pharmacy, Taibah University, Saudi Arabia;Prof. (Dr.) Sayeed Mohammed Firdous, Department of Pharmacology, Calcutta Institute of Pharmaceutical Technology & AHS, Uluberia, Howrah, India;Raghad Mahmoud Abdalla Hafiz, Second year Preparatory School, Omar Ibn Al-Khattab Preparatory Combined School, Egypt;Sourav Ghosh, Department of Pharmacology, Calcutta Institute of Pharmaceutical Technology & AHS, Uluberia, Howrah, India;Varnita Karmakar, Eminent College

of Pharmaceutical Technology, Moshpukr, Barbaria, Paschim Khilkapur, Barasat, Jagannathpur, India; Waad Samman, Department of Pharmacology and Toxicology, College of Pharmacy, Taibah University, Saudi Arabia ~72: Abdelaziz Abdelfattah Abdelaziz Elsayed; Ahmed Abdelfattah Hafez Abdellatif; Aisha Alhaddad; Mahmoud Abdalla Hafiz Mostafa; Prof. (Dr.) Sayeed Mohammed Firdous; Raghad Mahmoud Abdalla Hafiz; Sourav Ghosh; Varnita Karmakar; Waad Samman~

2022/10356 ~ Complete ~54:METHOD FOR TREATMENT OF NEUROLOGICAL DISORDERS USING SYNAPTIC PATHWAY TRAINING ~71:RUSTICK, Joseph, 24 Camelback Rd, 549 Phoenix, United States of America ~72: RUSTICK, Joseph~ 33:US ~31:16/827,546 ~32:23/03/2020

2022/10363 ~ Complete ~54:COMPOUNDS FOR TREATING OR PREVENTING A CORONAVIRIDAE INFECTION & METHODS AND USES FOR ASSESSING THE OCCURRENCE OF A CORONAVIRIDAE INFECTION ~71:ABIVAX, 5 rue de la Baume, 75008, Paris, France ~72: DIDIER SCHERRER; HARTMUT EHRlich; JAMAL TAZI; JULIEN SANTO; PHILIPPE POULETTY~ 33:EP ~31:20305299.8 ~32:20/03/2020; 33:EP ~31:20305327.7 ~32:25/03/2020; 33:EP ~31:20305482.0 ~32:12/05/2020; 33:EP ~31:20306483.7 ~32:03/12/2020

2022/10327 ~ Provisional ~54:BRICK MANUFACTURING PALLET WITH DEPRESSIONS/CAVITIES USED FOR MASS PRODUCTION/MANUFACTURING OF INTERLOCKING CEMENT/FLYASH BRICKS FROM AUTOMATED OR MANUAL BRICK MAKING MACHINES. ~71:Mduduzi Farayi Muhamba, 6 Coleen Drive , Honeydew , Johannesburg , Gauteng , South Africa, South Africa ~72: Mduduzi Farayi Muhamba~

2022/10324 ~ Provisional ~54:TEMPORARY HYDRAULIC CANTILEVER SUPPORT ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2022/10325 ~ Provisional ~54:TEMPORARY MECHANICAL CANTILEVER SUPPORT ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2022/10330 ~ Complete ~54:GEOLOGICAL DISASTER SYSTEM BASED ON NATIONAL COMMERCIAL CRYPTOGRAPHIC ALGORITHMS ~71:Zhongda Intelligent Technology Co., Ltd., No.755, Xueshi Road, Xueshi Street, Yuelu District, Changsha City, Hunan, People's Republic of China ~72: Bin Lei; Dekuang Wang; Lian Yu; Qiwu Guo; Xuexian Peng; Ye Luo; Zechao Hu~ 33:CN ~31:202111501207.3 ~32:09/12/2021

2022/10334 ~ Complete ~54:SOMATOSENSORY SIMULATION METHOD AND DEVICE OF CRANE SIMULATOR ~71:SHANGHAI MARITIME UNIVERSITY, Logistics Building, No.1550 Haigang Avenue, Pudong New Area, Shanghai, People's Republic of China ~72: LU Houjun; ZHANG Minghui~

2022/10340 ~ Complete ~54:CANCER DATA MANAGEMENT PLATFORM BASED ON BLOCKCHAIN TECHNOLOGY ~71:Zhejiang University City College, No. 51, Huzhou Street, Gongshu District, Hangzhou City, Zhejiang Province, 310015, People's Republic of China ~72: CHENG, Andy S.K.; JIANG, Jingchi; WANG, Boran; WEI, Xijun; ZENG, Yingchun~ 33:CN ~31:202210201968.5 ~32:03/03/2022

2022/10346 ~ Complete ~54:IMAGE PREDICTION METHOD AND DEVICE ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China; University of Science and Technology of China, No.96 JinZhai Road, HEFEI 230026, ANHUI, CHINA (P.R.C.), People's Republic of China ~72: LI, Houqiang; LI, Li; LV, Zhuoyi; YANG, Haitao~ 33:CN ~31:201510543542.8 ~32:29/08/2015

2022/10357 ~ Complete ~54:ELECTROMAGNETIC SHAPE RIGHTING DEVICE AND SHAPE RIGHTING METHOD ~71:HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 1037 Luoyu Road, Hongshan District, Wuhan, Hubei, 430074, People's Republic of China ~72: CAO, Quanliang;HAN, Xiaotao;LAI, Zhipeng;LI, Changxing;LI, Liang;ZHANG, Zixuan;ZHENG, Yu~ 33:CN ~31:202010910854.9 ~32:02/09/2020

2022/10368 ~ Complete ~54:ORE FLOW OPTIMIZATION ~71:ABB Schweiz AG, Bruggerstrasse 66, BADEN 5400, SWITZERLAND, Switzerland ~72: FEYZMAHDAVIAN, Hamid;GARCIA-GABIN, Winston;MISHCHENKO, Kateryna~ 33:EP ~31:20167628.5 ~32:01/04/2020

2022/10348 ~ Complete ~54:PRESTRESSED TENDON ANNULAR ANCHORING DEVICE ~71:China Institute of Water Resources and Hydropower Research, 510 Building 15, Courtyard 20, Chegongzhuang West Road, Haidian District, Beijing, 100044, People's Republic of China;China Three Gorges Construction Engineering Corporation, Room 206-20, Floor 2, Building 1, Courtyard 1, Gongyuan Street, Beijing, 101149, People's Republic of China ~72: Hailong Huang;Hongtao Shi;Lijun Zhao;Tiesheng Dou;Weihua Huang~

2022/10354 ~ Complete ~54:MULTIFUNCTIONAL DEVICE FOR PHOTOVOLTAIC POWER GENERATION ~71:Jiangxi Jianbang Construction Group Co., Ltd., No. 77 Yanjiang South Road, Zhangshu City, Yichun City, Jiangxi Province, People's Republic of China ~72: Jianqiang Cao;Ming Li;Xiaoming Chen~

2022/10373 ~ Complete ~54:NLRP3 MODULATORS ~71:ZOMAGEN BIOSCIENCES LTD, 662 Encinitas Blvd, Suite 250, Encinitas, United States of America ~72: HARRIS, Jason;MOHAN, Raju;NUSS, John;YUAN, Shendong~ 33:US ~31:62/990,363 ~32:16/03/2020

2022/10349 ~ Complete ~54:DOUBLE STACK "V" HEAT EXCHANGER ~71:EVAPCO, INC., 5151 Allendale Lane, Taneytown, Maryland, 21787, United States of America ~72: BYRNE, Tom~ 33:US ~31:62/978,667 ~32:19/02/2020;33:US ~31:17/180,205 ~32:19/02/2021

2022/10355 ~ Complete ~54:COMPOSITIONS AND THERAPEUTIC USES OF CANNABIDIOL ~71:DR. MERCHANT, Shreema, 15152, UNIT 28, 62A AVE, SURREY, BRITISH COLUMBIA V3S 1V1, CANADA, India;PATEL, Mani, 15152, UNIT 28, 62A AVE, SURREY, BRITISH COLUMBIA V3S 1V1, CANADA, India ~72: CHOUDHURY, Koushik;FOUDA, Mohamed, Amin;GHOVANLOO, Mohammad-Reza;JADHAV, Vishal, Anant;PAGE, Dana, A;PATEL, Mani;PHATERPEKAR, Tejas;RADDI, Rusinova;RUBEN, Peter, Charles~ 33:IN ~31:202021007184 ~32:19/02/2020;33:IN ~31:202021013770 ~32:29/03/2020

2022/10372 ~ Complete ~54:TRANSPORT OF EXPLOSIVES ~71:AECI MINING LIMITED, AECI Place, 23/24 The Woodlands, Woodlands Drive, Woodmead,, SANDTON 2191, SOUTH AFRICA, South Africa ~72: KHARATYAN, Ellina;KOTZE, Phillippus Rudolf~ 33:GB ~31:2005868.1 ~32:22/04/2020

2022/10353 ~ Complete ~54:SOLAR POWER GENERATION METHOD AND DEVICE ~71:Jiangxi Jianbang Construction Group Co., Ltd., No. 77 Yanjiang South Road, Zhangshu City, Yichun City, Jiangxi Province, People's Republic of China ~72: Jianqiang Cao;Ming Li;Xiaoming Chen~

2022/10331 ~ Complete ~54:METHOD FOR PREPARING SODIUM SILICATE FOR ALKALI MINERAL CEMENT ~71:Sanming University, No. 25 Jingdong Road, Sanyuan District, Sanming City, Fujian Province, 365004, People's Republic of China ~72: CUI, Jinna;CUI, Xiuqin;LV, Shige;SHI, Kailin;SU, Qiangwei;TU, Mengjie;WEI, Shumin;WEI, Sicheng;YANG, Baochang;ZHANG, Mengyang~

2022/10336 ~ Complete ~54:SPLAYED PIPE BENDING AUTOMATIC FORMING MACHINE ~71:Dezhou Lihuan Environmental Protection Equipment Co., Ltd., (North of Huangdong Village) Dezhou Road, the Southern Suburb of Xinhua Sub-district Office, Decheng District, Dezhou City, Shandong Province, 253012, People's Republic of China ~72: XUE, Long;XUE, Rui;XUE, Yuliang~

2022/10341 ~ Complete ~54:SOIL OXYGEN-BAR FERTILIZER CAPABLE OF ALLEVIATING SOIL COMPACTION AND ENHANCING VENTILATION IN SOIL ~71:Zhengzhou Shengrun Biomass Energy Chemical Research Institute, Room 901, Unit 2, Building 19, CBD Shangwu Neihuan Road, Zhengdong New District, Zhengzhou City, Henan Province, 450046, People's Republic of China ~72: GUO, Lanju;LI, Guanjun;LIU, Peiming;MA, Meijing;WANG, Hongzhou;WANG, Sen~

2022/10344 ~ Complete ~54:APPARATUS FOR GRINDING WELD JOINT OF ANNULAR STEEL TUBE POLE FOR OVERHEAD LINES ~71:China Railway Electric Industries Co., Ltd., No. 6255, North Third Ring Road, Baoding City, Hebei Province, 071000, People's Republic of China;China Railway Electrical Industry Baoding Products Co., Ltd., No. 104, West Third Ring Road, Baoding City, Hebei Province, 071000, People's Republic of China;China Railway Electrification Bureau Group Co., Ltd., Room 202, No. 139, Fengtai Road, Fengtai District, Beijing, 100071, People's Republic of China ~72: CAI, Yunfei;CAO, Suxing;CUI, Hao;DUAN, Yubo;FANG, He;GAO, Yaozong;GUAN, Yijun;GUO, Jinchuan;HU, Huiliang;LANG, Weibo;LI, Jiandong;LI, Xiaodong;LIANG, Yan;LIU, Tao;LIU, Xuying;NIU, Jianghui;SHANG, Shunchao;TIAN, Hongfan;WANG, Meng;WANG, Peng;WANG, Tao;XU, Deqiang;XU, Weichao;ZHANG, Fan;ZHOU, Yongqiang~ 33:CN ~31:202111211608.5 ~32:18/10/2021

2022/10350 ~ Complete ~54:BENCHMARK METHOD FOR PROTEIN CONTENT MEASUREMENT BASED ON FLUORESCENTLY LABELED FLOW SINGLE MOLECULE COUNTING ~71:NATIONAL INSTITUTE OF METROLOGY, CHINA, 18, Beisanhuandonglu, Chaoyang District, Beijing, 100013, People's Republic of China ~72: GAO, Yun Hua;JIN, You Xun;LIU, Ya Hui;WANG, Di;WANG, Jing;WU, Li Qing;YANG, Bin~ 33:CN ~31:202010170831.9 ~32:12/03/2020

2022/10358 ~ Complete ~54:ORGANIC WATER-SOLUBLE FERTILIZER WITH HUMIC PROPERTIES ~71:NOVIHUM TECHNOLOGIES GMBH, Weidenstraße 70-72, 44147, Dortmund, Germany ~72: HORST NINNEMANN~ 33:EP ~31:20162500.1 ~32:11/03/2020

2022/10362 ~ Complete ~54:COMPOSITIONS OF SMAD7 ANTISENSE OLIGONUCLEOTIDES (ASO) AND METHODS OF USING THE SAME ~71:NOGRA PHARMA LIMITED, 33 Sir John Rogerson's Quay, Dublin 2, Ireland ~72: FRANCESCA VITI;GIOVANNI MONTELEONE;MARIE MCNULTY;SALVATORE BELLINIA;SALVATORE DEMARTIS~ 33:US ~31:63/015,120 ~32:24/04/2020;33:US ~31:63/030,818 ~32:27/05/2020;33:US ~31:63/135,283 ~32:08/01/2021

2022/10367 ~ Complete ~54:METHODS OF TREATING DIABETIC KIDNEY DISEASE ~71:AbbVie Inc., 1 North Waukegan Road, NORTH CHICAGO 60064, IL, USA, United States of America;Chinook Therapeutics, Inc., 1600 Fairview Avenue East, Suite 100, SEATTLE 98102, WA, USA, United States of America ~72: HEERSPINK, Hiddo Lambers;KING, Andrew James;MELNICK, Joel Z.;MILLER, Michael G.;NOONBERG, Sarah B.;YI, Tingting~ 33:US ~31:63/008,099 ~32:10/04/2020;33:US ~31:63/119,806 ~32:01/12/2020

2022/10323 ~ Provisional ~54:PUMPABLE STRUCTURE WITHOUT ELONGATE ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2022/10332 ~ Complete ~54:VISUAL SYSTEM OF PORT CRANE SIMULATOR AND IMAGE PROCESSING METHOD AND SYSTEM THEREOF ~71:SHANGHAI MARITIME UNIVERSITY, Logistics Building, No.1550 Haigang Avenue, Pudong New Area, Shanghai, People's Republic of China ~72: GUAN Xin;LU Houjun~

2022/10337 ~ Complete ~54:SHIP IMAGING TRAJECTORY EXTRACTION UNDER DISCONTINUOUS VISUAL INTERFERENCES ~71:Shanghai Maritime University, No.1550 Haigang Avenue, Pudong New Area, Shanghai, People's Republic of China;Wuhan University of Technology, No.1178 Heping Avenue, Wuchang District, Wuhan City, Hubei Province, People's Republic of China ~72: CHEN Weiping;CHEN Xinqiang;LI Chaofeng;WU Bing;WU Huafeng;XIAN Jiangfeng;YANG Yongsheng~ 33:CN ~31:202211000946.9 ~32:19/08/2022

2022/10347 ~ Complete ~54:MEDICATION DELIVERY SYSTEMS AND METHODS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ARNETT, Jaime Ray;SNOW, Andrew Thomas~ 33:US ~31:62/826,093 ~32:29/03/2019

2022/10351 ~ Complete ~54:DYNAMIC CHARACTERISTIC ANALYSIS METHOD OF DET AND RELAP5 COUPLING BASED ON UNIVERSAL INSTRUMENTAL VARIABLE METHOD ~71:Harbin Engineering University, NO.145 Nantong street, Nangang District, Harbin, Heilongjiang, 150001, People's Republic of China ~72: CHEN Haoyin;LI Lei;SUN Dabin;WANG He;WANG Liangjun;XIA Genglei~ 33:CN ~31:202110270621.1 ~32:12/03/2021

2022/10364 ~ Complete ~54:PLANT AND PROCESS FOR ENERGY GENERATION AND STORAGE ~71:ENERGY DOME S.P.A., Viale Abruzzi 94 , 20131, Milano, Italy ~72: CLAUDIO SPADACINI~ 33:IT ~31:102020000006196 ~32:24/03/2020

2022/10371 ~ Complete ~54:BACKPACK VENTILATOR FOR PREVENTING RESPIRATORY INFECTIOUS DISEASES ~71:Suzhou Yinque Intelligent Technology Co., Ltd, No. 85, Suyu Road, Yuanhe Street, Xiangcheng District, Suzhou City, Jiangsu, People's Republic of China ~72: Jianmeng Long;Yihan Long~

2022/10376 ~ Provisional ~54:SYSTEM AND METHOD FOR INDEPENDENT IMMUTABLE SELF-VERIFYING DATA BLOCK ~71:PIETER WILLWM VAN DER WALT, 1A BENEDEN STREET, South Africa ~72: PIETER WILLEM VAN DER WALT~

- APPLIED ON 2022/09/20 -

2022/10393 ~ Complete ~54:A MOBILE COMBINED BOOTH FOR COLLECTION OF THE NUCLEIC ACID THROAT SWAB ~71:WUXI SECOND PEOPLE'S HOSPITAL, No. 68 Zhongshan Road, Liangxi District, Wuxi City, People's Republic of China ~72: FENG, Ninghan;FENG, Yangkun;JIANG, Peng;LIU, Fengping;TANG, Hong;WANG, Yang;ZHAO, Feifei;ZHU, Yingwei~

2022/10401 ~ Complete ~54:PAIN-RELIEVING GRAIN-MOXIBUSTION MEDIUM AND ITS PREPARATION METHOD ~71:Henan Province Hospital of TCM, No.6 Dongfeng Road, Jinshui District, Zhengzhou City, Henan Province, People's Republic of China ~72: CHENG Hong;CHENG Zhenyang;LI Honglin;LIU Ya~39;nan;MA Chunzheng;MA Xijia;XU Yanchao;ZHAO Xinrui~ 33:CN ~31:2022106468645 ~32:09/06/2022

2022/10390 ~ Complete ~54:A PHOSPHATE FERTILIZER AND ITS PREPARATION METHODS ~71:NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 21 Bohai Avenue, Caofeidian New Town, Caofeidian District, Tangshan City, People's Republic of China ~72: LI, Guofeng;LI, Yanfeng;LI, Yingying;LIU, Liwei;ZHANG, Kun~

2022/10421 ~ Complete ~54:ENABLING ERASURE OF INFORMATION IN A BLOCKCHAIN ~71:ALGORAND, INC., 399 Boylston Street, Suite 800, United States of America ~72: MICALI, Silvio~ 33:US ~31:63/000,417 ~32:26/03/2020

2022/10425 ~ Complete ~54:DRY CEMENTITIOUS MATERIAL MIXTURE FOR 3D-PRINTING ~71:Holcim Technology Ltd, Grafenauweg 10, ZUG 6300, SWITZERLAND, Switzerland ~72: CARRION GOMEZ, Benito;DUCHAND, Sylvain;LABYAD, Abdelaziz;LOMBOIS-BURGER, H~233;l~232;ne;ZHANG, Qing~ 33:EP ~31:20290033.8 ~32:26/03/2020

2022/10391 ~ Complete ~54:A SECTION DISPLAY BRUSH USED FOR PREPARING A PARAFFIN SECTION ~71:WUXI SECOND PEOPLE'S HOSPITAL, No. 68 Zhongshan Road, Liangxi District, Wuxi City, People's Republic of China ~72: TANG, Chengdong;TANG, Hong;ZHAO, Feifei;ZHENG, Nanxiang;ZHU, Yingwei~

2022/10404 ~ Complete ~54:EASY-TO-EXTRACT BOOK COMPACT SHELF ~71:Jiangxi Sunshine Safety Equipment Group Co., Ltd., No. 305, Site Avenue, Zhangshu City, Jiangxi Province, People's Republic of China ~72: Haixin Ding~ 33:CN ~31:202210476671.X ~32:30/04/2022

2022/10414 ~ Complete ~54:SAMPLE TREATMENT METHOD OF IN-SITU IN VITRO CULTURED CELLS FOR TEM OBSERVATION ~71:NANTONG UNIVERSITY, No.9 Seyuan Road, Nantong, Jiangsu, 226019, People's Republic of China ~72: HE, Xiaoqin;LIU, Fang;LIU, Xiaoman;WANG, Yingjie;ZHU, Changlai~ 33:CN ~31:202111003683.2 ~32:30/08/2021

2022/10426 ~ Complete ~54:METHODS OF PREPARING OLIGONUCLEOTIDE COMPOSITIONS USING ULTRAFILTRATION / DIAFILTRATION ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: GOVINDAN, Geetha;GRONKE, Robert S.;IMMEL-BROWN, Jonas P.~ 33:US ~31:62/979,687 ~32:21/02/2020

2022/10427 ~ Complete ~54:TREATMENT ~71:UNION therapeutics A/S, Tuborg, Havnevej 18, HELLERUP DK-2900, DENMARK, Denmark ~72: ANDRES, Philippe;JELLINGSOE, Mads;SOMMER, Morten;TOFT-KEHLER, Anne Katrine;TOFT-KEHLER, Rasmus~ 33:GB ~31:2004844.3 ~32:01/04/2020;33:GB ~31:2005340.1 ~32:09/04/2020;33:GB ~31:2010573.0 ~32:09/07/2020;33:GB ~31:2010575.5 ~32:09/07/2020;33:GB ~31:2016274.9 ~32:14/10/2020;33:GB ~31:2016289.7 ~32:14/10/2020;33:GB ~31:2103957.3 ~32:22/03/2021

2022/10431 ~ Complete ~54:SYSTEMS AND METHODS FOR MICROWAVE REMOVAL OF NH₃ FROM ADSORBENT MATERIAL ~71:Starfire Energy, 403 Laredo St., Unit S, AURORA 80011 , CO, USA, United States of America ~72: BEACH, Joseph D.;KITNER, Jonathan D.;WELCH, Adam W.~ 33:US ~31:62/980,090 ~32:21/02/2020

2022/10420 ~ Complete ~54:PREPARATION OF A 1,3,5-TRIAZINYL BENZIMIDAZOLE ~71:MEI PHARMA, INC., 11455 El Camino Real, Suite 250, United States of America ~72: DUNCAN, David~ 33:US ~31:63/006,564 ~32:07/04/2020

2022/10400 ~ Complete ~54:NOVEL ANTIGEN BINDING DOMAINS AND SYNTHETIC ANTIGEN RECEPTORS INCORPORATING THE SAME ~71:UNIVERSITY OF SOUTHERN CALIFORNIA, 1150 South Olive Street, Suite 2300, United States of America ~72: CHAUDHARY, Preet M.~ 33:US ~31:62/990,396 ~32:16/03/2020

2022/10408 ~ Complete ~54:PROCESS FOR THE PREPARATION OF POLYACRYLAMIDES USING AN ECO-FRIENDLY LUBRICANT COMPOSITION ~71:SPCM SA, ZAC de Milieux, France ~72: BESSENET, Thierry;BOISSE, Nicolas;DAGUERRE, Fr#233;d#233;ric;FAVERO, C#233;drick;LING, Jing~ 33:CN ~31:202010251862.7 ~32:01/04/2020

2022/10416 ~ Complete ~54:IMPACT WEAR PANEL AND METHOD OF CONSTRUCTION THEREOF ~71:CUTTING EDGES EQUIPMENT PARTS (PTY) LTD, 25B1 VIOLET STREET REVESBY, Australia ~72: ANDREWS, Richard Scott;CAVASINNI, Michael Robert;KIDD, Gary~ 33:AU ~31:2020900479 ~32:20/02/2020

2022/10418 ~ Complete ~54:STRUCTURAL NODE FOR A MOTOR VEHICLE FRONT LOWER LOAD PATH, AND PROCESS FOR ASSEMBLING SAID STRUCTURAL NODE. ~71:ARCELORMITTAL, 24-26, Boulevard d#39;Avranches, Luxembourg ~72: Edith LAHELLEC;Jean-Louis COLMONT;Thierry DERCHU~

2022/10423 ~ Complete ~54:SUPPLEMENTAL ENERGY GENERATION AND STORAGE FOR TRAINS ~71:Ecolution kWh, LLC, 1377 Great Egret Trail, NAPLES 34105, FL, USA, United States of America ~72: MEDINA THEN, Johanne G.;THEN-GAUTIER, Johnny~ 33:US ~31:63/024,888 ~32:14/05/2020

2022/10434 ~ Complete ~54:HERBICIDAL COMPOUNDS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BURTON, Paul Matthew;EMERY, Katie;MITCHELL, Glynn;RAJAN, Ramya;TAYLOR, Nicholas John~ 33:IN ~31:202011016632 ~32:17/04/2020

2022/10405 ~ Complete ~54:LIFTING COMPACT SHELF ~71:Jiangxi Sunshine Safety Equipment Group Co., Ltd., No. 305, Site Avenue, Zhangshu City, Jiangxi Province, People's Republic of China ~72: Feifei Zhang~ 33:CN ~31:202210439609.3 ~32:25/04/2022

2022/10377 ~ Provisional ~54:INFLATION VALVE FOR A TUBELESS TYRE ~71:JUTERBOCK, Udo, 730 Orkney Crescent, Faerie Glen, South Africa ~72: JUTERBOCK, Udo~

2022/10429 ~ Complete ~54:COMPOUNDS TARGETING RNA-BINDING PROTEINS OR RNA-MODIFYING PROTEINS ~71:Twentyeight-Seven, Inc., 490 Arsenal Way, Suite 100B, WATERTOWN 02472, MA, USA, United States of America ~72: ERICSSON, Anna M.;GHOSH, Shomir;HARVEY, Darren Martin~ 33:US ~31:62/984,677 ~32:03/03/2020

2022/10433 ~ Complete ~54:FELINE ANTIBODY VARIANTS ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: BERGERON, Lisa Marie;CAMPOS, Henry Luis~ 33:US ~31:63/011,491 ~32:17/04/2020

2022/10382 ~ Complete ~54:MECHANIZED CONSTRUCTION PROCESS FOR ARTIFICIAL CYANOBACTERIA CRUST CULTURE ~71:Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, No. 320, Donggang West Road, Chengguan District, Lanzhou City, Gansu Province, 730000, People's Republic of China ~72: LI, Xinrong;PAN, Yanxia;ZHANG, Zhishan;ZHAO, Yang~

2022/10387 ~ Complete ~54:WEEDING-SPRAYING MACHINE SET FOR STRIP COMPOUND PLANTING OF CORNS AND SOYBEANS ~71:NINGXIA NONGKEN WARM SPRING FARM CO., LTD., NUANQUAN FARM, HELAN COUNTY, People's Republic of China ~72: CHEN, Ningdu;CUI, Yongtao;LI, Xuehong;MA, Xianjun;RUAN, Mengbing;YU, Jun;ZHANG, Wanyou~

2022/10378 ~ Provisional ~54:S.I.P.P PUMP ~71:Mark Ralph Haley, No 4 North Willow 24 Noorde St, South Africa;Raymond Cyril Staines, Farm Klein Brakfontein,27 R500 Fochville Road, South Africa ~72: Mark Ralph Haley;Raymond Cyril Staines~

2022/10385 ~ Complete ~54:CLEANING AGENT FOR REMOVING PESTICIDE RESIDUES AND PREPARATION METHOD THEREOF ~71:Sichuan food fermentation industry research and Design Institute Co., Ltd, No. 98, Middle Section of Yangliu East Road, Wenjiang District, Chengdu, Sichuan Province, 610000, People's Republic of China ~72: BAI, Hongmei;CHEN, Yimeng;GAO, Lihong;MAO, Pengyu;YIN, Xiangdong;YOU, Jinggang;ZHANG, Li;ZHOU, Zelin~

2022/10392 ~ Complete ~54:A SUITE BOX USED FOR LARGE SECTION OF PATHOLOGICAL PROSTATE TISSUE ~71:WUXI SECOND PEOPLE'S HOSPITAL, No. 68 Zhongshan Road, Liangxi District, Wuxi City, People's Republic of China ~72: FENG, Ninghan;TANG, Chengdong;TANG, Hong;WANG, Yang;ZHAO, Feifei;ZHENG, Nanxiang;ZHU, Yingwei~

2022/10396 ~ Complete ~54:MODIFIED SURGE ARRESTOR AND ADAPTER ~71:VAN HEERDEN, Anton, 12 Ripplemead Road, Nahoon Valley Park, South Africa ~72: VAN HEERDEN, Anton~

2022/10402 ~ Complete ~54:HEIGHT ADJUSTABLE COMPACT SHELF ~71:Jiangxi Sunshine Safety Equipment Group Co., Ltd., No. 305, Site Avenue, Zhangshu City, Jiangxi Province, People's Republic of China ~72: Haixin Ding~ 33:CN ~31:202210344288.9 ~32:31/03/2022

2022/10428 ~ Complete ~54:CONVEYANCE/FEED SYSTEM FOR A CUTTING PLATFORM OF A SELF-PROPELLED GRAIN HARVESTER ~71:KAMPHORST, Vanderlei, Rua Lajeado Seco, s/n, CX Postal 91 Zona Rural, HORIZONTINA RS 98920-000, BRAZIL, Brazil ~72: KAMPHORST, Vanderlei~ 33:BR ~31:10 2018 073817 8 ~32:20/11/2018

2022/10422 ~ Complete ~54:FORMULA OF PROBIOTICS AND METABOLITES THEREOF FOR RELIEVING METABOLIC SYNDROME, AND USE THEREOF ~71:INSTITUTE OF MICROBIOLOGY, GUANGDONG ACADEMY OF SCIENCES (GUANGDONG DETECTION CENTER OF MICROBIOLOGY), No. 56, No.100 Xianlie Central Road, Yuexiu District, Guangzhou City, People's Republic of China ~72: XIE, Liwei~ 33:CN ~31:202210392976.2 ~32:15/04/2022

2022/10395 ~ Complete ~54:COMBINED TYPE SNAP RING FITTING FOR CORRUGATED PIPE ~71:SHANDONG EFIELD PIPING SYSTEM CO., LTD., No. 2369, Yikang Road, Economic Development Zone of Tengzhou City, Zaozhuang City, People's Republic of China ~72: SUN, Fei;WANG, Fayan;ZHANG, Lei;ZHOU, Yongming~ 33:CN ~31:202123416095.X ~32:31/12/2021

2022/10407 ~ Complete ~54:USE OF A POLAR EXTRACT OF SKELETONEMA IN PHOTODYNAMIC THERAPY ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), 3, rue Michel-Ange, France;CHU NANTES, 5 Allée de la Gloriette, France;IFREMER, 1625 route de sainte anne, France;UNIVERSITÉ DE LA ROCHELLE, 23 avenue Albert Einstein BP 33060, France;UNIVERSITÉ DE LIMOGE, 33 rue François Mitterrand, France ~72: BERARD, Jean-Baptiste;GRENIER, Karine;LANDOLT, Cornelia;LEFOULON, Louise;OUK, Tan-Sothea;PICOT, Laurent;SAAD, Naama;SOL, Vincent~ 33:FR ~31:2003712 ~32:14/04/2020

2022/10409 ~ Complete ~54:COMPOSITIONS AND METHODS OF USING THE SAME FOR TREATMENT OF NEURODEGENERATIVE AND MITOCHONDRIAL DISEASE ~71:MITOKININ, INC., 953 Indiana St. San Francisco, California, 94107, United States of America ~72: DARA DITSWORTH;JOHAN BARTHOLOMEUS;JULIEN DANSEREAU;NICHOLAS THOMAS HERTZ;PHILIPPE MCGEE;RANDALL MARCELO CHIN;RISHI RAKHIT;ROBERT DEVITA;SHAWN JOHNSTONE~ 33:US ~31:62/980,143 ~32:21/02/2020

2022/10412 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTOR SPECIFIC FOR HUMAN CD45RC AND USES THEREOF ~71:INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), 101 rue de Tolbiac, 75654, Paris Cedex 13, France;NANTES UNIVERSITÉ, 1 quai de Tourville, 44000 Nantes, France ~72: CAROLE GUILLONNEAU;IGNACIO ANEGON~ 33:EP ~31:20305298.0 ~32:20/03/2020

2022/10424 ~ Complete ~54:FLUID PATH CONNECTORS FOR MEDICAL FLUID DELIVERY ~71:Bayer HealthCare LLC, 100 Bayer Boulevard, WHIPPANY 07981, NJ, USA, United States of America ~72: COWAN, Kevin;DEDIG, James;HAURY, John;KENT, Joseph;MENEGO, Ian;SPOHN, Michael;SWANTNER, Michael;TUCKER, Barry;UBER III, Arthur~ 33:US ~31:62/979,584 ~32:21/02/2020;33:US ~31:62/705,251 ~32:18/06/2020

2022/10398 ~ Complete ~54:USE OF AGENTS FOR TREATMENT OF RESPIRATORY CONDITIONS ~71:SAGE THERAPEUTICS, INC., 215 First Street, Cambridge, United States of America ~72: KANES, Stephen, Jay~ 33:US ~31:62/994,803 ~32:25/03/2020;33:US ~31:62/994,805 ~32:25/03/2020;33:US ~31:63/000,415 ~32:26/03/2020;33:US ~31:63/000,418 ~32:26/03/2020;33:US ~31:63/006,671 ~32:07/04/2020;33:US ~31:63/006,672 ~32:07/04/2020

2022/10419 ~ Complete ~54:INFLUENZA VIRUS-LIKE PARTICLES (VLPS) ~71:ÖSTERREICHISCHE AGENTUR FÜR GESUNDHEIT UND UMSICHT, HRUNGSSICHERHEIT GMBH, Spargelfeldstraße 191, Austria ~72: HARTMANN, Boris~ 33:EP ~31:20169787.7 ~32:16/04/2020

2022/10380 ~ Provisional ~54:APPENDIX TO PPA 2022/07929 ~71:Paul Steyn, 183 Hartebeesfontein, South Africa ~72: Paul Steyn~

2022/10381 ~ Complete ~54:RIGID-FLEXIBLE COUPLING TYPE HIGH-STRENGTH DOUBLE TOOTHED ROLLER CRUSHER FOR CRUSHING LIMESTONE ~71:Tangshan Tianhe Environmental Protection Technology Co., Ltd., South of Wafangzhuang Village, High-tech Zone, Tangshan City, Hebei Province, 063000, People's Republic of China ~72: LIU, Manping;LIU, Zhicun;WANG, Jia;WEI, Hongwu;WENG, Zengyan;XIANG, Caixia;XIAO, Lichun;YANG, Cuiling;ZHANG, Jianwei;ZHOU, Shuai~

2022/10394 ~ Complete ~54:A WORKING METHOD OF THE INTEGRATED MACHINE TO PULVERIZE AND EXTRACT SUBSTANCES CONTAINING GENES ~71:WUXI SECOND PEOPLE'S HOSPITAL, No. 68 Zhongshan Road, Liangxi District, Wuxi City, People's Republic of China ~72: DAI, Mengnan;LIN, Kai;LU, Jian;QIU, Yongxin;TANG, Hong;WU, Gaoyu;ZHU, Yingwei~

2022/10410 ~ Complete ~54:CARRIER DEVICE FOR GROUPING AND TRANSPORTING A SET OF BEVERAGE CANS ~71:HERRERA MUÑOZ, JORGE FUNDADOR, Camino a Lonquén 10611 Maipú, Santiago, Chile ~72: JORGE FUNDADOR HERRERA MUÑOZ~

2022/10411 ~ Complete ~54:A METHOD FOR TREATING A BIOLOGICAL OBJECT ~71:OPTICEPT TECHNOLOGIES AB, Kalkstensvägen 16, 224 78, Lund, Sweden ~72: AHMAD HUSAIN;EDA DEMIR WESTMAN;KATARZYNA DYMEK KRAKOWIAK;REVEKKA PAPAIOANNOU;STEPHEN KWAO~ 33:SE ~31:2050235-7 ~32:03/03/2020;33:SE ~31:2050637-4 ~32:03/06/2020

2022/10415 ~ Complete ~54:MULTIFUNCTIONAL COMPACT SHELF ~71:Jiangxi Sunshine Safety Equipment Group Co., Ltd., No. 305, Site Avenue, Zhangshu City, Jiangxi Province, People's Republic of China ~72: Jianping Zhang~ 33:CN ~31:202210417209.2 ~32:20/04/2022

2022/10430 ~ Complete ~54:UTILITY VEHICLE ~71:Polaris Industries Inc., 2100 Highway 55, MEDINA 55340-9770, MN, USA, United States of America ~72: BORUD, Eric J.;BRACHT, Bradley A.;EICHENBERGER, Jeremy R.;JOHNSON, Forrest W.;KATHIRIYA, Chirag;MARKSTROM, Jeremy M.;RUTKOWSKI, Johannah E.;THOMAS, Michael A.~ 33:US ~31:63/000,889 ~32:27/03/2020

2022/10399 ~ Complete ~54:KRAS EPITOPES AND ANTIBODIES ~71:OBLIQUE THERAPEUTICS AB, Arvid Wallgrens Backe 20, Sweden ~72: DAVIDSON, Max;ORWAR, Owe;TRKULJA, Carolina~ 33:GB ~31:2002556.5 ~32:24/02/2020;33:GB ~31:2101780.1 ~32:09/02/2021

2022/10413 ~ Complete ~54:METHODS OF ANALYZING CELL FREE NUCLEIC ACIDS AND APPLICATIONS THEREOF ~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, Stanford, California, 94305-2038, United States of America ~72: ARASH ASH ALIZADEH;DAVID M KURTZ;JACOB J CHABON;MAXIMILIAN DIEHN;MOHAMMAD SHAHROKH ESFAHANI~ 33:US ~31:62/980,972 ~32:24/02/2020

2022/10417 ~ Complete ~54:FOLDABLE COMPACT SHELF ~71:Jiangxi Sunshine Safety Equipment Group Co., Ltd., No. 305, Site Avenue, Zhangshu City, Jiangxi Province, People's Republic of China ~72: Shunping Peng~ 33:CN ~31:202210371264.2 ~32:11/04/2022

2022/10384 ~ Complete ~54:METHOD FOR CULTURING ASIAN SWAMP EEL, CRAYFISH, AND CHINESE SOFT-SHELLED TURTLES IN SAME POND BY UTILIZING S-SHAPED DITCH ~71:Shanghai Academy of Agricultural Sciences, No.1000, Jinqi Road, Fengxian District, Shanghai, 201403, People's Republic of China;Shanghai Ocean University, No.999, Huchenghuan Rd, Pudong New Area, Shanghai, 201306, People's

Republic of China ~72: Dong LIU;Lang GUI;Mingyou LI;Qinghua ZHANG;Quan YUAN;Weiwei HUANG;Weiwei LV;Wenzong ZHOU;Xiaolin SUN~

2022/10492 ~ Provisional ~54:MOBILE LOW THROUGHPUT RED MEAT ABATTOIR ~71:MR SITHULI MBEJE, 32 WENTWORTH JACKAL CREEK GOLFSTATE,, South Africa ~72: MR SITHULI MFIHLO MBEJE~

2022/10379 ~ Provisional ~54:AIRTIME RECYCLING ~71:herve Kimoto Lowo, 51 Arend street, South Africa ~72: Herve Kimoto Lowo~

2022/10383 ~ Complete ~54:A METHOD FOR PROMOTING PLANTS TO EXTRACT CD FROM RED SOIL AROUND MINING AREAS ~71:Jiaying University, No. 100, Meisong Road, Meijiang District, Meizhou City, Guangdong Province, People's Republic of China ~72: Chen Junhua;Cui Fengyan;Dong Zhicheng;Feng Shanshan;Li Yihong;Liu Youcun;Wang Lin;Wu Jianheng;Xu Chenhao;Zhang Lina~ 33:CN ~31:202211074889.9 ~32:02/09/2022

2022/10386 ~ Complete ~54:LICK BLOCK PREPARED FROM PLANT SALT ~71:AGRICULTURAL SCIENCE RESEARCH INSTITUTE OF JIANGSU COASTAL AREAS, NO. 9 KAIFANGDADAO NORTH ROAD, People's Republic of China ~72: CHEN, Huanyu;CHEN, Yingjiang;DONG, Jing;HE, Sunan;HE, Tingting;HONG, Lizhou;JIN, Chongfu;LIU, Chong;SUN, Guoli;WANG, Kai;XING, Jincheng;YU, Kai;ZHAO, Xiaohui;ZHU, Xiaomei~ 33:CN ~31:202210144724.8 ~32:10/02/2022

2022/10388 ~ Complete ~54:INTEGRATED SEEDING DEVICE FOR MIXED CROPPING OF SILAGE CORNS AND SOYBEANS ~71:NINGXIA NONGKEN WARM SPRING FARM CO., LTD., NUANQUAN FARM, HELAN COUNTY, People's Republic of China ~72: CHEN, Ningdu;CUI, Yongtao;LI, Xuehong;MA, Xianjun;RUAN, Mengbing;YU, Jun;ZHANG, Wanyou~

2022/10389 ~ Complete ~54:AN ACID-RESISTANT SULFATE-REDUCING BACTERIA STRAIN AND ITS CULTURE METHOD AND APPLICATION ~71:SOUTH CHINA UNIVERSITY OF TECHNOLOGY, No. 382, Outer Ring East Road, University Town, Panyu District, Guangzhou City, People's Republic of China;ZHONGKAI UNIVERSITY OF AGRICULTURE AND ENGINEERING, No. 24 Dongsha Street, Haizhu District, Guangzhou City, People's Republic of China ~72: DU, Jianjun;JIA, Aiping;LAI, Weibin;LU, Guining;TAO, Xueqin;WANG, Jiayu;ZHENG, Xiongkai;ZOU, Mengyao~

2022/10397 ~ Complete ~54:WATER DISTILLER ~71:GROASIS IP B.V., Franseweg 9, PV Steenberg, Netherlands ~72: HOFF, Petrus Mattheus Maria~ 33:EP ~31:20165994.3 ~32:26/03/2020

2022/10403 ~ Complete ~54:COMPACT SHELF WITH INDUCTION LIGHTING DEVICE ~71:Jiangxi Sunshine Safety Equipment Group Co., Ltd., No. 305, Site Avenue, Zhangshu City, Jiangxi Province, People's Republic of China ~72: Feifei Zhang~ 33:CN ~31:202210368434.1 ~32:06/04/2022

2022/10406 ~ Complete ~54:GENOME SEQUENCING AND DETECTION TECHNIQUES ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: BILKE, Sven;SCHLESINGER, Johann Felix Wilhelm~ 33:US ~31:63/022,296 ~32:08/05/2020

2022/10432 ~ Complete ~54:CANINE ANTIBODY VARIANTS ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: BERGERON, Lisa Marie;CAMPOS, Henry Luis~ 33:US ~31:63/011,453 ~32:17/04/2020

- APPLIED ON 2022/09/21 -

2022/10463 ~ Complete ~54:ROTARY PERCUSSIVE HYDRAULIC DRILL PROVIDED WITH A SHANK EQUIPPED WITH COUPLING SPLINES ~71:MONTABERT, 203, route de Grenoble, France ~72: CHERVIN, Gilbert;ESCOLLE, Michel~ 33:FR ~31:FR20/03324 ~32:02/04/2020

2022/10469 ~ Complete ~54:A NOVEL WOUND GEL COMPOSITION ~71:PHARMAPORT PROPRIETARY LIMITED, Plot 762, Botswana Road, Main Mall, Botswana ~72: MARAIS, Johann~ 33:ZA ~31:2020/01855 ~32:24/03/2020

2022/10480 ~ Complete ~54:METHODS AND COMPOSITIONS FOR PREPARING NUCLEIC ACID LIBRARIES ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: BRODIN, Jeffrey;CHANG, Weihua;CHRISTIANSEN, Lena;CHU, Megan;IAVICOLI, Patrizia;PANTOJA, Rigo;POKHOLOK, Dmitry;STEEMERS, Frank J.;THOMAS, Jerushah;VERMAAS, Eric;ZHANG, Fan~ 33:US ~31:63/001,684 ~32:30/03/2020

2022/10485 ~ Complete ~54:APTAMERS FOR PERSONAL HEALTH CARE APPLICATIONS ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, Global IP Services, CINCINNATI 45202, OH, USA, United States of America ~72: PENNER, Gregory Allen;PITZ, Adam Michael;RUPARD, Spencer Christopher;SCHMEICHEL, Kelly Lee;SWIGART, Erin Nicole;TREJO, Amy Violet;VELASQUEZ, Juan Esteban~ 33:US ~31:63/043,952 ~32:25/06/2020

2022/10488 ~ Complete ~54:THERAPEUTIC LIGHTING DEVICES AND METHODS ~71:Pathy Medical, LLC, 1000 Bridgeport Avenue, Suite 400, SHELTON 06484, CT, USA, United States of America ~72: KLEYMAN, Gennady;PATHY, Vinod V.;SILVER, Mikiya~ 33:US ~31:63/010,950 ~32:16/04/2020;33:US ~31:17/228,292 ~32:12/04/2021

2022/10435 ~ Provisional ~54:A SYSTEM FOR GENERATING LIQUID WATER FROM AIR ~71:UNIVERSITY OF SOUTH AFRICA, 1 PRELLER STREET MUCKLENEUK RIDGE, South Africa ~72: SNYMAN, LUKAS WILLEM~

2022/10442 ~ Complete ~54:A DIETARY THERAPY PACKET SOUP FOR SPLEEN-FORTIFYING AND STOMACH-NOURISHING ~71:Suizhou Shengfa Ecological Agricultural Technology Co., Ltd., 3rd Floor, Southern Suburb Business Office, Zengdu Sub-branch, Zengdu District., Suizhou, Hubei, People's Republic of China ~72: Tianfeng Li~

2022/10453 ~ Complete ~54:PREVENTING FINGER OF A USER FROM PINCH IN A DOOR GAP ~71:Mirza Faizan, 4017 Timberidge Drive., Irving, Texas, 75038, United States of America ~72: Ayat Faizan;Mirza Faizan;Vihan Yerubandi~ 33:US ~31:17902948 ~32:05/09/2022

2022/10457 ~ Complete ~54:TRANSFORMER VIBRATION DETECTION DEVICE ~71:Shuifa Chixiang Electric (Shandong) Co., Ltd., Dongjiao Industrial Park, Chengwu County, Heze, Shandong Province, People's Republic of China ~72: Feifan Kong;Jilan Zhang;Na Xie;Quanli Cheng;Xiancai Ren~

2022/10461 ~ Complete ~54:IMPROVED SPUNBOND SYSTEM AND PROCESS ~71:KIMBERLY-CLARK WORLDWIDE, INC., 2300 Winchester Road, United States of America ~72: HAYNES, Bryan D.;LENNON, Eric E.~ 33:US ~31:62/985,712 ~32:05/03/2020

2022/10472 ~ Complete ~54:METHOD AND ARRANGEMENTS IN AN ELECTRIC MINING MACHINE ~71:EPIROC ROCK DRILLS AKTIEBOLAG, 701 91 Örebro, Sweden ~72: EMIL ANDERSSON;JOACIM TÖRNQVIST;JOHANNES SKOGLUND;PATRIK ROTH~ 33:SE ~31:2050682-0 ~32:10/06/2020

2022/10481 ~ Complete ~54:SOLUBLE ACE2 AND FUSION PROTEIN, AND APPLICATIONS THEREOF
~71:Huahui Health Ltd., Building 7-Room 102, 20 Science Park Road, Zhongguancun Life Science Park, Changping District, BEIJING 102200, CHINA (P.R.C.), People's Republic of China;National Institute of Biological Sciences, Beijing, No. 7, Park Road, Zhongguancun Life Science Park, Changping District, BEIJING 102206, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianhe;LI, Wenhui;LIU, Juan;LIU, Ximing;MAO, Fengfeng;QI, Yonghe;SUI, Jianhua~ 33:CN ~31:202010124368.4 ~32:27/02/2020

2022/10439 ~ Complete ~54:INFRARED GAS SENSOR WITH GAS CHAMBER PACKAGED INTEGRALLY
~71:North University of China, No. 3 Xueyuan Road, Jiancaoping District, Taiyuan City, Shanxi Province, 030051, People's Republic of China ~72: LIANG, Xiaorui;TAN, Qiulin;XIONG, Jijun;ZHANG, Lei;ZHANG, Wendong~

2022/10444 ~ Complete ~54:USE OF GLUTARIMIDE DERIVATIVE FOR OVERCOMING STEROID RESISTANCE AND TREATING DISEASES ASSOCIATED WITH ABERRANT INTERFERON GAMMA SIGNALING ~71:"CHEMIMMUNE THERAPEUTICS" LIMITED LIABILITY COMPANY, Skolkovo Innovation Centre, Bolshoj Blvd., 42, Building 1, 2nd floor, part of office 771, Russian Federation ~72: NEBOLSIN, Vladimir Evgenievich~ 33:RU ~31:2018141291 ~32:23/11/2018

2022/10447 ~ Complete ~54:FIXED AUXILIARY INSPECTION EQUIPMENT FOR IMAGE INSPECTION
~71:HENAN PROVINCIAL PEOPLE'S HOSPITAL, No.7 Weiwu Road, Jinshui District, Zhengzhou City, Henan Province, People's Republic of China ~72: DOU Shewei;LI Yongli;LI Zhonglin;SUN Yongbing;WU Xiaoling;YAN Fengshan;ZHOU Jing;ZOU Lijun;ZOU Zhi~ 33:CN ~31:202210841162.2 ~32:18/07/2022

2022/10454 ~ Complete ~54:A MEDICATION FOR TREATING HEART FAILURE AND A PREPARATION METHOD THEREOF ~71:Guangsheng Zhang, Room 101, Unit 2, Building 8, Yihe Mingju, Nanguan Street, Taishan District,, Tai'an, Shandong, People's Republic of China ~72: Guangsheng Zhang~

2022/10458 ~ Complete ~54:ENCODER, DECODER, ENCODING METHOD, AND DECODING METHOD
~71:Panasonic Intellectual Property Corporation of America, 20000 Mariner Avenue, Suite 200, TORRANCE 90503, CA, USA, United States of America ~72: ABE, Kiyofumi;LI, Jing Ya;LIAO, Ru Ling;LIM, Chong Soon;NISHI, Takahiro;SHASHIDHAR, Sugghosh Pavan;SUN, Hai Wei;TEO, Han Boon;TOMA, Tadamasu~ 33:US ~31:62/699,930 ~32:18/07/2018

2022/10467 ~ Complete ~54:ADDITIVE MIXTURES FOR RHEOLOGY MODIFICATION OF POLYMERS
~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: DABBOUS, Raphael;MUELLER, Daniel;NESVADBA, Peter;VILLENEUVE, Sebastien~ 33:EP ~31:20159546.9 ~32:26/02/2020

2022/10473 ~ Complete ~54:UPHOLSTERED FURNITURE INCLUDING MOLDED FURNITURE COMPONENTS
~71:ASHLEY FURNITURE INDUSTRIES, LLC, One Ashley Way, Arcadia, Wisconsin, 54612, United States of America ~72: NICHOLAS J ROBINSON;THOMAS A BRANDTNER~ 33:US ~31:62/990,287 ~32:16/03/2020;33:US ~31:63/039,445 ~32:15/06/2020

2022/10476 ~ Complete ~54:CLAD 2XXX-SERIES AEROSPACE PRODUCT ~71:ALERIS ROLLED PRODUCTS GERMANY GMBH, Carl-Spaeter-Stra#223;e 10, 56070, Koblenz, Germany ~72: ACHIM B#220;RGER;PHILIPPE MEYER;SABINE MARIA SPANGEL~ 33:EP ~31:20172082.8 ~32:29/04/2020

2022/10482 ~ Complete ~54:METHOD AND DEVICE FOR THE PRODUCTION OF CEMENT CLINKER
~71:thyssenkrupp Industrial Solutions AG, ThyssenKrupp Allee 1, ESSEN 45143, GERMANY, Germany ~72: LAPPE, Thomas;WILLMS, Eike~ 33:BE ~31:2020/5226 ~32:08/04/2020;33:DE ~31:10 2020 204 519.4 ~32:08/04/2020

2022/10479 ~ Complete ~54:RAPID IMAGE CALIBRATION AND REAL-TIME RENDERING METHOD AND SYSTEM, MEDIUM, AND MOBILE END ~71:CHECC DATA CO., LTD., Floor 9, Block A, Jiahao International Centre, No. 116, Zizhuyuan Road, Haidian District, Beijing, 100097, People's Republic of China;CHINA HIGHWAY ENGINEERING CONSULTANTS CORPORATION, Floor 9, Block A, Jiahao International Centre, No. 116, Zizhuyuan Road, Haidian District, Beijing, 100097, People's Republic of China ~72: CUI, Li;CUI, Yuping;DONG, Qinghao;DONG, Yuanshuai;HOU, Yun;HU, Lin;LI, Wang;SONG, Zhangliang;YANG, Xuan;ZHANG, Peng;ZHANG, Xueliang;ZHANG, Yunling~ 33:CN ~31:202210214032.6 ~32:07/03/2022

2022/10490 ~ Complete ~54:DNA BARCODE FOR SCREENING FLOCCULARIA LUTEOVIRENS WITH HIGH TOTAL FAT CONTENT ~71:YANG, Manjun, A21-3-402, WEST CAMPUS OF TIBET VOCATIONAL TECHNICAL COLLEGE, LUODUI WEST ROAD, People's Republic of China ~72: YANG, Manjun~ 33:CN ~31:202111401641.4 ~32:19/11/2021

2022/10465 ~ Complete ~54:HERBICIDAL MALONAMIDES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: CAMPE, Ruth;DOMBO, Peter;HOLLENBACH, Eva;KORDES, Markus;LERCHL, Jens;NEWTON, Trevor, William;SEISER, Tobias;SEITZ, Thomas;ZIMMERMANN, Gunther~ 33:EP ~31:20160157.2 ~32:28/02/2020

2022/10474 ~ Complete ~54:METHODS OF TREATING SARS-COV-2 INFECTIONS ~71:EAGLE PHARMACEUTICALS, INC., 50 Tice Boulevard, Suite 315, Woodcliff Lake, New Jersey, 07677, United States of America ~72: ADRIAN HEPNER~ 33:US ~31:63/008,486 ~32:10/04/2020;33:US ~31:63/062,599 ~32:07/08/2020

2022/10475 ~ Complete ~54:METHODS OF TREATING SEVERE ACUTE RESPIRATORY SYNDROME ~71:EAGLE PHARMACEUTICALS, INC., 50 Tice Boulevard, Suite 315, Woodcliff Lake, New Jersey, 07677, United States of America ~72: ADRIAN HEPNER~ 33:US ~31:63/008,529 ~32:10/04/2020;33:US ~31:63/062,623 ~32:07/08/2020

2022/10486 ~ Complete ~54:CATHODE BLOCKS FOR ALUMINIUM ELECTROLYSIS AND A METHOD FOR PRODUCING SAME ~71:Norsk Hydro ASA, OSLO N-0240, NORWAY, Norway ~72: SUNDHEIM JENSEN, Morten~

2022/10489 ~ Complete ~54:DNA BARCODE FOR SCREENING FLOCCULARIA LUTEOVIRENS WITH HIGH TOTAL POLYSACCHARIDE CONTENT ~71:YANG, Manjun, A21-3-402, WEST CAMPUS OF TIBET VOCATIONAL TECHNICAL COLLEGE, LUODUI WEST ROAD, People's Republic of China ~72: YANG, Manjun~ 33:CN ~31:202111401727.7 ~32:19/11/2021

2022/10464 ~ Complete ~54:POLYOLEFIN COMPOSITIONS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HERBST, Heinz;LIPS, Gerard;MUELLER, Daniel~ 33:EP ~31:20159823.2 ~32:27/02/2020

2022/10470 ~ Complete ~54:A PIPE FLANGE COUPLING DEVICE, A PIPE ASSEMBLY AND A TOP-SUBMERGED-LANCE (TSL) SYSTEM ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Tampere, 33900, Finland ~72: JAMES BEECHING~

2022/10436 ~ Provisional ~54:COPPICE REGROWTH SPRAY APPLICATOR ~71:ETZEL, Heindrich Kurt, 1 Storm Lily Road, St Winifreds, South Africa;MATTHEW, Mansell Pernell, Lot 8, R102, South Africa;REDINGER, Deon Richard, 53 Umdoni Crescent, Zini River Estate, South Africa;TITMUSS, Grant Lloyd, 34 Birkenhead Road, Umbilo, South Africa ~72: ETZEL, Heindrich Kurt;MATTHEW, Mansell Pernell;REDINGER, Deon Richard;TITMUSS, Grant Lloyd~

2022/10441 ~ Complete ~54:HIGH-STRENGTH PHOSPHOGYPSUM-BASED RECYCLED AGGREGATE AND PREPARATION METHOD THEREOF ~71:Kunming University of Science and Technology, No. 68 Wenchang Road, Yieryi Street, Kunming City, Yunnan Province, People's Republic of China ~72: AO Ran;DAI Quxiu;HOU Peixin;LI Wengang;MA Liping;QING Sancheng;YIN Xia~ 33:CN ~31:202210513995.6 ~32:12/05/2022

2022/10448 ~ Complete ~54:MANUFACTURING METHOD OF HIGH-SPEED STEEL WORK ROLL FOR FINISHING HOT-ROLLED STRIP ~71:SINOSTEEL XINGTAI MACHINERY AND MILL ROLL CO.,LTD., No. 1 Xinxing West Street, Xindu District, Xingtai City, Hebei Province, 054025, People's Republic of China ~72: HU, Bing;LIU, Di;MA, Fengchuan~ 33:CN ~31:202111546512.4 ~32:16/12/2021

2022/10452 ~ Complete ~54:FULL-AUTOMATIC METHOD AND DEVICE FOR ENVIRONMENTAL STRESS CRACKING RESISTANCE TEST OF POLYETHYLENE ~71:SPECIAL EQUIPMENT SAFETY SUPERVISION INSPECTION INSTITUTE OF JIANGSU PROVINCE, Longjiang Building, No. 107 Caochangmen Street, Gulou District, Nanjing City, Jiangsu Province, People's Republic of China ~72: WEN, Jiongming~ 33:CN ~31:202211087020.8 ~32:07/09/2022

2022/10460 ~ Complete ~54:A DEVICE AND A METHOD FOR ANALYZING ADHATODA VASICA FOR REDUCING DENGUE COMPLICATIONS ~71:ESWARAN THANGARAJU, AKT MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY, India;GOPINATHAN NARASIMHAN, FACULTY OF PHARMACY, SRI RAMACHANDRA INSTITUTE OF HIGHER EDUCATION AND RESEARCH, India;MEENALOTCHINI GURUNTHALINGAM, DISTRICT HOSPITAL, PANDRI, RAIPUR, India;PUGAZHENTHAN THANGARAJU, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH,G E ROAD, India;SAJITHA VENKATESAN, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH,G E ROAD, India;SREE SUDHA TANGUTURI YELLA, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, DEOGHAR, PANCHAYAT TRAINING INSTITUTE, DABURGRAM JASIDIH, DEOGHAR, India;VIJAYAKUMAR ARUMUGAM RAMAMURTHY, DEPARTMENT OF PHARMACOLOGY, FACULTY OF PHARMACY, SREE BALAJI MEDICAL COLLEGE AND HOSPITAL, BIHER, CHENNAI, India ~72: ESWARAN THANGARAJU;GOPINATHAN NARASIMHAN;MEENALOTCHINI GURUNTHALINGAM;PUGAZHENTHAN THANGARAJU;SAJITHA VENKATESAN;SREE SUDHA TANGUTURI YELLA;VIJAYAKUMAR ARUMUGAM RAMAMURTHY~

2022/10466 ~ Complete ~54:METHOD FOR QUENCHING PEROXYCARBOXYLIC ACID RUNAWAY REACTIONS ~71:ECOLAB USA INC., 1 ECOLAB PLACE, SAINT PAUL, MINNESOTA 55102, USA, United States of America ~72: BOLDUC, John, W.;FINNEY, Curtis, Edward;LI, Junzhong;MACK, David, Andrew;MCSHERRY, David, D.;ROSENTHAL, Corey~ 33:US ~31:63/002,434 ~32:31/03/2020

2022/10437 ~ Provisional ~54:LED RAINBOW ~71:Thomas Stefanus Le Grange, 5 Lynndawn, 491 Dawn Ave, South Africa ~72: Thomas Stefanus Le Grange~

2022/10438 ~ Complete ~54:ANTI-LEAKAGE DRAINAGE TUBE ~71:ZHANG, Wei, No. 1498, Gongyuan Road, Zoucheng City, Jining City, Shandong Province, 273500, People's Republic of China ~72: ZHANG, Wei~

2022/10445 ~ Complete ~54:UNDISTURBED SOIL SAMPLER FOR GRASSLAND AREA ~71:INSTITUTE OF WATER RESOURCES FOR PASTORAL AREA, MINISTRY OF WATER RESOURCES, NO. 128, UNIVERSITY EAST STREET, People's Republic of China ~72: GUO, Jianying;TANG, Guodong;YANG, Zhenqi;ZHANG, Tiegang;ZHENG, Ying~ 33:CN ~31:202111115672.3 ~32:23/09/2021

2022/10446 ~ Complete ~54:AN ECOLOGICAL CANAL AND POND PURIFICATION SYSTEM AND PURIFICATION METHOD BASED ON HEAVY METALS IN FIELD BACKWATER ~71:China Institute of Water Resources and Hydropower Research, A-1 Fuxing Road, Haidian District, Beijing, 100038, People's Republic of China ~72: GAO, Bo;GAO, Wanchao;LI, Bao;LIU, Xiaoru;NI, Jie;PENG, Wenqi;WAN, Xiaohong;WU, Shubao;XU, Dongyu;ZHANG, Weijie~

2022/10455 ~ Complete ~54:A MEDICATION FOR TREATING GYNECOLOGICAL AND ANDROLOGICAL DISEASES ~71:Furong Zhang, Rm. 301, No. 50, Qianchenjialou, Tianqiao District,, Jinan, Shandong, People's Republic of China ~72: Fan Wang;Furong Zhang~

2022/10459 ~ Complete ~54:A WASTEWATER TREATMENT SYSTEM USING COMBINATION OF DIFFERENT GRADED SOILS ~71:Dr. Gayathri H.N, The Oxford College of Engineering, Bengaluru, India;Dr. Shankar B.S, Cambridge Institute of Technology, Bengaluru, India;Mahadeva Raju, Dayananda Sagar College of Engineering, Bengaluru, India;Sreevidya Raman, Cambridge Institute of Technology, Bengaluru, India ~72: Dr. Gayathri H.N;Dr. Shankar B.S;Mahadeva Raju;Sreevidya Raman~

2022/10487 ~ Complete ~54:METHOD OF MANUFACTURING A PREFAB CONSTRUCTION ELEMENT ~71:FS-Insulation B.V., Blaak 34, ROTTERDAM 3011 TA, THE NETHERLANDS, Netherlands ~72: BORRA, Hans Antonius;VAN DRIEL, Roland~ 33:EP ~31:20162810.4 ~32:12/03/2020

2022/10440 ~ Complete ~54:A DISTRIBUTED COLLECTION DEVICE FOR FOREST CARBON SINK DETECTION AND ITS APPLICATION METHOD ~71:Jilin Provincial Academy of Forestry sciences, No.3528, Linhe Street, Economic and technological development zone, Changchun city, Jilin province, 130033, People's Republic of China ~72: Guixiang Jin;Jun Ren;Limin Zhang;Mengyan Lyu;Siyu Chen~

2022/10450 ~ Complete ~54:FORMULATION FOR CONTROL OF SHOTCRETE REBOUND ~71:China Railway Seventh Bureau Group Nanjing Engineering Co., Ltd., Room 916, Building 6, No.6 Sanhong Road, Yuhuatai District, Nanjing City, People's Republic of China ~72: CUI, Wenshuang;FENG, Xiaoning;LI, Fuqiang;LI, Yongkang;MAO, Sanhua;SONG, Zhizhao;XI, Kangli;XU, Gaohe;YANG, Fan;YAO, Jianrong~

2022/10462 ~ Complete ~54:AN IN-MOLD ONE-STEP FOAMING MOLDING PROCESS AND THE FOAMED PRODUCTS ~71:Suzhou Shensai New Materials Co., Ltd, (No. 11, Zone C, Phase III, Export Processing Zone)No. 1, Zone 5, No. 20, Datong Road, High tech Zone, Suzhou, jiangsu province, People's Republic of China ~72: Jiang Xiulei;Li Qijun;Yu Jiabao~ 33:CN ~31:202010157235.7 ~32:09/03/2020

2022/10477 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING SPLICING ~71:REMIX THERAPEUTICS INC., One Kendall Square, Building 600, 4th Floor, Cambridge, Massachusetts, 02139, United States of America ~72: ALLEN T HOPPER;ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;MICHAEL W SEILER;OLIVIER SOUEIDAN;PETER SMITH;SERGE LEGER;SUDEEP PRAJAPATI~ 33:US ~31:63/007,331 ~32:08/04/2020;33:US ~31:63/044,318 ~32:25/06/2020;33:US ~31:63/072,922 ~32:31/08/2020;33:US ~31:63/126,494 ~32:16/12/2020

2022/10483 ~ Complete ~54:PREPARATION OF MCL-1 INHIBITING COMPOUND BY METHYLATION IN THE PRESENCE OF WATER ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: ACHMATOWICZ, Michael;BROWN, Sean P.;CUI, Sheng;HUCKLE, James E.;HWANG, Tsang-Lin;LANGILLE, Neil Fred;STEC, Markian;TOM, Janine K.;WU, Tian~ 33:US ~31:63/002,629 ~32:31/03/2020;33:US ~31:63/070,630 ~32:26/08/2020;33:US ~31:63/084,367 ~32:28/09/2020

2022/10491 ~ Complete ~54:METHOD FOR PRODUCING A MULTILAYER COMPOSITE FILM, MULTILAYER COMPOSITE FILM, AND USE THEREOF ~71:KUHNE ANLAGENBAU GMBH, Einsteinstrasse 20, Germany ~72: SCHIFFMANN, Jurgen Michael~ 33:DE ~31:10 2020 111 879.1 ~32:30/04/2020

2022/10443 ~ Complete ~54:AI DISCRIMINATION AND CLASSIFICATION DEVICE FOR CEPHALOPOD BEAKS ~71:SHANGHAI OCEAN UNIVERSITY, NO. 999, Hucheng Ring Road, Pudong New Area, Shanghai, 200000, People's Republic of China ~72: GU Xinyu;KONG Xianghong;LI Jianhua;LIU Bilin;WANG Bingyan~

2022/10449 ~ Complete ~54:SILKWORM BREEDING METHOD ~71:Bijie Huijiang Sericulture Development Co., Ltd., The First Pioneer Park of Small and Micro Enterprises, Qixingguan District, Bijie City, Guizhou Province, 551799, People's Republic of China;Guizhou Liangjingjing Biotechnology Co., Ltd., Building 6, Phase 2 of the Standard Workshop, Tunzhou Industrial Park, Censong Town, Jianhe County, Qiongdongnan Prefecture, Guizhou Province, 556400, People's Republic of China;Guizhou Sericulture Research Institute (Guizhou Pepper Research Institute), Jinzhu Town, Huaxi District, Guiyang City, Guizhou Province, 550025, People's Republic of China;Guizhou Tongue Blooming Food Co., Ltd., Jiangbei Cultural and Creative Building 49, Yangasha Street, Jianhe County,, Qiongdongnan Miao and Dong Autonomous Prefecture, Guizhou Province, 556400, People's Republic of China ~72: CHEN, Biao;LIN, Xiqun;LUO, Chaobin;QING, Zhuo;REN, Xiaoxiao;SUN, Yunpeng;XING, Dan;YANG, Wanjun;YE, Zhanfeng;ZHANG, Yingxiang~

2022/10451 ~ Complete ~54:A PROCESS FOR CURING FRESH TOBACCO LEAVES WITH LIQUID FUEL ~71:Fulin Liao, No. 103, Weishang, Sixi Village, Fangtian Town, Ninghua County, Sanming, Fujian, People's Republic of China ~72: Fulin Liao~

2022/10456 ~ Complete ~54:MECHANICAL PART DETECTION WORKING DEVICE ~71:Shuifa Chixiang Electric (Shandong) Co., Ltd., Dongjiao Industrial Park, Chengwu County, Heze, Shandong Province, 274200, People's Republic of China ~72: Feifan Kong;Jilan Zhang;Xiaolei Chen;Yanyan Wang;Zhenguang Shan~

2022/10468 ~ Complete ~54:A CASTOR WHEEL ASSEMBLY ~71:LEGER, Jean-Patrick, 15 BRUCE STREET, WAVERLEY, JOHANNESBURG 2090, SOUTH AFRICA, South Africa ~72: LEGER, Jean-Patrick~ 33:ZA ~31:2020/01187 ~32:26/02/2020

2022/10471 ~ Complete ~54:POST-TENSIONED CONCRETE SLAB WITH FIBRES ~71:CCL STRESSING INTERNATIONAL LIMITED, Unit 8 Millennium Drive LS11 SBP Leeds, United Kingdom;NV BEKAERT SA, Bekaertstraat 2, 8550, Zwevegem, Belgium ~72: CAROL HAYEK;HENDRIK THOOFT~ 33:EP ~31:20075006.5 ~32:24/03/2020

2022/10478 ~ Complete ~54:IMPROVED AEROGEL COMPOSITIONS AND METHODS ~71:ASPEN AEROGELS INC., 30 Forbes Road Building B Northborough Massachusetts 01532, United States of America ~72: DEKRAFFT, Kathryn;DONG, Wenting;EVANS, Owen;MIHALCIK, David~ 33:US ~31:63/006,003 ~32:06/04/2020

2022/10484 ~ Complete ~54:STRUCTURED RHEOLOGICAL SOLID PERSONAL CARE COMPOSITIONS ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: DRIA, Jamie Lynn;ILLIE, Brandon Philip;LIN, Tinlee;LUDHER, Baltej;LYNCH, Matthew Lawrence;MOLL, Corrie;VEINTIMILLA, Greg;ZHU, Taotao~ 33:US ~31:63/007,963 ~32:10/04/2020;33:US ~31:63/081,436 ~32:22/09/2020

- APPLIED ON 2022/09/22 -

2022/10547 ~ Complete ~54:SUPPORT STATUS INDICATOR AND GROUND MOVEMENT EARLY WARNING DEVICE ~71:Mining Product Developments (Pty) Ltd, 10 Vegkop Street Noordheuwel, South Africa ~72: HOWELL, Mark;PIENAAR, Frans Roelof Petrus~ 33:ZA ~31:2021/04264 ~32:22/06/2021

2022/10502 ~ Complete ~54:PREPARATION METHOD FOR RED MUD-BASED CATALYST, PRODUCT AND APPLICATION THEREOF ~71:Sichuan University of Science and Engineering, No. 519, Huixing Road, Zigong City, Sichuan Province, 643000, People's Republic of China ~72: FAN, Beibei;Hua-Jun Shawn Fan;QIN, Xiaoping;SHANG, Jianping;ZHAO, Bin~

2022/10510 ~ Complete ~54:SELF-ADAPTIVE HEAVY-DUTY GEAR TRANSMISSION WALKING DEVICE ~71:XUZHOU UNIVERSITY OF TECHNOLOGY, No.2 Lishui Road, Yunlong District, Xuzhou City, Jiangsu Province, People's Republic of China;XUZHOU XCMG DRIVELINE TECHNOLOGY CO., LTD., No.8 Tuolanshan Road, Economic and Technological Development Zone of Xuzhou City, Jiangsu Province, People's Republic of China ~72: HAN Kun;HE Minghu;HU Jianjun;HU Minghui;HUANG Chuanhui;JIANG Liqiao;LIU Changzhao;LIU Xinhua;LIU Yonggang;LYU Chang;MA Ming;QIN Datong;SONG Jun;SUN Dandan;WANG Shengcheng;WANG Zhongbin;XUE Lige;YIN Haodong;ZHANG Nong;ZHU Hongrui~ 33:CN ~31:202210221113.9 ~32:09/03/2022

2022/10518 ~ Complete ~54:PERIPHERAL SELF-PROTECTION IMPACT TEST APPARATUS THAT IS EASILY DISASSEMBLED AND ASSEMBLED FOR GEAR CHARACTERISTIC RESEARCH ~71:ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY, No.9 Donghua Road, Fengyang, Chuzhou, Anhui, 233100, People's Republic of China ~72: LI, Tongjie;WANG, Juan~ 33:CN ~31:202111429069.2 ~32:29/11/2021

2022/10524 ~ Complete ~54:CORONAVIRUS VACCINE ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: ÖZLEM TÜRECI;ALEXANDER MUIK;ALPTEKIN GÜLER;ANDREAS KUHN;ANNETTE VOGEL;KERSTIN WALZER;SONJA WITZEL;STEPHANIE HEIN;UGUR SAHIN~ 33:EP ~31:PCT/EP2020/061239 ~32:22/04/2020;33:EP ~31:PCT/EP2020/066968 ~32:18/06/2020;33:EP ~31:PCT/EP2020/068174 ~32:26/06/2020;33:EP ~31:PCT/EP2020/069805 ~32:13/07/2020;33:EP ~31:PCT/EP2020/071733 ~32:31/07/2020;33:EP ~31:PCT/EP2020/071839 ~32:03/08/2020;33:EP ~31:PCT/EP2020/073668 ~32:24/08/2020;33:EP ~31:PCT/EP2020/081544 ~32:09/11/2020;33:EP ~31:PCT/EP2020/081981 ~32:12/11/2020;33:EP ~31:PCT/EP2020/082601 ~32:18/11/2020;33:EP ~31:PCT/EP2020/082989 ~32:20/11/2020;33:EP ~31:PCT/EP2020/083435 ~32:25/11/2020;33:EP ~31:PCT/EP2020/084342 ~32:02/12/2020;33:EP ~31:PCT/EP2020/085145 ~32:08/12/2020;33:EP ~31:PCT/EP2020/085653 ~32:10/12/2020;33:EP ~31:PCT/EP2020/087844 ~32:23/12/2020;33:EP ~31:PCT/EP2021/050027 ~32:04/01/2021;33:EP ~31:PCT/EP2021/050874 ~32:15/01/2021;33:EP ~31:PCT/EP2021/050875 ~32:15/01/2021;33:EP ~31:PCT/EP2021/051772 ~32:26/01/2021;33:EP ~31:PCT/EP2021/052572 ~32:03/02/2021;33:EP ~31:PCT/EP2021/052716 ~32:04/02/2021;33:EP ~31:PCT/EP2021/054622 ~32:24/02/2021

2022/10532 ~ Complete ~54:A PHOTOVOLTAIC DEVICE ~71:Exeger Operations AB, Box 55597, STOCKHOLM SE-102 04, SWEDEN, Sweden ~72: FILI, Giovanni;LINDSTRÖM, Henrik~ 33:EP ~31:20170140.6 ~32:17/04/2020

2022/10535 ~ Complete ~54:METHODS AND SYSTEMS FOR INCREASING THE CARBON CONTENT OF DIRECT REDUCED IRON IN A REDUCTION FURNACE ~71:Midrex Technologies, Inc., 3735 Glen Lake Drive, Suite 400, CHARLOTTE 28208, NC, USA, United States of America ~72: ASTORIA, Todd Michael;BASTOW-COX, Kieth Marshall;HUGHES, Gregory Darel~ 33:US ~31:62/993,771 ~32:24/03/2020;33:US ~31:17/209,506 ~32:23/03/2021

2022/10543 ~ Provisional ~54:AN ELECTRICAL LICENSING DEVICE AND SYSTEM ~71:THE ROSS FAMILY TRUST No I/T 20048/2014, No8 Pen Kotze Street Platterkloof 1,, South Africa ~72: ROSS CLINT DAMIAN~

2022/10519 ~ Complete ~54:METHOD FOR CHEMICAL IN-VITRO CONSERVATION OF POMEGRANATE GERMLASM ~71:ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY, No.9 Donghua Road, Fengyang, Chuzhou, Anhu, 233100, People's Republic of China ~72: QIAN, Jingjing;WANG, Ning~ 33:CN ~31:202110842946.2 ~32:26/07/2021

2022/10522 ~ Complete ~54:FIBER AND FIBER MANUFACTURING METHOD ~71:NIPPON FIBER CORPORATION, 2373-2, Fuse, Abiko-City, Chiba 2701162, Japan ~72: HIROSHI FUKAZAWA~ 33:JP ~31:2020-052418 ~32:24/03/2020

2022/10528 ~ Complete ~54:COMPOSITIONS FOR OVARIAN CANCER ASSESSMENT HAVING IMPROVED SPECIFICITY AND SENSITIVITY ~71:ASPIRA WOMEN'S HEALTH INC., 12117 Bee Caves Road, Austin, Texas, 78738, United States of America ~72: HERBERT FRITSCH;LESLEY NORTHROP~ 33:US ~31:62/992,358 ~32:20/03/2020

2022/10540 ~ Complete ~54:WIDE-AREA POWER SUPPLY SYSTEM ~71:LAND BUSINESS CO.,LTD., KASUMIGASEKI BUILDING, 2-5, KASUMIGASEKI 3-CHOME, Japan ~72: KAMEI Masamichi~ 33:JP ~31:2020-036883 ~32:04/03/2020

2022/10495 ~ Provisional ~54:SECURITY GATE ~71:DEFENDOOR CC, 199 Constantia Drive, Constantia Kloof, Roodepoort, Johannesburg, South Africa ~72: DAMIAN BRETT DIONISIO~

2022/10500 ~ Complete ~54:A KIND OF THE POWDER-LIQUID COMBINED RAMJET AND ITS CONTROL METHOD ~71:Nanjing University Of Aeronautics And Astronautics, No. 29, Yudao Street, Qinhuai District, Nanjing City, Jiangsu Province, People's Republic of China ~72: Yao Zhaohui~ 33:CN ~31:202210506974.1 ~32:10/05/2022

2022/10507 ~ Complete ~54:A KIND OF CHINESE MEDICINE MASK FOR BRIGHTENING COMPLEXION AND LIGHTENING SPOTS ~71:Suizhou Shengfa Ecological Agricultural Technology Co., Ltd., 3rd Floor, Southern Suburb Business Office,, Zengdu Sub-branch, Zengdu District,, Suizhou, Hubei, People's Republic of China ~72: Tianfeng Li~

2022/10514 ~ Complete ~54:NON-SUPPORTING TELESCOPING CLOSURE MONITORING POST ~71:Mining Product Development Manufacturing (Pty) Ltd, 10 Vegkop Street Noordheuwel, South Africa ~72: HOWELL, Mark;PIENAAR, Frans Roelof Petrus~ 33:ZA ~31:2021/04272 ~32:22/06/2021

2022/10526 ~ Complete ~54:RNA CONSTRUCTS AND USES THEREOF ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: ÖZLEM TÜRECI;ALEXANDER MUIK;ALPTEKIN GÜLER;ANDREAS KUHN;ANNETTE VOGEL;AZITA JOSEFINE MAHINY;GÁBOR BOROS;JONAS REINHOLZ;KATALIN KARIKO;KERSTIN WALZER;SONJA WITZEL;STEPHANIE HEIN;UGUR SAHIN~ 33:EP ~31:PCT/EP2020/061239 ~32:22/04/2020;33:EP ~31:PCT/EP2020/066968 ~32:18/06/2020;33:EP ~31:PCT/EP2020/068174 ~32:26/06/2020;33:EP ~31:PCT/EP2020/069805 ~32:13/07/2020;33:EP ~31:PCT/EP2020/071733 ~32:31/07/2020;33:EP ~31:PCT/EP2020/071839 ~32:03/08/2020;33:EP ~31:PCT/EP2020/073668 ~32:24/08/2020;33:EP ~31:PCT/EP2020/081544 ~32:09/11/2020;33:EP ~31:PCT/EP2020/081981 ~32:12/11/2020;33:EP ~31:PCT/EP2020/082601 ~32:18/11/2020;33:EP ~31:PCT/EP2020/082989 ~32:20/11/2020;33:EP ~31:PCT/EP2020/083435 ~32:25/11/2020;33:EP ~31:PCT/EP2020/084342 ~32:02/12/2020;33:EP ~31:PCT/EP2020/085145 ~32:08/12/2020;33:EP ~31:PCT/EP2020/085653 ~32:10/12/2020;33:EP ~31:PCT/EP2020/087844 ~32:23/12/2020;33:EP ~31:PCT/EP2021/050027 ~32:04/01/2021;33:EP ~31:PCT/EP2021/050874 ~32:15/01/2021;33:EP ~31:PCT/EP2021/050875 ~32:15/01/2021;33:EP ~31:PCT/EP2021/051772 ~32:26/01/2021;33:EP ~31:PCT/EP2021/052572 ~32:03/02/2021;33:EP ~31:PCT/EP2021/052716 ~32:04/02/2021;33:EP ~31:PCT/EP2021/054622 ~32:24/02/2021;33:EP ~31:PCT/EP2021/059947 ~32:16/04/2021

2022/10538 ~ Complete ~54:ELECTRON MICROSCOPY SUPPORT ~71:United Kingdom Research and Innovation, Polaris House, North Star Avenue, SWINDON SN2 1FL, WILTSHIRE, UNITED KINGDOM, United Kingdom ~72: NAYDENOVA, Katerina;RUSSO, Christopher J.~ 33:GB ~31:2004272.7 ~32:24/03/2020

2022/10517 ~ Complete ~54:FRACTAL CAPACITIVE SENSOR AND NON-INVASIVE VOLTAGE MEASUREMENT APPARATUS INCORPORATING SAME ~71:AFRICAN NEW ENERGIES LIMITED, Villa Florita, East Road, St George's Hill, United Kingdom ~72: KHALEEQ, Tajamal;KHAN, Saad Saleem;LARKIN, Stephen;OMAR, Muhammad;RAW, Brendon~

2022/10542 ~ Complete ~54:ROCK INHIBITORS FOR USE IN TREATING OR PREVENTING PULMONARY EDEMA ~71:ATRIVA THERAPEUTICS GMBH, Eisenbahnstrasse 1, Germany ~72: HEROLD, Susanne;KUZNETSOVA, Irina;PETERANDERL, Christin;PLESCHKA, Stephan;ZIEBUHR, John~ 33:LU ~31:101746 ~32:22/04/2020

2022/10496 ~ Provisional ~54:CARBON ENRICHED ROCK DUST PELLETIZED ~71:Clayton Julian Postma, 21 Aurora Drive, South Africa ~72: Clayton Julian Postma~

2022/10499 ~ Complete ~54:MILLET SOIL MOISTURE DETECTING SEEDER ~71:Institute of the Crops in High Latitude&Cold Climate Area,Shanxi Agricultural University, No.18 Yingbin East Road, Datong City, Shanxi Province, People's Republic of China ~72: JIANG Chao;LI Hai;LIANG Haiyan;SONG Xiaoqiang;YANG Fang;YANG Fu~

2022/10506 ~ Complete ~54:COMPOUND THERMAL INSULATION CABINET AND FORMING PROCESS THEREFOR ~71:Beijing Wuying Weiye Foam Plastic Material Co., Ltd., Beifaxin Village, Nanfaxin Town, Shunyi District, Beijing, 101399, People's Republic of China ~72: ZHOU, Xinhua~

2022/10534 ~ Complete ~54:CATHODE ASSEMBLY FOR A HALL-HEROULT CELL FOR ALUMINIUM PRODUCTION AND METHOD FOR MAKING SAME ~71:Norsk Hydro ASA, OSLO 0240, NORWAY, Norway ~72: BARDAL, Asgeir;SUNDHEIM JENSEN, Morten~

2022/10509 ~ Complete ~54:NANO-SIZED CALCIUM CARBONATE ~71:ROC Water Technologies (Pty) Ltd, 28 Keramiek Street, Clubview, OLIFANTSFONTEIN, Pretoria 1666, Gauteng, SOUTH AFRICA, South Africa;UNIVERSITY OF LIMPOPO, Turfloop Campus, Tzaneen Road, Mankweng, Sovenga 0727, SOUTH AFRICA, South Africa ~72: MAREE, Johannes Philippus;VAN VUUREN, David Steyn~ 33:ZA ~31:2021/07244 ~32:28/09/2021

2022/10493 ~ Provisional ~54:GREEN HYDROGEN TECHNOLOGY BY MOLYBDENUM DISULPHIDE/METAL-ORGANIC FRAMEWORK/POLY(ANILINE-CO-3-NITROANILINE) TERNARY COMPOSITE ~71:Prof Kwena Desmond Modibane, Department of Chemistry, University of Limpopo, South Africa ~72: Dr Katlego Makgopa;Kabelo E Ramohlola;Prof Kwena Desmond Modibane~ 33:ZA ~31:1 ~32:21/09/2022

2022/10504 ~ Complete ~54:WASTEWATER TREATMENT DEVICE FOR TREATING SEWAGE ~71:WEST ANHUI UNIVERSITY, West Anhui University, Moon Island, West of Yunlu Bridge, Lu 'an City, Anhui Province, People's Republic of China ~72: JIA Rusheng;WANG Wanfen~ 33:CN ~31:202211082180.3 ~32:06/09/2022

2022/10494 ~ Provisional ~54:SELF-LOCKING RE-USABLE PLUMBING CONNECTOR ~71:Livizone (PTY) Ltd, 2nd Floor, 28 Wale Street Waalburg Building, South Africa ~72: H J van Wyk~

2022/10501 ~ Complete ~54:AN ASSEMBLED SLEEP POSTURE-CORRECTION PILLOW ~71:Guangdong University of Technology, 729th Dongfeng East Road, Yuexiu District, Guangzhou City, Guangdong Province, 510090, People's Republic of China ~72: Dingbang Luh;Fei Sun;Yue Sun;Yulin Zhao~

2022/10511 ~ Complete ~54:COMPOUND PLANT DISINFECTANT, PREPARATION METHOD AND APPLICATION ~71:Chinese Academy of Inspection and Quarantine, No.11 Ronghua South Road, Yizhuang Economic Development Zone, Beijing, People's Republic of China;Guangzhou Customs District Technology Center, No. 66 Huacheng Avenue, Tianhe District, Guangzhou, Guangdong, People's Republic of China ~72: CI Ying;FANG Zhiqiang;LIAO Ruyan;WANG Jing;YAN Jihuan;ZHANG Xiaolong~

2022/10525 ~ Complete ~54:CORONAVIRUS VACCINE ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany;PFIZER INC., 235 East 42nd Street MS 235/9/86 New York, New York, 10017, United States of America ~72: ZLEM TÜRECI;ADVAIT VIJAY BADKAR;ALEXANDER MUIK;ALPTEKIN GÜLER;ANDREAS KUHN;ANNETTE VOGEL;DANNY PIERRE G HENDRIKSE;DIRK JOZEF PEETERS;JAMES JEAN;KERSTIN WALZER;MARJOH NAUTA;NICHOLAS WILLIAM WARNE;RAMIN DARVARI;SONJA WITZEL;STEPHANIE HEIN;TOM FRANK STEVEN VAN DOORSLAER;UGUR SAHIN~ 33:EP ~31:PCT/EP2020/061239 ~32:22/04/2020;33:EP ~31:PCT/EP2020/066968 ~32:18/06/2020;33:EP ~31:PCT/EP2020/068174 ~32:26/06/2020;33:EP ~31:PCT/EP2020/069805 ~32:13/07/2020;33:EP ~31:PCT/EP2020/071733 ~32:31/07/2020;33:EP ~31:PCT/EP2020/071839 ~32:03/08/2020;33:EP ~31:PCT/EP2020/073668 ~32:24/08/2020;33:EP ~31:PCT/EP2020/081544 ~32:09/11/2020;33:EP ~31:PCT/EP2020/081981 ~32:12/11/2020;33:EP ~31:PCT/EP2020/082601 ~32:18/11/2020;33:EP ~31:PCT/EP2020/082989 ~32:20/11/2020;33:EP ~31:PCT/EP2020/083435 ~32:25/11/2020;33:EP ~31:PCT/EP2020/084342 ~32:02/12/2020;33:US ~31:63/120,977 ~32:03/12/2020;33:EP ~31:PCT/EP2020/085145 ~32:08/12/2020;33:EP ~31:PCT/EP2020/085653 ~32:10/12/2020;33:EP ~31:PCT/EP2020/087844 ~32:23/12/2020;33:EP ~31:PCT/EP2021/050027 ~32:04/01/2021;33:EP ~31:PCT/EP2021/050874 ~32:15/01/2021;33:EP ~31:PCT/EP2021/050875 ~32:15/01/2021;33:EP ~31:PCT/EP2021/051772 ~32:26/01/2021;33:EP ~31:PCT/EP2021/052572 ~32:03/02/2021;33:EP ~31:PCT/EP2021/052716 ~32:04/02/2021;33:EP ~31:PCT/EP2021/054622 ~32:24/02/2021

2022/10531 ~ Complete ~54:PROCESS AND PLANT FOR THE SYNTHESIS OF UREA ~71:Casale SA, Via Pocobelli 6, LUGANO 6900, SWITZERLAND, Switzerland ~72: BERTINI, Paolo;FUMAGALLI, Matteo;MARRONE, Leonardo~ 33:EP ~31:20159396.9 ~32:25/02/2020

2022/10536 ~ Complete ~54:A METHOD AND SYSTEM FOR HEATING DIRECT REDUCED IRON (DRI) BETWEEN A DRI SOURCE AND PROCESSING EQUIPMENT FOR THE DRI ~71:Midrex Technologies, Inc., 3735 Glen Lake Dr., Suite 400, CHARLOTTE 28208, NC, USA, United States of America ~72: ASTORIA, Todd Michael;LEWIS Jr., James Lloyd~ 33:US ~31:62/993,836 ~32:24/03/2020;33:US ~31:17/209,561 ~32:23/03/2021

2022/10520 ~ Complete ~54:HYDROGEL COMPOSITIONS AND PREPARATION THEREOF ~71:IBERHOSPITEX, S.A., Av. Catalunya, 4, Spain ~72: LÓPEZ MOYA, Mario;RAMOS PÉREZ, Víctor~ 33:EP ~31:20382259.8 ~32:31/03/2020

2022/10527 ~ Complete ~54:SYSTEMS AND METHODS FOR PREDICTIVE IRRIGATION SYSTEM MAINTENANCE ~71:HEARTLAND AG TECH, INC., 907 3rd Avenue, Hancock, Wisconsin, 54943, United States of America ~72: AUSTIN RUZIC;JEREMIE PAVELSKI;RUSSELL SANDERS~ 33:US ~31:62/990,737 ~32:17/03/2020;33:US ~31:63/002,930 ~32:31/03/2020

2022/10541 ~ Complete ~54:IMPRINTING APPARATUS ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: AIYAR, Avishek;BRAHMA, Neil;CHAN, Danny Yuan;GHONGE, Tanmay;MERKEL, Timothy J.;PITERA, Arthur;WANG, Ruibo;WRIGHT, Daniel~ 33:US ~31:63/000,964 ~32:27/03/2020

2022/10515 ~ Complete ~54:VERTICAL SHAFT KILN ~71:CSIR, Scientia, Meiring Naude Road, Brummeria, Pretoria, 0184, South Africa ~72: JOSEPH MAPIRAVANA~ 33:ZA ~31:2021/07350 ~32:30/09/2021

2022/10521 ~ Complete ~54:RENAL FUNCTION PROTECTIVE AGENT ~71:NIPPON CHEMIPHAR CO., LTD., 2-3, Iwamotocho 2-chome, Chiyoda-ku, Tokyo, 1010032, Japan;TOHOKU UNIVERSITY, 2-1-1, Katahira, Aoba-ku, Sendai-shi, Miyagi, 9808577, Japan ~72: KOICHIRO NISHIOKA;MICHIAKI ABE;SATOMI YAMASAKI;SEIZO KOSHIBA;TETSUYA SAKURAI;TOSHIKI NAKAI~ 33:JP ~31:2020-056660 ~32:26/03/2020

2022/10529 ~ Complete ~54:INDOLE DITERPENE BIOSYNTHESIS ~71:GRASSLANZ TECHNOLOGY LIMITED, Lincoln Research Centre, 1365 Springs Road, 7674, Lincoln, New Zealand ~72: FINCH, Sarah Christine;HUDSON, Debbie Anne;JOHNSON, Richard David;MACE, Wade Jeffery;POPAY, Alison Jean~ 33:NZ ~31:763153 ~32:31/03/2020;33:NZ ~31:765613 ~32:23/06/2020

2022/10539 ~ Complete ~54:AN ENCODER, A DECODER AND CORRESPONDING METHODS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ALSHINA, Elena Alexandrovna;ESENLIK, Semih;GAO, Han;KOTRA, Anand Meher;WANG, Biao~ 33:IB ~31:2020/057229 ~32:17/03/2020

2022/10498 ~ Complete ~54:GREEN CONTROL METHOD FOR SPODOPTERA LITURA ~71:Institute of Plant Protection, Guizhou Academy of Agricultural Sciences, Institute of Plant Protection, Academy of Agricultural Sciences, Jinzhu Town, Huaxi District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: CHENG, Ying;JIN, Jianxue;LI, Fengliang;LI, Wenhong;ZHOU, Yuhang~

2022/10503 ~ Complete ~54:A SPECIAL GUIDE WIRE CLAMP DEVICE FOR CORONARY INTERVENTION ~71:Anyang Hospital of traditional Chinese Medicine, No. 150, Hongqi Road, Anyang City, Henan Province, People's Republic of China ~72: TianYabin~ 33:CN ~31:202211121231.9 ~32:15/09/2022

2022/10508 ~ Complete ~54:A REMOTE SENSING MONITORING METHOD FOR PEANUT LEAF AREA INDEX ~71:Shandong Academy of Agricultural Sciences, No. 23788, North Industry Road,, Jinan, Shandong, People's Republic of China ~72: Dongrui Han;Fei Wang;Meng Wang;Shouzhen Liang;Xiaodong Zhang;Xueyan Sui~

2022/10513 ~ Complete ~54:AN OPTICAL WAVEGUIDE CHIP WITH CONVERSION FROM MULTI-MODE TO SINGLE-MODE ~71:Juye Huayou Optoelectronics Technology Co., Ltd., No. 88, Beiyuan Road, Industrial Park of Daxieji Town, Juye County,, Heze, Shandong, People's Republic of China ~72: Kaifeng Zhou;Qiting Liu~ 33:CN ~31:202210968366.2 ~32:12/08/2022

2022/10497 ~ Provisional ~54:INTERACTIVE AND PORTABLE CROWD LIGHTING DISPLAYS AND COMMUNICATION TECHNOLOGY ~71:Grant Minnie, 5A Chestnut Villas, Paris Avenue, Lorraine, South Africa ~72: Grant Minnie~ 33:ZA ~31:ZA2022 ~32:21/09/2022

2022/10505 ~ Complete ~54:A TRANSGENIC TOBACCO AND ITS APPLICATION IN THE PRODUCTION OF TOXICODENDRON VERNICIFLUUM LACCASE ~71:Northwest A&F University, No.3 Taicheng Road, Yangling, Shaanxi, 712100, People's Republic of China ~72: Bai Hangyu;Liu Chaobin;Wu Haitang;Zhao Aiguo~

2022/10516 ~ Complete ~54:PROTECTIVE HEADGEAR ~71:MARK LENTIN, 21 Schiphol, 38 6th Road, Hyde Park, 2196, South Africa ~72: MARK LENTIN~ 33:ZA ~31:2021/04271 ~32:22/06/2021;33:ZA ~31:2021/05670 ~32:11/08/2021;33:ZA ~31:2022/03796 ~32:04/04/2022

2022/10533 ~ Complete ~54:SYSTEMS AND METHODS FOR CONTROLLING AN INTERACTIVE HYBRID ENVIRONMENT REPRESENTING A MOTORISED SPORTING EVENT AT A TRACK ~71:I R Kinetics Limited, 29 Rostle Top Road, EARBY BB18 6NJ, LANCASHIRE, UNITED KINGDOM, United Kingdom ~72: BRADLEY, Andrew;GARDNER, David~ 33:GB ~31:2006084.4 ~32:24/04/2020;33:GB ~31:2020297.4 ~32:21/12/2020

2022/10512 ~ Complete ~54:A METHOD AND SYSTEM FOR REMOTE SENSING RECOGNITION OF PEANUT PLANTING AREA ~71:Shandong Academy of Agricultural Sciences, No. 23788, North Industry Road, Jinan, Shandong, People's Republic of China ~72: Dongrui Han;Fei Wang;Meng Wang;Shouzhen Liang;Xiaodong Zhang;Xueyan Sui~

2022/10523 ~ Complete ~54:COMPOSITION FOR MAKING BOUILLONS ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: ANGELA DI SEVO NESSO;FELIPE AUGUSTO RAMOS DOS SANTOS;HARMANNUS TAMMES;JANAINA CORREIA GARCIA;LIVIA CEBOTARESCU;MARCELO CAMILO DE OLIVEIRA;MARCO ANTONIO LEFEVRE GRAGNANI;MARGARETHA MAREIKE MAINX~ 33:EP ~31:20172516.5 ~32:30/04/2020

2022/10530 ~ Complete ~54:PERSONAL CARE COMPOSITIONS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: CHEN, Changlong;CRUZ, Luis Alberto;KHAN, Amira;SHAHANI, Komal;SHEN, Hongwei;SOLIMAN, Nadia;ZUNIGA, Arturo~ 33:US ~31:63/001,757 ~32:30/03/2020

2022/10537 ~ Complete ~54:DIAMINOPYRAZOLO[1,5-A]PYRIMIDINE-6-CARBONITRILE COMPOUNDS AS ADENOSINE 2A RECEPTOR AND ADENOSINE 2B RECEPTOR ANTAGONIST ~71:Bugworks Research, Inc., 2711 Centerville Road, Suite 400, WILMINGTON 19808, DE, USA, United States of America ~72: BHARATHAM, Nagakumar;KAJIPALYA RANGANATHA RAO, Ranga Rao;KATAGIHALLI MATH, Nainesh;KAUSHIK KOTAKONDA, Harish;NANDISHAIAH, Radha;PEER MOHAMED, Shahul Hameed;REDDY, Sambasiva~ 33:IN ~31:202141001078 ~32:09/01/2021;33:IN ~31:202141025756 ~32:09/06/2021

- APPLIED ON 2022/09/23 -

2022/10545 ~ Provisional ~54:TREATMENT AND PREVENTION OF POST-ACUTE SEQUELAE OF SARS-COV-2 INFECTION ~71:COETZEE, Cornelis Jacobus, Unit 4B The Ridge Office Park, Off Corner Doordekraal and Durban Roads, South Africa ~72: COETZEE, Cornelis Jacobus~

2022/10549 ~ Complete ~54:A BREEDING EQUIPMENT AND METHOD FOR IMPROVING ESTRUS PROPAGATION OF YAK ~71:Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry, No.72, Duodi Road, Chengguan District, Lhasa City, Xizang Province, 850009, People's Republic of China ~72: Ba-Sang-Wang-Dui;Ci-Dan-Yang-Ji;Ci-Yang;Guangming Sun;Luo-Sang-Dun-Zhu;Luo-Sang-Zha-Xi;Suo-Lang;Suo-Lang-Zha-Xi;Xin Li;Yanbin Zhu~

2022/10555 ~ Complete ~54:A KIND OF ASSISTED WALKING DEVICE FOR THE ELDERLY WITH HEALTH MONITORING FUNCTION ~71:Xu Lianli, No. 22, Wenchang West Road, Higher Education Park, Yijiang District, Wuhu City, Anhui Province, People's Republic of China ~72: Xu Lianli~

2022/10560 ~ Complete ~54:INHIBITING CREB BINDING PROTEIN (CBP) ~71:FORMA THERAPEUTICS, INC., 500 ARSENAL STREET. SUITE 100, WATERTOWN, MASSACHUSETTS 02472, USA, United States of America ~72: DOWNING, Jennifer, R.;ERICSSON, Anna;GRAVES, Bradford;HERBERTZ, Torsten;LI, Hongbin;MISCHKE, Steven;SCHILLER, Shawn, E.R.;WEST, Angela, V.~ 33:US ~31:62/692,593 ~32:29/06/2018;33:US ~31:PCT/US2018/051214 ~32:14/09/2018;33:US ~31:PCT/US2018/051235 ~32:14/09/2018;33:US ~31:62/819,490 ~32:15/03/2019

2022/10577 ~ Complete ~54:QD DOSING OF GIP RECEPTOR AGONIST PEPTIDE COMPOUNDS AND USES THEREOF ~71:TAKEDA PHARMACEUTICAL COMPANY LIMITED, 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka, 541-0045, Japan ~72: ANTOINE CHARLES OLIVIER HENNINOT;DEREK CECIL COLE;NICHOLAS SCORAH~ 33:US ~31:62/994,716 ~32:25/03/2020

2022/10586 ~ Complete ~54:LIPOPHILIC ENANTIOMERS OF DESACETYLGLUCOSAMINE MURAMYL DIPEPTIDE WITH ANTI-INFLAMMATORY AND GROWTH PROMOTING ACTIVITY ~71:Nutrivert LLC, 3650 Dumbarton Road NW, ATLANTA 30327, GA, USA, United States of America ~72: KALTENBOECK, Bernhard;NALLE, Jr., Horace Disston~ 33:US ~31:63/000,364 ~32:26/03/2020

2022/10553 ~ Complete ~54:SCREENING METHOD OF FLOTATION INHIBITOR FOR FINE REFRACTORY COAL SLIME ~71:KAILUAN(GROUP)LIMITED LIABILITY CORPORATION, No. 70, Xinhua East Road, Tangshan, Hebei, People's Republic of China;NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY, 21 Bohai Road, Caofeidian Xincheng, Tangshan, Hebei, 063210, People's Republic of China ~72: DING Weiqing;LIU Xiangdong;NIU Fusheng;TIAN Lixin;TONG Shunzeng;WEI Liyong;YANG Chao;YANG Hongzhan;ZHANG Jinxia~

2022/10563 ~ Complete ~54:METHOD FOR PRESERVING STRAWBERRIES ~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No. 1 Xiang Wang Road, Gulou District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: ZHANG Xiaohong~

2022/10576 ~ Complete ~54:N-HETEROARYLALKYL-2-(HETEROCYCLYL AND HETEROCYCLYLMETHYL) ACETAMIDE DERIVATIVES AS SSTR4 AGONISTS ~71:TAKEDA PHARMACEUTICAL COMPANY LIMITED, 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka, 541-0045, Japan ~72: BEN JOHNSON;BENJAMIN JONES;HUIKAI SUN;JASON GREEN;KRISTIN SCHLEICHER;MINGNAM TANG;ZACHARIA CHERUVALLATH~ 33:US ~31:63/002,727 ~32:31/03/2020

2022/10580 ~ Complete ~54:A DECODER AND CORRESPONDING METHODS TO SIGNAL PICTURE PARTITIONING INFORMATION FOR SLICES ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ALSHINA, Elena Alexandrovna;ESENLIK, Semih;KOTRA, Anand Meher;WANG, Biao~ 33:IB ~31:2020/055220 ~32:28/02/2020

2022/10582 ~ Complete ~54:SYSTEM ARCHITECTURE FOR ACCESSING SECURE DATA FROM A MOBILE DEVICE IN COMMUNICATION WITH A REMOTE SERVER ~71:AppBrilliance, Inc., 100 Commons Rd., Suite 11, DRIPPING SPRINGS 78620, TX, USA, United States of America ~72: AYESTARAN, Sergio Gustavo;SMITH, Charles Eric~ 33:US ~31:16/828,449 ~32:24/03/2020

2022/10552 ~ Complete ~54:DOUBLE TOOTHED ROLLER CRUSHER CAPABLE OF RAPIDLY ADJUSTING DISTANCE BETWEEN TOOTH ROLLERS ~71:Tangshan Tianhe Environmental Protection Technology Co., Ltd., South of Wafangzhuang Village, High-tech Zone, Tangshan City, Hebei Province, 063000, People's Republic of China ~72: HONG, Qing;LI, Ning;LI, Rui;LIU, Manping;LIU, Zhicun;WANG, Jia;WANG, Yiming;WEI, Hongwu;WENG, Zengyan;YANG, Cuiling;ZHANG, Jianwei;ZHANG, Lixiu;ZHOU, Shuai~

2022/10558 ~ Complete ~54:A DOUBLE-CYLINDER TYPE AUTOMATIC ADJUSTMENT AND CONTROL SYSTEM FOR UNDERGROUND AIR WINDOW OF COAL MINES AND ITS CONTROL METHOD ~71:Taiyuan University of Technology, No. 79, Yingze West Street, Taiyuan, Shanxi, People's Republic of China ~72: Cui Chuanbo;Jiao Zhipeng;Li Jiangjiang;Song Zhiqiang;Yuan Yanwei;Zhou Yuying~

2022/10566 ~ Complete ~54:A REELED TYPE CAR CHARGER ~71:Chongqing Cheyouzhuang Technology Co., Ltd., Room 211, 1-1 Headquarter Office Building, Chongqing Engineering Vocational and Technical College, No. 800, Nanbei Avenue, Shengquan Street, Jiangjin District, Chongqing City, 400060, People's Republic of China ~72: Jiguang Chen;Peng Liu;Yingxue Pan~

2022/10574 ~ Complete ~54:AN APPARATUS FOR AND A METHOD OF MICROWAVE HEATING OF ROTATABLE ARTICLES, ESPECIALLY GREEN TYRE BLANKS ~71:ROMILL S.R.O., Tkalcovská 799/14, 60200, Brno, Czech Republic ~72: NIKOLAJ TERNOVOJ;PAVEL POLCER;ROMAN VOPÁLKA~ 33:CZ ~31:PV 2020-95 ~32:24/02/2020

2022/10565 ~ Complete ~54:A WEAR-RESISTANT NANOCARBON COMPOSITE MATERIAL ~71:Jilin Jianzhu University, No. 5088, Xincheng Avenue, Jingyue District, Changchun City, Jilin Province, 130118, People's Republic of China ~72: Shuai Zhang;Yabing Liu~

2022/10571 ~ Complete ~54:VEHICLE INSTALLATIONS ~71:VENTER, Francois, No. 409A Om die Berg Street, South Africa ~72: VENTER, Francois~ 33:ZA ~31:2020/01159 ~32:25/02/2020

2022/10579 ~ Complete ~54:ENCAPSULATED PYRETHROIDS WITH IMPROVED EFFECTIVENESS IN SOIL AND LEAF APPLICATIONS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: COMPANYS GARCIA, Veronica;EGGER, Holger;HAMBROCK, Ralf;HITZBERGER, Bernhard;PERIS URQUIJO, Gorka;RIST, Marc Andre~ 33:EP ~31:20159164.1 ~32:24/02/2020

2022/10584 ~ Complete ~54:FAP-TARGETED RADIOPHARMACEUTICALS AND IMAGING AGENTS, AND USES RELATED THERETO ~71:Trustees of Tufts College, Ballou Hall, 4th Floor, MEDFORD 02155, MA, USA, United States of America ~72: BACHOVCHIN, William W.;LAI, Hung-sen;WU, Wengen~ 33:US ~31:62/993,874 ~32:24/03/2020

2022/10589 ~ Complete ~54:HIGHLY DENSE ARRAY OF PHOTOVOLTAIC MODULES ~71:WATERSHED SOLAR, LLC, 11400 Atlantis Place, Suite 200, Alpharetta, United States of America ~72: AYERS, Michael R.;EHMAN, S. Kyle~ 33:US ~31:16/830,208 ~32:25/03/2020

2022/10583 ~ Complete ~54:INTEGRATION OF DR PLANT AND ELECTRIC DRI MELTING FURNACE FOR PRODUCING HIGH PERFORMANCE IRON ~71:Midrex Technologies, Inc., 3735 Glen Lake Drive, Suite 400, CHARLOTTE 28208, NC, USA, United States of America ~72: ASTORIA, Todd Michael;MICHISHITA, Haruyasu~ 33:US ~31:62/993,787 ~32:24/03/2020;33:US ~31:17/209,706 ~32:23/03/2021

2022/10588 ~ Complete ~54:A PROCESS FOR THE PRODUCTION OF VODKA ~71:ZHS IP Europe Sàrl, Avenue Reverdil 14, NYON 1260 , SWITZERLAND, Switzerland ~72: SCHEFLER, Yuri~ 33:EP ~31:20165669.1 ~32:25/03/2020

2022/10544 ~ Provisional ~54:BLOWER APPARATUS ~71:RAUTENBACH, James Jackson, 89 Ridder Street, Rustenburg, South Africa ~72: RAUTENBACH, James Jackson~

2022/10548 ~ Complete ~54:A FERMENTED FEED FOR PROMOTING YAK GROWTH AND ITS PREPARATION METHOD ~71:Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry, No.72, Duodi Road, Chengguan District, Lhasa City, Xizang Province, 850009, People's Republic of China ~72: Ba-Sang-Wang-Dui;Ci-Dan-Yang-Ji;Ci-Yang;Guangming Sun;Luo-Sang-Dun-Zhu;Luo-Sang-Zha-Xi;Suo-Lang;Suo-Lang-Zha-Xi;Xin Li;Yanbin Zhu~

2022/10550 ~ Complete ~54:A FEED AND ITS PREPARATION METHOD FOR PREVENTING YAK CALF DIARRHEA ~71:Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry, No.72, Duodi Road, Chengguan District, Lhasa City, Xizang Province, 850009, People's Republic of China ~72: Ba-Sang-Wang-Dui;Ci-Dan-Yang-Ji;Ci-Yang;Guangming Sun;Luo-Sang-Dun-Zhu;Luo-Sang-Zha-Xi;Suo-Lang;Suo-Lang-Zha-Xi;Xin Li;Yanbin Zhu~

2022/10554 ~ Complete ~54:SYSTEM FOR MONITORING SCOURING TO BRIDGE FOUNDATION ~71:Xiangtan University, Xiangtan University, No. 27, Yanggutang, Yuhu District, Xiangtan City, Hunan Province, 411105, People's Republic of China ~72: LONG, Shiguo;WANG, Dong;WU, Wenpeng;XU, Fu~

2022/10557 ~ Complete ~54:PREPARATION SYSTEM OF PHASE-CHANGE MATERIAL TEMPERATURE-CONTROL COATING RETARDER AND PREPARATION METHOD THEREOF ~71:Taiyuan University of

Technology, No. 79, Yingze West Street, Taiyuan, Shanxi, People's Republic of China ~72: Cui Chuanbo;Jiao Zhipeng;Li Jiangjiang;Song Zhiqiang;Yuan Yanwei;Zhou Yuying~

2022/10561 ~ Complete ~54:PREPARATION METHOD FOR FERMENTED MORINGA OLEIFERA LEAVES AND AN APPLICATION THEREOF IN AQUACULTURE ~71:Freshwater Fisheries Research Center, CAFS, No. 1, Qitang North Village, Dafu Town, Binhu District, Wuxi City, Jiangsu Province, 214081, People's Republic of China ~72: GE, Xianping;LIU, Bo;LUO, Weizhu;SUN, Cunxin;ZHOU, Qunlan~ 33:CN ~31:202111133292.2 ~32:26/09/2021

2022/10568 ~ Complete ~54:HIGH-RELIABILITY ELECTRONIC DETONATOR AND DIGITAL BLASTING ASSEMBLY THEREOF ~71:BEIJING AUXIN CHEMICAL TECHNOLOGY LTD., Room 1401-1404, 14th Floor, Building 3, Yard 6, Zhengda Road, Shijingshan District, 100043, People's Republic of China ~72: FEI ZHEN;HAO LI;JILIN SUN;SHUZHONG SONG;XIAOPENG ZHAI;YUQI BAI~

2022/10573 ~ Complete ~54:METHOD AND APPARATUS FOR DETERMINING OPERATING STATE OF PHOTOVOLTAIC ARRAY, DEVICE AND STORAGE MEDIUM ~71:ENVISION DIGITAL INTERNATIONAL PTE. LTD., 1 Harbourfront Avenue, #17-01 Keppel Bay Tower, Singapore, 098632, Singapore;SHANGHAI ENVISION DIGITAL CO., LTD., No. 15, Lane 55, Chuanhe Road China (Shanghai), Pilot Free Trade Zone, Shanghai, People's Republic of China ~72: HUIRONG JIANG;JIE SUN;JING CHANG;JINLIN YANG;KANG JIAN;ZHOUSHENG LI~ 33:CN ~31:202010177188.2 ~32:13/03/2020

2022/10585 ~ Complete ~54:PARAPOXVIRUS FOR CONDITIONING FOR AND TREATMENT OF CORONAVIRUS INFECTIONS ~71: AiCuris GmbH & Co. KG, Friedrich-Ebert-Str. 475, WUPPERTAL 42117, GERMANY, Germany ~72: BIRKMANN, Alexander;LISCHKA, Peter;PAULSEN, Daniela;PFAFF, Tamara;ZIMMERMANN, Holger~ 33:EP ~31:20173670.9 ~32:08/05/2020

2022/10546 ~ Provisional ~54:COMMUNICATION METHODS AND SYSTEMS ~71:University of the Witwatersrand, Johannesburg, 1 Jan Smuts Avenue, Braamfontein, 2001, SOUTH AFRICA, South Africa ~72: FORBES, Andrew;SINGH, Keshaan~

2022/10551 ~ Complete ~54:A SUBSTITUTIONAL TEA WITH ALLERGY RELIEF AND IMMUNITY IMPROVEMENT AND THE PREPARATION METHOD THEREOF ~71:Tianjin Academy of Agricultural Sciences, No. 26 Hangtian Road, Nankai District, Tianjin, People's Republic of China ~72: Chen Long;Chen Xiaoming;Chen Ying;Cui Hanyuan;Ding Shu;Li Shufang;Song Zhaowei;Zhang Dongxing;Zhang Jun;Zhang Xiao;Zhang Yue;Zhang Zhijun~ 33:CN ~31:202111147112.6 ~32:29/09/2021

2022/10556 ~ Complete ~54:AN IMAGE ACQUISITION COMPONENT OF A MEDICAL IMAGING SYSTEM ~71:Xu Lianli, No. 22, Wenchang West Road, Higher Education Park, Yijiang District, Wuhu City, Anhui Province, People's Republic of China ~72: Xu Lianli~

2022/10564 ~ Complete ~54:PRIMER, PROBE,KIT FOR DETECTING RHODOCOCCLUS PYRIDINOVORANS AND DETECTION METHOD THEREOF (REAL-TIME PCR) ~71:Dalian Minzu University, No.18, Liaohe West Road, Jinpu New District, Dalian, Liaoning, 116600, People's Republic of China;Shenyang Customs Technology Center, No.106, Dongbinhe Road, Shenhe District, Shenyang,Liaoning, 110016, People's Republic of China ~72: Jijuan CAO;Jinling WANG;Qin WANG;Qiuyue ZHENG;Yi DING;Ying ZHANG~ 33:CN ~31:202210999643.6 ~32:19/08/2022

2022/10567 ~ Complete ~54:A SKY RAIL SLIDING TYPE CAR CHARGER ~71:Chongqing Cheyouzhuang Technology Co., Ltd., Room 211, 1-1 Headquarter Office Building, Chongqing Engineering Vocational and Technical College, No. 800, Nanbei Avenue, Shengquan Street, Jiangjin District, Chongqing City, 400060, People's Republic of China ~72: Jiguang Chen;Peng Liu;Yingxue Pan~

2022/10570 ~ Complete ~54:ALL-IN-ONE GRINDING MACHINE FOR ELECTRONICALLY CONTROLLED MACHINING ~71:Jingtian ZHANG, Room 2601, Unit 1, Building 3, Wanjia Plaza,, No. 8 Taibai Middle Road, Rencheng District,, Jining, Shandong, People's Republic of China ~72: Fang LIANG;Jing YUAN;Jingtian ZHANG;Zhe ZHANG~

2022/10578 ~ Complete ~54:LIQUID TREATMENT SYSTEM AND METHOD ~71:WALTER JACOB BAUER, 139 Louisa Street, Baden, Ontario, N3A 2T8, Canada ~72: WALTER JACOB BAUER~ 33:US ~31:63/018,880 ~32:01/05/2020

2022/10581 ~ Complete ~54:RECOMBINANT DIAPHORINA CITRI CHITINASE-LIKE PROTEIN EN03, AND CODING GENE AND APPLICATION THEREOF ~71:Gannan Normal University, No.1 Shiyuan South Road, Rongjiang New District Ganzhou, JIANGXI 341000, CHINA (P.R.C.), People's Republic of China ~72: HUANG, Aijun;LI, Ningyan;LU, Zhanjun;SU, Huanan;XIE, Yanxin;YI, Long;YU, Haizhong;YU, Xiudao;ZHONG, Balian~

2022/10587 ~ Complete ~54:HOT MELT EXTRUDED SOLID DISPERSIONS CONTAINING A BCL2 INHIBITOR ~71:Guangzhou Lupeng Pharmaceutical Company Ltd., Room 322, Building B, Shilian Science Park, No. 33 Science Avenue, Huangpu District, GUANGZHOU CITY 510670, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Yi~ 33:US ~31:62/980,700 ~32:24/02/2020;33:US ~31:63/053,565 ~32:17/07/2020

2022/10559 ~ Complete ~54:STERILE PREPARATION TESTING METHOD OF CASPOFUNGIN ACETATE FOR INJECTION ~71:Joincare Haibin Pharmaceutical Co., Ltd, No. 11, Jinhui Road, Kengzi Street, Pingshan District, Shenzhen City, Guangdong Province, 518122, People's Republic of China ~72: CHEN, Shikun;LAI, Canyue;LUO, Shiyuan;MAO, Xiaorong;XIN, Hai~

2022/10562 ~ Complete ~54:POWER TRANSMISSION TOWER WITH ANTI-WIND AND ANTI-SEISMIC FUNCTIONS ~71:JIANGSU OPEN UNIVERSITY, No. 399 Jiangdong North Road, Nanjing City, Jiangsu Province, 210036, People's Republic of China ~72: YANG, Bin~

2022/10569 ~ Complete ~54:A SPECIAL FERTILIZER FOR MAIZE CONTAINING MICROORGANISMS AND TRACE ELEMENTS ~71:NORTHEAST AGRICULTURAL UNIVERSITY, No. 600 Changjiang Road, Xiangfang District, Harbin City, People's Republic of China ~72: JIANG, Baiwen;JIANG, Jujuan;LI, Wei;LIU, Xuesheng;SHAO, Hui;TANG, Chaojiazi;WANG, Chunhong;WANG, Dianyao;YANG, Hui;ZHANG, Juan~

2022/10572 ~ Complete ~54:TOPICAL COMPOSITIONS DESIGNED TO MAINTAIN AND/OR RESTORE THE INTEGRITY OF THE MUCOSA AND DAMAGED EPIDERMIS ~71:RICERFARMA S.R.L., Via Egadi, 7, 20144, Milano, Italy ~72: ROBERTO CERINI~ 33:IT ~31:102020000004069 ~32:27/02/2020

2022/10575 ~ Complete ~54:CAP FOR CONTAINER ~71:THISCAP, INC., 286 Lake Drive, San Bruno, California, 94066, United States of America ~72: MICHAEL JOSEPH MAGUIRE~ 33:US ~31:16/834,916 ~32:30/03/2020

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

Application Number	Assignor	Assignee
2011/05472	GANYMED PHARMACEUTICALS GMBH	BIONTECH SA
2011/05472	JOHANNES GUTENBERG-UNIVERSITAT MAINZ	TRON-TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITATSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITAT

Application Number	Assignor	Assignee
		MAINZ GEMEINNUTZIGE GMBH
2021/00558	STICHTING RADBOUD UNIVERSITEIT	RADBOUD UNIVERSITAIR MEDISCH CENTRUM
2021/00558	RADBOUD UNIVERSITAIR MEDISCH CENTRUM	CARDIACBOOSTER BV
2016/08664	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/05234	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2012/08760	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2012/08034	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2013/01830	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2013/02430	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2021/07928	ZHUO'ERKANG (BEIJING) BIOTECHNOLOGY CO., LTD.	ZHU'AN (BEIJING) BIOTECHNOLOGY CO., LTD.
2021/10511	TAIYUAN UNIVERSITY OF TECHNOLOGY	ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
2015/04336	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2014/04723	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2014/01475	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2018/03877	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2006/04258	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2007/02378	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2020/05675	FOCHON PHARMACEUTICALS, LTD. and SHANGHAI FOCHON PHARMACEUTICAL CO., LTD.	FOCHON BIOSCIENCES, LTD.
2007/07975	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2008/04384	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2009/05202	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2017/04971	ITSI HOLDINGS (PTY) LTD.	OPTIMI CENTRAL SERVICES (PTY) LTD.
2009/07208	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2010/00214	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2010/01829	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2010/06482	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2011/06656	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2011/06981	E.I. DU PONT DE NEMOURS	CORTEVA AGRISCIENCE LLC

Application Number	Assignor	Assignee
	AND COMPANY	
2012/04867	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2017/03697	STANDARD CAR TRUCK COMPANY	TRANSPORTATION IP HOLDINGS, LLC
2020/01052	STANDARD CAR TRUCK COMPANY	TRANSPORTATION IP HOLDINGS, LLC
2020/03197	BEYNEVELDT, MICHAEL JOHANNES DIEZ	BRITS, CORNELIS JOHANNES
2008/10764	LOUISIN RESEARCH AND DEVELOPMENT LIMITED	I-TECH INDUSTRIES S.R.L.
2010/03135	HOYLE DAVID STANLEY	ROVIC AFRICA LIMITED (MAURITIUS)
2020/08029	MEGAW, DARREN CRAIG	METALTEK SOUTH AFRICA (PTY) LTD
2011/06729	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2009/08738	E.I. DU PONT DE NEMOURS AND COMPANY	CORTEVA AGRISCIENCE LLC
2021/10500	FOCHON PHARMACEUTICALS, LTD. and SHANGHAI FOCHON PHARMACEUTICAL CO., LTD.	FOCHON BIOSCIENCES, LTD.
2020/05440	FOCHON PHARMACEUTICALS, LTD. and SHANGHAI FOCHON PHARMACEUTICAL CO., LTD.	FOCHON BIOSCIENCES, LTD.
2021/02578	FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS	BIOPIX DNA TECHNOLOGY P.C.
2022/03553	LANGFANG NORMAL UNIVERSITY	LANGFANG HENGFUYUAN PHARMACEUTICAL CO., LTD.
2005/09358	ZEFTEK, INC.	STANDARD CAR TRUCK COMPANY
2018/06808	MIDGE MEDICAL GMBH	HOMEDICUS GMBH
2014/07992	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/07653	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/05098	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/05181	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2007/07778	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2007/08324	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2007/10661	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/00994	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/02191	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/02278	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/02280	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2021/02416	DANIMER BIOPLASTICS, INC.	MEREDIAN, INC.
2011/07139	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2012/01041	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2012/01043	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2012/01372	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2012/07041	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/01394	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/02336	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/02664	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2021/01369	DANIMER BIOPLASTICS, INC.	MEREDIAN, INC.
2020/04960	DAVID JOHN LOVE	FISHER & PAYKEL HEALTHCARE LIMITED

Application Number	Assignor	Assignee
2014/04392	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2021/08992	DAVID JOHN LOVE	FISHER & PAYKEL HEALTHCARE LIMITED
2013/05666	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/05315	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/05241	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/04557	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/05757	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/05877	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/05959	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2010/03258	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2011/04274	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2011/05620	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2011/05666	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2017/02037	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2016/07309	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2020/07648	HOLDER, ETIENNE	SOLAR SHEVA (PTY) LTD
2021/04582	STORAGE MANAGEMENT SYSTEMS (PTY) LTD	PATOU INVESTMENTS (PTY) LTD
2018/07818	WORLEY SERVICES PTY LIMITED	USA DEBUCK LLC
2016/08663	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2016/05695	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/02417	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/02420	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/02611	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/02612	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/03093	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/04053	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/08265	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/04251	CENTRAL UNIVERSITY OF TECHNOLOGY, FREE STATE	GYSBERTUS GUILLAUME KRIEL, BRIAN ITUMELENG NAKEDI
2008/06609	MERCK PATENT GMBH	CANCER RESEARCH TECHNOLOGY LIMITED
2015/01603	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2016/00252	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/07713	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/07598	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2016/01725	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2016/02174	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2016/03073	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2016/03372	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/00895	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/00758	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/00271	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/00194	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/09301	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/03703	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/03096	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/03095	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/02733	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/07229	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC

Application Number	Assignor	Assignee
2015/06504	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2010/01799	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/09391	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/09359	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/09156	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/09155	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/08913	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/08753	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/07499	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/07067	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/02389	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2007/07527	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2007/01160	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2007/00533	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/06386	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/06810	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/01548	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/03499	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/05036	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/05029	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/04483	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/09005	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/07065	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/07061	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/05202	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2008/05201	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2006/02945	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2006/02889	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2006/02112	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2005/02980	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/02816	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/02815	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/02449	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/02112	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/01606	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/08711	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/01605	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/05803	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2015/08639	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/06274	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/06314	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/06195	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/06156	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/06002	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/06001	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2013/05999	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/03269	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2014/00761	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2005/07468	MAKONA HARDWARE & INDUSTRIAL (PTY) LTD	BEARING MAN GROUP (PTY) LTD

Application Number	Assignor	Assignee
2019/04219	HARM KIEZEBRINK	BALLOONX S.A.R.L.
2013/07024	GENERAL ELECTRIC COMPANY	GE GLOBAL SOURCING LLC
2016/01566	CURTIN UNIVERSITY	MINING AND PROCESS SOLUTIONS PTY LTD
2020/05603	AGIOS PHARMACEUTICALS, INC.	SERVIER PHARMACEUTICALS LLC
2020/05603	SERVIER PHARMACEUTICALS LLC	LES LABORATOIRES SERVIER
2020/05603	LES LABORATOIRES SERVIER	AGIOS PHARMACEUTICALS, INC.
2020/07381	HELIOGEN, INC.	HELIOGEN HOLDINGS, INC.
2021/05064	MW MATRIX INC.	TARASOV, MARK
2011/09514	ANPAC BIO-MEDICAL SCIENCE (SHANGAI) CO., LTD.	CHANGWEI SYSTEM TECHNOLOGY (SHANGHAI) CO., LTD.
2013/03237	ANPAC BIO-MEDICAL SCIENCE (SHANGAI) CO., LTD.	CHANGWEI SYSTEM TECHNOLOGY (SHANGHAI) CO., LTD.
2013/02375	CHANG HE BIO-MEDICAL SCIENCE (YANGZHOU) CO LTD	CHANGWEI SYSTEM TECHNOLOGY (SHANGHAI) CO., LTD.
2013/00435	ANPAC BIO-MEDICAL SCIENCE (SHANGAI) CO., LTD.	CHANGWEI SYSTEM TECHNOLOGY (SHANGHAI) CO., LTD.
2015/04861	ANPAC BIO-MEDICAL SCIENCE (SHANGAI) CO., LTD.	CHANGWEI SYSTEM TECHNOLOGY (SHANGHAI) CO., LTD.
2007/05626	MAGNUS WESSEN and HAIPING CAO	RHEOMETAL HOLDING AB
2007/05626	RHEOMETAL HOLDING AB	COMPTECH RHEOCASTING I SKILLINGARYD AB
2007/05626	COMPTECH RHEOCASTING I SKILLINGARYD AB	BUHLER AG
2015/06489	WATER-JEL EUROPE LLP	SAFEGUARD MEDICAL HOLDCO, LLC
2015/0489	SAFEGUARD MEDICAL HOLDCO, LLC	RADIADERM LIMITED
2021/10501	SHANGHAI FOCHON PHARMACEUTICAL CO., LTD	FOCHON PHARMACEUTICALS, LTD.
2013/02815	GENERAL ELECTRIC TECHNOLOGY GMBH	ANDRITZ AKTIEBOLAG
2021/06743	GREEN CURRENT (PTY) LIMITED	I.P. BASICS HOLDING LIMITED.
2021/05739	K2014013441 (PTY) LTD T/A NM PROPERTIES	K2014013795 T/A HYDROPOWER SYSTEMS (PTY) LTD
2018/08238	SHANGHAI FOCHON PHARMACEUTICAL CO., LTD.	FOCHON PHARMACEUTICALS, LTD.
2019/00269	SHANGHAI FOCHON PHARMACEUTICAL CO., LTD.	FOCHON PHARMACEUTICALS, LTD.
2006/03232	TOSHIBA PLANT SYSTEMS & SERVICES CORPORATION	TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION
2007/11161	TOSHIBA PLANT SYSTEMS & SERVICES CORPORATION	TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION
2006/03232	TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION	KABUSHIKI KAISHA TOSHIBA
2006/02914	VAREL INTERNATIONAL IND., L.P.	SANDVIK MINING AND CONSTRUCTION TOOLS AB
2013/08824	ARCTOS MEDICAL AG	NOVARTIS AG
2021/08681	STORAGE MANAGEMENT	PATOU INVESTMENTS (PTY) LTD

Application Number	Assignor	Assignee
	SYSTEMS (PTY) LTD	
2007/01254	STORAGE MANAGEMENT SYSTEMS (PTY) LTD	PATOU INVESTMENTS (PTY) LTD
2014/07926	SONENDO, INC.	FLUIDFILE LTD.
2022/01544	INTERACTIVE AERIAL, INC.	NEXXIS TECHNOLOGY PTY LTD
2017/06791	CURTIN UNIVERSITY OF TECHNOLOGY	MINING AND PROCESS SOLUTIONS PTY LTD
2022/02527	ZHENGZHOU MACHINERY RESEARCH INSTITUTE CO., LTD	HENAN ZHONGNIU INDUSTRIAL CO., LTD.
2022/00709	SUQIAN UNIVERSITY	WUXI WENSHENG IMPORT AND EXPORT CO., LTD.
2012/06487	SPENCER DRAKE TRUST (IT8663/95)	BILIGOM INTERNATIONAL (PTY) LTD
2018/06417	IFIL.USA, LLC	DONALDSON COMPANY, INC.
2022/01244	BINZHOU UNIVERSITY	QINGDAO UNIVERSITY, BINZHOU UNIVERSITY, BINZHOU BOHAI PISTON CO., LTD.

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2017/04879	ONCOARENDI THERAPEUTICS S.A.	MOLECURE SPOLKA AKCYJNA
2014/04516	NYKODE THERAPEUTICS AS	NYKODE THERAPEUTICS ASA
2022/04542	ONCOARENDI THERAPEUTICS S.A.	MOLECURE SPOLKA AKCYJNA
2022/01899	ONCOARENDI THERAPEUTICS S.A.	MOLECURE SPOLKA AKCYJNA
2021/00558	STICHTING KATHOLIEKE UNIVERSITEIT	STICHTING RADBOUD UNIVERSITEIT
2012/05894	KLAUS DAHLEKE KG	KLAUS DAHLEKE KG & CO. KG
2018/07128	INFECTIOUS DISEASE RESEARCH INSTITUTE	ACCESS TO ADVANCED HEALTH INSTITUTE
2018/07497	INFECTIOUS DISEASE RESEARCH INSTITUTE	ACCESS TO ADVANCED HEALTH INSTITUTE
2019/08207	INFECTIOUS DISEASE RESEARCH INSTITUTE	ACCESS TO ADVANCED HEALTH INSTITUTE
2018/07107	INFECTIOUS DISEASE RESEARCH INSTITUTE	ACCESS TO ADVANCED HEALTH INSTITUTE
2020/01487	INFECTIOUS DISEASE RESEARCH INSTITUTE	ACCESS TO ADVANCED HEALTH INSTITUTE
2012/08908	HEINRICH-PETTE-INSTITUT, LEIBNIZ-INSTITUT FUR EXPERIMENTELLE VIROLOGIE	LEIBNIZ-INSTITUT FUR VIROLOGIE
2009/04561	HEINRICH-PETTE INSTITUT FUR EXPERIMENTELLE VIROLOGIE UND IMMUNOLOGIE AN DER UNIVERSITAT HAMBURG	HEINRICH-PETTE-INSTITUT, LEIBNIZ-INSTITUT FUR EXPERIMENTELLE VIROLOGIE

Application Number	In the name of	New name
2009/04561	HEINRICH-PETTE-INSTITUT, LEIBNIZ-INSTITUT FUR EXPERIMENTELLE VIROLOGIE	LEIBNIZ-INSTITUT FUR VIROLOGIE
2011/02724	WOODPLASTIC HOLDING A.S.	WOODPLASTIC GROUP A.S.
2009/01225	WOODPLASTIC HOLDING A.S.	WOODPLASTIC GROUP A.S.
2009/02052	WOODPLASTIC HOLDING A.S.	WOODPLASTIC GROUP A.S.
2016/08664	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/05234	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2011/01279	HANWHA SYSTEMS EUROPE, LTD.	HANWHA PHASOR LTD.
2014/07992	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/07653	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/05098	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/05181	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2007/07778	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2007/08324	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2007/10661	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/00994	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/02191	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/02278	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/02280	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2011/07139	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2012/01041	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2012/01043	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2012/01372	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2012/07041	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/01394	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/02336	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/02664	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/04392	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/05666	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/05315	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/05241	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/04557	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/05757	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/05877	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/05959	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2010/03258	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2011/04274	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2011/05620	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2011/05666	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/04980	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2017/02037	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2016/07309	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2018/07818	WORLEYPARSON SERVICES PTY LIMITED	WORLEY SERVICES PTY LIMITED
2016/08663	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2016/05695	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/02417	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/02420	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/02611	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC

Application Number	In the name of	New name
2008/02612	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/03093	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/04053	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/08265	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/01603	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2016/00252	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/07713	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/07598	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2016/01725	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2016/02174	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2016/03073	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2016/03372	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/00895	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/00758	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/00271	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/00194	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/09301	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
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2013/03095	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/02733	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/07229	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/06504	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2010/01799	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/09391	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/09359	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/09156	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
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2008/08913	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
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2013/06810	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/01548	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/03499	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/05036	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/05029	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/04483	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/09005	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/07065	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/07061	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/05202	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2008/05201	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2006/02945	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2006/02889	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC

Application Number	In the name of	New name
2006/02112	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2005/02980	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/02816	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/02815	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/02449	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/02112	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/01606	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/08711	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/01605	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/05803	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2015/08639	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/06274	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/06314	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/06195	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/06156	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/06002	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/06001	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/05999	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/03269	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2014/00761	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2013/07024	GE GLOBAL SOURCING LLC	TRANSPORTATION IP HOLDINGS, LLC
2019/03805	APROGEN MEDICINES INC.	APROGEN INC.
2018/02618	APROGEN MEDICINES INC.	APROGEN INC.
2018/04826	DALTRON FORGE (PTY) LTD	DALTRONX (PTY) LTD
2018/04825	DALTRON FORGE (PTY) LTD	DALTRONX (PTY) LTD
2019/02043	DALTRON FORGE (PTY) LTD	DALTRONX (PTY) LTD
2018/06556	DALTRON FORGE (PTY) LTD	DALTRONX (PTY) LTD
2021/05700	TRACK STRAIGHT PTY LTD	INNOVATIVE MINING SERVICES (AUST) PTY LTD
2009/01306	JOY GLOBAL CONVEYORS INC	CONTINENTAL GLOBAL MATERIAL HANDLING INC
2018/05400	JOY GLOBAL CONVEYORS INC	CONTINENTAL GLOBAL MATERIAL HANDLING INC
2007/05282	DALTRON FORGE (PTY) LTD	DALTRONX (PTY) LTD
2021/06473	SUMITOMO DAINIPPON PHARMA CO., LTD.	SUMITOMO PHARMA CO., LTD.
2021/04157	SUMITOMO DAINIPPON PHARMA CO., LTD.	SUMITOMO PHARMA CO., LTD.
2021/01173	SUMITOMO DAINIPPON PHARMA CO., LTD.	SUMITOMO PHARMA CO., LTD.
2012/09103	LABORATORIOS DEL DR. ESTEVE, S.A.	ESTEVE PHARMACEUTICALS, S.A.
2016/01566	CURTIN UNIVERSITY OF TECHNOLOGY	CURTIN UNIVERSITY
2012/00278	CHR. HANSEN NATURAL COLORS A/S	OTERRA A/S
2017/08039	LABORATORIOS DEL DR. ESTEVE, S.A.	ESTEVE PHARMACEUTICALS, S.A.

PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63

No records available

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date
2022/03454	WITHDRAWN	01/07/2022

APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

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

Notice is hereby given to **Stephen PIKUS OF ADAMS & ADAMS. LYNWOOD MANOR, PRETORIA** that made application for the restoration of the patent granted to said **Stephen PIKUS** an invention **AIR FILTERLIGHT ARRANGEMENT** numbered **2016/00851** dated **08/02/2016** which became void **08/02/2022** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **SUPERIOR QUALITY PRODUCTS CC OF DM KISCH INC, SANDTON, JOHANNESBURG** that made application for the restoration of the patent granted to said **SUPERIOR QUALITY PRODUCTS CC** an invention **COATING COMPOSITION** numbered **2014/04640** dated **24/06/2014** which became void **24/06/2018** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **RYAN ZALMON PICKFORD and CARL REINHARD ESSAFRAU OF DEON DE BEER & ASSOCIATES INC, JOHANNESBURG** that made application for the restoration of the patent granted to said **RYAN ZALMON PICKFORD and CARL REINHARD ESSAFRAU** an invention **METHOD OF FACILITATING EMPLOYMENT** numbered **2004/07527** dated **20/09/2004** which became void **20/09/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **GROBBELAAR, HERMANS GERHARDUS OF DM KISCH INC, PRETORIA** that made application for the restoration of the patent granted to said **GROBBELAAR, HERMANS GERHARDUS** an invention **SOLDER DISPLACEMENT APPARATUS** numbered **2014/04321** dated **11/06/2014** which became void **11/06/2021** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **STEYN, Fritz OF HAHN & HAHN, PRETORIA** that made application for the restoration of the patent granted to said **STEYN, Fritz** an invention A **TROLLEY CONTAINER** numbered **2008/07535** dated **02/09/2008** which became void **02/09/2011** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

No records available

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: DS SMITH PACKAGING FRANCE Tour Initiale, 1 Terrasse Bellini 92800 Puteaux. Request permission to amend the specification of letters patent no: **2017/08220** of **04/12/2017** for **BOX AND BLANK MADE FROM CARDBOARD SHEET WITH CONVEX CENTRING DEVICES.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office .

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION 1001 Air Brake Avenue Wilmerding, PA 15148. Request permission to amend the specification of letters patent no: **2018/02186** of **04/04/2018** for **HERMAPHRODITIC SEALED POWER CONNECTOR FOR RAIL APPLICATIONS.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: THE UNIVERSITY OF LEEDS Woodhouse Lane, Leeds LS2 9JT. Request permission to amend the specification of letters patent no: **2005/09579** of **28/11/2005** for **EXTRACTION PROCESS FOR REACTIVE METAL OXIDES.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Registrar of Patents

Applicant: UNIVERSITY OF CAPE TOWN Lovers Walk 7700 Rondebosch., UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC. Health Science Centre, Room 321 University of Louisville KY 40292 Louisville. Request permission to amend the specification of letters patent no: **2017/01450** of **27/02/2017** for **SMALL MOLECULE INHIBITORS FOR CANCER THERAPY.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office .

Registrar of Patents

Applicant: Seal Chemistry (Pty) Ltd 10 Darby Place, Mariann Industrial Park 3610 Pinetown. Request permission to amend the specification of letters patent no: **2019/01206** of **26/02/2019** for **TOBACCO PRODUCTS INNER BUNDLING WRAPPING MATERIAL TO REPLACE METALLISED PAPER AND PAPER/METALLIC FOIL LAMINATES.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office .

Registrar of Patents

INSPECTION OF SPECIFICATIONS

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4, 00**. Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

COPIES OF DOCUMENTS

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: **R1, 00 per page**

(Payment to be affected by means of revenue stamps only.)

COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(DA)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)** Title of invention. **(00)** Number of sheets.

Registrar of Patents

21: 2010/01560. 22: 2010/03/04. 43: 2022/08/25

51: E01B

71: HERMANN DAN, BENJAMIN EYAL

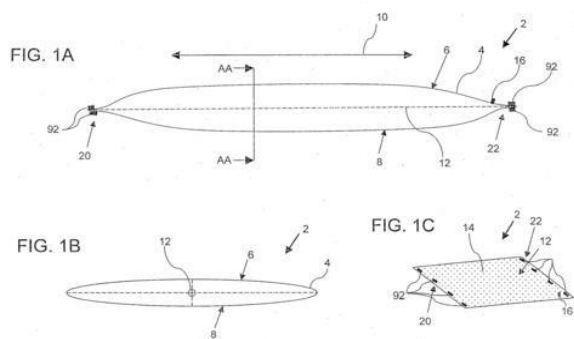
72: HERMANN DAN, BENJAMIN EYAL

33: US 31: 11/834.000 32: 2007-08-05

54: INFLATABLE AUTOMOTIVE TRACTION RECOVERY DEVICE

00: -

Disclosed is an inflatable cushion configured with a substantially flattened tubular shape such that in an inflated state the inflatable cushion is highly adaptable so as to readily conform to the terrain of the underlying surface on which it is deployed and to the footprint of the vehicle tire as the vehicle is driven across the device. During typical use the cushion is not fully inflated and operational inflation pressure is generally less than 10PSI and preferably 5PSI. For use the cushion is deployed such that the central axis of the tube is substantially parallel to the driving direction of the vehicle. The inflatable automotive traction recovery tool of the present invention simultaneously lifts the vehicle and provides a driving surface with sufficient pressure against the tire and underlying surface to allow the vehicle to drive on it.



21: 2013/09412. 22: 2013/12/12. 43: 2022/06/29

51: B01D; B01J; C01F; C01G

71: Rhodia Operations

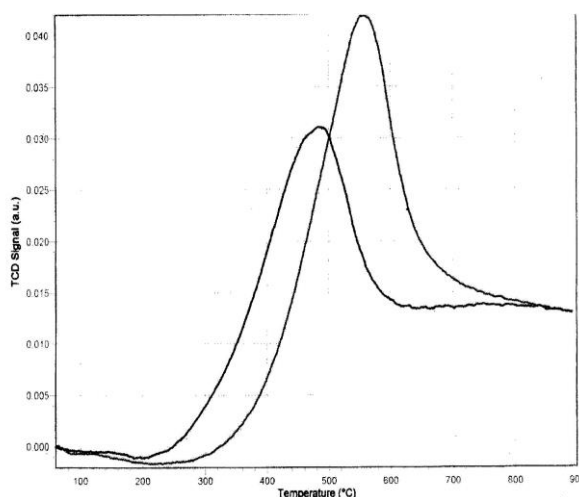
72: IFRAH, Simon, ROHART, Emmanuel, HERNANDEZ, Julien, HORBEZ, Dominique, ITANI, Lama

33: FR 31: 1101867 32: 2011-06-17

54: COMPOSITION BASED ON OXIDES OF CERIUM, OF ZIRCONIUM AND OF ANOTHER RARE EARTH METAL WITH HIGH REDUCIBILITY, PREPARATION PROCESS AND USE IN THE FIELD OF CATALYSIS

00: -

The composition of the invention is based on oxides of cerium, of zirconium and of at least one rare earth metal other than cerium, with a cerium oxide content of greater than 50% by weight and it has, after calcination at 1000°C for 4 hours, a specific surface area of at least 20 m²/g and an amount of mobile oxygen between 200°C and 400°C of at least 0.8 ml O₂/g. It is prepared by a process in which, in a reactor, a mixture of compounds of cerium, of zirconium and of the other rare earth metal is reacted continuously with a basic compound with a residence time of the reaction medium in the mixing zone of the reactor of at most 100 milliseconds; the precipitate is heated then brought into contact with a surfactant before being calcined.



21: 2014/08651. 22: 2014/11/25. 43: 2022/07/14

51: A61K

71: GENENTECH, INC.

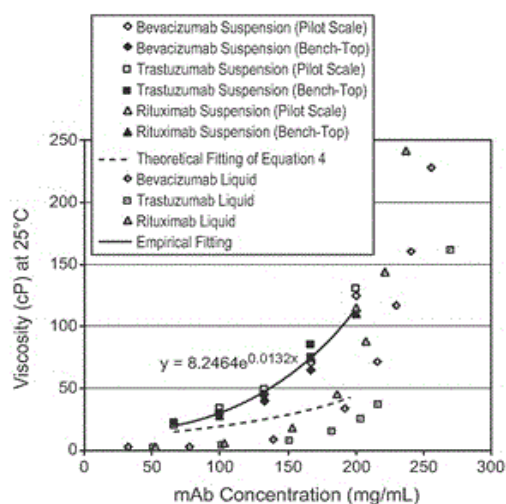
72: ARMSTRONG, NICHOLAS J, BOWEN, MAYUMI N, MAA, YUH-FUN

33: US 31: 61/649,146 32: 2012-05-18

54: HIGH-CONCENTRATION MONOCLONAL ANTIBODY FORMULATIONS

00: -

The present application discloses high-concentration monoclonal antibody formulations suitable for subcutaneous administration, e.g. via a pre-filled syringe. In particular, it discloses a formulation comprising a spray dried monoclonal antibody at a concentration of about 200 mg/mL or more suspended in a non-aqueous suspension vehicle where the viscosity of the suspension vehicle is less than about 20 centipoise. Also disclosed are: a subcutaneous administration device with the formulation therein, a method of making the formulation, a method of making an article of manufacture comprising the suspension formulation, use of the formulation in the preparation of a medicament, and a method of treating a patient with the formulation.



21: 2015/00324. 22: 2015/01/16. 43: 2022/07/25

51: E01C; E02D; E03F; E04D

71: PERMAVOID LIMITED

72: VAN RAAM, CAROLUS HERMANUS, SHUTTLEWORTH, ANDREW BRYAN, CULLETON, PAUL DAVID

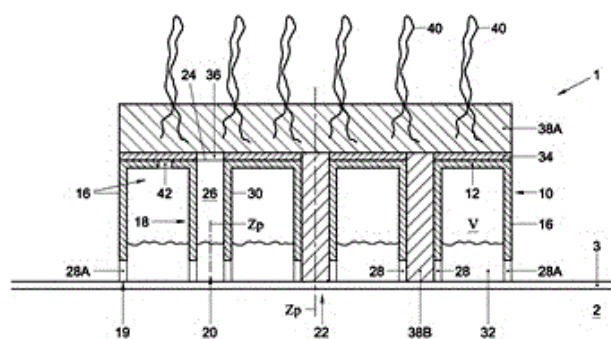
33: NL 31: PCT/NL2012/050476 32: 2012-07-05

54: PLANTSURFACE STRUCTURE AND MODULES AND METHOD FOR FORMING THE SAME

00: -

Plantsurface structure, comprising one of an array of plastic base elements, each base element having a

deck carried by a series of pillar elements, wherein the deck is provided with at least a number of the pillar elements have an open top end in said deck, wherein at least a membrane is placed over said deck and is provided with slits or cut-outs or water permeable elements, such that they open into at least some of the open top ends of pillars, wherein a growing medium is provided on the membrane and a growing medium is provided in said pillars, the growing medium in said pillars preferably being in fluid contact with the growing medium on said membrane.



21: 2015/02299. 22: 2015/04/07. 43: 2022/07/07

51: B60W; E21F; F16P; G08C; G08G; H04B

71: Newtrax Holdings Inc.

72: CROTEAU, Serge, BUIST, Alexandre, CERVINKA, Alexandre

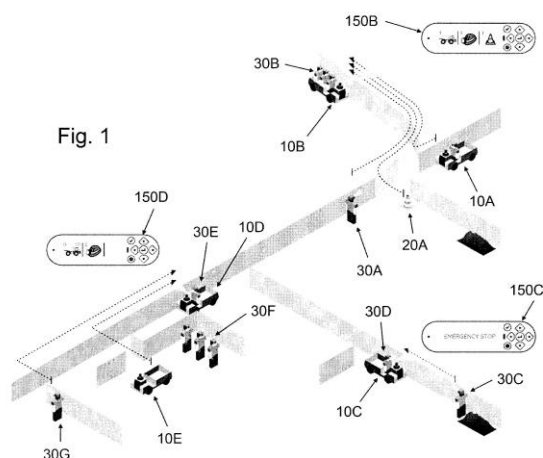
33: US 31: 61/713,019 32: 2012-10-12

54: CONTEXT-AWARE COLLISION AVOIDANCE DEVICES AND COLLISION AVOIDANCE SYSTEM COMPRISING THE SAME

00: -

Personnel and vehicle collision avoidance devices configured to be used in collision avoidance systems are disclosed. The collision avoidance devices are configured to be aware of the context (e.g. position, location, state, status, etc.) in which the person or vehicle is. This awareness allows the devices to avoid transmitting non-hazardous proximity warnings when the context does not warrant the transmission of proximity warnings, and to transmit special critical proximity warnings when the context warrants the transmission of such proximity warnings. To detect the context, the devices comprise one or more context-awareness mechanisms (e.g. user input interfaces, sensors, infra-red receivers, etc.), each of which being capable of detecting one or more

particular contexts. A collision avoidance system comprising these personnel and vehicle collision avoidance devices is also presented.



21: 2015/03454. 22: 2015/05/18. 43: 2022/07/11
51: A01N

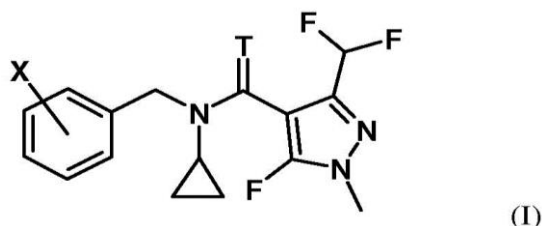
71: Bayer CropScience AG

72: CRISTAU, Pierre, DAHMEN, Peter, KRIEG, Ulrich, LAPPARTIENT, Anne, TOQUIN, Valérie, VILLALBA, François, WETCHOWSKY, Ingo
33: EP(DE) 31: 12356024.5 32: 2012-10-19

54: METHOD OF PLANT GROWTH PROMOTION USING CARBOXAMIDE DERIVATIVES

00: -

The present invention relates to a new method of plant treatment that is able to induce positive growth regulating responses by applying a non-phytotoxic, effective plant growth promoting amount of a compound having the formula (I).



21: 2015/03741. 22: 2015/05/26. 43: 2022/07/14
51: A01N

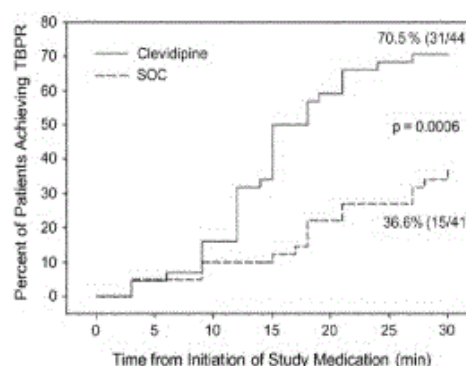
71: CHIESI FARMACEUTICI S.P.A.

72: SPINDLER, EDWARD C. JR, ITRI, LORETTA M, WILLIAMS, GREGORY CHARLES, HU, MING-YI
33: US 31: 61/719,127 32: 2012-10-26

54: METHODS FOR CONTROLLING BLOOD PRESSURE AND REDUCING DYSPNEA IN HEART FAILURE

00: -

Methods for controlling, maintaining, or reducing blood pressure, and/or for treating, preventing, or alleviating symptoms such as dyspnea, in a patient suffering from or susceptible to acute heart failure. The methods involve the administration of an effective amount of a pharmaceutical composition comprising a short acting dihydropyridine compound such as clevidipine. The pharmaceutical composition may be administered at an initial dose, and if blood pressure is not controlled or maintained within a target blood pressure range or reduced to within a target blood pressure range, the initial dose may be titrated to achieve a blood pressure within the target blood pressure range. The patient may have a systolic blood pressure of about 120 mmHg or above.



21: 2015/04201. 22: 2015/06/10. 43: 2022/08/25
51: B22F

71: SMITH INTERNATIONAL INC.

72: LIU, Qingyuan

33: US 31: 61/737,713 32: 2012-12-14

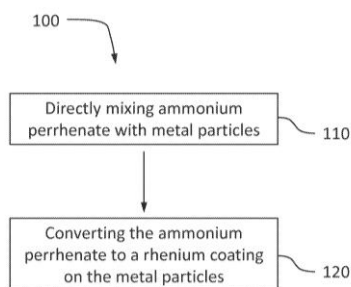
33: US 31: 14/102,426 32: 2013-12-10

54: METHOD OF MAKING RHENIUM COATING

00: -

A method of forming rhenium coated metal particles, the method including directly mixing ammonium perrhenate with metal particles and converting the ammonium perrhenate to a rhenium coating on the metal particles, is disclosed. Methods of forming rhenium coated cubic boron nitride particles and rhenium coated diamond particles are also disclosed. Methods of manufacturing components of tools using the rhenium coated metal particles, the rhenium coated cubic boron nitride particles and/or

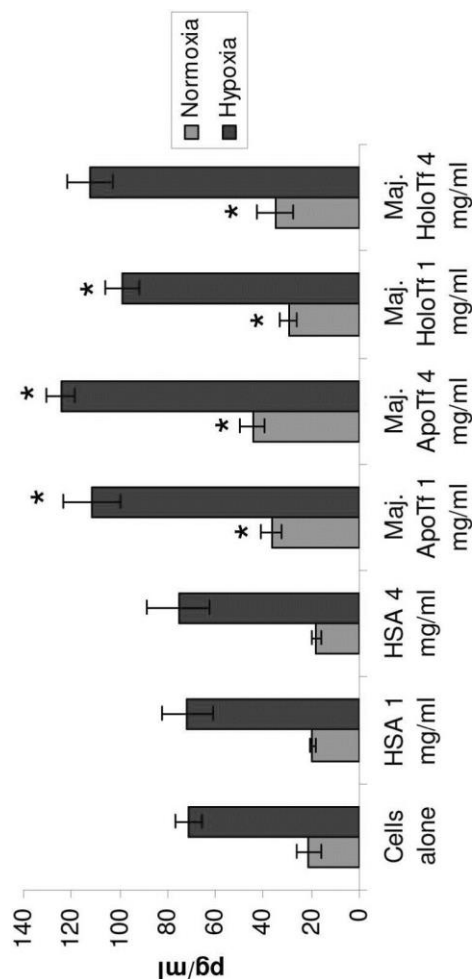
rhenium coated diamond particles are also disclosed.



21: 2015/04705. 22: 2015/06/30. 43: 2022/08/11
 51: A61K; C07K
 71: GRIFOLS WORLDWIDE OPERATIONS LIMITED
 72: ROSS, David A., CRUMRINE, Ralph Christian
 33: US 31: 62/023446 32: 2014-07-11
54: COMPOSITIONS FOR USE IN TREATING HYPOXIA INDUCIBLE FACTOR (HIF)- RELATED CONDITIONS

00: -

The present invention relates to compositions for use in methods of treatment of Hypoxia Inducible Factor (HIF)-related conditions, and in particular to compositions comprising transferrins.



21: 2015/05200. 22: 2015/07/20. 43: 2022/07/11
 51: C07D

71: Portola Pharmaceuticals, Inc.

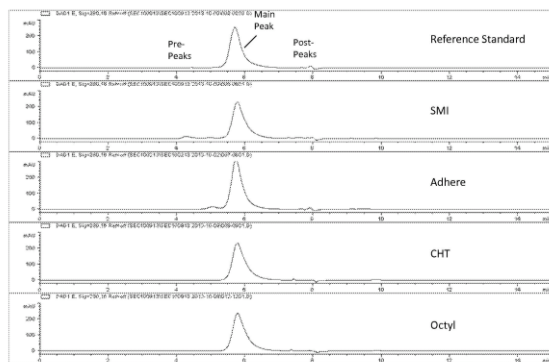
72: PANDEY, Anjali, ROSE, Jack W.

33: US 31: 61/746,544 32: 2012-12-27

54: COMPOUNDS AND METHODS FOR PURIFICATION OF SERINE PROTEASES

00: -

Disclosed herein are compounds, compositions, methods and kits for purifying a protease and serine proteases purified with the compounds, compositions and methods.



21: 2015/05417. 22: 2015/07/28. 43: 2022/07/11

51: A61K; A61P; C07D

71: Eli Lilly and Company

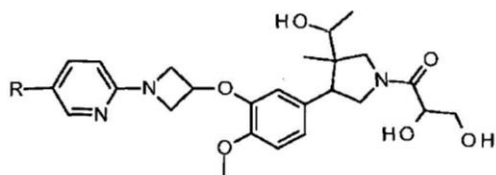
72: DENG, Gary G., HUANG, Danwen, ODINGO, Joshua O.

33: US 31: 61/778,546 32: 2013-03-13

54: AZETIDINYLPHENYLPYRROLIDINE COMPOUNDS

00: -

The invention provides certain azetidinyloxyphenylpyrrolidine compounds, particularly compounds of formula I wherein R is hydrogen or methyl, and pharmaceutical compositions thereof. The invention further provides methods of using a compound of formula I to treat overactive bladder.



21: 2015/06746. 22: 2015/09/11. 43: 2022/07/11

51: C07K

71: Amgen Inc.

72: SUN, Jeonghoon, O'NEILL, Jason Charles, KETCHUM, Randal R., HECHT, Randy Ira, BELOUSKI, Edward J., MICHAELS, Mark Leo

33: US 31: 61/782,613 32: 2013-03-14

54: VARIANTS OF TISSUE INHIBITOR OF METALLOPROTEINASE TYPE THREE (TIMP-3), COMPOSITIONS AND METHODS

00: -

There are disclosed TIMP-3 mutants, variants and derivatives, nucleic acids encoding them, and methods of making and using them.

21: 2015/06780. 22: 2015/09/14. 43: 2022/07/07

51: A01C

71: Bayer CropScience Inc., Ag Growth International Inc.

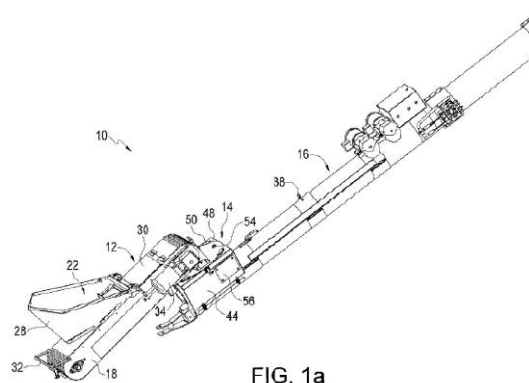
72: BARDI, Danick Joseph, REEKIE, Robert, STRYDHORST, Timonhy, MANN, Dalton Craig

33: US 31: 61/765,209 32: 2013-02-15

54: ROTATABLE APPARATUS FOR METERING AND TREATING AGRICULTURAL GRANULES

00: -

An agricultural apparatus for metering and treating granules such as seeds and granular crop additives. The apparatus comprises a metering device rotatably mounted on a spray chamber, the spray chamber connected to a conveyance device intake such as an auger. The metering device is rotatable between first (use) and second (transport) positions.



21: 2015/06908. 22: 2015/09/17. 43: 2022/07/11

51: F04D

71: WHW Group, Inc.

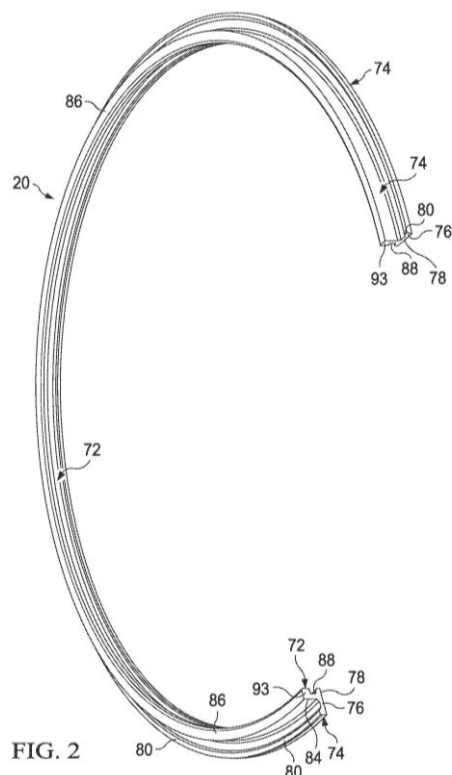
72: KOSMICKI, Randy J., VIKEN, Michael L.

33: US 31: 61/799,048 32: 2013-03-15

54: SEAL FOR A CENTRIFUGAL PUMP

00: -

A seal for use in a centrifugal pump, the pump having a stationary pump casing, a stationary plate and an axially adjustable side liner, is disclosed. The seal includes a base having an inner surface and an outer surface. A band portion extends from the base and a retainer member extends from the band portion. The retainer member is spaced apart from the base and oriented for positioning against a groove formed in the axially adjustable side plate liner of the centrifugal pump.

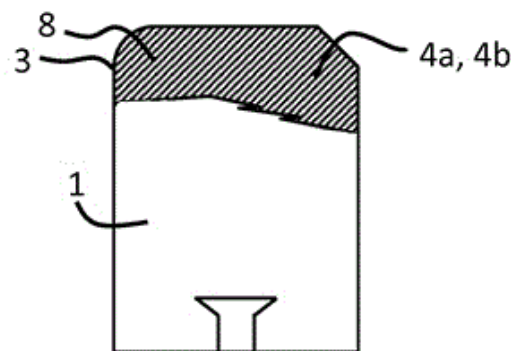


21: 2015/07764. 22: 2015/10/16. 43: 2022/07/14
51: B02C
71: OUTOTEC (FINLAND) OY
72: LAUERMAA, KARI
33: FI 31: 20135365 32: 2013-04-15

54: A METHOD OF MAKING A LIFTER BAR, A REFURBISHED LIFTER BAR AND A MOULD

00: -

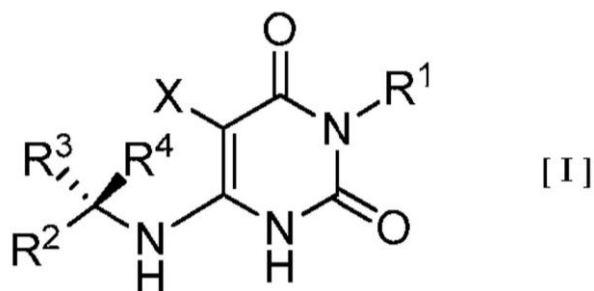
The invention relates to a method of making a lifter bar (1a, 1c) for use in a grinding mill (2), to a refurbished lifter bar (1b) and to a mould (3) for producing the refurbished lifter bar (1c). The lifter bar (1a, 1c) has a predetermined form and comprises a base member. The method comprises the steps of providing a mould (3) having an interior space (4a) that conforms at least partially to the predetermined form; joining the mould (3) and the base member together to form a cavity (4b) defined by the base member and the interior space (4a); and filling the cavity (4b) with polymer and allowing the polymer to attach to the base member to construct a lifter bar (1a) having the predetermined form.



21: 2015/08959. 22: 2015/12/08. 43: 2022/07/07
51: A61K; C07D; A61P
71: MYOKARDIA, INC.
72: OSLOB, JOHAN, ANDERSON, ROBERT, AUBELE, DANIELLE, EVANCHIK, MARC, FOX, JONATHAN CHARLES, KANE, BRIAN, LU, PUPING, MCDOWELL, ROBERT, RODRIGUEZ, HECTOR, SONG, YONGHONG, SRAN, ARVINDER
54: PYRIMIDINEDIONE COMPOUNDS AGAINST CARDIAC CONDITIONS

00: -

Provided are novel pyrimidine dione compounds and pharmaceutically acceptable salts thereof, that are useful for the treatment of hypertrophic cardiomyopathy (HCM) and conditions associated with left ventricular hypertrophy or diastolic dysfunction. The synthesis and characterization of the compounds and pharmaceutically acceptable salts thereof, are described, as well as methods for treating HCM and other forms of heart disease.



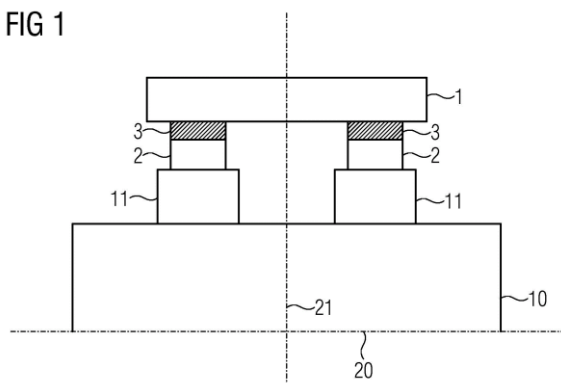
21: 2016/00826. 22: 2016/02/05. 43: 2022/07/11
51: H01R
71: Siemens Aktiengesellschaft
72: HARTMANN, Ulrich, RAKOWICZ, Marian, SCHILLER, Christian, SCHWENGBER, Robert
33: EP(DE) 31: 13179607.0 32: 2013-08-07

54: APPARATUS FOR TRANSMITTING AN ELECTRIC CURRENT TO A ROTATABLY MOUNTED ROTATION BODY

00: -

The invention relates to an apparatus for transmitting an electric current to a rotatably mounted rotation body (10) which comprises at least two slip rings (11), having a contact piece support (1) and at least two contact pieces (2), wherein the contact piece support (1) is mechanically connected to the respective contact piece (2), wherein the respective contact piece (2) can be arranged in such a way that, when it is installed in an electrical machine with the rotatably mounted rotation body (14), the respective contact piece (2) is in contact with the respective slip ring (11). The invention further relates to an electrical machine having an apparatus of this kind and a rotation body (10) of this kind. In order to develop the apparatus to the effect that at least two electrical phases can be transmitted to the rotation body (10) with a high degree of reliability, it is proposed that an electrically insulating layer (3) is arranged between the contact piece support (1) and the respective contact piece (2).

FIG 1



21: 2016/01085. 22: 2016/02/17. 43: 2022/07/11

51: A61K; C07K

71: Université Catholique De Louvain, Ludwig Institute for Cancer Research Ltd., argenx BVBA

72: LUCAS, Sophie, COULIE, Pierre, CUENDE VILLASUR, Julia, DUMOUTIER, Laure, RENAULD, Jean-Christophe, VAN DER WONING, Sebastian, SAUNDERS, Michael, DE HAARD, Hans, DE BOECK, Gitte

33: US 31: 61/861,008 32: 2013-08-01

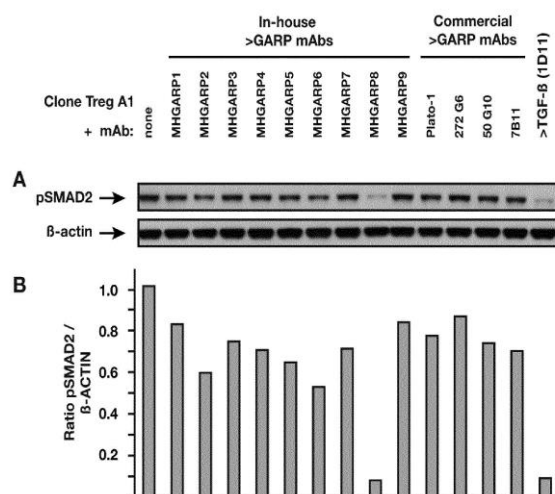
33: EP(BE) 31: 13178958.8 32: 2013-08-01

54: ANTI-GARP PROTEIN AND USES THEREOF

00: -

The present invention relates to an antibody binding to the transmembrane protein 'glycoprotein A

repetitions predominant' (GARP) in the presence of TGF- β and uses thereof.



21: 2016/01840. 22: 2016/03/16. 43: 2022/07/11

51: A61K

71: Zoetis Services LLC

72: DOMINOWSKI, Paul Joseph, WILMES, Lauren, FOSS, Dennis L., MOHR, Kaori, GALLO, Guillermo, HARDHAM, John Morgan, KREBS, Richard Lee, LIGHTLE, Sandra Ann Marie, MAHAN, Suman, MEDIRATTA, Sangita, MWANGI, Duncan, RAI, Sharath K., SALMON, Sarah A., VORA, Shaunak

33: US 31: 61/879,959 32: 2013-09-19

54: OIL-BASED ADJUVANTS

00: -

The instant invention provides various formulations comprising combinations of immunostimulating oligonucleotides, polycationic carriers, sterols, saponins, quaternary amines, TLR-3 agonists, glycolipids, and MPL-A or analogs thereof in oil emulsions, use thereof in preparations of immunogenic compositions and vaccines, and use thereof in the treatment of animals.

21: 2016/02639. 22: 2016/04/18. 43: 2022/07/14

51: A61K; A61P

71: UNIVERSITY OF PRETORIA

72: TWILLEY, DANIELLE, LALL, NAMRITA

33: ZA 31: 2013/07414 32: 2013-10-03

54: EXTRACTS AND COMPOSITIONS OF HELICHRYSUM ODORATISSIMUM FOR PREVENTING AND TREATING SKIN CANCERS

00: -

The present invention relates to extracts from Helichrysum odoratissimum for use in the prevention

of and treatment of skin cancer. The invention also provides for pharmaceutical compositions containing the extract and to the use of medicaments containing the extract.

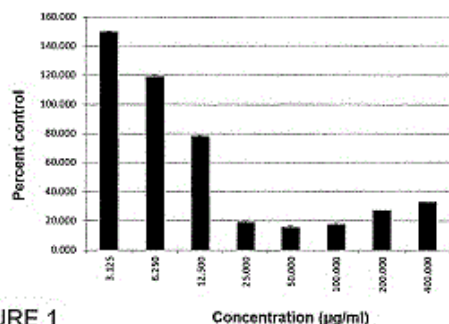
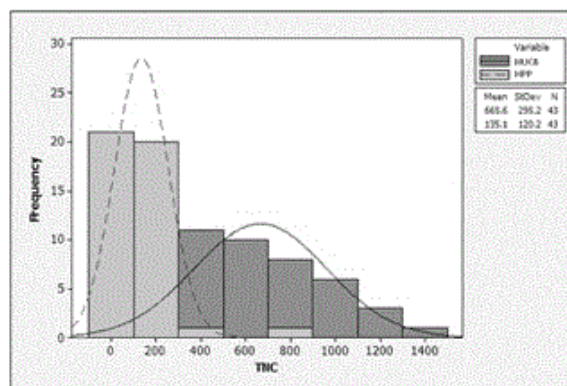


FIGURE 1

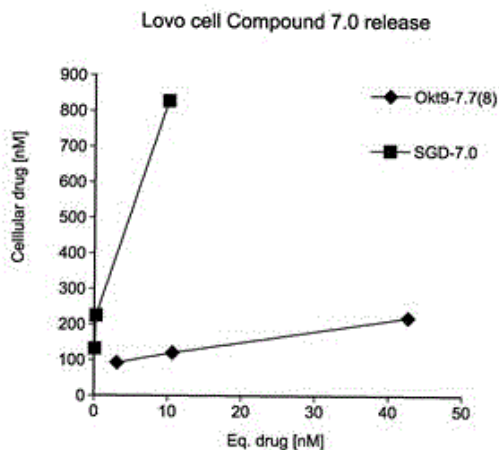
21: 2016/03270. 22: 2016/05/13. 43: 2022/07/14
 51: A61K; A01N
 71: CELULARITY, INC.
 72: GURNEY, JODI P, ZHANG, XIAOKUI, HERB, STACY, HARIRI, ROBERT J
 33: US 31: 61/905,076 32: 2013-11-15
 33: US 31: 61/905,077 32: 2013-11-15
54: COMPOSITIONS COMPRISING HUMAN PLACENTAL PERFUSATE CELLS, SUBPOPULATIONS THEREOF, AND THEIR USES
 00: -
 Provided herein are compositions comprising mononuclear cells from human placental perfusate and methods of using such cells, including using the cells together with hematopoietic cells, for example to establish chimerism, reduce the severity or duration of graft versus host disease, treat or ameliorate symptoms of sarcopenia, metabolic disorders and hematologic disorders, such as hematologic malignancies, and treat or ameliorate symptoms of ischemic encephalopathy (e.g., hypoxic ischemic encephalopathy) and other central nervous system injuries.



21: 2016/03747. 22: 2016/06/02. 43: 2022/07/11
 51: A61K; A61P
 71: Norgine BV
 72: CLAYTON, Lucy, COCKETT, Alasdair, CHRISTODOULOU, Mark, DAVIDSON, Ian, FARRAG, Lynn, HALPHEN, Marc, JONES, Leighton, PETROSSIAN, Vanik, STEIN, Peter, TISI, David, UNGAR, Alex, WORTHINGTON, Jeffrey
 33: US 31: 61/699,488 32: 2012-09-11
54: COMPOSITIONS COMPRISING PEG AND ASCORBATE
 00: -
 The invention provides a colon cleansing solution comprising: a) 300 to 800 mmol per litre ascorbate anion provided by a mixture of: (i) ascorbic acid and (ii) one or more salts of ascorbic acid the components (i) and (ii) being present in a molar ratio of from 1:4.5 to 1:7.0; and b) 10 to 200 g per litre polyethylene glycol. The invention also provides methods and kits associated with, or making use of the solutions, and compositions for the preparation of the solutions.

21: 2016/04564. 22: 2016/07/05. 43: 2022/07/14
 51: A61K
 71: SEAGEN INC.
 72: KOLAKOWSKI, ROBERT, JEFFREY, SCOTT, BURKE, PATRICK
 33: US 31: 61/918,539 32: 2013-12-19
 33: TW 31: 103144705 32: 2014-12-19
54: METHYLENE CARBAMATE LINKERS FOR USE WITH TARGETED-DRUG CONJUGATES
 00: -
 The present invention provides Ligand-Drug Conjugates and Drug-Linker Compounds comprising a methylene carbamate unit. The invention provides inter alia, Ligand-Drug Conjugates, wherein the Ligand-Drug Conjugate is comprised of a Self-

immolative Assembly Unit having a methylene carbamate unit for conjugation of a drug to a targeting ligand, methods of preparing and using them, and intermediates thereof. The Ligand-Drug Conjugates of the present invention are stable in circulation, yet capable of inflicting cell death once free drug is released from a Conjugate in the vicinity or within tumor cells.

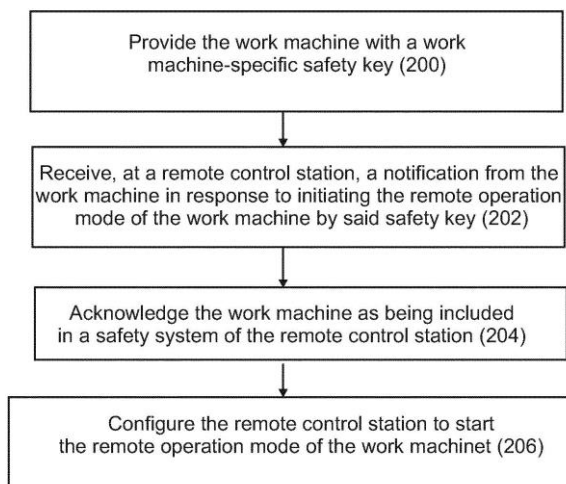


21: 2016/04593. 22: 2016/07/06. 43: 2022/07/11
 51: E21B; G05D
 71: Sandvik Mining and Construction Oy
 72: HANSKI, Sami, NURMINEN, Petri, UOTILA, Jarkko, CUMINI, Lauso, MANNONEN, Petri, SIREN, Arto

54: ARRANGEMENT FOR INITIATING A REMOTE OPERATION MODE

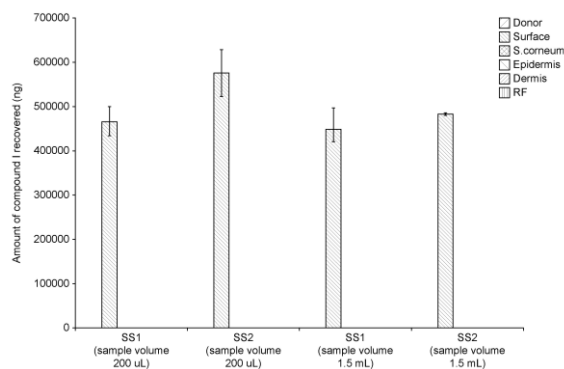
00: -

A method for initiating a remote operation mode of a work machine, the method comprising: providing the work machine with a work machine-specific safety key; receiving, at a remote control station, a notification from the work machine in response to initiating the remote operation mode of the work machine by said safety key; acknowledging the work machine as being included in a safety system of the remote control station; and configuring the remote control station to start the remote operation mode of the work machine.



21: 2016/05263. 22: 2016/07/29. 43: 2022/08/08
 51: A61K; A61P
 71: ZIARCO PHARMA LIMITED
 72: LIU, Wai Leung, PURKINS, Lynn, YEADON, Michael
 33: GB 31: 1401904.6 32: 2014-02-04
54: PHARMACEUTICAL COMPOSITION FOR TOPICAL ADMINISTRATION
 00: -

The present invention relates to a pharmaceutical composition for topical administration comprising a compound of formula I, 3-{4-[2-{5-chloro-1-(diphenylmethyl)-2-[[2-(trifluoromethyl)benzyl]sulfonyl]amino}ethyl]-1H-indol-3-yl}ethyl]sulfonyl]phenyl]propanoic acid or pharmaceutically acceptable salts thereof; and to methods of treating inflammation comprising topical administration of a composition comprising a compound of formula I.



21: 2016/05592. 22: 2016/08/12. 43: 2022/06/29
 51: A61K; A61P

71: Norgine BV

72: CLAYTON, Lucy, COCKETT, Alasdair, CHRISTODOULOU, Mark, DAVIDSON, Ian, FARRAG, Lynn, HALPHEN, Marc, JONES, Leighton, PETROSSIAN, Vanik, STEIN, Peter, TISI, David, UNGAR, Alex, WORTHINGTON, Jeffrey

33: US 31: 14/202,098 32: 2014-03-10

54: METHOD OF CLEANSING THE COLON

00: -

The invention provides a method of cleansing the colon of a subject before a diagnostic, therapeutic or surgical procedure comprising: - administering to the subject an effective amount of a first colon cleansing solution; - administering to the subject an effective amount of a second colon cleansing solution, the second colon cleansing solution being as defined in the application; whereby the first colon cleansing solution is taken over a time period $t(d1)$ followed by optional additional clear fluid over a time period $t(cf1)$, and then following a time interval $t(dose\ interval)$, the second colon cleansing solution is taken over a time period $t(d2)$ followed by optional additional clear fluid over a time period $t(cf2)$, whereby the subject undergoes the surgical, therapeutic or diagnostic procedure at a time $t2$ after the beginning of the colon cleansing method, and whereby the time interval after the completion of the second additional clear fluid and the start of the surgical, therapeutic or diagnostic procedure is $t(\text{procedure interval})$.

21: 2016/07022. 22: 2016/10/12. 43: 2022/07/11

51: G06K

71: Gelliner Limited

72: ULYATE, John Adam

33: GB 31: 1407432.2 32: 2014-04-28

54: ENCODED CELLS AND CELL ARRAYS

00: -

Methods pertaining to encoding and decoding binary identifiers within a cell array are described. A binary identifier received by computing device can be encoded according to an encoding scheme. The cell array can include multiple encoded cells (10), each of which indicates a predetermined sequence of two or more bits, and which includes a perimeter (12), and both an alignment mark (14) and a line pattern (17) within the perimeter (12). The line pattern (17) can be one of an empty-cell line pattern, a pattern including one or more asymmetrical radial vectors, one or more diametrical vectors, a symmetric cross,

or a symmetrical star, or some other line pattern.

The encoding scheme can define a plurality of cell colours that correspond to a predetermined sequence of two or more bits. The bits corresponding to a cell colour can be redundant to bits corresponding to a line pattern for confirming accuracy of decoding a cell (10).

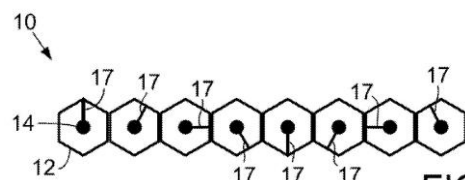


FIG. 2

21: 2016/07765. 22: 2016/11/10. 43: 2022/07/07

51: A61K; A61P; C07D

71: Bayer Pharma Aktiengesellschaft

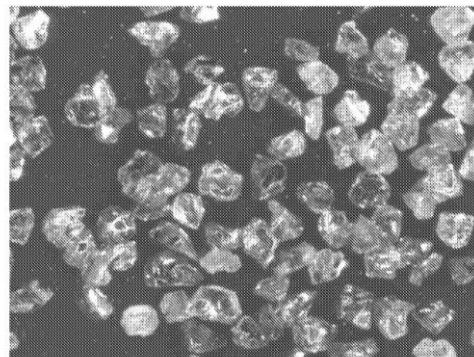
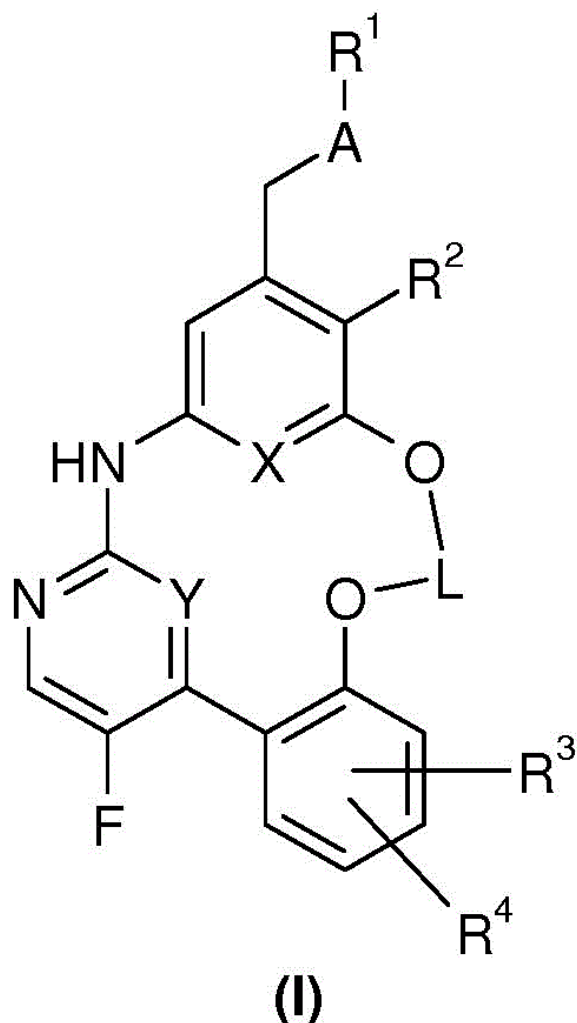
72: LÜCKING, Ulrich, WASNAIRE, Pierre, SCHOLZ, Arne, LIENAU, Philip, SIEMEISTER, Gerhard, STEGMANN, Christian, BÖMER, Ulf, ZHENG, Kunzeng, GAO, Ping, CHEN, Gang, XI, Jiajun

33: PCT/CN 31: 2014/000392 32: 2014-04-11

54: NOVEL MACROCYCLIC COMPOUNDS

00: -

The present invention relates to novel macrocyclic compounds of general formula (I) as described and defined herein, and methods for their preparation, their use for the treatment and/or prophylaxis of disorders, in particular of hyper-proliferative disorders and/or virally induced infectious diseases and/or of cardiovascular diseases. The invention further relates to intermediate compounds useful in the preparation of said compounds of general formula (I).



21: 2016/08544. 22: 2016/12/12. 43: 2022/07/11
51: C09K

71: Diamond Innovations, Inc.

72: ZHANG, Kai

54: GLASS COATED CBN ABRASIVES AND METHOD OF MAKING THEM

00: -

A coated superabrasive material and method of making the coated superabrasive material are provided. The coated superabrasive material may comprise a core and a glass coating. The core may comprise a superabrasive crystal. The glass coating may be evenly covered at outside of the core. The glass coating may range from about 1 wt% to about 15 wt% of the superabrasive crystal. The glass coating may have thickness from about 1 micron to about 2 microns.

21: 2016/08811. 22: 2016/12/21. 43: 2022/07/11
51: A61K; C07K

71: Janssen Vaccines & Prevention B.V.

72: WADIA, Jehangir, PASCUAL, Gabriel, WILLIAMSON, Robert Anthony, RADOSEVIC, Katarina, GOUDSMIT, Jaap

33: US 31: 62/017,812 32: 2014-06-26

33: US 31: 62/017,807 32: 2014-06-26

33: US 31: 62/017,746 32: 2014-06-26

33: US 31: 62/017,789 32: 2014-06-26

54: ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS THAT SPECIFICALLY BIND TO MICROTUBULE-ASSOCIATED PROTEIN TAU

00: -

The invention relates to antibodies and antigen-binding fragments that specifically bind to microtubule-associated protein tau. The invention also relates to diagnostic, prophylactic and therapeutic methods using anti-tau antibodies.

21: 2017/01162. 22: 2017/02/16. 43: 2022/07/11
51: C07K

71: Amgen Inc.

72: SUN, Jeonghoon, O'NEILL, Jason Charles, KETCHEM, Randal R., HECHT, Randy Ira, BELOUSKI, Edward J., MICHAELS, Mark Leo

33: US 31: 61/782,613 32: 2013-03-14

54: VARIANTS OF TISSUE INHIBITOR OF METALLOPROTEINASE TYPE THREE (TIMP-3), COMPOSITIONS AND METHODS

00: -

There are disclosed TIMP-3 muteins, variants and derivatives, nucleic acids encoding them, and methods of making and using them.

21: 2017/03343. 22: 2017/05/15. 43: 2022/08/22
51: F02C

71: 8 RIVERS CAPITAL, LLC

72: FETVEDT, Jeremy, Eron, ALLAM, Rodney, John

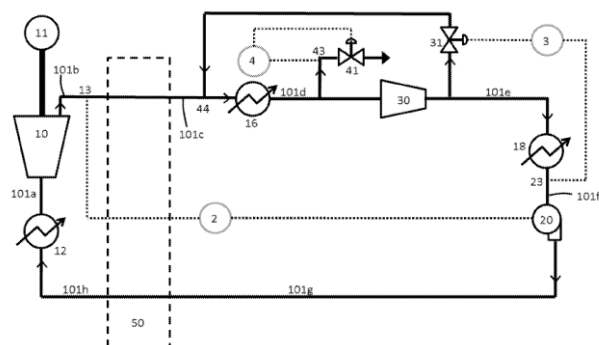
33: US 31: 62/078,833 32: 2014-11-12

**54: CONTROL SYSTEMS AND METHODS
SUITABLE FOR USE WITH POWER
PRODUCTION SYSTEMS AND METHODS**

00: -

Control systems and methods suitable for combination with power production systems and methods are provided herein. The control systems and methods may be used with, for example, closed power cycles as well as semi-closed power cycles.

The combined control systems and methods and power production systems and methods can provide dynamic control of the power production systems and methods that can be carried out automatically based upon inputs received by controllers and outputs from the controllers to one or more components of the power production systems.



21: 2017/04366. 22: 2017/06/27. 43: 2022/07/07

51: C07K: A61K

71: AFFIBODY AB

72: FREJD, FREDRIK, FELDWISCH, JOACHIM,
KLINT, SUSANNE, GUDMUNSDOTTER, LINDVI

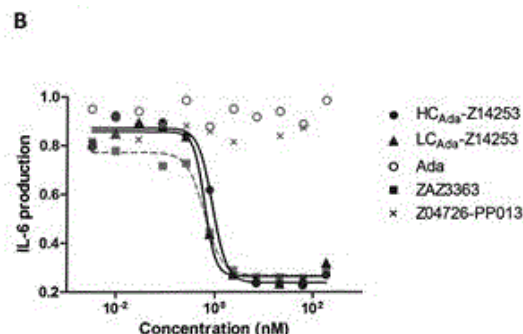
33: EP 31: 15150786.0 32: 2015-01-12

54: IL-17A-BINDING POLYPEPTIDES

00: -

The present disclosure relates to a class of engineered polypeptides having a binding affinity for interleukin-17A (IL-17A), and provides an IL-17A binding polypeptide comprising the sequence EX₂DX₄AX₆X₇EIX₁₀X₁₁ LPNL

X₁₆X₁₇X₁₈QX₂₀X₂₁AFIX₂₅ X₂₆LX₂₈X₂₉- Also disclosed is the use of such an interleukin-17A binding polypeptide as a diagnostic, prognostic and/or therapeutic agent.



21: 2017/04611. 22: 2017/07/07. 43: 2022/07/22

51: A01N. A61K

71: SAMUMED, LLC

72: HOOD, JOHN. KC. SUNIL KUMAR

33: US 31: 61/624,646 32: 2012-04-16

33: US 31: 61/534,601 32: 2011-09-14

54: INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/B-CATENIN SIGNALING PATHWAY INHIBITORS

00: -

Indazole-3-carboxamide compounds for treating various diseases and pathologies are disclosed. More particularly, the present disclosure concerns the use of an indazole-3-carboxamide compound or analogs thereof, in the treatment of disorders characterized by the activation of Wnt pathway signaling (e.g., cancer, abnormal cellular proliferation, angiogenesis and osteoarthritis), the modulation of cellular events mediated by Wnt pathway signaling, as well as genetic diseases and neurological conditions/disorders/diseases due to mutations or dysregulation of the Wnt pathway and/or of one or more of Wnt signaling components. Also provided are methods for treating Wnt-related disease states.

21: 2017/06335. 22: 2017/09/19. 43: 2022/07/11

51: B65B; B65D; F42B

71: Dyno Nobel, Inc.

72: OLIVARES, Cesar A., RIVERA, Leonardo G.,
THOMAS, J. Donaldson

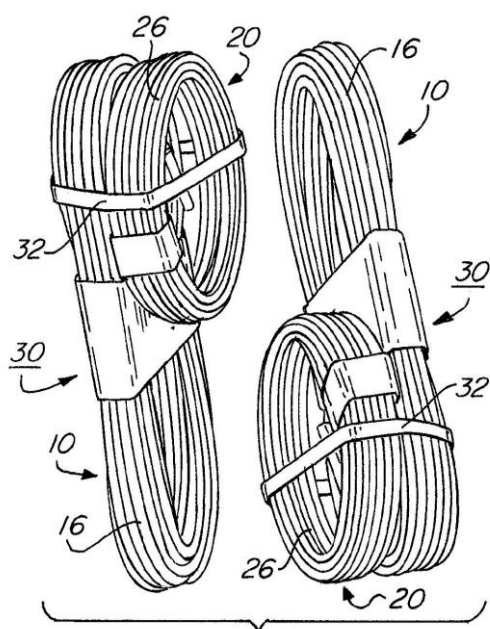
33: US 31: 62/146,506 32: 2015-04-13

54: DETONATOR PACKAGING SYSTEM AND METHOD

00: -

A packaging system includes a container (34) within which are disposed first detonator devices (10) having reactive coils (16), e.g., coils of shock tube leads, and second detonator devices (20) having inert coils (26), e.g., coils of insulated electric leg

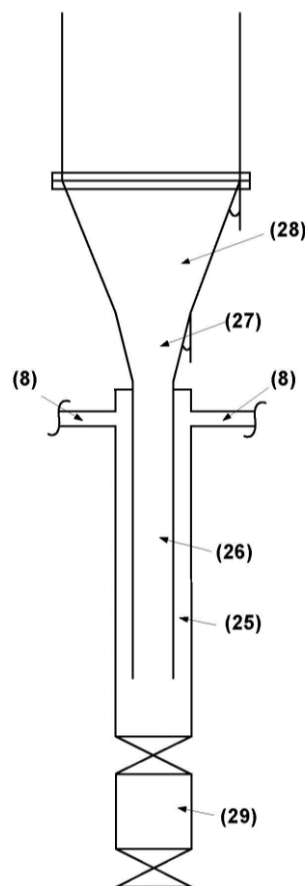
wires. The inert coils (26) are interposed between the reactive coils (16) and are approximately co-extensive with the reactive coils (16), so that the inert coils (26) form a barrier to propagation of an accidental initiation from one reactive coil (16) to another. Reactive coils (16) and inert coils (26) are fastened to each other to form mixed coil pairs (30) which are nested to interpose a pair of the inert coils (26) between at least some of the reactive coils (16). A method of packing the first and second detonator devices calls for placing them in a container (34) in the described arrangement.



21: 2017/07221. 22: 2017/10/24. 43: 2022/07/11
 51: B01J; C08F
 71: Borealis AG
 72: KANELLOPOULOS, Vasileios, NYFORS, Klaus, AGUAYO ARELLANO, Pablo Ivan, WEICKERT, Gunter, PRINSEN, Eric-Jan
 33: EP(AT) 31: 15171820.2 32: 2015-06-12
54: METHOD AND APPARATUS FOR POLYMERISING OLEFINS IN GAS PHASE
 00: -

The present invention deals with an olefin polymerisation process. At least one olefin is polymerised in gas phase in a fluidised bed in the presence of an olefin polymerisation catalyst in a polymerisation reactor having a vertical body; a generally conical downwards tapering bottom zone; a generally cylindrical middle zone above and connected to said bottom zone; and a generally

conical upwards tapering top zone above and connected to said middle zone. Fluidisation gas is introduced to the bottom zone of the reactor from where it passes upwards through the reactor, and withdrawn from the top zone of the reactor. The gas is then compressed, cooled and returned into the bottom zone of the reactor. A fluidised bed is thus formed within the reactor where the growing polymer particles are suspended in the upwards rising gas stream wherein the superficial velocity of the fluidisation gas is less than the transport velocity of the particles. There is no fluidisation grid in the reactor. The fluidisation gas is passed from an inlet chamber into the bottom zone and the gas flows from the upper part of the inlet chamber to the lower part thereof and the gas flows from the lower part of the inlet chamber to the bottom zone.



21: 2017/07499. 22: 2017/11/06. 43: 2022/07/11
 51: A61K; A61P; C07D
 71: Teijin Pharma Limited
 72: MIZUNO, Tsuyoshi, SHIMADA, Tomohiro, UNOKI, Gen, EBISAWA, Masaru, TAKEUCHI,

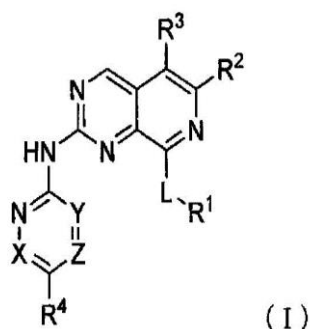
Susumu, MINAMIZONO, Kunio, SASAKI, Kosuke, YOKOSAKA, Takuya, IGARASHI, Junji, MARUYAMA, Akinobu, TAKAHASHI, Hiroshi, HORIE, Kyohei, SAKAI, Yuri

33: JP 31: 2015-110684 32: 2015-05-29

54: PYRIDO[3,4-d]PYRIMIDINE DERIVATIVE AND PHARMACEUTICALLY ACCEPTABLE SALT THEREOF

00: -

The purpose of the present invention is to provide a compound having an excellent CDK4/6 inhibiting activity. The present invention is a compound represented by general formula (I) or a pharmaceutically acceptable salt thereof.



21: 2017/08044. 22: 2017/11/27. 43: 2022/07/11

51: A61K; C07K

71: Caregen Co.,Ltd.

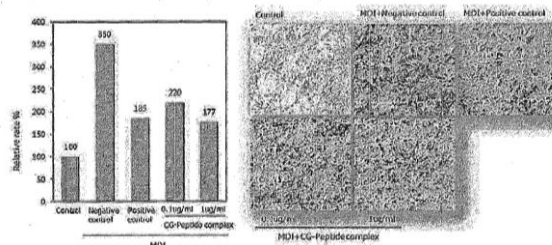
72: CHUNG, Yong Ji, KIM, Eun Mi

33: KR 31: 10-2015-0059648 32: 2015-04-28

54: PEPTIDE WITH ANTI-OBESITY AND ANTI-DIABETES ACTIVITY AND USE THEREOF

00: -

A peptide and a peptide complex of the present invention exhibit an anti-obesity effect by inhibiting fat accumulation and decomposing already accumulated fat, and exhibit an excellent effect with respect to diabetes by effectively reducing blood sugar. The peptide and the peptide complex of the present invention decrease the expression of PPAR γ , ACC, and aP2, which are adipogenic markers, increase the expression of pHSL, AMPK- α 1, CGI-58, and ATGL, which are lipolytic factors, and reduce the size of fat cells and blood cholesterol values. The peptide and the peptide complex of the present invention, which have excellent activity and safety, can be advantageously applied to drugs and quasi-drugs.



21: 2018/00201. 22: 2018/01/10. 43: 2022/07/07

51: A01D; A01F

71: Tritana Intellectual Property Ltd.

72: MAYERLE, Dean

33: US 31: 62/192,111 32: 2015-07-14

54: WEED SEED DESTRUCTION

00: -

Weed seeds are destroyed in the chaff from a combine harvester by repeated high speed impacts caused by a rotor mounted in one of a pair of side by side housings which accelerate the discarded seeds in a direction centrifugally away from the rotor onto a stator including angularly adjustable stator surfaces around the axis. Thus the discarded seeds rebound back and forth between the rotor and the stator to provide a plurality of impacts. The seeds are carried axially of the rotor by a controlled airstream so that they move to an axial discharge location where a discharge fan is mounted. The angle of the

discharge around the rotor axis can be changed to direct the seeds to the side of the combine away from a straw chopper, towards the guide fins of the tailboard of the chopper, or into the housing of the straw chopper.

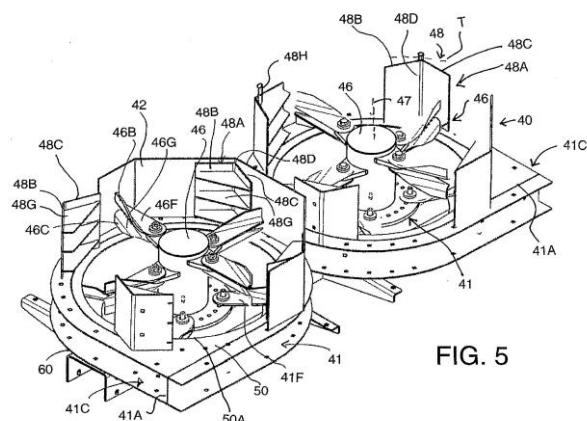


FIG. 5

21: 2018/00687. 22: 2018/02/01. 43: 2022/06/29
51: A23K

71: Novozymes A/S, DSM IP Assets B.V.

72: SANDVANG, Dorthe Hoej, GAD, Esben,
Nicholas Michael KELLY, KLAUSEN, Mikkel,
THOEGERSEN, Juliane Charlotte Gregaard,
OLSEN, Peter Bjarke, NIELSEN, Preben, COHN,
Marianne Thorup

33: EP(DK) 31: 15174931.4 32: 2015-07-02

54: ANIMAL FEED COMPOSITIONS AND USES THEREOF

00: -

The present invention relates to animal feed compositions comprising polypeptides having lysozyme activity and polypeptides having phytase activity and uses thereof.

21: 2018/01475. 22: 2018/03/02. 43: 2022/07/14
51: C12N; A01H; C07H

71: CORTEVA AGRISCIENCE LLC

72: HEY, TIMOTHY D, XU, XIAOPING, GLANCY,
TODD P, ALABED, DIAA, WORDEN, SARAH E,
WANG, NICK X, AUSMUS, CARLA, HUNG, SHAO-
CHING

33: US 31: 62/205,797 32: 2015-08-17

54: ENGINEERED CRY6A INSECTICIDAL PROTEINS

00: -

Engineered and modified Cry6Aa insecticidal toxins, polynucleotides encoding such toxins, use of such toxins to control pests, and transgenic plants that produce such toxins are disclosed. More specifically,

the modified Cry6Aa insecticidal protein comprising modifications chosen from the group consisting of a modified proteolysis-susceptible region, increased affinity of the carboxy terminal peptide (CTP) for the core protein, and addition of sub-cellular transit peptides.



21: 2018/01599. 22: 2018/03/08. 43: 2022/08/31
51:

71: THE HI TECH ROBOTIC SYSTEMZ LTD

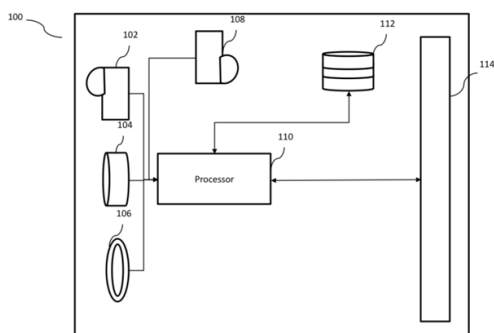
72: Anuj KAPURIA, Ritukar VIJAY

33: IN 31: 201711008494 32: 2017-03-10

54: METHOD AND SYSTEM FOR VEHICLE STATUS BASED ADVANCED DRIVER ASSISTANCE

00: -

The present invention provides a method and system of historical reaction based driver advanced assistance. In this method, a combination of external environment to a vehicle on which the advanced driver assistance system (ADAS) is mounted fetched by forward looking cameras is combined with rear looking camera for internal environment or driver state, is generated. The generated combination is utilized to analyze is there is any critical situation that is upcoming. For providing feedback for such situation, processor within the ADAS fetches current vehicle state by utilizing multiple parameters stored within a storage. The intensity of the feedback is varied upon the current vehicle state of the vehicle.



21: 2018/01674. 22: 2018/03/12. 43: 2022/06/29

51: A01N; A01P; C07D

71: Bayer Animal Health GmbH

72: HARSCHNECK, Tobias, MAUE, Michael, HALLENBACH, Werner, ARLT, Alexander, VELTEN, Robert, FISCHER, Reiner, SCHWARZ, Hans-Georg, GÖRGENS, Ulrich, ILG, Kerstin, RAMING, Klaus, HORSTMANN, Sebastian, PORTZ, Daniela, KÖBBERLING, Johannes, TURBERG, Andreas, DIETRICH, Hansjörg

33: EP(DE) 31: 15180925.8 32: 2015-08-13

54: DERIVATIVES OF PYRROLE, DIAZOLE, TRIAZOLE OR TETRAZOLE, SUITABLE FOR CONTROLLING ARTHROPODS

00: -

The invention relates inter alia to compounds of general formula (I). The invention also relates to methods for producing the compounds of formula (I). The compounds according to the invention are suitable in particular for controlling insects, arachnids, and nematodes in agriculture and for controlling ectoparasites in veterinary medicine, and as herbicides.

21: 2018/01750. 22: 2018/03/14. 43: 2022/07/25

51: A61K; C07D

71: METACRINE, INC.

72: SMITH, Nicholas, D., GOVEK, Steven, P., NAGASAWA, Johnny, Y.

33: US 31: 62/219,430 32: 2015-09-16

54: FARNESOID X RECEPTOR AGONISTS AND USES THEREOF

00: -

Described herein are compounds that are farnesoid X receptor agonists, methods of making such compounds, pharmaceutical compositions and medicaments comprising such compounds, and methods of using such compounds in the treatment of conditions, diseases, or disorders associated with farnesoid X receptor activity.

21: 2018/01880. 22: 2018/03/20. 43: 2022/07/22

51: A01N

71: CORTEVA AGRISCIENCE LLC

72: VOGLEWEDE, CHRISTOPHER J, MANN, RICHARD K, NEVES, RODRIGO, BAEZ BUCHANAN, MARCOS, FRENE, RAFAEL, DAVIES, KENT, ZOBIOLE, LUIZ HENRIQUE

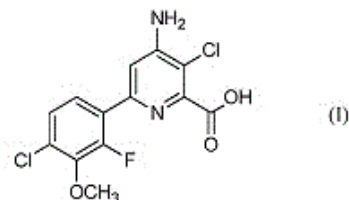
33: US 31: 62/215,921 32: 2015-09-09

33: US 31: 62/272,308 32: 2015-12-29

54: HERBICIDAL COMPOSITIONS CONTAINING 4-AMINO-3-CHLORO-6-(4-CHLORO-2-FLUORO-3-METHOXYPHENYL)PYRIDINE- 2-CARBOXYLIC ACID, A TRIAZOLOPYRIMIDINE SULFONAMIDE HERBICIDE AND A CELL MEMBRANE DISRUPTOR HERBICIDE

00: -

Herbicidal compositions and methods using a combination of (a) a compound of formula (I) or an agriculturally acceptable salt or ester thereof, (b) a triazolopyrimidine sulfonamide herbicide or an agriculturally acceptable salt or ester thereof, and (c) a cell membrane disruptor herbicide or an agriculturally acceptable salt or ester thereof provide control of undesirable vegetation in soybean, cotton, sunflower, winter/spring oilseed rape, winter/spring canola, vegetables, ornamentals, rice, wheat, teff, triticale, barley, oats, rye, sorghum, winter/spring oilseed rape, winter/spring canola, corn/maize, sunflower, row crops, pastures, grasslands, rangelands, fallowland, fallow beds, sugarcane, turf, tree and vine orchards, aquatics, forestry, industrial vegetation management (IVM) and rights-of-way; for the burndown and control of weeds in fallow fields and fallow beds between the planting of crops, such as soybean, corn, cotton sunflower, cereals, rice, winter/spring oilseed rape, winter/spring canola, corn/maize and sorghum; and for the control of weeds just prior to or after planting soybeans



21: 2018/02401. 22: 2018/04/12. 43: 2022/07/25

51: E02F

71: IHC HOLLAND IE B.V.

72: CLEOPHAS, Eugenius Petrus Elisabeth Marie

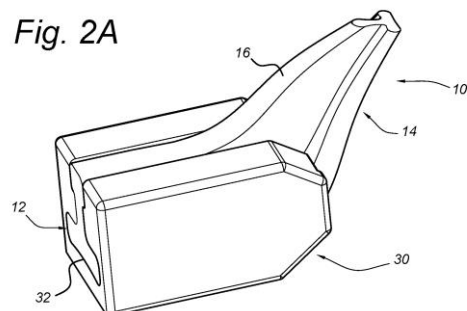
33: NL 31: 2015612 32: 2015-10-14

54: SNAIL TOOTH

00: -

According to the invention, a tooth (10) for a cutter head includes a tooth body portion (12) for connecting to an adapter (30); and a pick point portion (14) comprising an end portion with a substantially planar surface (20), sides (19) extending in an outward direction from the end portion (20) to the tooth body portion (12), and a front (16) and/or back (18) with curvature, which expands in thickness from the end portion (20) to the tooth body portion (12). The tooth body portion (12) and the pick point portion (14) have a rounded cross-section comprising a central beam (22) with a bottom base (24) extending perpendicular from the central beam (22) at a lower end of the central beam (22) and a top shoulder (26) on an upper end of the central beam (22).

Fig. 2A



21: 2018/02754. 22: 2018/04/25. 43: 2022/07/21

51: E21B; F16D; F16L

71: SWICK MINING SERVICES LTD

72: ATTIWELL, PAUL

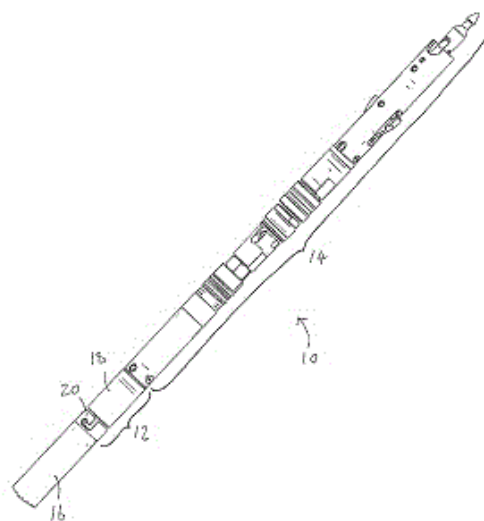
33: AU 31: 2015904625 32: 2015-11-10

54: A CONNECTION DEVICE

00: -

A connection device for a core drilling assembly is disclosed, the connection device connectible between a head assembly of a core drilling assembly and an inner tube of the core drilling assembly. The connection device comprises a first connection portion and a second connection portion, and includes a connection mechanism arranged to facilitate engagement of the first and second connection portions with each other and disengagement of the first and second connection

portions from each other. The connection mechanism includes at least one locking projection disposed on the first connection portion and at least one corresponding locking path disposed on the second connection portion, the locking path having a locking position such that the first and second connection portions are held together when a locking projection is disposed in the locking position. Each locking projection is engageable with a respective locking path, and the locking path is arranged such that the locking projection is movable through the locking path and receivable in the locking position by moving the first and second connection portions substantially towards each other and rotating the first and second connection portions relative to each other. The connection mechanism also includes a locking member mounted on the first or second connection portion such that rotation of the locking member is restricted, wherein when the locking projection is disposed in the locking position, the locking member is reciprocally movable between a first position wherein the first and second connection portions are restrained from rotating relative to each other and the projection is thereby restrained from moving along at least a portion of the locking path, and a second position wherein the first and second connection portions are not restrained from rotating relative to each other and the projection is able to move along the locking path.



21: 2018/03046. 22: 2018/05/09. 43: 2022/07/14

51: C22B

71: CVMR Corporation

72: EMMANUEL, NANTHAKUMAR VICTOR,
KOVTON, SERGE, KHOZAN, KAMRAN M

33: US 31: 62/252,183 32: 2015-11-06

54: PROCESS FOR RECOVERING METALS

00: -

There is provided a process for treating a feed material comprising: contacting the feed material with a reducing agent within a contacting zone, wherein the feed material includes at least one operative metal-comprising compound, wherein each one of the at least one operative metal-comprising compound, independently, includes at least one operative metal species, wherein the operative metal of the operative metal species is one of nickel and iron, wherein the contacting is such that a reactive process is effected such that a solid intermediate product is produced, and such that a reaction mixture is disposed within the contacting zone and the reaction mixture includes the feed material, the reducing agent, and the solid intermediate product; wherein the reactive process is such that: for each one of the at least one operative metal-comprising compound, independently: for each one of the at least one operative metal species of the operative metal-comprising compound, independently, at least a fraction of the operative metal species of the operative metal-comprising compound is reduced such that the elemental form of the operative metal is produced; such that the solid intermediate product includes the produced elemental form of at least one of nickel and iron; quenching the reaction mixture; converting at least a fraction of the solid intermediate product to a gaseous intermediate product; and fractionating the gaseous intermediate product such that at least one operative metal-rich product is produced.



Figure 1

21: 2018/03987. 22: 2018/06/14. 43: 2022/07/14

51: A61Q; A61K; A61P

71: UNIVERSITY OF PRETORIA

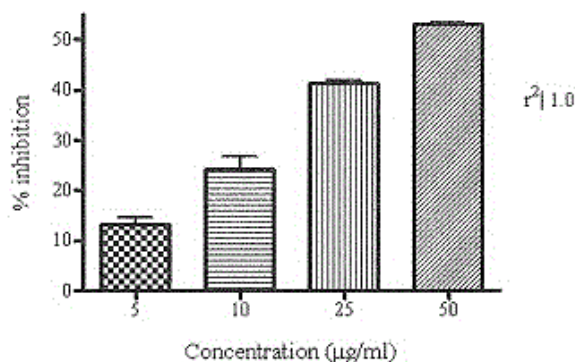
72: LALL, NAMRITA

33: ZA 31: 2015/08992 32: 2015-12-08

54: TOPICAL SKIN CARE COMPOSITIONS COMPRISING MYRSINE AFRICANA EXTRACTS

00: -

The invention relates to methods for preparing plant extracts having elastase inhibitory activity from *aMyrsine africanaplant* and topical skin care compositions comprising such plant extracts. The invention further relates to plant extracts and compositions for use in cosmetic methods of inhibiting elastase activity in skin. The invention is also directed to the use of plant extracts from the plant *Myrsine africanain* methods of prevention or treatment of skin aging in a subject and methods of using the plant extracts from *Myrsine africana*.



21: 2018/04138. 22: 2018/06/20. 43: 2022/07/14

51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: WITTEBERG, Mikael, RATHONYI, Béla, STATTIN, Magnus

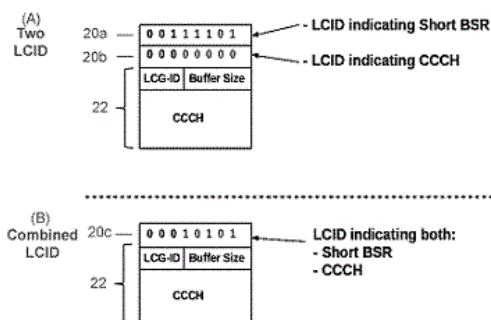
33: US 31: 62/311,222 32: 2016-03-21

54: UPLINK DATA INDICATION

00: -

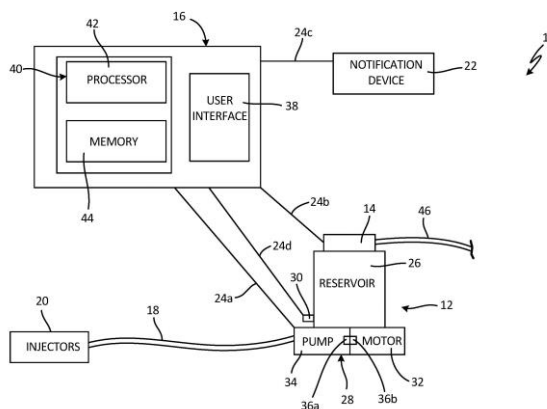
According to some embodiments, a method performed by a user equipment for indicating uplink data comprises determining a data volume indicator (DVI) representing an amount of uplink data for transmission by the user equipment and encoding the DVI in a media access control (MAC) protocol data unit (PDU). Encoding the DVI in the MAC PDU comprises encoding the DVI with a common control channel (CCCH) MAC service data unit (SDU), and

encoding a logical channel identifier (LCID) value in a MAC subheader of the MAC PDU that indicates that the MAC PDU includes the CCCH MAC SDU and the DVI. The method further comprises transmitting the MAC PDU to a network node. Particular embodiments include a method in a network node for decoding the DVI in the MAC PDU.



21: 2018/04620. 22: 2018/07/11. 43: 2022/06/29
51: G01F
71: Graco Minnesota Inc.
72: GUSTAFSON, Brandon T., NIJAGUNA, Suresha
Saragur, IGO, Chad G.
33: US 31: 62/279,884 32: 2016-01-18
**54: CONTINUOUS RESERVOIR LEVEL
MONITORING**

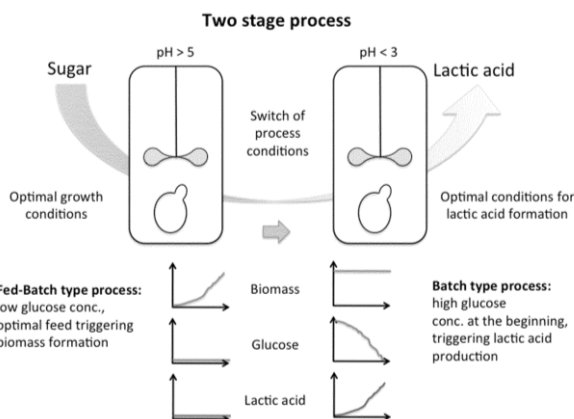
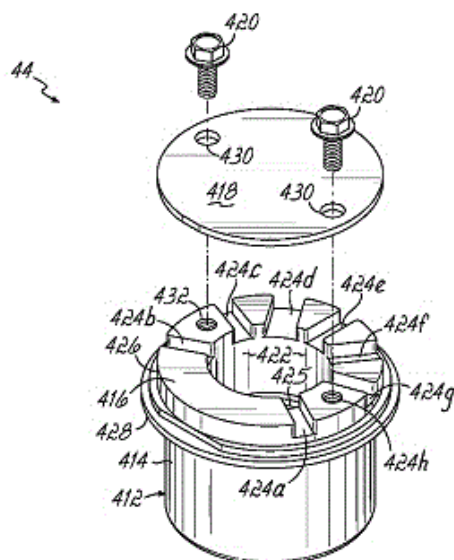
00: -
The lubricant level within a reservoir is difficult to monitor, leading to the reservoir being refilled more often than necessary to ensure that the reservoir always contains lubricant. A lubricant level sensing system is connected to and monitors various aspects of the pump assembly that draws lubricant from the reservoir. The pump assembly displaces a known volume of lubricant with each pump stroke. A lubricant-level estimator calculates an estimated lubricant level remaining in the reservoir based on a stroke-count value as sensed from the pump assembly and on a reference value stored in a memory. The estimated lubricant level provides the lubricant remaining and the rate of usage such that maintenance can be scheduled ahead of time to prevent the reservoir running dry.



21: 2018/06275. 22: 2018/09/18. 43: 2022/07/20
51: A47J

71: HENNY PENNY CORPORATION
72: CAUDILL, RANDY, GOGEL, MARK
33: US 31: 62/309,650 32: 2016-03-17
54: **COOKING SYSTEMS WITH WASHING
ELEMENTS AND SPREADER BAR**

00: -
Systems and methods are disclosed for cleaning a fryer (10) using a washing element (44, 510, 610) coupled to a bottom wall (70, 570, 580) of a cooking chamber (12, 14, 502, 504). An upper portion of the washing element (44, 510, 610) extends above the bottom wall (70, 570, 580) of the cooking chamber (12, 14, 502, 504) and includes a plurality of spray jet nozzles (424a-g, 524a-c, 624a-g) that are separated at predetermined angles (A1-A7) relative to one another around a periphery (426, 526, 626) of the upper portion (416, 516, 616) of the washing element (44, 510, 610) to orient the plurality of spray jet nozzles (424a-g, 524a-c, 624a-g) so as to spray a plurality of pressurized streams (438a-g, 538a-c, 540a-c, 538a-g) of the cooking medium (42) to predetermined areas of the cooking chamber (12, 14, 502, 504), including at least one corner (444a-d, 544a-f, 546a-f, 644a-d) of the cooking chamber (12, 14, 502, 504). Also disclosed is a fryer (10) that includes a spreader bar (38, 310) that maintains an electric heating coil (202, 302) in the serpentine pattern. The spreader bar (38, 310) is coupled to the upper surface (204, 304) of the electric heating coil (202, 302) and is disposed at a predetermined distance away from the bottom wall (70, 570, 580).



21: 2018/06519. 22: 2018/10/01. 43: 2022/08/04
51: C12N; C12P

71: SYCONIUM LACTIC ACID GMBH

72: ASK, Magnus, KOPPRAM, Rakesh,
MATTANOVICH, Diethard, SAUER, Michael

33: EP 31: 16165772.1 32: 2016-04-18

54: METHOD FOR PRODUCING LACTIC ACID

00: -

The present invention provides a method for producing lactic acid in a recombinant yeast cell culture using glucose as carbon source comprising a first, seed fermentation stage to produce biomass wherein the yeast is cultivated in a culture medium at a pH of 5 to 7, followed by a second, a production fermentation stage with biomass from the seed fermentation to produce lactic acid, wherein the yeast is cultivated in a culture medium at low pH using a yeast strain that is engineered to have lactate dehydrogenase (LDH) activity and optionally has decreased or knocked- out pyruvate decarboxylase (PDC) activity.

21: 2018/06954. 22: 2018/10/18. 43: 2022/07/11

51: H04W

71: Sony Corporation

72: HU, Bingshan, SUN, Chen

33: CN 31: 201610203046.2 32: 2016-04-01

54: ELECTRONIC DEVICE, INFORMATION PROCESSING APPARATUS, AND INFORMATION PROCESSING METHOD

00: -

The present disclosure relates to an electronic device, information processing apparatus, and information processing method. According to one embodiment, an electronic device at a base station side comprises a processor circuit. The processor circuit is configured to acquire information related to a success rate of uplink transmission in an unlicensed frequency band of at least one user equipment unit, wherein the user equipment unit employs a channel detection process to perform carrier sensing on the unlicensed frequency band, and the channel detection process comprises a random back-off process having a variable contention window size. The processor circuit is further configured to adjust, on the basis of the information, the contention window size of the user equipment unit. The processor circuit is further configured to perform control, such that the user equipment unit is notified of the adjusted contention window size or a value of a random back-off counter generated on the basis of the adjusted contention window size.

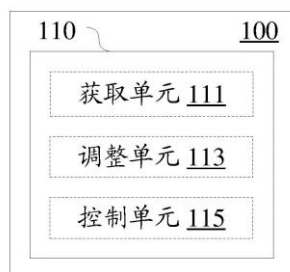
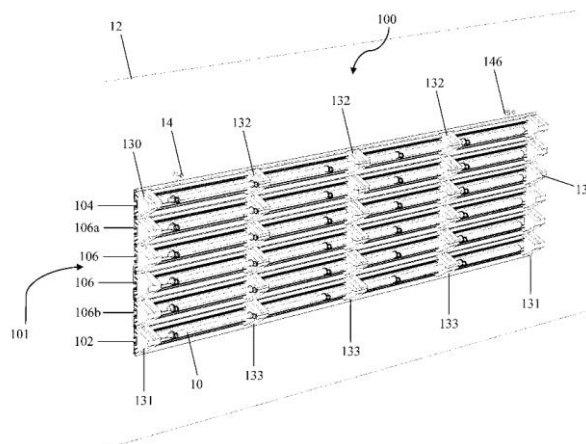


图 1

111 Acquisition unit
113 Adjustment unit
115 Control unit



21: 2018/07416. 22: 2018/11/05. 43: 2022/07/06
51: A01K

71: SAFE PASSAGE PTY LTD

72: KALAJZICH, Wade Geoffrey

33: AU 31: 2016901444 32: 2016-04-18

54: A STORAGE DEVICE

00: -

A storage device (100) for holding at least one elongate article (10), the storage device (100) comprising: a wall (101) having an interior wall surface and an exterior wall surface, the wall (101) being deformable about a longitudinal axis between an open configuration and a closed configuration, the closed configuration defining a longitudinally extending cavity (152); and at least one retainer clip (132) coupled to, or integrally formed with, the interior wall surface, the retainer clip(s) (132) being configured to receive and retain the elongate article(s) (10) in a generally longitudinally extending orientation. In the closed configuration, the retainer clip(s) (132) and any elongate article(s) (10) retained by the retainer clip(s) (132) are located within the cavity (152). In the open configuration, access is provided to the retainer clip(s) (132) thereby allowing the elongate article(s) (10) to be received and removed from the retainer clip(s) (132).

21: 2018/07943. 22: 2018/11/23. 43: 2022/08/04
51: A61K

71: SERVIER IP UK LIMITED

72: FORNASINI, Gianfranco, SOUKHAREVA, Nadejda, PHILLIPS, Christopher

33: US 31: 62,344,249 32: 2016-06-01

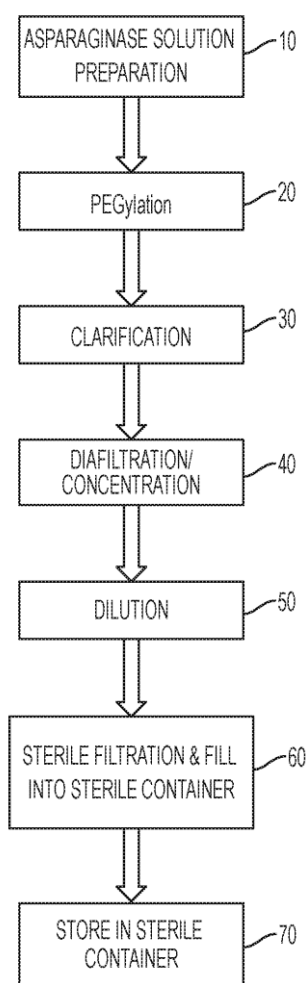
33: US 31: 62,344,252 32: 2016-06-01

33: US 31: 62,344,256 32: 2016-06-01

54: FORMULATIONS OF POLYALKYLENE OXIDE-ASPARAGINASE AND METHODS OF MAKING AND USING THE SAME

00: -

Aspects of the invention include polyalkylene oxide-asparaginase compositions. In some instances, the composition is a lyophilized storage stable composition. In some instances, the lyophilized compositions include one or more of a buffer, a salt, and a sugar. Aspects of the invention further include methods of making the compositions. The compositions find use in a variety of applications, e.g., in the treatment of a neoplastic condition in a subject.



21: 2019/00314. 22: 2019/01/16. 43: 2022/07/11
51: G01H

71: UNIVERSITY OF PRETORIA

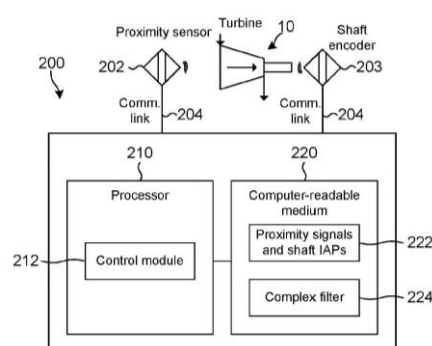
72: DIAMOND, David Hercules, HEYNS, Philippus Stephanus, OBERHOLSTER, Abraham Johannes
33: ZA 31: 2016/04321 32: 2016-06-27

54: A METHOD AND SYSTEM FOR MONITORING ROTOR BLADES OF A TURBOMACHINE USING BLADE TIP TIMING (BTT)

00: -

A method (400) of determining blade tip deflection characteristics is applied to moving rotor blades (R1, R2) in a turbomachine (10) comprising a housing and rotor including a shaft with the rotor blades attached thereto and at least one proximity probe (202). The method (400) includes measuring ((402) a proximity signal caused by a presence of a proximate tip of a moving rotor blade (R1) and calculating (404) by a control module (212) a shaft Instantaneous Angular Position (IAP) as a function

of time, and performing (410) an order tracking process which includes expressing (412) the measured proximity signal in the angular domain and resampling (414) the expressed proximity signal to render it equidistant in the angular domain. The method (400) includes performing (416) a pulse localisation process which includes filtering (418) the proximity signal yielding a complex-valued response, expressing (420) the complex-valued response in terms of a local amplitude and phase, and calculating (422) local phase shifts between each expressed signal and a reference signal.



21: 2019/00315. 22: 2019/01/16. 43: 2022/07/11
51: F01D; G01H

71: UNIVERSITY OF PRETORIA

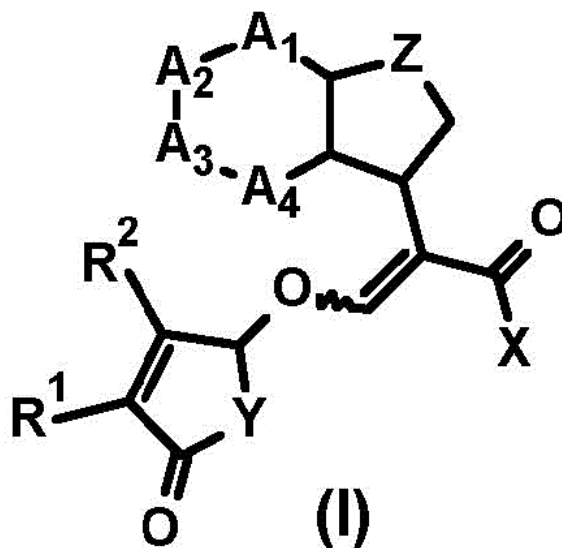
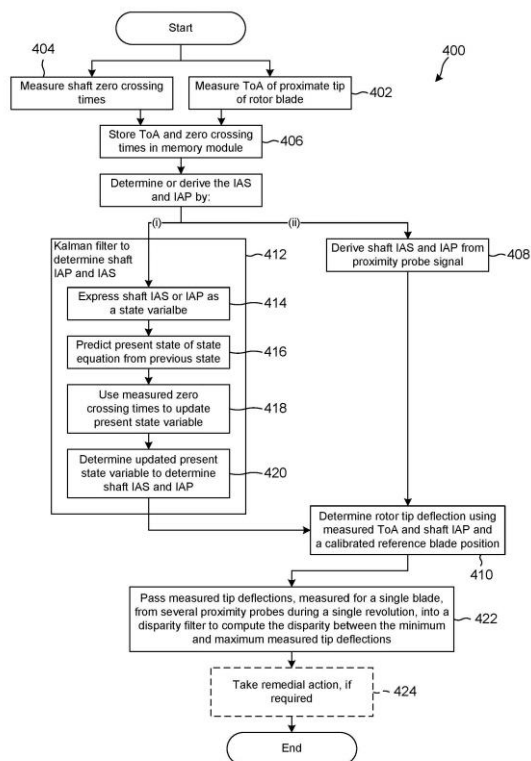
72: DIAMOND, David Hercules, HEYNS, Philippus Stephanus, OBERHOLSTER, Abraham Johannes
33: ZA 31: 2016/04322 32: 2016-06-27

54: A METHOD AND SYSTEM FOR MEASURING ROTOR BLADE TIP DEFLECTION USING BLADE TIP TIMING (BTT)

00: -

A method (400) of measuring rotor blade tip deflections of turbomachine rotor blades (R1, R2) during operation using Blade Tip Timing (BTT) includes measuring (402), by a proximity sensor (202), a proximity signal caused by a moving rotor blade (R1, R2) and determining (412), by a control module (212), a Time-of-Arrival (ToA). The method (400) includes measuring a time that the shaft starts to rotate a measurable angular distance and a time the shaft has completed its rotation of the measurable distance and storing (406) timing data indicative of a plurality of ToA measurements of the rotor blade (R1, R2) and the zero crossing times. The method (400) includes determining the shaft Instantaneous Angular Position (IAP) between at

least two zero crossing times, which determination comprises expressing the shaft IAP between at least two zero crossing times as a continuous, non-constant IAP mathematical function of time, with unknown function coefficients and calculating the unknown function coefficients of the IAP mathematical function.

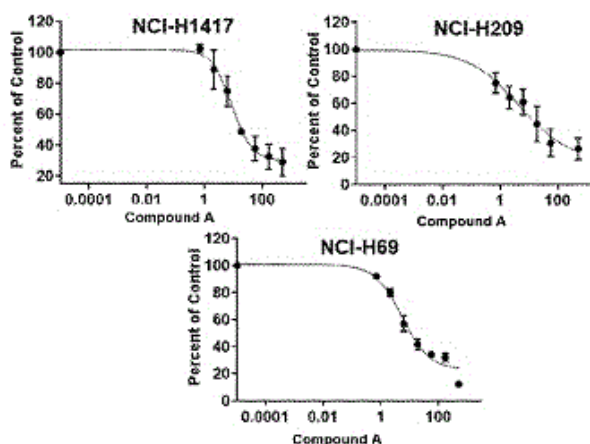
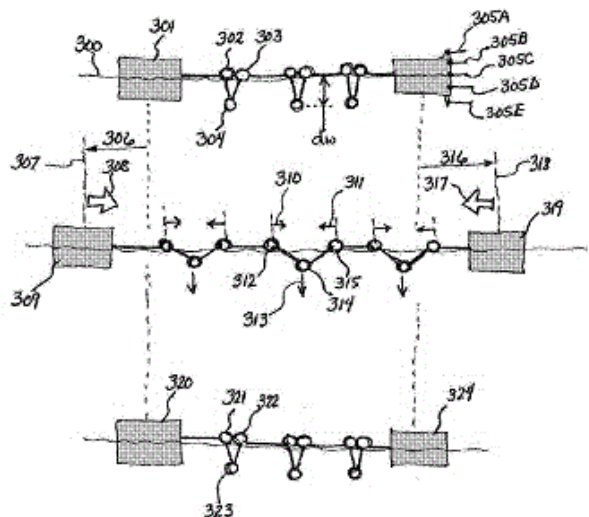


21: 2019/01266. 22: 2019/02/27. 43: 2022/07/14
 51: F03B; F21S
 71: LONE GULL HOLDINGS, LTD.
 72: SHELDON-COULSON, GARTH ALEXANDER, MOFFAT, BRIAN
 33: US 31: 15/666,521 32: 2017-08-01
 33: US 31: 62/454,926 32: 2017-02-06
 33: US 31: 62/370,401 32: 2016-08-03
54: MOORING SYSTEM FOR DRIFTING ENERGY CONVERTERS
 00: -

A system that maintains the relative and/or absolute geographical positions of two or more buoyant devices floating in a body of water. A plurality of formation restoring tethers are disclosed which permit the unrestricted vertical movement of networked buoyant devices, while resisting increases in their lateral separations by providing restoring forces to oppose such separations. Tensioning mechanisms incorporated into the tethers generate the resistance to the lateral separations of two or more entities by transforming such separations into an increase in the potential energy stored within such tensioning mechanisms, the potential energy of which is released in the process of restoring the original separations and/or positions of the displaced buoyant devices.

21: 2019/01071. 22: 2019/02/19. 43: 2022/06/29
 51: A01N; C07D
 71: Syngenta Participations AG
 72: LUMBROSO, Alexandre Franco Jean Camille, DE MESMAEKER, Alain, SCREPANTI, Claudio, RENDINE, Stefano
 33: GB 31: 1615544.2 32: 2016-09-13
54: PLANT GROWTH REGULATOR COMPOUNDS
 00: -

The present invention relates to novel strigolactone derivatives of formula (I), to processes for preparing these derivatives including intermediate compounds, to seeds comprising these derivatives, to plant growth regulator or seed germination promoting compositions comprising these derivatives and to methods of using these derivatives in controlling the growth of plants and/or promoting the germination of seeds.



21: 2019/01322. 22: 2019/03/01. 43: 2022/07/14

51: A61K; C07D; A61P

71: CELGENE QUANTICEL RESEARCH, INC.

72: XU, JIANGCHUN, CHO, ROBERT, NGUYEN, AARON

33: US 31: 62/373,263 32: 2016-08-10

33: US 31: 62/468,424 32: 2017-03-08

54: TREATMENT OF RELAPSED AND/OR REFRACTORY SOLID TUMORS AND NON-HODGKIN'S LYMPHOMAS

00: -

Methods are provided for the treatment of relapsed and/or refractory solid tumors (including neuroendocrine carcinomas (NEC) and non-Hodgkin's lymphomas (NHLs) and the like, using substituted heterocyclic derivative compounds and pharmaceutical compositions comprising compounds useful for the inhibition of lysine specific demethylase-1 (LSD-1).

21: 2019/01373. 22: 2019/03/05. 43: 2022/07/18

51: F42B

71: SALTECH AG

72: STADELMAN, Roger August

33: EP 31: 16187018.3 32: 2016-09-02

54: PROJECTILE WITH PENETRATOR

00: -

The invention relates to a projectile (1, 1') comprising a retaining element (2, 2') and a penetrator (3). The penetrator (3) is at least partly received in a retaining element (2, 2') receiving opening (12, 12') which runs centrally relative to the projectile axis (A) and has a penetrator front (4) and a penetrator rear (5). The penetrator rear (5) has a cylindrical shape, and the penetrator front (4) runs in a conical manner from the penetrator rear (5) in the direction of a penetrator tip (6) with respect to the projectile axis (A). The length ratio of the length (LPF) of the penetrator front (4) to the length (LPH) of the penetrator rear (5) is approximately 1 to 1, preferably approximately 1 to 1.5, particularly preferably approximately 1 to 2.2.

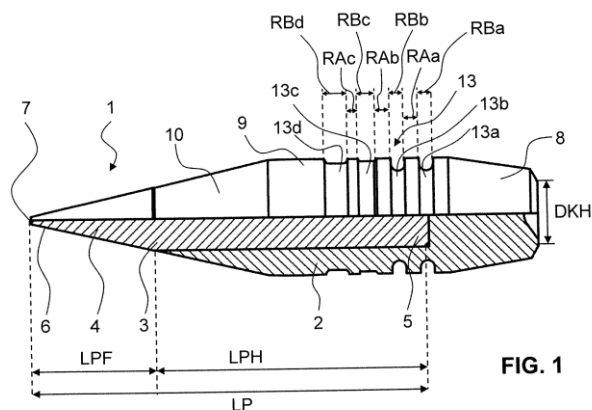


FIG. 1

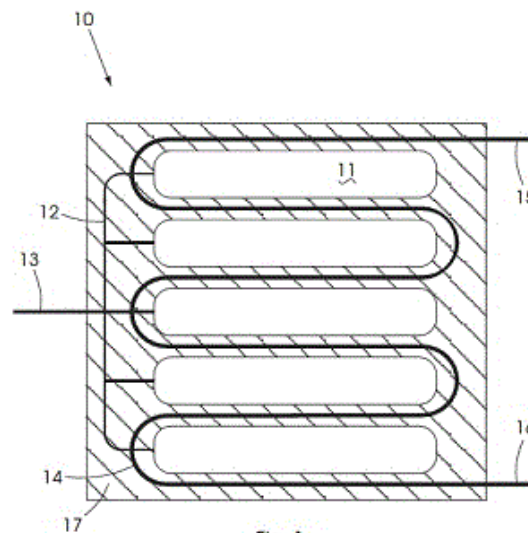


Fig. 1

21: 2019/01418. 22: 2019/03/07. 43: 2022/07/14
51: H01M; B66F

71: UNIVERSITY OF THE WESTERN CAPE

72: LOTOTSKYY, MYKHAYLO

VOLODYMYROVICH, KLOCHKO, YEVGENIY,
TOLJ, IVAN, DAVIDS, MOEGAMAT WAFEEQ,
PARSONS, ADRIAN J

33: GB 31: 1806840.3 32: 2018-04-26

**54: METAL HYDRIDE HYDROGEN STORAGE
ARRANGEMENT FOR USE IN A FUEL CELL
UTILITY VEHICLE AND METHOD OF
MANUFACTURING THE SAME**

00: -

The invention relates to a metal hydride hydrogen storage and supply arrangement integrated for use in a fuel cell utility vehicle. The storage arrangement includes a plurality of metal hydride containers suitable to be filled with a metal hydride material, the containers being connectable in parallel to a gas manifold; heat transfer means located between the metal hydride containers; and a filler body located in a space between the metal hydride containers and the heat transfer means.

21: 2019/02454. 22: 2019/04/17. 43: 2022/08/16

51: A61K; A61P

71: DUKE UNIVERSITY

72: ANDREANO, Kaitlyn, CHANG, Ching-yi,
MCDONNELL, Donald P., GAILLARD, Stephanie L.

33: US 31: 62/406,859 32: 2016-10-11

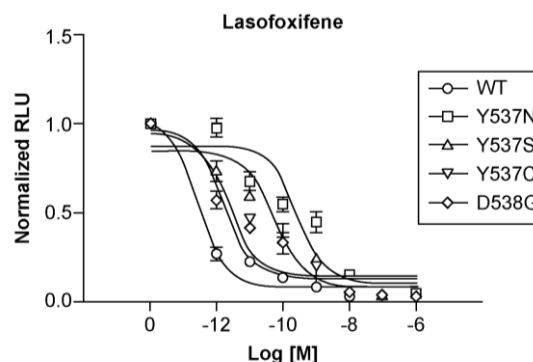
33: US 31: 62/457,759 32: 2017-02-10

33: US 31: 62/502,299 32: 2017-05-05

**54: LASOFOXIFENE TREATMENT OF ER+
BREAST CANCER**

00: -

The disclosure provides methods for treating estrogen receptor positive (ER+) cancer in women with an effective amount of lasofoxifene, a pharmaceutically acceptable salt thereof, or a prodrug thereof. The disclosure also includes the detection of the Estrogen Receptor 1 (ESR1) gene mutations that lead to endocrine resistance and treatment of endocrine resistant ER+ cancers.



21: 2019/02600. 22: 2019/04/24. 43: 2022/08/05

51: A47C; G01M

71: MADAD PTY LTD

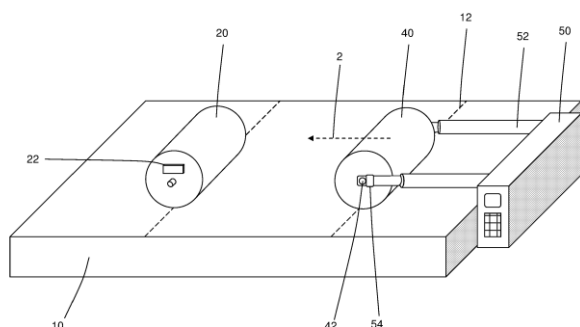
72: JUST, Morrison

33: AU 31: 2016904240 32: 2016-10-19

54: METHOD AND APPARATUS FOR TESTING ROLLING RESISTANCE

00: -

A method and apparatus for testing rolling resistance of a mattress by rolling a cylindrical weight across at least a portion of the mattress and measuring torque of the cylindrical weight moving across the mattress. The apparatus is preferably automated and preferably continuously measures torque as the cylinder is continuously moved across the mattress at a constant speed.



21: 2019/02695. 22: 2019/04/29. 43: 2022/07/14

51: C07F; C07C; C08F

71: VERSALIS S.P.A.

72: SOMMAZZI, ANNA, PAMPALONI, GUIDO, RICCI, GIOVANNI, MASI, FRANCESCO, RENILI, FILIPPO

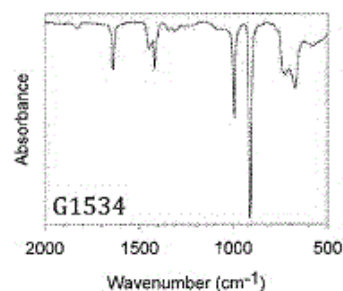
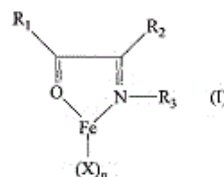
33: IT 31: 102017000006307 32: 2017-01-20

54: OXO-NITROGENATED IRON COMPLEX, CATALYTIC SYSTEM COMPRISING SAID OXO-NITROGENATED IRON COMPLEX AND PROCESS FOR THE (CO)POLYMERIZATION OF CONJUGATED DIENES

00: -

Oxo-nitrogenated iron complex having general formula (I): in which: R_1 and R_2 , identical or different, represent a hydrogen atom; or they are selected from linear or branched, optionally halogenated C_1 - C_{20} , preferably C_1 - C_{15} , alkyl groups, optionally substituted cycloalkyl groups, optionally substituted aryl groups; R_3 represents a hydrogen atom, or it is selected from linear or branched, optionally halogenated C_1 - C_{20} , preferably C_1 - C_{15} alkyl groups, optionally substituted cycloalkyl groups, optionally substituted aryl groups; X, identical or different, represent a halogen atom such as, for example,

chlorine, bromine, iodine, preferably chlorine; or they are selected from. linear or branched C_1 - C_{20} , preferably C_1 - C_{15} , alkyl groups, -OCOR₄ groups or -OR₄ groups in which R_4 is selected from linear or branched C_1 - C_{20} , preferably C_1 - C_{15} , alkyl groups; n is 2 or 3. Said oxo-nitrogenated iron complex having general formula (I) can be advantageously used in a catalytic system for the (co)polymerization of conjugated dienes.



21: 2019/02952. 22: 2019/05/09. 43: 2022/07/18

51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: YILMAZ, Osman Nuri Can, WAGER, Stefan, VESELY, Alexander, SUSITAIVAL, Riikka

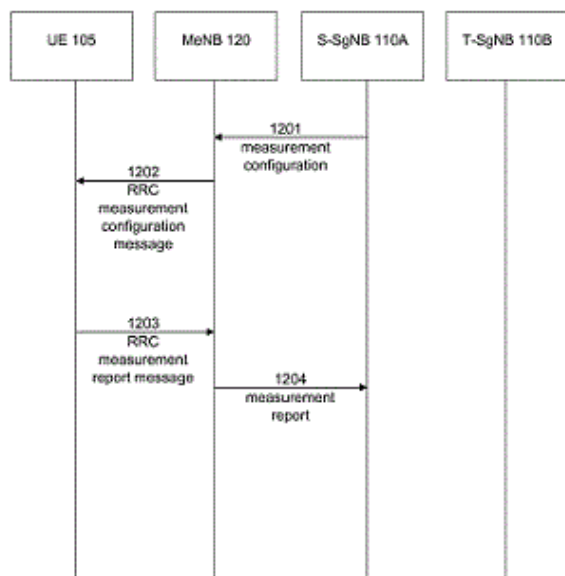
33: US 31: 62/417724 32: 2016-11-04

54: SECONDARY NODE CHANGE MEASUREMENT SIGNALING IN NEXT GENERATION RADIO NETWORK

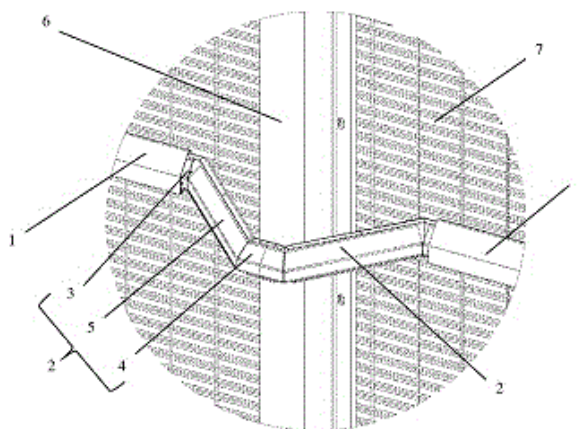
00: -

The invention refers to a transfer of a User Equipment, UE, context within a secondary network from a secondary network node (110A) to a new secondary network node (110B), wherein the UE (105) is served by a master network node (120) and the secondary network node (110A), the method comprising: the UE receiving a first message (1202) indicative measurement configuration constructed by the secondary network node (110A); the UE performing, based on the measurement configuration, measurements of potential candidates for a new secondary network node (110B); and the

UE sending a second message (1203) comprising a measurement report indicative of the measurements of potential candidates for the new secondary node. The invention further relates to a secondary network node adapted to perform the method steps of initiating sending a first message (1202) indicative of a secondary network node measurement configuration to the UE (105); and receiving a second message (1203) comprising a measurement report indicative of the measurements of potential candidates for a new secondary node from the UE (105).

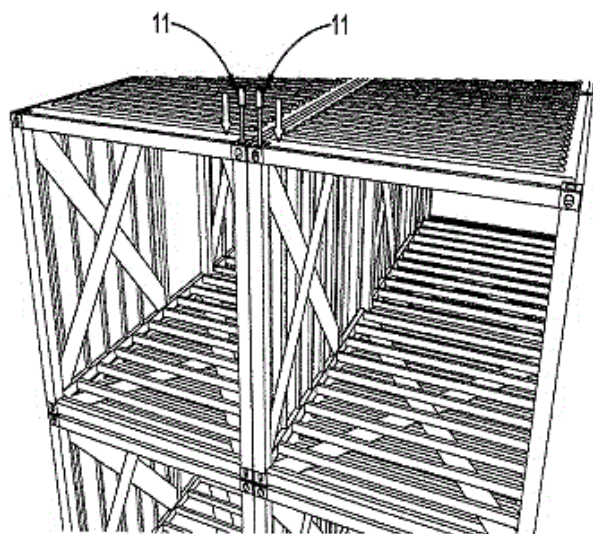


21: 2019/03206. 22: 2019/05/21. 43: 2022/07/25
 51: H02G; E04H; G08B
 71: GUARDIAR EUROPE
 72: MESSELIS, TIMOTHY
54: CABLING DEVICE
 00: -
 Cabling device for a fence with posts (6), wherein the cabling device comprises several duct elements (1, 2) which are provided to form a first duct which connects to one side of the fence and into which cables (14) extend, wherein these duct elements (1, 2) comprise linear duct elements (1), which are provided to extend between two posts (6) and adapting duct elements (2) which are provided to connect adjacent linear duct elements (1) which are separated by a said post (6), by extending around the said post (6).



21: 2019/03583. 22: 2019/06/04. 43: 2022/07/18
 51: E04B
 71: MRCB INNOVATIONS SDN. BHD.
 72: POH, QI PIN, KANG, CHOON BOON, SEOW, SENG WEI
 33: SG 31: 10201610152Q 32: 2016-12-02
 33: SG 31: 10201707728X 32: 2017-09-19
54: CONNECTION SYSTEM AND METHOD FOR PREFABRICATED VOLUMETRIC CONSTRUCTION MODULES

00: -
 The invention provides a prefabricated volumetric construction module having connection mechanism for securing to other similar modules. A prefabricated volumetric construction module includes a self-supporting structure and pairs of corner castings arranged at least at the corners of the structure. During building construction, the modules are assembled and secured together using connection rods and interlocking plates to provide vertical securement between vertically adjoining modules and horizontal securement between horizontally adjoining modules.

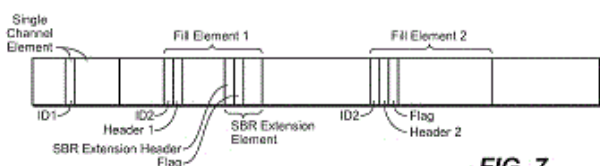


21: 2019/03963. 22: 2019/06/19. 43: 2022/07/14
 51: G10L
 71: DOLBY INTERNATIONAL AB
 72: VILLEMOS, LARS, PURNHAGEN, HEIKO,
 EKSTRAND, PER
 33: US 31: 62/133,800 32: 2015-03-16
 33: EP 31: 15159067.6 32: 2015-03-13

**54: DECODING AUDIO BITSTREAMS WITH
 ENHANCED SPECTRAL BAND REPLICATION
 METADATA IN AT LEAST ONE FILL ELEMENT**

00: -

Embodiments relate to an audio processing unit that includes a buffer, bitstream payload deformatter, and a decoding subsystem. The buffer stores at least one block of an encoded audio bitstream. The block includes a fill element that begins with an identifier followed by fill data. The fill data includes at least one flag identifying whether enhanced spectral band replication (eSBR) processing is to be performed on audio content of the block. A corresponding method for decoding an encoded audio bitstream is also provided.



21: 2019/04037. 22: 2019/06/21. 43: 2022/07/07
 51: B01J C01B C07D
 71: BASF SE
 72: PARVULESCU, Andrei-Nicolae, MÜLLER,
 Ulrich, LÜTZEL, Hans-Jürgen, TELES, Joaquim,

Henrique, RIEDEL, Dominic, URBANCZYK, Daniel,
 WEGERLE, Ulrike, WEBER, Markus, WÖRZ,
 Nicolai, Tonio, MUELLER, Christian
 33: EP 31: 17151943.2 32: 2017-01-18

**54: A PROCESS FOR PREPARING A MOLDING
 COMPRISING ZINC AND A TITANIUM-
 CONTAINING ZEOLITE**

00: -

A process for preparing a molding comprising zinc and a titanium-containing zeolitic material having framework type MWW, comprising (i) providing a molding comprising a titanium-containing zeolitic material having framework type MWW; (ii) preparing an aqueous suspension comprising a zinc source and the molding comprising a titanium-containing zeolitic material having framework type MWW prepared in (i); (iii) heating the aqueous suspension prepared in (ii) under autogenous pressure to a temperature of the liquid phase of the aqueous suspension in the range of from 100 to 200 °C, obtaining an aqueous suspension comprising a molding comprising zinc and a titanium-containing zeolitic material having framework type MWW; (iv) separating the molding comprising zinc and a titanium-containing zeolitic material having framework type MWW from the liquid phase of the suspension obtained in (iii).

21: 2019/04405. 22: 2019/07/04. 43: 2022/07/20
 51: C07F; B82Y; C08G
 71: SPAGO NANOMEDICAL AB
 72: AXELSSON, OSKAR, SANZONE, ANGELO
 33: EP 31: 17151653.7 32: 2017-01-16

**54: CHEMICAL COMPOUNDS FOR COATING OF
 NANOSTRUCTURES**

00: -

The present application relates to a chemical compound comprising an aromatic core, or a carbocyclic, non-aromatic, core, wherein the aromatic core is a benzene ring or a biphenyl; the carbocyclic, non-aromatic core is a 5 to 7 membered ring. The core has covalently attached thereto: at least two anchoring groups, each anchoring group comprising an activated silane group, wherein the anchoring groups have the following general formula $-A-(CH_2)_nSiY_3$ wherein A is a covalent bond or O, "n" is an integer from 1 to 3, and Y is independently a methoxy group or an ethoxy group; and at least one hydrophilic group extending from the core, the hydrophilic group comprising one or more

hydrophilic polymer residues with a molecular composition of $(aO+bN)/(cC+dS+eSi+fP) > 0.3$ where a, b, c, d, e and f are the mol percentage of oxygen (O), nitrogen (N), carbon (C), sulfur (S), silicon (Si) and phosphorus (P), respectively; wherein the hydrophilic polymer residue(s) is(are) selected, independently of each other if more than one hydrophilic group is present, from $-(O-CH_2-CH_2)_m-OX$, wherein X is CH_3 or H, and "m" is an integer from 6 to 25; and the number of hydrophilic groups extending from the core is from one to the number of ring structures in the core. The present invention also relates to compositions comprising the chemical compound and nanostructures comprising residues of the chemical compound as well as the use of such nanostructures. Furthermore, the invention relates to methods for obtaining the chemical compounds and the nanostructures.

21: 2019/04428. 22: 2019/07/05. 43: 2022/07/25
51: H01Q; H04B

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

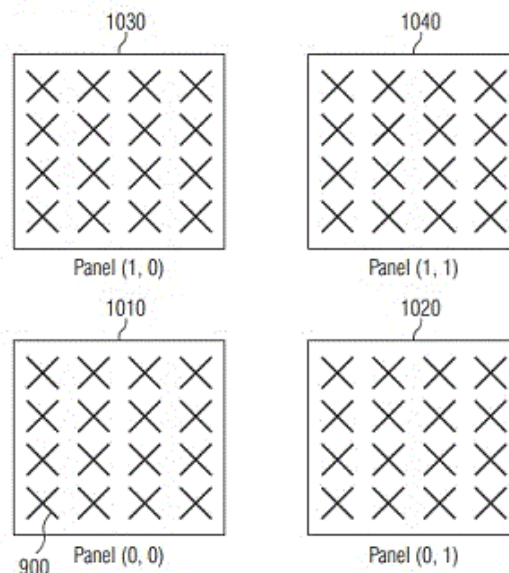
72: SEBASTIAN FAXÉR, MATTIAS FRENNE

33: US 31: 62/443,453 32: 2017-01-06

54: PRECODING A TRANSMISSION FROM A MULTI-PANEL ANTENNA ARRAY

00: -

The invention relates to a wireless communication device configured for use in a wireless communication system, wherein, based on one or more structural properties of a multi-panel antenna array describing how the antenna array is structured into multiple panels, a precoder is selected to be applied for a transmission from the multi-panel antenna array; and wherein an information indicative of the determined precoder is signaled to a transmit radio node; the invention further refers to a transmit radio node configured for transmitting via a multi-panel antenna array in a wireless communication system, wherein signaling indicating one or more structural properties of a multi-panel antenna array describing how the antenna array is structured into multiple panels is transmitted to the wireless communication device.



21: 2019/04439. 22: 2019/07/05. 43: 2022/07/14
51: E02F

71: CATERPILLAR INC.

72: SERRURIER, DOUGLAS, SINN, ERIC, BALAN, MIHAI MIRCEA, JURA, JASON

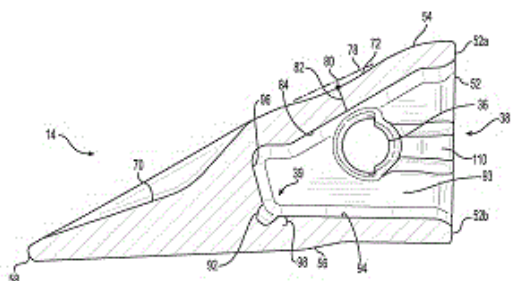
33: US 31: 62/434,625 32: 2016-12-15

33: US 31: 15/782,877 32: 2017-10-13

54: IMPLEMENT TIP ASSEMBLY HAVING TIP WITH WEAR INDICATOR

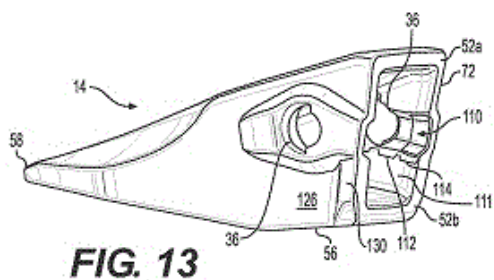
00: -

A ground engaging tip (14) of a tip assembly (10) for a base edge (8) of a ground engaging implement (1) has an adapter (12) configured for attachment to the base edge of implement and having a forwardly extending adapter nose (20). The ground engaging tip has a rear edge (52), a top outer surface (54), and a bottom outer surface (56). The top outer surface and the bottom outer surface extend forward from the rear edge of the ground engaging tip and converge at a front edge (58) of the ground engaging tip. The ground engaging tip also has a nose cavity (38), within the ground engaging tip and defined between the converging top and bottom outer surfaces of the ground engaging tip, for receiving the adapter nose therein. The nose cavity includes a wear indicator (92) extending from an inner surface of the nose cavity (84, 94, 96), into the ground engaging tip, toward the bottom outer surface of the ground engaging tip.



21: 2019/04440. 22: 2019/07/05. 43: 2022/07/14
51: E02F
71: CATERPILLAR INC.
72: SERRURIER, DOUGLAS, SINN, ERIC, BALAN, MIHAI MIRCEA, JURA, JASON
33: US 31: 62/434,641 32: 2016-12-15
33: US 31: 15/782,878 32: 2017-10-13
54: IMPLEMENT TIP ASSEMBLY HAVING TIP WITH SUPPORT RIB

00: -
A ground engaging tip (14) of a ground engaging tip assembly (10) includes an adapter (12) configured for attachment to the base edge of the implement and having a forwardly extending adapter nose (20). The ground engaging tip has a rear edge (52), a top outer surface (54), and a bottom outer surface (56). The top and bottom outer surfaces extend forward from the rear edge and converge at a front edge (58) of the ground engaging tip. The tip has first and second side outer surfaces (57, 59) extending forward from the rear edge of the ground engaging tip to the front edge. The tip has a nose cavity (38) for receiving the adapter nose therein. The tip has a support rib (130) on at least one of the first or second side outer surfaces, the support rib being positioned at the rear edge and extending lengthwise from the bottom outer surface toward the top outer surface.

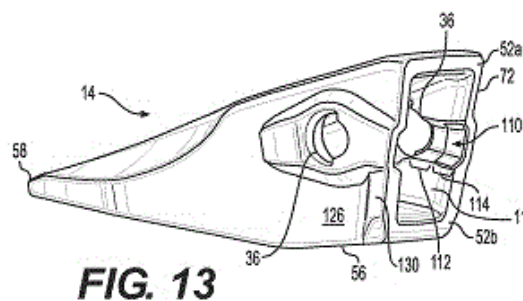


21: 2019/04441. 22: 2019/07/05. 43: 2022/07/14
51: E02F

71: CATERPILLAR INC.
72: SERRURIER, DOUGLAS, SINN, ERIC, JURA, JASON, BALAN, MIHAI MIRCEA
33: US 31: 62/434,795 32: 2016-12-15
33: US 31: 15/782,889 32: 2017-10-13

54: IMPLEMENT GROUND ENGAGING TIP ASSEMBLY HAVING TIP WITH TAPERED RETENTION CHANNEL

00: -
A ground engaging tip (14) of a ground engaging tip assembly (10) includes an adapter (12) that attaches to the base edge and having a forwardly extending adapter nose (20). The tip has a rear edge (52) and a top and bottom outer surfaces (54, 56). The top and bottom outer surfaces extend forward from the rear edge of the ground engaging tip and converge at a front edge of the tip (58). The tip includes first and second side outer surfaces (57, 59) extending forward from the rear edge to the front edge. Tip includes a nose cavity (38) for receiving the adapter nose therein. The nose cavity has first and second side inner surfaces (111) opposite the first and second side outer surfaces, respectively. The nose cavity has an aperture (36) and a retention channel (110) on at least one of the first and second side inner surfaces. The retention channel extends from the rear edge to the aperture and guides a lug (50) of the adapter into the aperture during installation of the ground engaging tip on the adapter. The retention channel has an untapered portion (112) and a tapered portion (114), with the tapered portion extending from the rear edge to the untapered portion and the untapered portion extending from the tapered portion to the aperture.

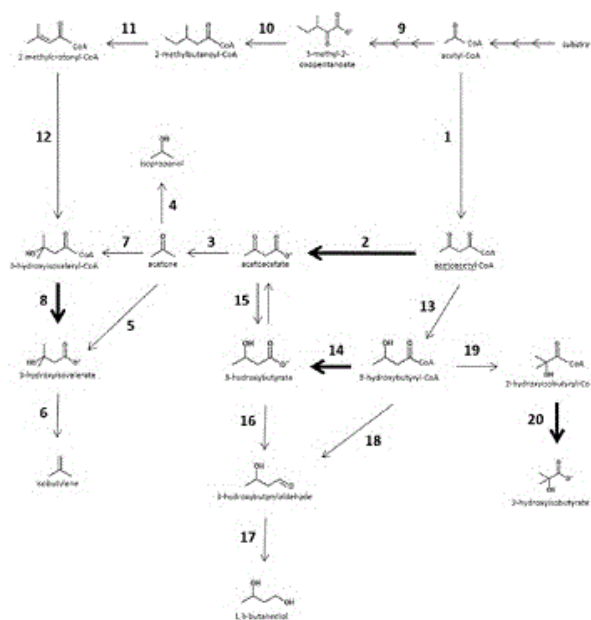


21: 2019/04454. 22: 2019/07/08. 43: 2022/07/14
51: C12N; C12P
71: LANZATECH NZ, INC.
72: KOEPKE, MICHAEL, JENSEN, RASMUS OVERGAARD, BEHRENDORFF, JAMES BRUCE YARNTON HAYCOCK, HILL, RYAN EDWARD,

33: US 31: 62/240,850 32: 2015-10-13

00: -

The invention relates to a genetically engineered bacterium comprising an energy-generating fermentation pathway and methods related thereto. In particular, the invention provides a bacterium comprising a phosphate butyryltransferase (Ptb) and a butyrate kinase (Buk) (Ptb-Buk) that act on non-native substrates to produce a wide variety of products and intermediates. In certain embodiments, the invention relates to the introduction of Ptb-Buk into a C1-fixing microorganism capable of producing products from a gaseous substrate.



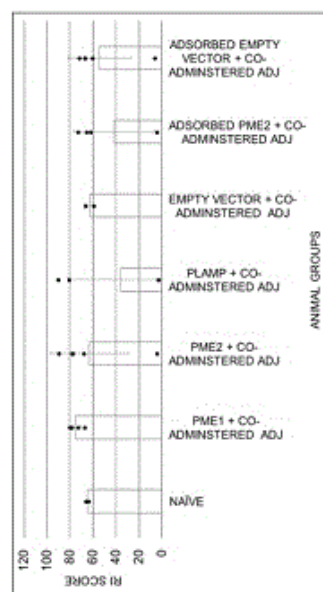
51: C07K: A61K

71: AGRICULTURAL RESEARCH COUNCIL
72: PRETORIUS, ALRI, FABER, FREDERIKA
ELIZABETH, STEYN, HELENA CORNELIA ,
LIEBENBERG, JUNITA, VAN KLEEF, MIRINDA,
THEMA, NONTOBEO, TSHILWANE, SELAEO
IVY

54: A MULTI-EPI-TOPE DNA VACCINE FOR HEARTWATER

00: -

The present invention relates to nucleic acids comprising sequences encoding Ehrlichia ruminantium epitopes which induce a CD4 immune response, and sequences encoding Ehrlichia ruminantium epitopes which induce a CD8 immune response. The invention also relates to multi-epitope DNA vaccines comprising the nucleic acids and the polypeptides encoded by the nucleic acids. The invention further relates to uses and methods of eliciting an immune response against heartwater disease in a subject using the nucleic acids, multi-epitope DNA vaccines and polypeptides.



51: H04B: H04L: H04W

(PUBL)

72: SIVA MURUGANATHAN, MATTIAS FRENNE,
SHIWEI GAO, STEPHEN GRANT, ROBERT MARK
HARRISON

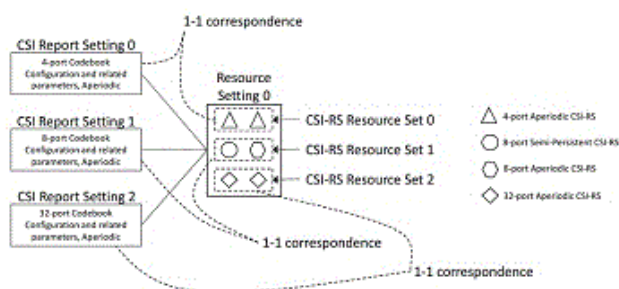
33: US 31: 62/455,350 32: 2017-02-06

54: DYNAMIC INDICATION FOR CHANNEL STATE INFORMATION FEEDBACK

00: -

Methods, base stations and wireless devices for dynamic indication of channel state information (CSI) resources are provided. According to one aspect, a method for a wireless device for determining a channel state information reference symbol, CSI-RS, resource set indicated by a base station is provided. The method includes determining a CSI-RS

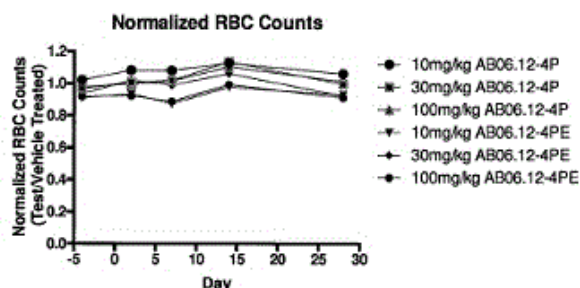
resource set based on an indication of a CSI report setting. The CSI report setting has a one-to-one correspondence to a CSI-RS resource set.



21: 2019/05292. 22: 2019/08/12. 43: 2022/07/14
 51: A61K
 71: INHIBRX, INC.
 72: ECKELMAN, BRENDAN, TIMMER, JOHN, RAZAI, AMIR, DEVERAUX, QUINN, JONES, KYLE, LAPPE, MARK
 33: US 31: 13/761,087 32: 2013-02-06
 33: US 31: PCT/US2013/024995 32: 2013-02-06
 33: US 31: 61/815,219 32: 2013-04-23

54: NON-PLATELET DEPLETING AND NON-RED BLOOD CELL DEPLETING CD47 ANTIBODIES AND METHODS OF USE THEREOF

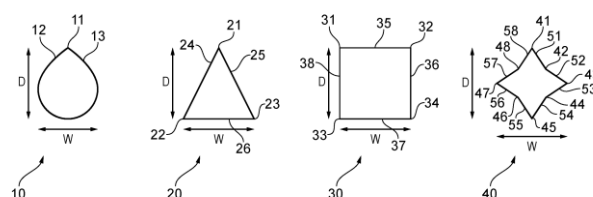
00: -
 This invention relates generally to monoclonal antibodies that recognize CD47, more specifically to CD47 antibodies that do not cause a significant level of agglutination of cells, red blood cell depletion, anemia, and/or platelet depletion, to methods of generating these antibodies, and to methods of using these monoclonal antibodies as therapeutics.



21: 2019/05838. 22: 2019/09/04. 43: 2022/09/02
 51: A01G; D02J; D04H
 71: THOMAS & FONTAINE LIMITED
 72: THOMAS, Gerard, GODWIN-THOMAS, Dianne
 33: GB 31: 1704132.8 32: 2017-03-15
 33: GB 31: 1704218.5 32: 2017-03-16

54: A NET

00: -
 A wind lift mitigation net for mitigating or preventing wind lift of at least one membrane covering an outdoor aggregation of matter is provided. The wind lift mitigation net comprises a plurality of monofilaments. At least some of the monofilaments may each have a cross-sectional shape that comprises at least one vertex. The cross-sectional shape may, for example, be a non-circular shape such as a tear drop, triangular, square or stellate shape. At least some of the monofilaments may each have at least one substantially planar surface.



21: 2019/06174. 22: 2019/09/18. 43: 2022/09/01
 51: F03D
 71: SPINETIC ENERGY LIMITED
 72: RODWAY, Giles, JOACHIM, Kurt
 33: GB 31: 1705159.0 32: 2017-03-30

54: A WIND TURBINE SYSTEM

00: -
 There is provided a wind turbine system comprising: a plurality of modules, each module comprising a frame and at least one wind turbine supported by the frame; a set of first electrically conductive members; and a set of second electrically conductive members; wherein one of the first electrically conductive members is attached to a terminal of a generator of the at least one turbine and another of the first electrically conductive members is attached to another terminal of the generator such that the set of first electrically conductive members forms a collection circuit which is configured to collect electricity generated by the turbine; wherein the set of second electrically conductive members are connected to the set of second electrically conductive members of adjacent modules to form a concatenated string of second electrically conductive members which form a transmission circuit; wherein the set of first electrically conductive members are connected to the set of second electrically conductive members so as to feed the collected

electricity from the collection circuit to the transmission circuit for transmission along the concatenated string of second electrically conductive members; wherein at least one of the first electrically conductive members and at least one of the second electrically conductive members form structural rails of the frame which supports the at least one turbine.

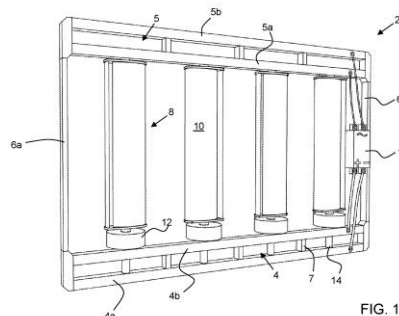


FIG. 1

21: 2019/06427. 22: 2019/09/30. 43: 2022/07/11
51: A61K; C07K; A61P
71: Neuendorfstraße 15A, HENNIGSDORF 16761, GERMANY

72: BERGMANN, Andreas

33: EP 31: 11189447.3 32: 2011-11-16

33: EP 31: 12160014.2 32: 2012-03-16

54: ANTI-ADRENOMEDULLIN (ADM) ANTIBODY OR ANTI-ADM ANTIBODY FRAGMENT OR ANTI-ADM NON-IG SCAFFOLD FOR PREVENTION OR REDUCTION OF ORGAN DYSFUNCTION OR ORGAN FAILURE IN A PATIENT HAVING A CHRONIC OR ACUTE DISEASE OR ACUTE CONDITION

00: -

Subject matter of the present disclosure is an anti-adrenomedullin (ADM) antibody or an anti-adrenomedullin antibody fragment or an anti-ADM non-Ig scaffold for use in therapy of a chronic or acute disease or acute condition of a patient for prevention or reduction of organ dysfunction or organ failure. In a preferred embodiment subject matter of the disclosure is an anti-ADM antibody or an anti-adrenomedullin antibody fragment or anti-ADM non-Ig scaffold for use in therapy of a chronic or acute disease or acute condition of a patient for prevention or reduction of kidney dysfunction or kidney failure or liver dysfunction or liver failure.

21: 2019/06826. 22: 2019/10/16. 43: 2022/07/11

51: H01B

71: UNIVERSITY OF KWAZULU-NATAL

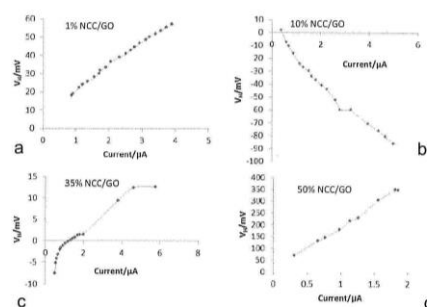
72: MARTINCIGH, Bice Susan, VAN ZYL, Werner E, NYAMORI, Vincent O, OLLENGO, Moses Abednego, MOODLEY, Vashen, MOMBESHORA, Edwin Tonderai

33: ZA 31: 2017/01896 32: 2017-03-17

54: ELECTROCONDUCTIVE COMPOSITE

00: -

An electroconductive composite comprises a matrix of nanocrystalline cellulose and graphene oxide. The matrix is, in at least a region thereof, unipolar by having, in that region, either p-type charge carrier conductivity or n-type charge carrier conductivity depending on the mass concentration of nanocrystalline cellulose in that portion of the matrix.



21: 2019/07079. 22: 2019/10/25. 43: 2022/07/20

51: G02B

71: FURUKAWA ELECTRIC LATAM S.A.

72: DECONTO VIEIRA, THIAGO

33: BR 31: BR 10 2017 006316 0 32: 2017-03-28

54: EXPANDABLE OPTICAL DISTRIBUTION DEVICE

00: -

The device comprises: a basic module (MB) defined by a basic casing (10), closed by a front cover (20), receiving an optical cable (CO) and housing an optical fibre (FO,F) branched off from the optical cable (CO) and coupled to an outlet adaptor (AS) to which a drop cable (CD) of a first user can be coupled; and an expansion module (ME) in the form of an additional casing (30), which can be engaged on the basic casing (10), previously closed by a tilting cover (40), provided with an inlet connector (CE) that can be coupled to the outlet adaptor (AS), and housing an expansion fibre (FE) divided into multiple user fibres (FU), each being coupled to an expansion adaptor (AEX) inside the additional casing (30) and in each one of which a drop cable (CD) of a user can be coupled.

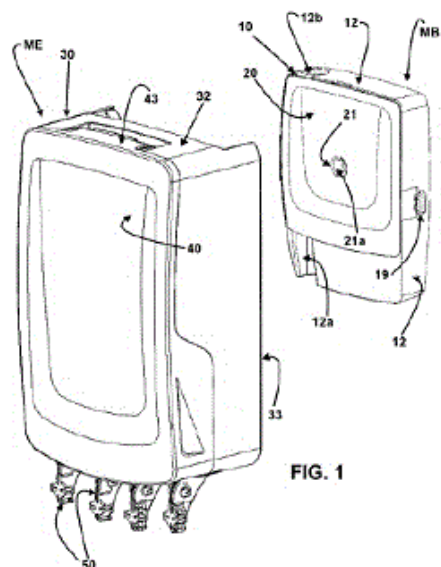


FIG. 1

21: 2019/07323. 22: 2019/11/05. 43: 2022/09/01

51: G07F; G06Q

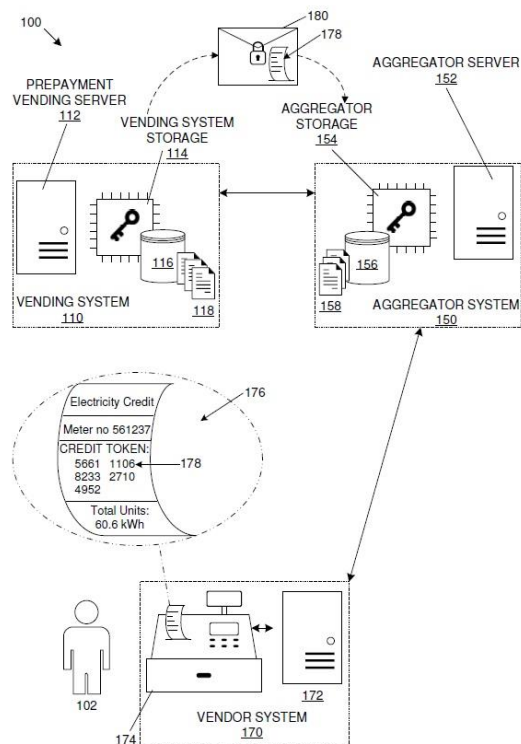
71: SYNTCELL SMART WORKS (PTY) LTD

72: STONE, Richard Justin

54: METHOD AND SYSTEM FOR VENDING A PREPAYMENT TOKEN ENABLING TOKEN REVERSAL

00: -

Methods and systems are disclosed for vending a prepayment token enabling its reversal. A token vending request is generated including a vending request identifier. A vending entry is stored against the vending request identifier in a secure storage device of the requestor. The request is sent to a prepayment token vending server configured to generate a token, encrypt it using a cryptographic key, store a reference to the token, and send the encrypted token to the requestor. The encrypted (or digitally enveloped) token is stored in the vending entry, after which the requestor may issue a decryption request to the secure storage device. If the vending entry indicates the token previously reversed, the decryption request is refused. If not previously reversed, the secure storage device decrypts the token using a complementary key, updates the vending entry to indicate the token as vended, and sends the decrypted token to the requestor.



21: 2019/07526. 22: 2019/11/13. 43: 2022/07/14

51: A61M; H01R; A24F

71: ALTRIA CLIENT SERVICES LLC

72: NEWCOMB, RYAN, BACHE, TERRY, HAWES, ERIC, LAU, RAYMOND, POPA, CRISTIAN, YORKSHADES, JAMES

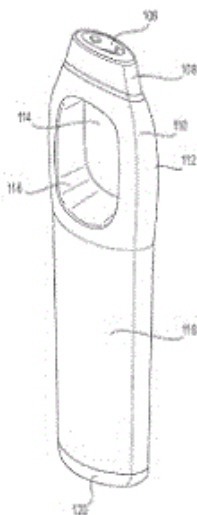
33: US 31: 15/601,365 32: 2017-05-22

54: POD ASSEMBLY, DISPENSING BODY, AND E-VAPOR APPARATUS INCLUDING THE SAME

00: -

An e-vapor apparatus may include a pod assembly including a pre-vapor formulation compartment, a first electrical connector, a vapor channel traversing the pre-vapor formulation compartment, and a vaporizer, the pre-vapor formulation compartment configured to hold a pre-vapor formulation therein and in fluidic communication with the vaporizer during an operation of the e-vapor apparatus, the first electrical connector including first and second power electrodes, the first power electrode including a first contact portion on an exterior of the first electrical connector and a first extended portion configured to contact an anode portion of the vaporizer, the second power electrode including a second contact portion on the exterior of the first electrical connector and a second extended portion configured to contact a cathode portion of the

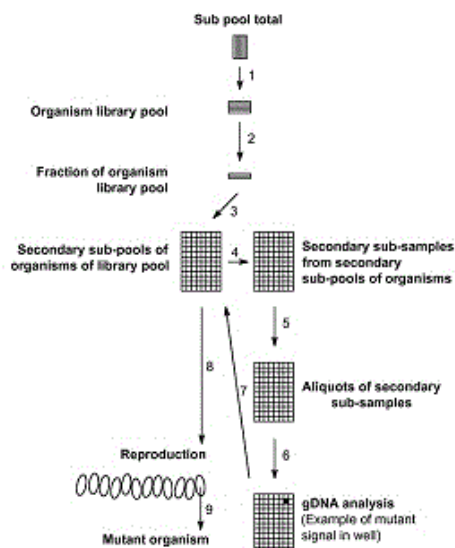
vaporizer. The e-vapor apparatus may further include a dispensing body including a second electrical connector configured to connect to the first electrical connector.



21: 2019/07775. 22: 2019/11/25. 43: 2022/07/14
 51: C12N
 71: CARLSBERG A/S
 72: WENDT, TONI, OLSEN, OLE, KNUDSEN, SØREN, THOMSEN, HANNE CECILIE, STRIEBECK, ALEXANDER, SKADHAUGE, BIRGITTE, RASMUSSEN, MAGNUS WOHLFAHRT, CARCIOFI, MASSIMILIANO
 33: DK 31: PA 2016 70485 32: 2016-07-01

54: METHOD OF IDENTIFYING A MUTANT PLANT 00: -

In traditional plant breeding approaches, chemical mutagenesis may be utilized to introduce nucleotide substitutions at random in the genome of a plant, i.e. without possibilities to control the sites of nucleotide changes. Because of genome complexities, the statistical probability is extremely little when it comes to finding a predetermined nucleotide substitution. The present invention, however, demonstrates how a novel, alternative use of digital polymerase chain reaction (dPCR), preferably droplet dPCR (ddPCR), is developed to exploit finding of specific nucleotide substitutions in mutated genes. The entire platform comprises a screening method with a library of mutagenized organisms, digital PCR -based systems and a set-up to propagate and analyze identified, mutated organisms.

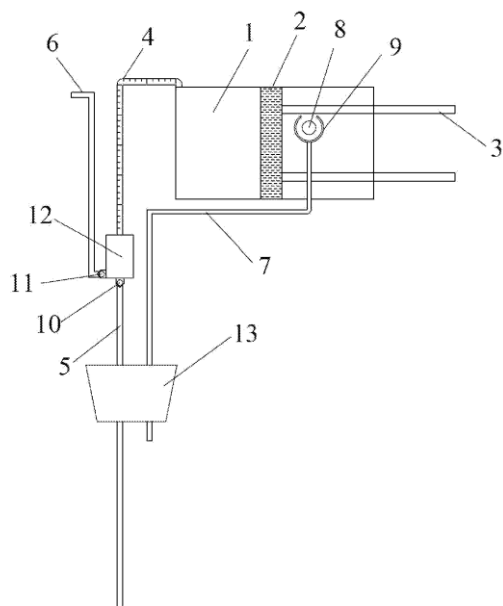


21: 2019/08582. 22: 2019/12/23. 43: 2022/08/11
 51: B01L; B65D; G01F
 71: BEIJING RED-SEA TECH CO., LTD.
 72: CHEN, Zengxin, ZHOU, Changchun, LI, Shenglu, CHEN, Jingzhe, CHEN, Bin, LI, Chen, WEI, Hao

33: CN 31: 201711148827.7 32: 2017-11-17
 33: CN 31: 201721543030.2 32: 2017-11-17

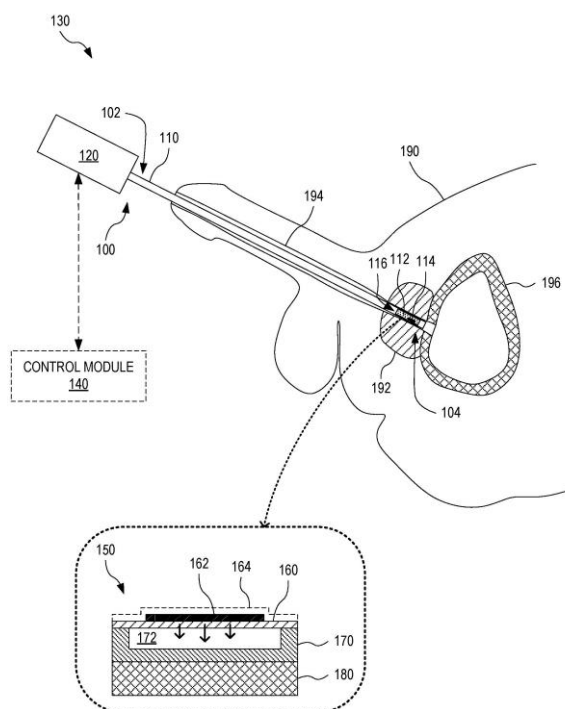
54: INITIAL POSITIONING SYSTEM AND METHOD FOR MEASURING AND TAKING LIQUID 00: -

The present invention discloses an initial positioning system for measuring and taking a liquid. The system includes a measuring channel (6), a variable-pressure chamber (1) and a piston (2), where an initial end of the measuring channel (6) communicates with an upper part of the variable-pressure chamber (1); the piston (2) reciprocates in the variable-pressure chamber (1) to generate a positive pressure alternating with a negative pressure in the variable-pressure chamber (1); the initial positioning system further includes a pressure relief port (8) located on a wall of the variable-pressure chamber (1) and communicating with the outside of the variable-pressure chamber (1); when the piston (2) is located at the pressure relief port (8) and the inside and outside of the variable-pressure chamber (1) are communicated, a maximum volume of a liquid in the variable-pressure chamber (1) is not less than one-third total volume of the variable-pressure chamber (1).



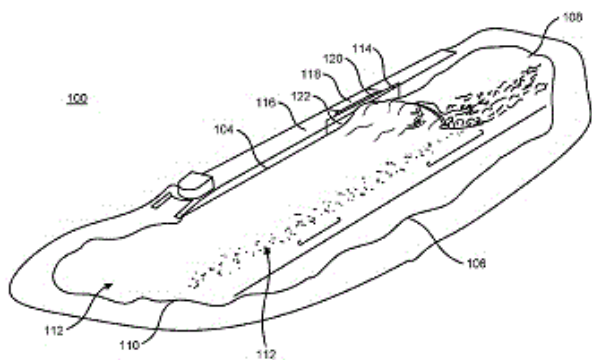
21: 2020/01288. 22: 2020/02/28. 43: 2022/07/07
 51: A61B; A61N; H01L
 71: ULTRA HOM LLC
 72: ERGÜN, Arif, Sanli, KHOURY, Andre, KHURI-YAKUB, Butrus, T., IRWIN, John, N.
 33: US 31: 62/558,200 32: 2017-09-13
 33: US 31: 62/654,765 32: 2018-04-09
 33: US 31: 62/728,616 32: 2018-09-07
54: MEDICAL DEVICE WITH CMUT ARRAY AND SOLID STATE COOLING, AND ASSOCIATED METHODS AND SYSTEMS

00: -
 A medical device includes a capacitive micromachined ultrasonic transducer (CMUT) array configured to emit ultrasound to target tissue, and at least one thermoelectric cooler mechanically coupled with the CMUT array and configured to cool non-target tissue heated by the ultrasound. The medical device may be implemented in a catheter together with a solid thermal conductor coupled to the thermoelectric cooler and extending along the catheter, to conduct heat away from the thermoelectric cooler. A catheter or catheter sleeve includes a tubular wall for insertion into a body channel, and at least one thermoelectric cooler coupled to the tubular wall for cooling the body channel wall. A catheter sleeve includes tubular casing for insertion into a body channel and capable of encasing a catheter, and at least one sensor coupled to the tubular casing for sensing one or more properties of the body channel wall, such as temperature and pressure.



21: 2020/01538. 22: 2020/03/11. 43: 2022/07/14
 51: E04H; A63B; F04D
 71: KELLY SLATER WAVE COMPANY, LLC
 72: FINCHAM, ADAM, POIROT, ALEX, LOEWEN, NATHAN, SLATER, ROBERT KELLY
 33: US 31: 15/691,175 32: 2017-08-30
54: WAVE POOL AND WAVE GENERATOR FOR BI-DIRECTIONAL AND DYNAMICALLY-SHAPED SURFING WAVES

00: -
 A wave pool and wave generating mechanism are disclosed. The wave pool includes a bathymetry that includes a dynamically shapeable reef along a length or circumference of a channel that defines the wave pool. The wave generating mechanism includes a foil that has a shape for bi-directionality based on an adjustment of a yaw angle of the foil. The foil can be further controlled to increase or decrease certain surface areas or other angles of interacting with water in the wave pool.



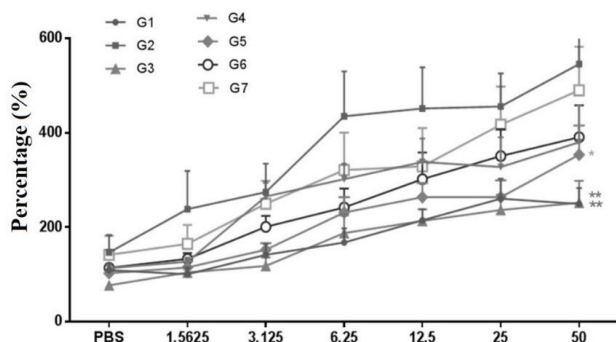
21: 2020/01807. 22: 2020/03/23. 43: 2022/08/08
51: A61K; C07K; C12N
71: JIANGSU HENGRUI MEDICINE CO., LTD.,
SHANGHAI HENGRUI PHARMACEUTICAL CO.,
LTD.

72: YING, Hua, SHI, Jinping, WANG, Yifang, HU,
Qiyue, GE, Hu, TAO, Weikang
33: CN 31: 201710906068.X 32: 2017-09-29

54: IL-5 ANTIBODY, ANTIGEN BINDING FRAGMENT THEREOF, AND MEDICAL APPLICATION THEREFOR

00: -

Provided are an IL-5 antibody, an antigen binding fragment thereof, and a medical application therefor. The present invention comprises a mouse-derived antibody containing an IL-5 antibody CDR region, a chimeric antibody, a humanized antibody, and a pharmaceutical composition comprising said IL-5 antibody and said antigen binding fragment thereof, as well as the use of the pharmaceutical composition as a drug.

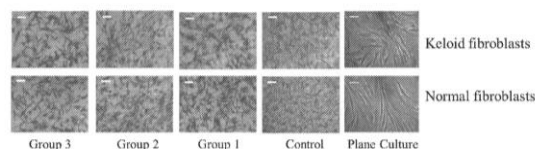


21: 2020/01921. 22: 2020/03/24. 43: 2022/08/05
51: A61K; A61P
71: EXCEL MED, LLC, NATIONAL CHENG KUNG
UNIVERSITY
72: HUANG, Lynn, L.H.
33: US 31: 62/553,267 32: 2017-09-01

54: PHARMACEUTICALS COMPOSITION FOR TREATING KELOID AND USES THEREOF

00: -

A method of treating a keloid in a subject, comprising: applying a pharmaceutical composition to a keloid or an area at risk of forming a keloid in a subject, wherein the composition includes an effective amount of a hyaluronan and an effective amount of a collagen, the weight ratio per unit volume of the hyaluronan to the collagen being greater than 1.



21: 2020/02090. 22: 2020/05/04. 43: 2022/08/16
51: A01K; C02F

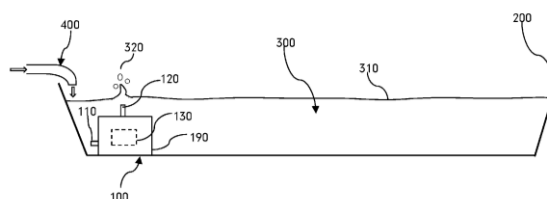
71: GRIEGER INVESTMENTS PTY LTD
72: GRIEGER, Chris

33: AU 31: 2017903890 32: 2017-09-25

54: WATER TREATMENT APPARATUS AND METHOD

00: -

An apparatus for the treatment of drinking water contained in a vessel is disclosed. The apparatus comprises a housing, a drinking water inlet and a drinking water outlet. The apparatus also includes a pump operable to pump drinking water from the water inlet to the water outlet, wherein the water outlet and pump are configured to dispense drinking water generally upwards from the water outlet below a surface of the drinking water to cause a continuing disturbance in a surface of the drinking water contained in the vessel. In one example, the apparatus is used to reduce algae in the water. In another example, the apparatus is used to increase the oxygen content in the water.



21: 2020/02158. 22: 2020/05/04. 43: 2022/07/07
51: A23L; A61K; C07K

71: Caregen Co., Ltd.

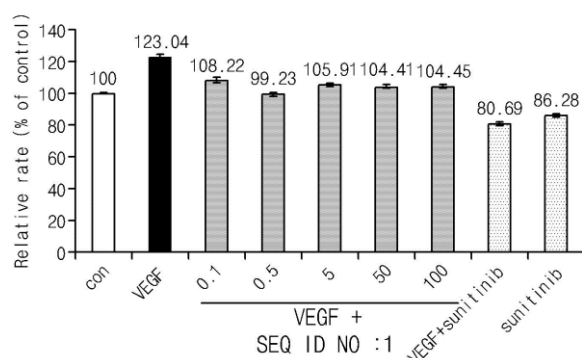
72: CHUNG, Yong Ji, KIM, Eun Mi, LEE, Eung Ji

33: KR 31: 10-2017-0122571 32: 2017-09-22

54: PEPTIDE FOR INHIBITING ANGIOGENESIS AND USE THEREOF

00: -

The present invention relates to a novel peptide having an angiogenesis inhibitory activity and a use of the peptide, related to the treatment or prevention of excessive angiogenesis-related diseases. Particularly, a novel peptide according to the present invention binds, in competition with vascular endothelial growth factors (VEGF), to VEGF receptors and can significantly inhibit the proliferation, migration and differentiation of vascular endothelial cells, thereby being effectively usable as an active ingredient of a composition or a health functional food for preventing or treating diseases, such as macular degeneration, a tumor, arthritis or psoriasis, caused by excessive angiogenesis.



21: 2020/02159. 22: 2020/05/04. 43: 2022/07/21

51: G02B

71: Vision Engineering Limited

72: MERCER, Graham Peter Francis

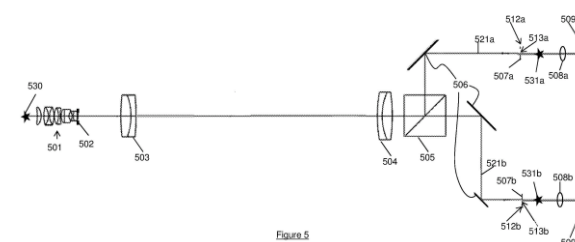
33: GB 31: 1716603.4 32: 2017-10-10

54: STEREO MICROSCOPE WITH SINGLE OBJECTIVE

00: -

An assembly for use in a microscope having an objective assembly including an aperture. The assembly comprises a lens and a beamsplitter. The lens and the beamsplitter are configured to form a respective aperture image on each of two optical paths. The assembly further comprises, on each optical path, a stop structure. Each stop structure is located on a plane of the respective aperture image, so as to block a portion of the respective aperture

image in order to provide an exit pupil, such that a stereoscopic image of an object viewed through the microscope is produceable by the combination of the images of the object visible through each exit pupil. The assembly further comprises two image sensors and a digital image processor. Each image sensor is configured to capture an image visible through the respective exit pupil and to output a digital image. The digital image processor is configured to apply a correction to the respective digital image output by each image sensor, the correction being based on the position of the respective stop structure



21: 2020/02192. 22: 2020/05/04. 43: 2022/07/21

51: F24S; H02S

71: CEP-IP Ltd

72: GRANT, Thomas McGregor James

33: EP(GB) 31: 17195641.0 32: 2017-10-10

54: DEPLOYABLE SOLAR TRACKER SYSTEM

00: -

The deployable solar tracker system comprises a single-axis solar tracker (1) including a plurality of foldable panel array sections (10, 10a). Each foldable panel array section (10, 10a) comprises a shaft section (11), a plurality of support ribs (12) hinged to the shaft section (11), a plurality of solar panels (13) attached to the support ribs (12) and a handling element (28) attached on top of the shaft section (11). The handling element (28) has one or more handle openings (29, 30) dimensioned for receiving one or more lift members oriented in a transversal direction perpendicular to the shaft section (11). The handle openings (29, 30) of the handling elements (28) of the plurality of the foldable panel array sections (10, 10a) are mutually aligned when the plurality of foldable panel array sections (10, 10a) are arranged in a shipping arrangement.

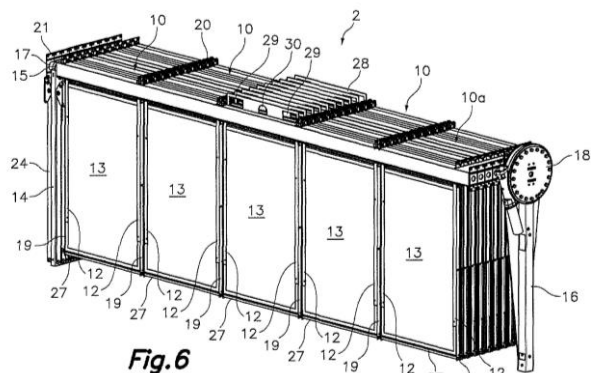


Fig. 6

21: 2020/02201. 22: 2020/05/04. 43: 2022/07/21
51: F42B

71: BAE Systems Bofors AB

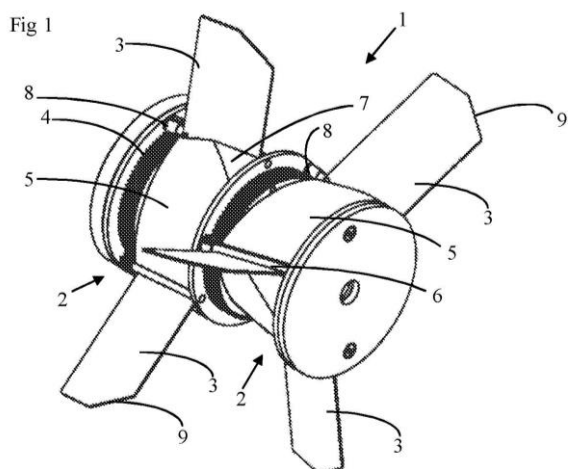
72: HAGBERG, Anders, STRÖM, Tommy,
AXINGER, Jan

33: SE 31: 1700277-5 32: 2017-11-10

54: TAIL PORTION

00: -

A tail portion (1) for a fin-stabilized projectile comprises at least two deployable fins (3), which are inclined. The fins (3) are arranged in at least two sections (2), which are arranged adjacent to another in the axial direction. Each section (2) preferably contains at least two fins (3), and the fins (3) which form part of one and the same section (2) are synchronously deployable by means of a linking member (4), to which the fins (3) forming part of the section (2) are coupled.



21: 2020/02215. 22: 2020/05/04. 43: 2022/07/21
51: F42B; F42C

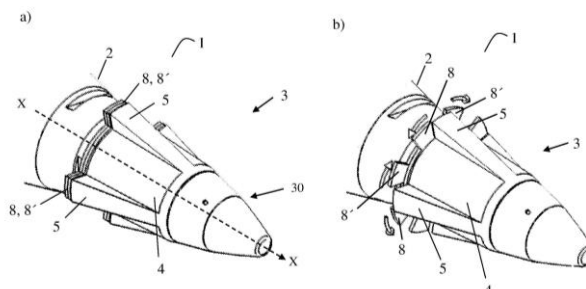
71: BAE Systems Bofors AB

72: PETTERSSON, Thomas, EKBERG, Anders
33: SE 31: 1700294-0 32: 2017-11-28

54: FUSE WITH REVERSIBLE AIRBRAKE

00: -

The present invention concerns a fuse (3) with a reversible airbrake (1) intended for a projectile (2), wherein the airbrake (1) is arranged such that errors which occur in the flight path of the projectile (2) can be corrected by performing one or more extensions 5 and retractions of the airbrake (1). The airbrake (1) comprises at least two braking surfaces (8) symmetrically arranged each behind a respective protective device (5) arranged on the casing surface (4) of the fuse (3), wherein the brake surfaces (8) can be extended and retracted in a rotational direction behind said at least two protective devices (5) via a twist shaft arranged centrally in the fuse (3).



21: 2020/02273. 22: 2020/05/04. 43: 2022/07/21
51: B07B

71: Sandvik Intellectual Property AB

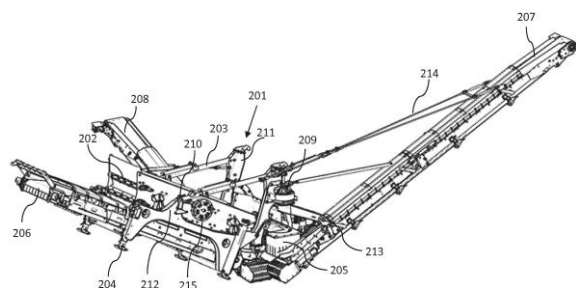
72: MCDEVITT, Terry, GRAYDON, Stuart

33: EP(SE) 31: 17201324.5 32: 2017-11-13

54: SCREENING ASSEMBLY AND MOBILE MATERIAL PROCESSING MACHINE

00: -

A screening assembly for screening material and comprising of an assembly frame (201), a multi-deck screening device (202), a transfer conveyor (205) and a drive means, wherein the drive means is operable to shift at least one of the discharge ends of the screening device and the receiving end of the first conveyor relative to the assembly frame, to allow the transfer conveyor to selectively receive material from an upper screen and from both screens at their respective discharge ends. A mobile material processing plant comprising said screening assembly is included.



21: 2020/02483. 22: 2020/05/06. 43: 2022/07/07

51: B63B

71: Saipem S.A.

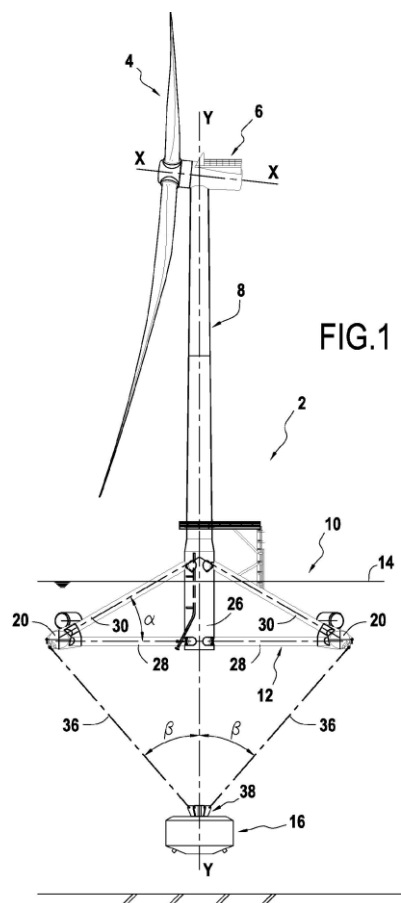
72: COLMARD, Christophe, FRANC, Paul, LE CLEZIO, Jean-Baptiste, GENTIL, Frédéric, DELAHAYE, Thierry, CHAZOT, Nicolas, HALLOT, Raymond

33: FR 31: 1761342 32: 2017-11-29

54: FLOATING SUPPORT STRUCTURE FOR OFFSHORE WIND TURBINE AND METHOD FOR INSTALLING A WIND TURBINE PROVIDED WITH SUCH A SUPPORT STRUCTURE

00: -

The invention concerns a floating support structure (10) for an offshore wind turbine, comprising a float (12) intended to be partially submerged and on which a wind turbine mast is intended to be assembled, and a counterweight linked to the float and intended to be submerged under the float, the float comprising a main structure (18), the shape of which is toroidal or polygonal with at least five sides, a central tubular structure (26) having a diameter suitable for receiving the wind turbine mast and comprising a section suitable for being ballasted in order to adjust the waterline of the float, a first series of horizontal struts (28) distributed around a vertical axis and linking the main structure to the central structure, and a second series of oblique struts (30) distributed around a vertical axis (Y-Y) and linking the main structure to the central structure, forming an angle of between 15° and 60° with the horizontal struts (28).



21: 2020/02588. 22: 2020/05/08. 43: 2022/07/14

51: A47B

71: RAFII, EDDIE

72: RAFII, EDDIE

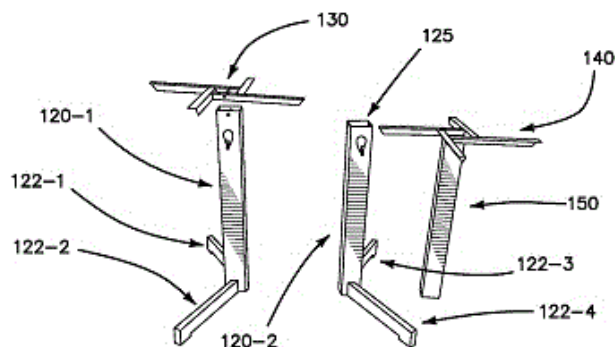
33: US 31: 15/782,640 32: 2017-10-12

54: SELF-STABILIZING SYSTEM AND METHOD FOR LONG TABLE

00: -

An integral system for stabilizing a long table on an uneven surface. One version includes two spaced supports with each of the supports comprising a vertical member. One horizontal platform attaches to an upper portion of one of the supports and an underside of the table top and a second horizontal platform affixed to a post and attached to the underside of the table top. The post is insertable into the vertical member of the other support and movably joined at a first end thereto such that the post may move side-to-side, in a rocking manner relative to the vertical member stabilizing the table. Another version includes a table having two spaced supports each with a horizontal member and a stabilizing member configured to slip over one

horizontal member and movably connect thereto. When attached, the stabilizing member may rock about the connection point with the horizontal member.



21: 2020/02695. 22: 2020/05/12. 43: 2022/07/21
51: F42B

71: BAE Systems Bofors AB

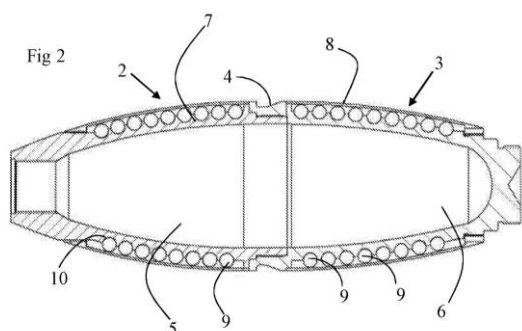
72: THUMAN, Christer, JOHANSSON, Björn,
TJERNSTRÖM, Peter

33: SE 31: 1700300-5 32: 2017-12-05

54: WARHEAD

00: -

A warhead (1) comprises an outer casing (8) and an inner shell (7), which delimits a central space (5,6) for an explosive substance. The inner shell (7) receives a series of preformed elements (9), which are arranged in contact with the outer side of the inner shell (7). The inner shell (7) is arranged for a controlled fragmentation upon a detonation of the explosive substance. The preformed elements (9) are arranged with a surface contact against the inner shell (7).



21: 2020/02730. 22: 2020/05/13. 43: 2022/07/14
51: A47J; A23G

71: CHANGHONG MEILING HOME APPLIANCES
TECHNOLOGY CO., LTD.

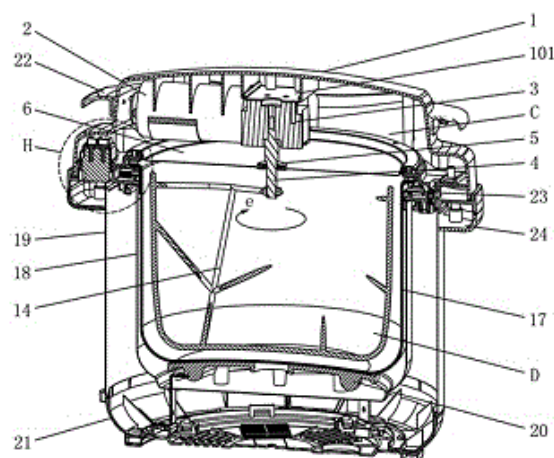
72: CHEN, ZHIYONG, MA, QINGBING

33: CN 31: 201911417980.4 32: 2019-12-31

54: COOKING MACHINE WITH HEATING AND STIRRING FUNCTION

00: -

A cooking machine with a heating and stirring function is provided, including a main body assembly and a top cover assembly. A cooking cavity is disposed in the main body assembly. The top cover assembly is configured for closing or opening the cooking cavity. The main body assembly and the top cover assembly are disposed separately. A stirring mechanism is disposed in the top cover assembly. The stirring mechanism includes a power output component and a stirrer, and an output end of the power output component is connected to the stirrer through transmission to drive the stirrer to rotate inside the cooking cavity. An electrical coupling component is disposed between the main body assembly and the top cover assembly, and the power output component is electrically connected to a power supply circuit in the main body assembly by using the electrical coupling component in a closed state. The stirrer includes a stirring frame and a stirring strip disposed on the stirring frame. A bent portion that protrudes along a stirring direction e is disposed on the stirring frame and/or the stirring strip. The stirring strip separates the inside of the stirring frame into several stirring areas. The cooking machine has a strong stirring force and reliable stirring performance, and therefore can prepare pizza-type food.



21: 2020/02741. 22: 2020/05/13. 43: 2022/07/21

51: B65B; B65G

71: MAF Agrobotic

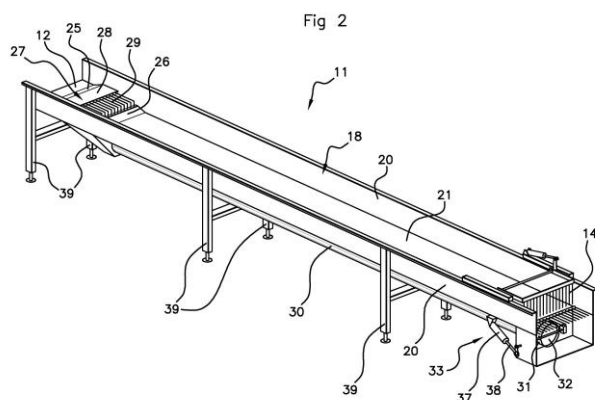
72: BLANC, Philippe

33: FR 31: 1760757 32: 2017-11-15

54: DEVICE FOR BATCHING FRUIT OR VEGETABLES, THE ACCUMULATION CANALS OF WHICH ARE PROVIDED WITH BYPASS PASSAGES

00: -

The invention relates to a device for batching at least semi-buoyant objects belonging to the fruit and vegetables category, the device comprising a plurality of accumulation canals (11), a hydraulic feed device for each accumulation canal (11), a device for feeding an upstream portion of each accumulation canal with objects, a collection canal downstream of each accumulation canal (11), and a device (14) for restraining/releasing objects in each accumulation canal. Each accumulation canal (11) comprises at least one hydraulic-stream bypass passage (30) extending from at least one bypass passage inlet (30) situated upstream of the restraining/releasing device (14) as far as at least one bypass passage outlet (30) opening downstream of the restraining/releasing device (14). A bypass valve (32) makes it possible to adjust the said proportion of the flow diverted into the bypass.



21: 2020/03594. 22: 2020/06/15. 43: 2022/07/19

51: B25J; B23Q; E05F; E06B

71: YASKAWA NORDIC AB

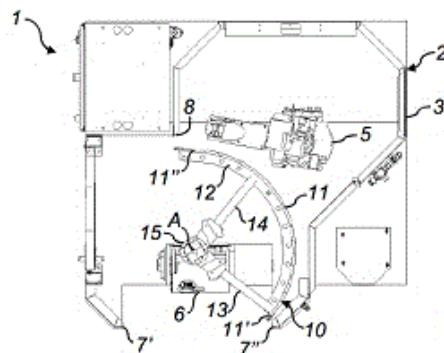
72: HALLENGREN, CARL-JOHAN

33: SE 31: 1850036-3 32: 2018-01-12

54: ROBOT CELL

00: -

The invention relates to a robot cell (1) comprising a protective casing (2), which surrounds a robot (5), and at least one station (6), which is served by the robot (5). A door assembly (10) is provided on the protective casing (2) in order to, in an open position, provide access to an access opening (7) through which the station (6) from the outside of the protective casing (2) can be served by an operator, and in order to, in a closed position, close the access opening (7). The door assembly (10) comprises a door leaf (11), which from the closed position of the door assembly (10) is movable aside along an arcuate path and into the protective casing (2), in which the door leaf (11) in the open position of the door assembly (10) closes a passageway (8) within the protective casing (2) between the robot (5) and the station (6), wherein the arcuate path follows a circular arc around a vertical geometric axis (A) through a central portion of the station (6).



21: 2020/03644. 22: 2020/06/17. 43: 2022/07/14

51: C12N

71: FARMHANNONG CO., LTD.

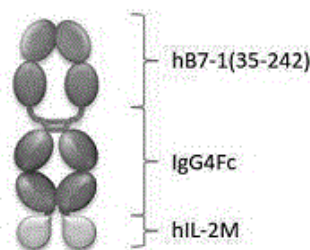
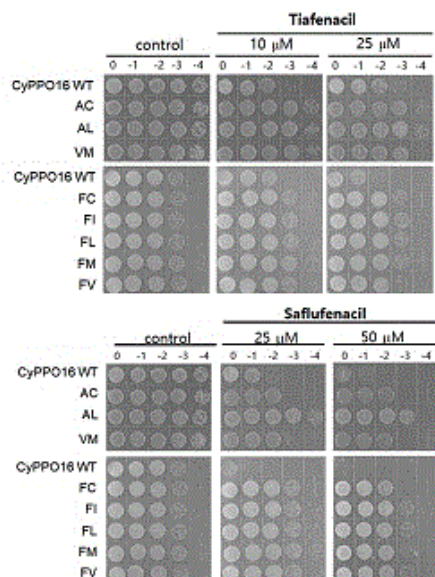
 72: SUNG, SOON-KEE, YOON, JOONSEON, PARK, JOONGHYUK, AHN, YOUNG OCK, WOO, JOO YONG, HONG, MYOUNG-KI, HAN, YUNJUNG
 33: KR 31: 10-2017-0173633 32: 2017-12-15

54: COMPOSITION AND METHOD FOR CONFERRING AND/OR ENHANCING HERBICIDE TOLERANCE USING VARIANTS OF PROTOPORPHYRIN GEN IX OXIDASE FROM CYANOBACTERIA

00: -

Provided is a technology for conferring enhanced tolerance and/or enhancing tolerance to a herbicide of a plant and/or algae by using amino acid variants of protoporphyrinogen IX oxidase derived from prokaryotes.

[FIG. 2]



21: 2020/03645. 22: 2020/06/17. 43: 2022/07/14

51: C07K; A61P; A61K

71: GI INNOVATION, INC.

72: JANG, MYUNG HO

33: KR 31: 10-2019-0053436 32: 2019-05-08

33: KR 31: 10-2018-0110698 32: 2018-09-17

33: US 31: 62/832,013 32: 2019-04-10

33: KR 31: 10-2019-0001867 32: 2019-01-07

54: FUSION PROTEIN COMPRISING IL-2 PROTEIN AND CD80 PROTEIN, AND USE THEREOF

00: -

The present invention provides a fusion protein comprising an IL-2 protein and a CD80 protein. A fusion protein comprising a CD80 fragment, an immunoglobulin Fc, and an IL-2 variant, in one embodiment, can activate immune cells, such as natural killer cells, and, at the same time, can control the immune cell regulatory activity of regulatory T cells. Therefore, a pharmaceutical composition comprising the fusion protein as an active ingredient can increase the immune activity in vivo and can be effectively used for not only cancer but also infectious diseases, and thus is highly industrially applicable.

21: 2020/03651. 22: 2020/06/17. 43: 2022/07/14

51: C07C

71: DOW TECHNOLOGY INVESTMENTS LLC

72: BIGI, MARINUS A, BRAMMER, MICHAEL A

33: US 31: 62/595,868 32: 2017-12-07

54: HYDROFORMYLATION PROCESS

00: -

The present invention relates to hydroformylation processes for producing aldehydes. In some embodiments, the process comprises contacting in a reaction zone reactants comprising an olefin, hydrogen and CO in the presence of a rhodium-organophosphite based catalyst, optionally with free organophosphite ligand, and 0.1 to 3 weight percent, based on the total weight of the fluid in the reaction zone, of certain polymers specified herein, such that the solubility of the polymer in the aldehyde is greater than or equal to 1 weight percent at 40°C.

21: 2020/03670. 22: 2020/06/18. 43: 2022/07/07

51: B29C; B32B; B65D; C08J; C08K; C08L

71: PENN COLOR, INC.

72: WIELOCH, Kelan, ELESWARAPU, Venumadhava, S., STAMBACK, Scott, WALSH, James, C., BIEMULLER, Fred

33: US 31: 62/611,713 32: 2017-12-29

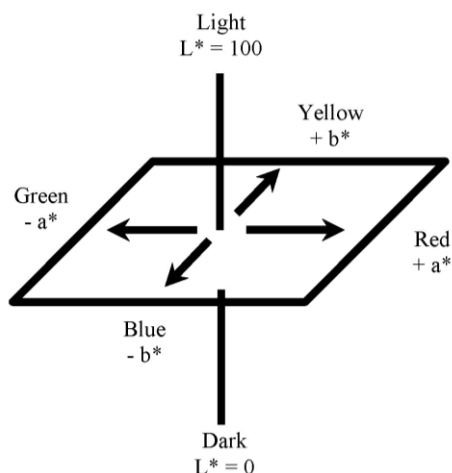
33: US 31: 62/764,783 32: 2018-08-16

54: POLYESTER PACKAGING MATERIAL

00: -

White goniochromatic packaging article. The package wall containing a composition useful for blocking light in the spectrum ranges from about 200 nm to about 1200 nm. The composition has polyester, polymethylpentene, and a light scattering pigment. The composition optionally includes at least one other colorant. Each of the polymethylpentene and the light scattering pigment comprise about 0.1 to about 0.5 weight percent of the wall. The polyester and polymethylpentene are immiscible and when subjected to orientation stresses the

composition produces a goniochromatic packaging article.



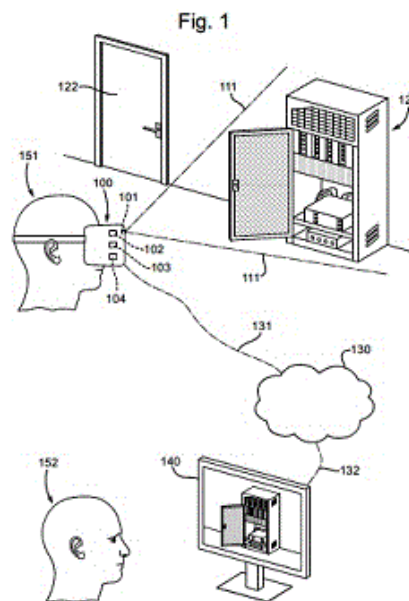
21: 2020/03826. 22: 2020/06/24. 43: 2022/07/07
51: C08L C08K
71: EVONIK OPERATIONS GMBH
72: KÖPFER, Alexander, RÖBEN, Caren, HASSE, Andre, FORSTER, Frank
33: DE 31: 10 2017 221 269.1 32: 2017-11-28
54: SILANE MIXTURES AND PROCESS FOR PREPARING SAME

00: -
The invention relates to silane mixtures which contain a silane of formula I $(R_1)y(R_2)3-ySi-R_3-(S-R_4)n-Sx-R_5$ (I), and a silane of formula II $(R_1)y(R_2)3-ySi-R_3-S-R_3-Si(R_1)y(R_2)3-y$ (II), the molar ratio of the silane of formula I to the silane of formula II being 15:85 to 90:10. The silane mixture according to the invention can be prepared by mixing the silanes of formula I with the silanes of formula II.

21: 2020/03994. 22: 2020/06/30. 43: 2022/07/18
51: G06F; G06T
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: JOSÉ ARAÚJO, VOLODYA GRANCHAROV, GUNILLA BERNDTSSON, ALVIN JUDE HARI HARAN
33: US 31: 62/649,106 32: 2018-03-28
54: HEAD-MOUNTED DISPLAY AND METHOD TO REDUCE VISUALLY INDUCED MOTION SICKNESS IN A CONNECTED REMOTE DISPLAY

00: -
A Head-Mounted Display (HMD) (100) is provided which comprises a camera (101) configured to

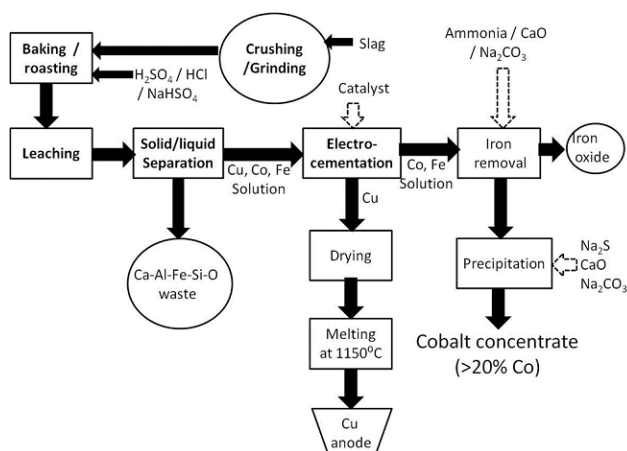
capture a video of a real-world scene with a first field-of-view (FoV) (111), a network interface circuit (102) configured to stream video to a receiving display device (140), and processing means (103) which is operative to generate a 3D model of the real-world scene, and to generate a video from the 3D model using a second FoV which is wider than the first FoV (111). The processing means (103) is further operative to estimate a motion of the camera (101), and to stream the generated video to the receiving display device (140) if the estimated motion of the camera (101) satisfies one or more conditions indicative of rapid motion, else stream the captured video to the receiving display device (140). Further provided are a method performed by an HMD, a corresponding computer program, and a corresponding computer-readable storage medium.



21: 2020/04244. 22: 2020/07/10. 43: 2022/06/29
51: C22B; C25C
71: ANGLO AFRICAN SERVICES LIMITED, THE COPPERBELT UNIVERSITY
72: HARA, Yotamu Stephen Rainford, MUSOWOYA, Mazwi Douglas, KALUBA, Golden, MACHONA, Jimmy, CHAMA, Peter
33: ZA 31: 2018/00172 32: 2018-01-10
54: PROCESS FOR THE RECOVERY OF COPPER AND COBALT FROM A MATERIAL SAMPLE

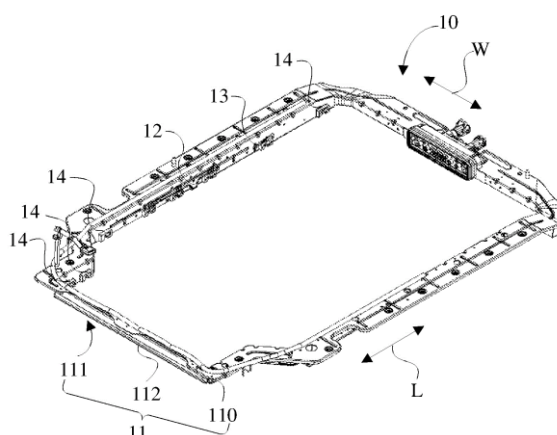
00: -
The invention provides a process for recovering copper (Cu) and cobalt (Co) from a copper-cobalt containing material sample, and which is adapted for

treating both low and high grades of copper–cobalt source material, such as Cu-Co slag, Cu-Co low grade ores, Cu-Co high grade ores / concentrates, Cu-Co tailings and Cu ores. The process is characterised therein that recovery is achieved through electro-cementation. It comprises the steps of (i) leaching the material sample in an acidic pH; (ii) separating waste material solids through solid/liquid separation to recover a solution containing copper, cobalt and iron (Fe); (iii) recovering copper from solution through electro-cementation such that copper is electro-cemented onto a mild steel plate anode and cathode, leaving a solution containing cobalt and iron; (iv) recovering iron from the solution through precipitation as iron oxide; and (v) recovering cobalt from the solution through precipitation



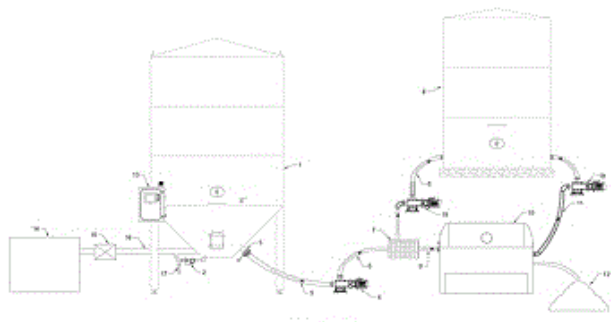
21: 2020/04455. 22: 2020/07/20. 43: 2022/07/07
 51: H01M
 71: SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP
 72: ZHANG, Jianping, HUANG, Chunhua, LAN, Zhibo
 33: CN 31: 201711482966.3 32: 2017-12-29
 33: CN 31: 201711486896.9 32: 2017-12-29
54: BATTERY HOLDER, POWER TRANSFER DEVICE, ELECTRIC VEHICLE AND INSTALLATION METHOD FOR ELECTRIC VEHICLE
 00: -
 rovided are a battery holder, a power transfer device, an electric vehicle and an installation method for electric vehicle. The battery holder is mounted on the body of the electric vehicle to fix the battery pack, the battery holder includes a fixing bracket, a

lock mechanism and a plurality of supporting devices, the lock mechanism is fixed on the fixing bracket, the supporting device is fixed on one side of the fixing bracket facing the battery pack, a plurality of supporting devices are used to provide a plurality of support points that support the battery pack. The electric vehicle includes the battery holder as described above. In the battery holder and the electric vehicle including the same of the present invention, the weight of the battery pack can be simultaneously distributed on the plurality of supporting devices and the lock mechanism, the force of the fixing bracket is more evenly, the force applied by the battery pack to the lock mechanism is reduced, the force concentration of the lock mechanism on the fixing bracket is prevented, the service life of the lock mechanism is improved, so as to improve safety performance, and improve the connection strength between the battery pack assembly and the battery holder.



21: 2020/04505. 22: 2020/07/21. 43: 2022/07/14
 51: C12G
 71: PRODUCTOS AGROVIN, S.A.
 72: MANZANERO FERNÁNDEZ, IRENE, INIESTA ORTIZ, JUAN ALBERTO, JURADO FUENTES, RICARDO
 33: ES 31: P201830475 32: 2018-05-18
54: METHOD FOR DEVATTING THE GRAPE HARVEST AND MEANS FOR DEVATTING A GRAPE HARVEST
 00: -
 The invention relates to a method for devatting the grape harvest and a means for devatting a grape harvest via the pressurised injection of air or other gases in a controlled manner into self-emptying wine making vats or similar, for the purpose of emptying

the grape harvest once the maceration thereof has been completed, after the homogenisation of the mixture, transferring the liquid portion to another tank and the crushed grape pulp to the press, thereby obtaining a solid phase (pomace) as a waste product which can be used to produce associated products.



21: 2020/04741. 22: 2020/07/30. 43: 2022/07/11

51: A01H

71: Arysta Lifescience Inc.

72: RAMAEKERS, Lara, LOPEZ, Maurillo Flores

33: US 31: 15/877,522 32: 2018-01-23

54: METHOD OF CONTROLLING ANTHRACNOSE ON TROPICAL FRUIT PLANTS

00: -

A method of controlling anthracnose caused by Colletotrichum on tropical fruits, tropical fruit plants or cultivars or plant parts or locus thereof is described. The method comprises the steps of contacting the tropical fruit plant or cultivar in need of treatment with an agrochemical composition comprising an effective amount of a guanidine or a salt and/or solvate thereof. The contacting step may be repeated one or more times at a fixed interval. The guanidine may be dodine, iminoctadine triacetic acid, iminoctadine triacetate, guazatine, salts and/or solvates of any of the foregoing and combinations of one or more of the foregoing.

21: 2020/04877. 22: 2020/08/06. 43: 2021/06/28

51: E21D

71: HOLFELD, Barry Graeme

72: HOLFELD, Barry Graeme

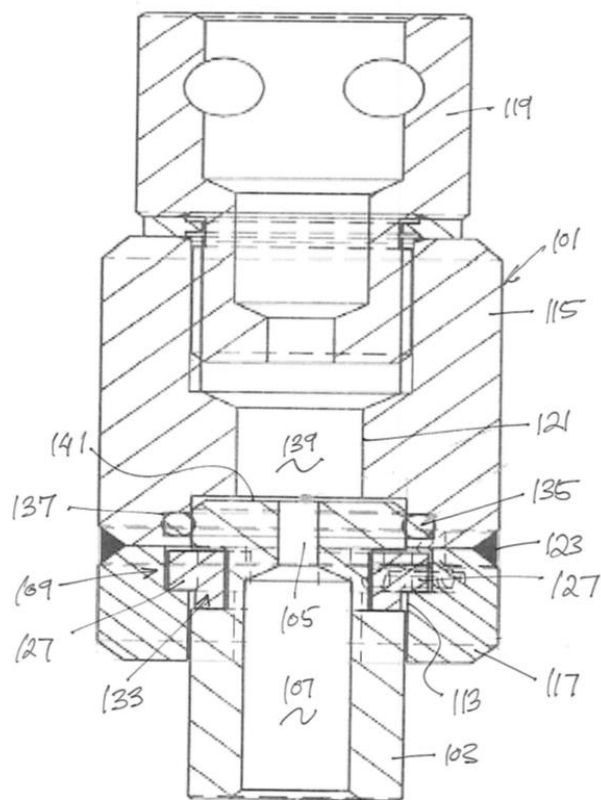
33: ZA 31: 2019/05177 32: 2019-08-06

54: A CONNECTION FOR CHARGING AN INFLATABLE DEVICE

00: -

The invention relates to a pressurised fluid coupler and inlet spigot for charging an inflatable device. The

coupler has a body providing a socket locatable over the inlet spigot. Engaging formations include a release component configured to deform and release the coupler when subjected to a predetermined load. A seal formation is arranged to provide a pressure chamber between the coupler and the inlet spigot with a working area on an outer face around an opening of the inlet spigot and the release component deforms when a pressure sufficient to cause the predetermined load is attained within the pressure chamber.



21: 2020/05350. 22: 2020/08/27. 43: 2022/07/21

51: G01N

71: China University of Mining and Technology

72: HUANG, Yanli, ZHAI, Wen, DONG, Jihong, HAN, Zhen, ZHANG, Jixiong, LI, Junmeng, GAO, Huadong, SONG, Tianqi, KONG, Guoqiang, WANG, Fengwan

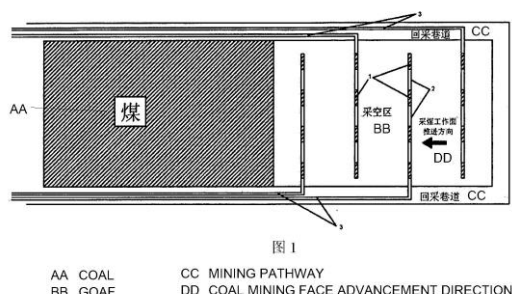
33: CN 31: 201810109458.9 32: 2018-02-05

54: COAL GANGUE FILLING COAL MINE GOAF HEAVY METAL ION DETECTION AND SAMPLING SYSTEM

00: -

A coal gangue filling coal mine goaf heavy metal ion detection and sampling system, composed of

several collection apparatuses (1), and sampling tubes (3) equal in number to the collection apparatuses. The collection apparatuses (1) are arranged in rows at set intervals, and equally divided into several longitudinal channels (7) by water separation plates (4), wherein one longitudinal channel (7) is provided with a water-permeable opening (6). The collection apparatuses (1) in each row are sequentially connected by connection tubes (2), various communication channels are formed within tube bodies, and the water-permeable openings (6) of the collection apparatuses (1) are respectively located on different communication channels. The various sampling tubes (3) are respectively connected to the collection apparatuses (1) and the connection tubes at end portions of the communication channels to form transport pipelines, and the sampling tubes (3) are arranged within a mining area connecting pathway and connected to a water pump outside a goaf. The system respectively extracts accumulated mine water from designated positions in the goaf for storage, determines heavy metal ion concentrations in goaf coal gangue filling body soaking solutions, gives a true reflection of distribution states of heavy metal ions within the goaf, and provides a sampling means for further analysing goaf heavy metal contamination.



21: 2020/05374. 22: 2020/08/28. 43: 2022/07/07
51: B01J
71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.
72: STOBBE, Erwin, Roderick, MEEUWISSEN, Jurjen
33: EP 31: 18162936.1 32: 2018-03-20
54: PREPARATION OF A COBALT-CONTAINING CATALYST

00: -
The present invention is directed to the preparation of a cobalt containing catalyst, a precipitate as an

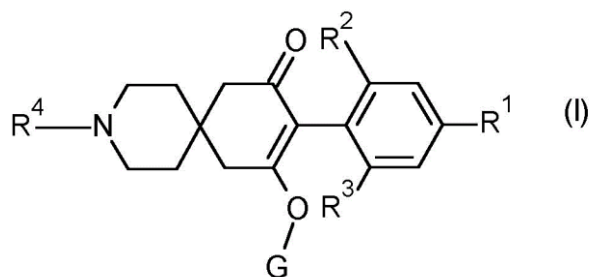
intermediate product, a Fischer-Tropsch catalyst and a process for producing normally gaseous, normally liquid and optionally normally solid hydrocarbons from synthesis gas. The precipitate and catalyst comprise crystalline $\text{Co}(\text{OH})(\text{CO}_3)_{0.5}$, the crystals are needle shaped and have a surface area of at least 80 m²/g dry precipitate.

21: 2020/05385. 22: 2020/08/28. 43: 2022/07/21
51: C07K
71: Eli Lilly and Company
72: GONCIARZ, Malgorzata Donata, OBUNGU, Victor H., PICKARD, Richard Todd
33: US 31: 62/653,759 32: 2018-04-06
54: GROWTH DIFFERENTIATION FACTOR 15 AGONIST COMPOUNDS AND METHODS OF USING THE SAME

00: -
Compounds are provided herein that induce weight loss and that treat diabetes, dyslipidemia, NASH and/or obesity. Also provided are pharmaceutical compositions containing such compounds and therapeutic uses of such compounds and compositions, where such compounds act as GDF15 agonists with extended time of action and other advantageous properties.

21: 2020/05480. 22: 2020/09/02. 43: 2022/07/21
51: A01N; C07D
71: Syngenta Participations AG
72: HENNESSY, Alan Joseph, JONES, Elizabeth Pearl, HACHISU, Shuji, WILLETTS, Nigel James, DALE, Suzanna, GREGORY, Alexander William, HOULSBY, Ian Thomas Timmouth, BHONOA, Yunas, COMAS-BARCELO, Julia
33: GB 31: 1804002.2 32: 2018-03-13
54: SPIRO CYCLOHEXANEDIONE DERIVATES AS HERBICIDES

00: -
The present invention relates to compounds of Formula (I), wherein R¹, R², R³, R⁴ and G are as defined herein. The invention further relates to herbicidal compositions which comprise a compound of Formula (I), to their use for controlling weeds, in particular in crops of useful plants.



21: 2020/05551. 22: 2020/09/08. 43: 2022/07/22

51: G06Q; G07F

71: GROBER TECHNOLOGY (PTY) LTD.

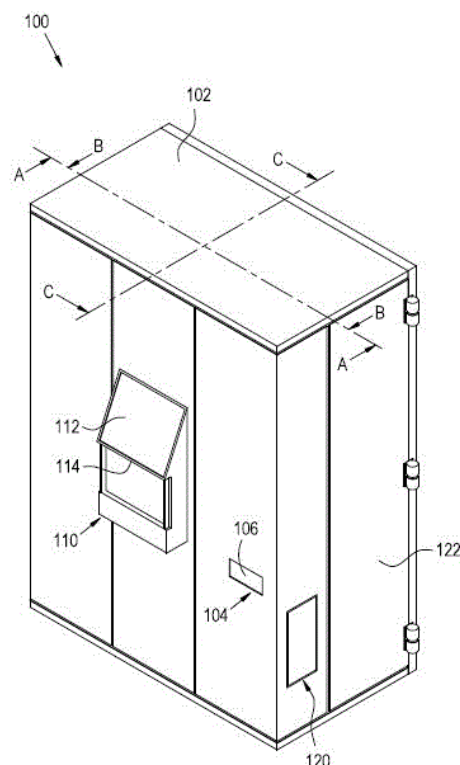
72: GROVé, Pieter Wynand, GERBER, Paul Johannes

33: ZA 31: 2019/03686 32: 2019-06-10

54: A DISPENSING APPARATUS FOR DISPENSING VALUABLE ARTICLES

00: -

A dispensing apparatus is for dispensing valuable articles and includes a strong, reinforced outer enclosure defining an inner cavity, a dispensing opening in communication with the inner cavity. A charging opening is defined in a wall of the outer enclosure configured to receive a charging cartridge containing valuable articles. A racking system inside the outer enclosure is configured to locate and accommodate the valuable articles. A handling arrangement comprises an article handler configured to transport the valuable articles from the charging cartridge to the racking system and from the racking system to the dispensing opening. A control module is configured to open the closure member in response to an authorised charging cartridge being received in the charging opening and to actuate the handling arrangement to transport the valuable articles from the charging cartridge and to dispense a specified valuable article in response to a dispense command.



21: 2020/05699. 22: 2020/09/14. 43: 2022/07/14

51: A61Q; A61K

71: UNILEVER GLOBAL IP LIMITED

72: PERUMAL, RAJKUMAR, VAIDYA, ASHISH ANANT

33: EP 31: 18168640.3 32: 2018-04-23

54: A SUNSCREEN COMPOSITION

00: -

The present invention relates to a sunscreen composition. Particularly, the sunscreen composition relates to providing improved ultraviolet A protection factor (UVAPF). The composition comprises UVA organic sunscreen, 2-ethylhexyl 2-cyano-3,3-diphenylacrylate, a compound selected from resorcinol, phenylethyl resorcinol, 4-alkyl substituted resorcinol and mixtures thereof, fatty acid and soap.

21: 2020/06087. 22: 2020/10/01. 43: 2022/09/05

51: C22B

71: CHINA ENFI ENGINEERING CORPORATION

72: Jun LI, Shuyan YIN, Kuiting WANG, Ninglei SUN, Guo LIU, Jianhua PENG, Jianghong DAI, Jianguo FU, Yeda LU

33: CN 31: 201911031447.4 32: 2019-10-28

33: CN 31: 201911032522.9 32: 2019-10-28

33: CN 31: 201911032510.6 32: 2019-10-28

33: CN 31: 201911031448.9 32: 2019-10-28

54: METHOD FOR TREATING METAL-CONTAINING SOLUTION

00: -

The present disclosure provides a method for treating a metal-containing solution, in which the metal is selected from nickel, cobalt, zinc or copper, and the metal-containing solution comprises a metal sulfate. The method includes: (1) mixing the metal-containing solution with lime cream to obtain a liquid-solid mixture; (2) performing a thickening treatment on the liquid-solid mixture to obtain an overflow containing a metal hydroxide precipitate and an underflow containing calcium sulfate; and (3) filtering the overflow containing the metal hydroxide precipitate to obtain the metal hydroxide and a filtrate.

21: 2020/06135. 22: 2020/10/02. 43: 2022/07/14

51: B44D; A47G

71: GESPLAN GESTION CONSEIL, INC.

72: ROY, FRANCOIS

33: US 31: 62/681,010 32: 2018-06-05

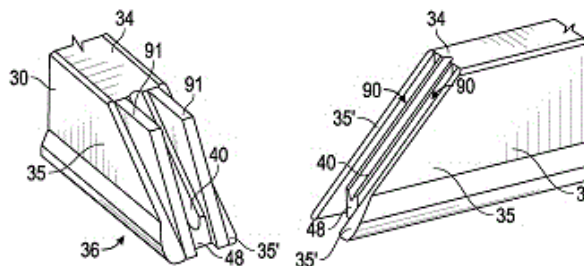
33: US 31: 62/750,793 32: 2018-10-25

33: US 31: 62/638,084 32: 2018-03-03

54: DEVICE FOR TENSIONING A CANVAS ON A FRAME

00: -

A device for stretching a canvas mounted to a frame comprises a spacer and a screw. The frame has a plurality of side members each mutually abutting at angled ends. A first portion of the spacer includes a central aperture therethrough and two opposing ends or sides. Each end of the first portion is sized to engage a contact surface of each side member. The screw has a threaded shaft adapted for rotational engagement with the central aperture of the first portion of the spacer. The threaded shaft terminates at a first end thereof with a screw head that has a frustoconical side wall and an end surface that includes a tool-engaging recess. Rotating the screw to move the screw head closer to the spacer causes the spacer to push the side members mutually away from each other to stretch the canvas.



21: 2020/06264. 22: 2020/10/08. 43: 2022/06/29

51: A61K; C07K

71: DR. REDDY'S LABORATORIES LIMITED

72: JAYARAMAN, Murali, CHANDRASEKAR, Anuja

33: IN 31: 201841013647 32: 2018-04-10

54: STABLE FORMULATIONS OF THERAPEUTIC ANTIBODY

00: -

The present invention discloses a stable pharmaceutical formulation of an antibody, wherein the formulation contains buffer, surfactant and sugar, and wherein the formulation is devoid of free amino acids and salts.

21: 2020/06336. 22: 2020/10/13. 43: 2022/07/14

51: E21B

71: EPIROC ROCK DRILLS AKTIEBOLAG

72: SJÖHOLM, OSKAR, ANDERSSON, FREDRIK

A, KUMLIN, PER-ANDERS, ALMQVIST, MARCUS

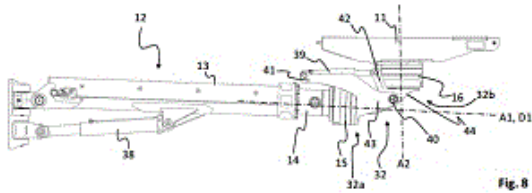
33: SE 31: 1751089-2 32: 2017-09-08

54: MINING OR CONSTRUCTION VEHICLE

00: -

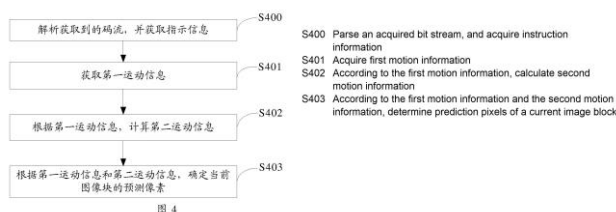
A mining or construction vehicle (10) comprising a boom (12) extending in a first direction (D1), which boom (12), via a first and a second rotation device (15,16), is connected to a mining or construction device arranged on a mounting device (11) arranged in connection to a free end of said boom (12), the first rotation device (15) being arranged to provide a rotation around a first axis (A1) that is substantially parallel to the first direction (D1), the second rotation device (16) being arranged to provide a rotation around a second axis (A2) that is arranged at an angle with respect to the first axis (A1), wherein an angle unit (32) with a pivot point (40) is arranged between said first and second rotation devices (15,16) to provide an angular movement of said second axis (A2) of said second rotation device (16) with respect to said first axis (A1) of said first rotation device (15), wherein the boom (12) is an extendable

boom comprising a first (13) and a second (14) telescopic section, and wherein the first rotation device (15) is arranged at the outer end of the second telescopic section (14) of the boom (12).



21: 2020/06408. 22: 2020/10/15. 43: 2022/07/07
51: H04N
71: Huawei Technologies Co., Ltd.
72: CHEN, Huanbang, YANG, Haitao, CHEN, Jianle
33: CN 31: 201810274457.X 32: 2018-03-29
54: BIDIRECTIONAL INTER PREDICTION METHOD AND APPARATUS

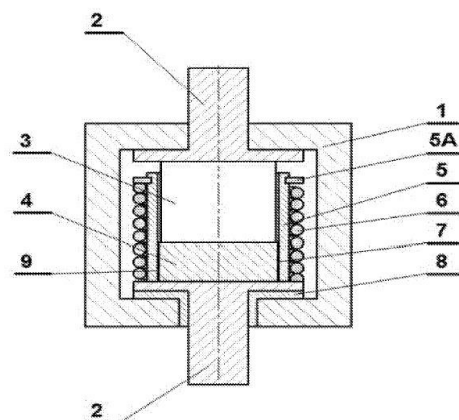
00: -
The embodiments of the present application disclose a bidirectional inter-frame prediction method and a device, relating to the technical field of video image encoding and decoding, and improving the encoding and decoding efficiency. Said method comprises: acquiring instruction information, the instruction information being used for instructing the determination of second motion information according to first motion information, the first motion information being motion information of a current image block in a first direction, and the second motion information being motion information of the current image block in a second direction; acquiring the first motion information; according to the first motion information, determining the second motion information; and according to the first motion information and the second motion information, determining prediction pixels of the current image block.



21: 2020/06537. 22: 2020/10/21. 43: 2022/09/05

51: H01C; H01H; H01T
71: SALTEK S.R.O.
72: Jaromir SUCHY
33: IB 31: PCT/IB2018/053354 32: 2018-05-14
54: VOLTAGE LIMITER WITH A SHORT-CIRCUITING DEVICE

00: -
The limiter comprises a cylinder-shaped housing (1) with an inner cavity, provided with terminals (2) on the opposing sides leading out of the housing (1) and electrically connected to the protection element (3). The short-circuiting device consists of fixed and movable parts. The fixed part of the short-circuiting device features a cylinder-shaped electrically-conductive contact (4), situated in the cavity of the housing (1). One surface of the contact (4) adjoins one terminal (2) and its second surface leans against one surface of the protection element (3). The second surface of the protection element (3) contacts the second terminal (2). A moving part is slipped over the contact (4) with the moving part consisting of an electrically-conductive short-circuiting element (5), which is connected on the contact surface (9) via a fusible element (7) to the contact (4). The short-circuiting element (5) is provided with a stopper (5A) at its upper end, against which a pre-stressed spring (6) slipped over the short-circuiting element (5) leans with its upper end. The spring (6) loads the terminal (2) with its bottom end. The short-circuiting element (5) is geometrically adjusted to bridge the distance between the short-circuiting element (5) and the terminal (2) in case of thermal or surge current overload.



21: 2020/06671. 22: 2020/10/27. 43: 2022/07/14

51: E02F

71: CATERPILLAR INC.

72: SERRURIER, DOUGLAS, SINN, ERIC, BALAN, MIHAI MIRCEA, JURA, JASON

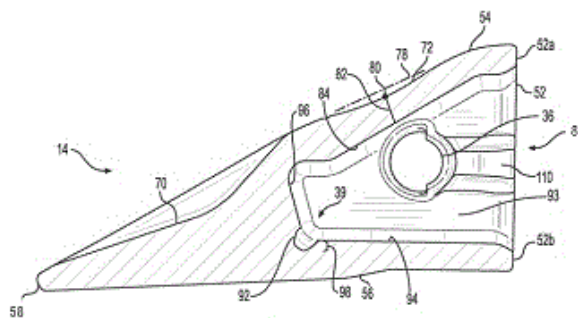
33: US 31: 15/782,877 32: 2017-10-13

33: US 31: 62/434,625 32: 2016-12-15

54: IMPLEMENT TIP ASSEMBLY HAVING TIP WITH WEAR INDICATOR

00: -

A ground engaging tip (14) of a tip assembly (10) for a base edge (8) of a ground engaging implement (1) has an adapter (12) configured for attachment to the base edge of implement and having a forwardly extending adapter nose (20). The ground engaging tip has a rear edge (52), a top outer surface (54), and a bottom outer surface (56). The top outer surface and the bottom outer surface extend forward from the rear edge of the ground engaging tip and converge at a front edge (58) of the ground engaging tip. The ground engaging tip also has a nose cavity (38), within the ground engaging tip and defined between the converging top and bottom outer surfaces of the ground engaging tip, for receiving the adapter nose therein. The nose cavity includes a wear indicator (92) extending from an inner surface of the nose cavity (84, 94, 96), into the ground engaging tip, toward the bottom outer surface of the ground engaging tip.



21: 2020/06672. 22: 2020/10/27. 43: 2022/07/14

51: E02F

71: CATERPILLAR INC.

72: SERRURIER, DOUGLAS, SINN, ERIC, BALAN, MIHAI MIRCEA, JURA, JASON

33: US 31: 15/782,878 32: 2017-10-13

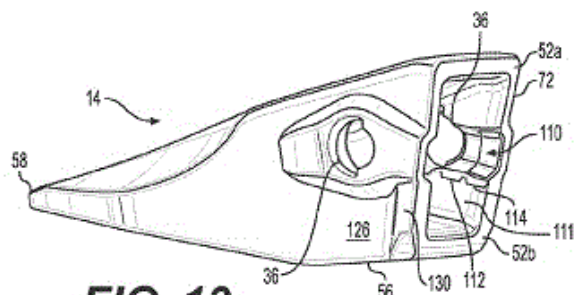
33: US 31: 62/434,641 32: 2016-12-15

54: IMPLEMENT TIP ASSEMBLY HAVING TIP WITH SUPPORT RIB

00: -

A ground engaging tip (14) of a ground engaging tip assembly (10) includes an adapter (12) configured

for attachment to the base edge of the implement and having a forwardly extending adapter nose (20). The ground engaging tip has a rear edge (52), a top outer surface (54), and a bottom outer surface (56). The top and bottom outer surfaces extend forward from the rear edge and converge at a front edge (58) of the ground engaging tip. The tip has first and second side outer surfaces (57, 59) extending forward from the rear edge of the ground engaging tip to the front edge. The tip has a nose cavity (38) for receiving the adapter nose therein. The tip has a support rib (130) on at least one of the first or second side outer surfaces, the support rib being positioned at the rear edge and extending lengthwise from the bottom outer surface toward the top outer surface.



21: 2020/06675. 22: 2020/10/27. 43: 2022/07/07

51: A61K; C07K

71: UNIVERSITY COLLEGE CARDIFF CONSULTANTS LTD

72: SEWELL, Andrew, DOLTON, Garry

33: GB 31: 1810358.0 32: 2018-06-25

54: CANCER-SPECIFIC T-CELL RECEPTORS

00: -

The present disclosure relates to a new anti-cancer peptide; a vector encoding same; a pharmaceutical composition or immunogenic agent or bispecific or vaccine comprising said anti-cancer peptide; use of said anti-cancer peptide, vector, pharmaceutical composition, immunogenic agent, bispecific or vaccine to treat cancer; a method of treating cancer using said anti-cancer peptide, vector, pharmaceutical composition, immunogenic agent, bispecific or vaccine; and a combination therapeutic for the treatment of cancer comprising said anti-cancer peptide, vector, pharmaceutical composition, immunogenic agent, bispecific or vaccine.

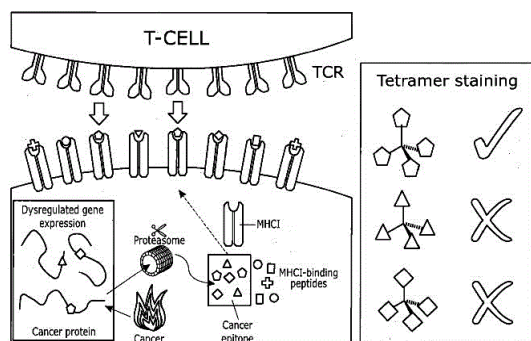


Figure 13A Normal Cancer-specific T-cell (recognizes one cancer peptide)

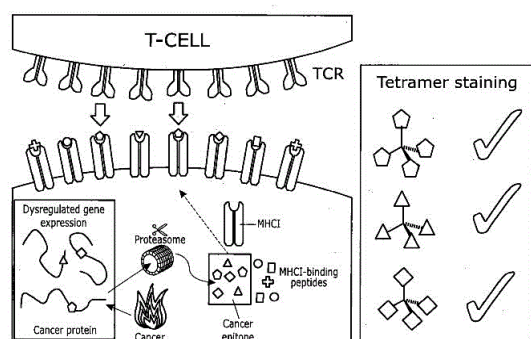


Figure 13B Multipronged Cancer-specific T-cell (recognizes more than one cancer peptide)

21: 2020/07211. 22: 2020/11/19. 43: 2022/07/28
51: E04B; E04F

71: CENTRAL UNIVERSITY OF TECHNOLOGY,
FREE STATE

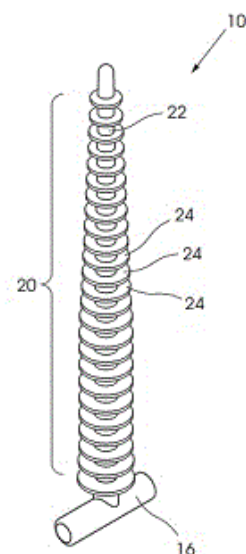
72: SONNEKUS, ANDRE

33: ZA 31: 2019/07634 32: 2019-11-19

**54: ANCHOR FOR A CEILING STRIP AND
SYSTEM INCLUDING THE SAME**

00: -

This invention relates to an anchor for connecting a retaining element used in retaining a construction component relative to a support structure. The anchor has a coupling body configured operatively to interlock with an attachment formation of the retaining element in snap-fit manner. The anchor further has a fixing body extending from the coupling body. The fixing body allowing the anchor to be fixed to the support structure.



21: 2020/07491. 22: 2020/12/01. 43: 2022/07/07
51: A61K; C07K

71: DR. REDDY'S LABORATORIES LTD.

72: JAYARAMAN, Murali, KANAKADURGA M,
Lakshmi

33: IN 31: 201841019605 32: 2018-05-25

54: STABLE FUSION PROTEIN FORMULATION

00: -

The present invention discloses a stable pharmaceutical formulation of a fusion protein, wherein the formulation contains buffer, sugar, amino acid and surfactant, and optionally includes salts. The disclosed fusion protein formulations are liquid formulations that are also suitable for lyophilization.

21: 2020/07492. 22: 2020/12/01. 43: 2022/07/07
51: A61K; C07K

71: DR. REDDY'S LABORATORIES LTD.

72: JAYARAMAN, Murali, KANAKADURGA M,
Lakshmi

33: IN 31: 201841019606 32: 2018-05-25

54: CTLA4-IG FUSION PROTEIN FORMULATION

00: -

The present invention discloses a stable pharmaceutical formulation of a fusion protein, wherein the formulation contains buffer, sugar alcohol/polyol, amino acid and surfactant, and wherein the formulation is devoid of sucrose. Additionally, the formulation may also be devoid of a salt. The disclosed fusion protein formulations are liquid formulations that are also suitable for lyophilization.

21: 2021/00055. 22: 2021/01/05. 43: 2022/08/05
51: H04N

71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

72: KIM, Ki Baek

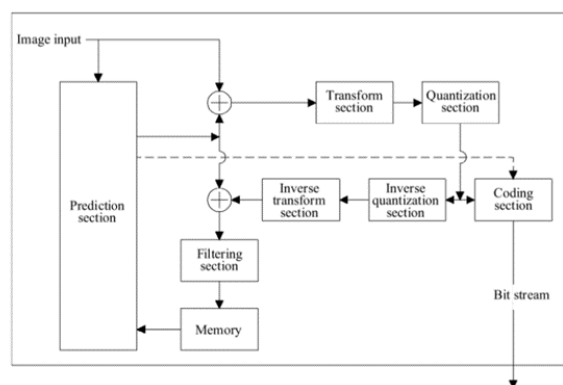
33: KR 31: 10-2018-0072558 32: 2018-06-25

33: KR 31: 10-2018-0076783 32: 2018-07-02

54: INTRA-FRAME PREDICTION METHOD AND DEVICE

00: -

An intra-frame prediction method and device, according to the present invention, enables deriving an intra-frame prediction mode of a current block, determining a pixel line, among a plurality of pixel lines, for the intra-frame prediction of the current block, and carrying out the intra-frame prediction of the current block on the basis of the intra-frame prediction mode and the pixel line. In addition, a first reference pixel of the determined pixel line may be selectively filtered, and a prediction pixel of the current block may be selectively corrected, and thus the accuracy of the intra-frame prediction may be improved.



21: 2021/00196. 22: 2021/01/12. 43: 2022/06/29

51: A61K; A61P; C07D

71: Pfizer Inc.

72: ARORA, Kapildev Kashmirilal, DEFOREST, Jacob Cole, HILLS, Andrew Kevern, JONES, Brian Patrick, JONES, Kris Nicole, LEWIS, Chad Arthur, RANE, Anil Mahadeo

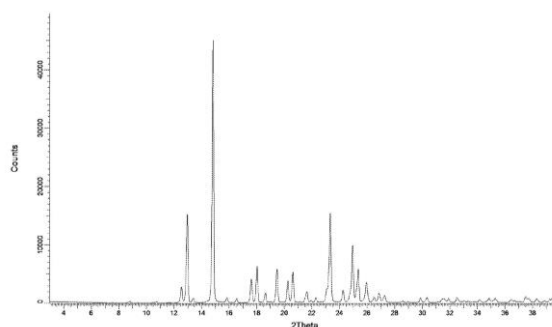
33: US 31: 62/694,698 32: 2018-07-06

54: MANUFACTURING PROCESS AND INTERMEDIATES FOR A PYRROLO[2,3-D]PYRIMIDINE COMPOUND AND USE THEREOF

00: -

The present invention relates to a manufacturing process and intermediates for preparing a crystalline

or non-crystalline form of N-((1S,3S)-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)cyclobutyl)propane-1-sulfonamide. The present invention also relates to salt forms and pharmaceutical compositions comprising the crystalline form, and to methods for use of the compound prepared from a crystalline form in the treatment of various diseases.



21: 2021/00224. 22: 2021/01/13. 43: 2022/06/29

51: B01J

71: HERAEUS DEUTSCHLAND GMBH & CO. KG, HERAEUS PRECIOUS METAL TECHNOLOGY (CHINA) CO., LTD.

72: ZHANG, Bin, HU, Zhengquan, FAN, Cunfei, LI, Wengang, LIU, Gangfeng, MOCK, Christian, BAUER-SIEBENLIST, Bernhard

54: PRECIOUS METAL CATALYST BRIQUETTES, PROCESS FOR THE MANUFACTURE AND FOR THE INCINERATION THEREOF

00: -

A process for the incineration of precious metal catalyst briquettes, wherein the precious metal catalyst briquettes comprise precious metal catalyst, optionally water, and, also optionally, binder.

21: 2021/00243. 22: 2021/01/13. 43: 2022/08/15

51: G06K; G07C; G08G

71: MABOGO, Mbavhalelo

72: MABOGO, Mbavhalelo

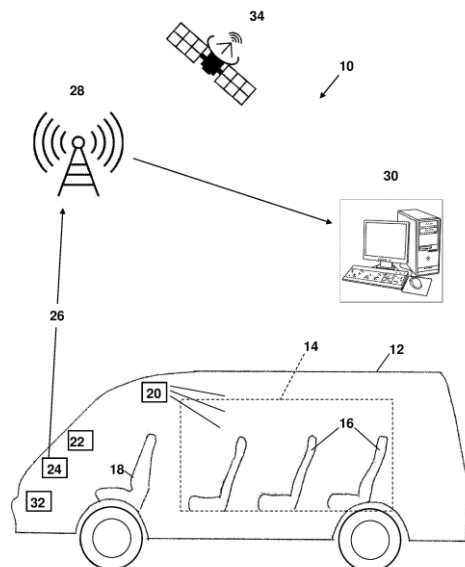
33: ZA 31: 2018/01699 32: 2018-03-13

54: MONITORING PASSENGER VEHICLE USAGE

00: -

Usage of a passenger vehicle (12) is monitored by tracking movement of the vehicle (12) and compiling occupancy data (26) relating to the number of passengers in a vehicle. The occupancy data (26) is compiled by capturing digital images of a passenger area (14) of the vehicle (12) and processing the digital images to determine a number of passengers

shown in the images. The occupancy data (26) is transmitted to a remote device (30) and movement of the vehicle (12) is collated with the numbers of passengers in the vehicle (12) over time.



21: 2021/00282. 22: 2021/01/14. 43: 2022/06/29
51: C03B

71: Saint-Gobain Glass France

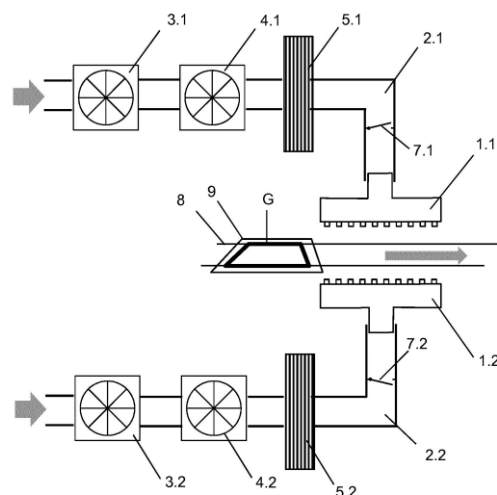
72: ZEICHNER, Achim, PENNERS, Jack

33: EP(FR) 31: 18194383.8 32: 2018-09-14

54: DEVICE AND METHOD FOR THERMALLY TEMPERING GLASS PANES WITH HEAT EXCHANGER

00: -

The present invention relates to a device for thermally tempering glass panes, comprising - a first blowing box (1.1) and a second blowing box (1.2) which are arranged opposite one another and are suitable to subject the surfaces of a glass pane (G), which is arranged between them, to a gas flow, - gas supplies (2.1, 2.2) which are respectively connected to the first blowing box (1.1) and the second blowing box (1.2), the gas supplies (2.1, 2.2) being equipped with an evaporation cooler (5).



21: 2021/00383. 22: 2021/01/19. 43: 2022/06/29

51: G07D

71: JAPAN CASH MACHINE CO., LTD.

72: YASUTAKA, Hirokazu

33: JP 31: 2018-123018 32: 2018-06-28

54: PAPER SHEET STORAGE DEVICE AND PAPER SHEET PROCESSING DEVICE

00: -

The present invention makes it possible to determine whether a circulation-type paper sheet storage device needs maintenance and to perform maintenance on the circulation-type paper sheet storage device in the same place. A paper sheet storage device that is to be installed in a paper sheet processing device that has a storage function for receiving paper sheets that are conveyed thereto and storing the paper sheets in the paper sheet storage device and/or a dispensation function for dispensing paper sheets that are stored in the paper sheet storage device. The paper sheet storage device is characterized by comprising a storage unit that stores specific information that is updated in accordance with storage or dispensation of paper sheets.

FIG.5(a)

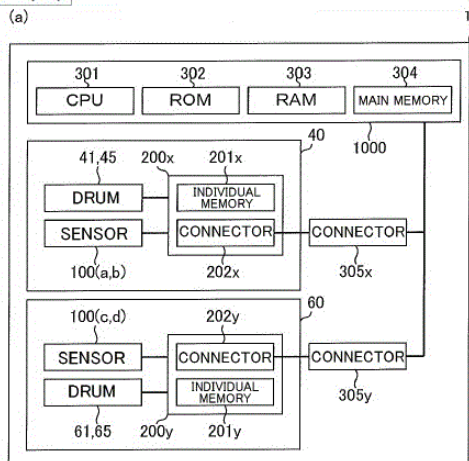
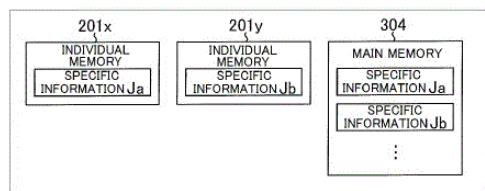


FIG.5(b)



21: 2021/00468. 22: 2021/01/22. 43: 2022/06/29
51: H04W

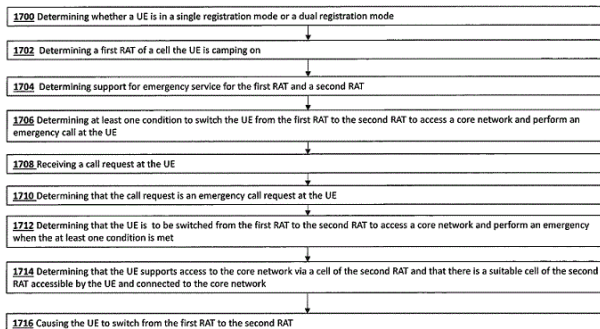
71: NOKIA TECHNOLOGIES OY

72: WON, Sung, Hwan

54: APPARATUS, METHOD AND COMPUTER PROGRAM FOR EMERGENCY CALL

00: -

An apparatus comprising: at least one processor; and at least one memory including computer program code; the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus at least to: determine that a user equipment is to switch from using a first radio access technology to using a second radio access technology to perform an emergency call; determine that the user equipment supports access to a core network via a cell of the second radio access technology; and cause the user equipment to switch from using the first radio access technology to the second radio access technology.



21: 2021/00479. 22: 2021/01/22. 43: 2022/06/29

51: C09K

71: Nouryon Chemicals International B.V.

72: VAN LARE, Cornelis Elizabeth Johannus, LEON
MATHEUS, Maria Antonieta, SCHUTTE, Jannes,
KOOIJMAN, Cornelis

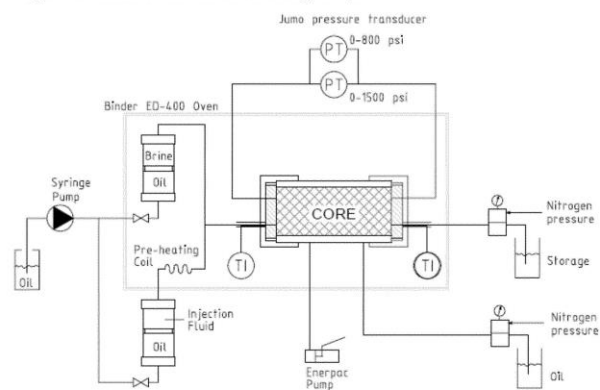
33: EP(NL) 31: 18179849.7 32: 2018-06-26

54: SALT OF MONOCHLOROACETIC ACID WITH CHELATING AGENT FOR DELAYED ACIDIFICATION IN THE OIL FIELD INDUSTRY

00: -

The disclosure is directed to a process for treating a subterranean earth formation by introducing a monovalent salt of monochloroacetic acid into said subterranean earth formation in the presence of a chelating agent which comprises at least one carboxylate group having a monovalent counterion and furthermore comprises a carbon chain carrying at least five hydroxyl groups. Preferably the cation of the monovalent salt of monochloroacetic acid is sodium.

Figure 1: Schematic view of core flooding set-up.



21: 2021/00519. 22: 2021/01/25. 43: 2022/06/29

51: B07B

71: FLSmidth A/S

72: RODRIGUEZ, Vicente Oliver

33: US 31: 62/693,131 32: 2018-07-02

54: PROTECTIVE COVER FOR TROMMEL FRAME

00: -

A protective cover (10) for removably affixing to a trommel frame section (1) of a trommel device may be configured to protect portions of the trommel frame section (1) from abrasion and wear from 5 screened material (30) being processed by the trommel device. The protective cover (10) may comprise a body (19); fixation members (11) extending from the body (19); one or more locking features (15) provided to the fixation members (11) for securing the body (19) to the trommel frame section (1); and, an opening (17) provided between the 10 fixation members (11). A trommel device or trommel frame section (1).

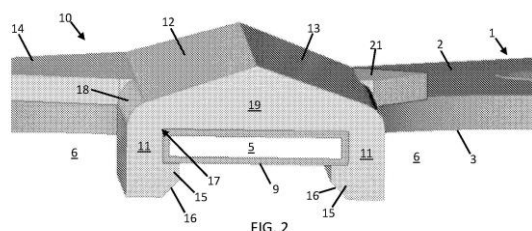


FIG. 2

21: 2021/00526. 22: 2021/01/25. 43: 2022/07/06

51: G06T

71: QILU UNIVERSITY OF TECHNOLOGY

72: LIANG, HU, ZHAO, SHENGRONG, DONG, XIANGJUN

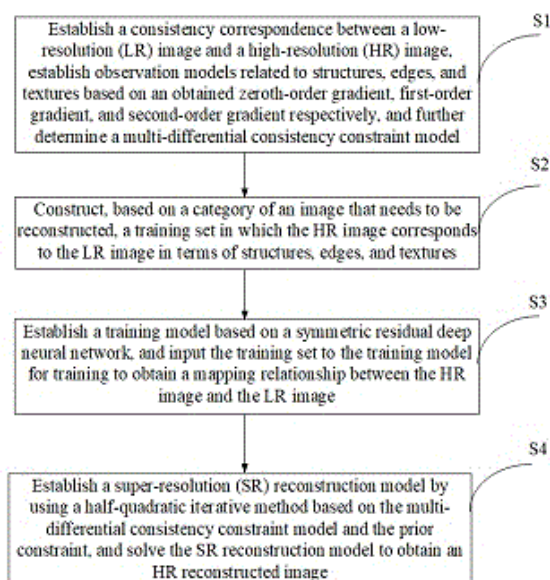
33: CN 31: 201910728888.3 32: 2019-08-08

54: SINGLE-FRAME IMAGE SUPER-RESOLUTION RECONSTRUCTION METHOD

00: -

The present disclosure discloses a single-frame image super-resolution (SR) reconstruction method. The method includes: establishing a consistency correspondence between a low-resolution (LR) image and a high-resolution (HR) image, establishing observation models related to structures, edges, and textures based on an obtained zeroth-order gradient, first-order gradient, and second-order gradient respectively, and further determining a multi-differential consistency constraint model; constructing a training set in which the HR image corresponds to the LR image in terms of structures, edges, and textures; establishing a training model based on a symmetric residual deep neural network; inputting the training set to a training model for training to obtain a prior constraint

between the HR image and the LR image; and establishing an SR reconstruction model by using a half quadratic splitting method based on the multi-differential consistency constraint model and the prior constraint, and solving the SR reconstruction model to obtain an HR reconstructed image.



21: 2021/00568. 22: 2021/01/26. 43: 2022/06/29

51: C25C

71: Norsk Hydro ASA

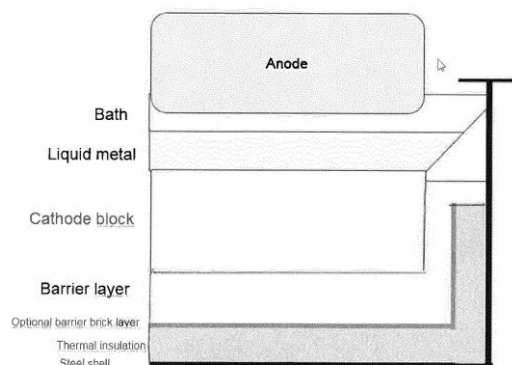
72: HAGEN, Eirik, WEFRING, Espen Tjønneland, SCHØNING, Christian

33: NO 31: 20181153 32: 2018-09-04

54: METHOD FOR PROVIDING A CATHODE LINING BARRIER LAYER IN AN ELECTROLYSIS CELL AND A MATERIAL FOR SAME

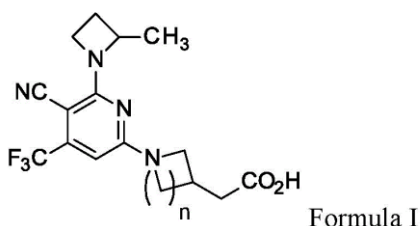
00: -

The present invention relates to a method and a material for establishing a cathode barrier layer in electrolysis cells for production of aluminum of Hall-Heroult type, the barrier layer can comprise minerals combined with a compound that lowers the melting temperature of the minerals, such as fluorides.



21: 2021/00700. 22: 2021/02/01. 43: 2022/06/29
 51: A61K; A61P; C07D
 71: Eli Lilly and Company
 72: DURHAM, Timothy Barrett
 33: US 31: 62/726,520 32: 2018-09-04
54: 2,6-DIAMINO PYRIDINE COMPOUNDS
 00: -

The present invention provides a compound of Formula I or a pharmaceutically acceptable salt thereof, and the use of compounds of Formula I for treating metabolic conditions, such as type 2 diabetes mellitus, heart failure, diabetic kidney disease, and non-alcoholic steatohepatitis.



21: 2021/00742. 22: 2021/02/03. 43: 2022/06/29
 51: C07K
 71: Ablynx NV
 72: BUYSE, Marie-Ange, BOUTTON, Carlo
 33: US 31: 61/994,552 32: 2014-05-16
54: IMPROVED IMMUNOGLOBULIN VARIABLE DOMAINS
 00: -

VH domain, in which: (i) the amino acid residue at position 112 is one of K or Q; and/or (ii) the amino acid residue at position 89 is T; and/or (iii) the amino acid residue at position 89 is L and the amino acid residue at position 110 is one of K or Q; and (iv) in each of cases (i) to (iii), the amino acid at position 111 is preferably V; and in which said VH domain contains a C-terminal extension (X)_n, in which n is 1

to 10, preferably 1 to 5, such as 1, 2, 3, 4 or 5 (and preferably 1 or 2, such as 1); and each X is an (preferably naturally occurring) amino acid residue that is independently chosen, and preferably independently chosen from the group consisting of alanine (A), glycine (G), valine (V), leucine (L) or isoleucine (I).

21: 2021/00819. 22: 2021/02/05. 43: 2022/07/07
 51: C07K; A61K; A61P
 71: IMCHECK THERAPEUTICS SAS, INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), UNIVERSITE AIX MARSEILLE, INSTITUT JEAN PAOLI & IRENE CALMETTE, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS -
 72: TRUNEH, ALEMSEGED, OLIVE, DANIEL, PASERO, CHRISTINE, DE GASSART, AUDE
 33: EP 31: 19153992.3 32: 2019-01-28
 33: EP 31: 18306050.8 32: 2018-08-01

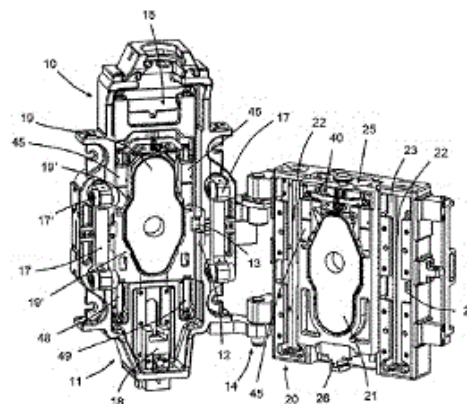
54: ANTI-BTN3A ANTIBODIES AND THEIR USE IN TREATING CANCER OR INFECTIOUS DISORDERS

00: -
 The present invention relates to humanized antibodies that specifically bind to human BTN3A and their use in treating cancer and infectious disorders.

21: 2021/00821. 22: 2021/02/05. 43: 2022/07/07
 51: C11D
 71: UNILEVER GLOBAL IP LIMITED
 72: ACHARYA, KOUSHIK, SUBRAHMANYAM, NARAYANAN
 33: EP 31: 18192724.5 32: 2018-09-05
54: FOAMABLE CLEANING COMPOSITION
 00: -

A foamable, liquid cleaning composition comprising:
 i. 0.5 to 5 wt.% C₈₋₁₈alkoxylated anionic surfactant having 1 to 30 moles of alkylene oxide; ii. 5 to 20 wt.% nonionic surfactants; iii. 0.1 to 10 wt.% water miscible glycol ether solvent; iv. 0.1 to 10 wt% water immiscible fatty acid ester solvent selected from the group consisting of methyl laurate, ethyl laurate, ethyl octanoate or mixtures thereof; v. 0.1 to 10 wt% of sequestrant selected from the group consisting of citric, adipic, succinic, maleic, glutaric acids, mixtures thereof or salts thereof; and vi. water, wherein the composition has a viscosity of less than 100 mPa.s at 25°C and 20 s⁻¹, wherein ratio of the sum of alkoxylated surfactant (i) and nonionic

surfactant (ii) to the solvent is in a weight ratio ranging from 0.93:1 to 20:1, and wherein the pH of the composition ranges from 2.0 to 4.5. A cleaning system comprising a spraying device and a foamable liquid cleaning composition, said spraying device forming a foam with a density of less than 0.4 g/ml when ejected from the spray device through the spray head. A method of removing oily fatty stains from fabric. Use of the composition for the removal of oily fatty stains from fabric, said use comprising applying the liquid cleaning composition in the form of a foam onto the surface of the fabric.

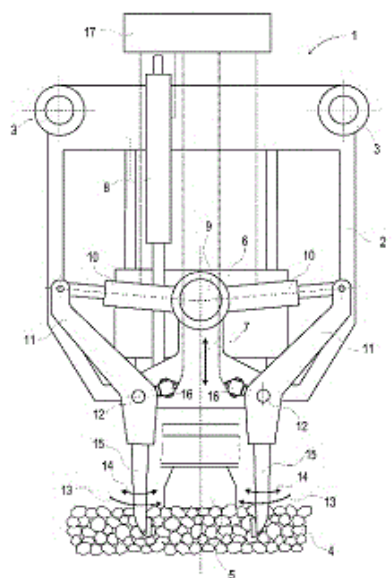


21: 2021/00822. 22: 2021/02/05. 43: 2022/07/07
51: B22D
71: REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG
72: HEINRICH, BEAT, COUSIN, JEAN-DANIEL, LOEDEMAN, ROBERT HEIN
33: CH 31: 01051/18 32: 2018-09-04
54: METHOD FOR MAINTENANCE OF A SLIDING CLOSURE AT THE OUTLET OF A METALLURGICAL VESSEL INCLUDING A SLIDING CLOSURE

00: -
In a method for automated maintenance by means of a robot the precise position of a metallurgical vessel and a sliding closure (10) at the maintenance location is automatically determined and thereafter a drive is mounted by this on the sliding closure (10). The sliding closure is then released by the drive and at least one refractory closure plate (19, 21) can be inserted by the robot into a slider unit (20) and in a housing (11) of the sliding closure (10) or can be removed from this. It is possible to change from this automated maintenance by the robot to a manual maintenance of the sliding closure (10) at the maintenance location and vice versa. During automated maintenance, the closure plates (19, 21) are inserted together with a cassette (15, 25) into the housing (11) and into the slider unit (20) or are removed from this. Conversely, during manual maintenance these cassettes (15, 25) are fixed in the housing (11) or in the slider unit (20) and the closure plates (19, 21) are manually inserted direct into the cassettes remaining in the sliding closure (10) and centred or fastened therein or released. Thereby a switch can be made very simply from an automated to a manual maintenance and the reverse.

21: 2021/00825. 22: 2021/02/05. 43: 2022/07/07
51: E01B
71: PLASSER & THEURER EXPORT VON BAHNBAUMASCHINEN GMBH
72: BÖCK, REINHARD
33: AT 31: A 290/2018 32: 2018-09-18
54: TAMPING UNIT AND METHOD FOR TAMPING SLEEPERS OF A TRACK

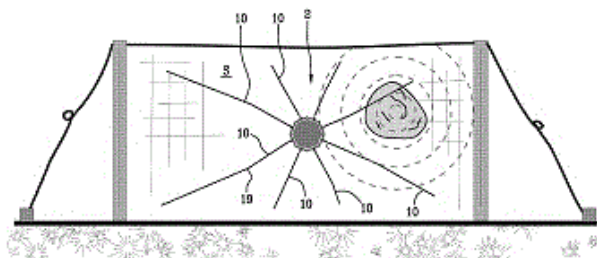
00: -
The invention relates to a tamping unit (1) for tamping material under sleepers (5) of a track, having a tool carrier (6) which is mounted on a unit frame (2) such that it can be lowered and on which two pivot levers (11) with tamping tools (15) are mounted rotatably about respective pivot axes (12) such that they can be adjusted relative to each other and such that a vibration can be applied to them, wherein at least one pivot lever (11) is assigned a sensor (16) for sensing a pivot angle of a pivot movement (21) about the associated pivot axis (12). The sensor (16) is constructed from a number of parts, wherein a first sensor part (18) is fastened to the tool carrier (6), and a second sensor part (19) is fastened to the pivot lever (11).



21: 2021/00826. 22: 2021/02/05. 43: 2022/07/07
51: E01F; G08B; G01L; G01B
71: ALBERTELLI, LUCA MAFFEO, NESA S.R.L.
72: ALBERTELLI, LUCA MAFFEO, BASSETTO, PIERLUIGI

33: IT 31: 102018000007671 32: 2018-07-31
54: SYSTEM AND METHOD FOR MONITORING HYDROGEOLOGICAL RISK

00: -
The present invention describes an electronic device (2) and corresponding method for monitoring hydrogeological phenomena, in particular the integrity of a rockfall protection barrier by detecting mechanical load exceeding a threshold, such as due to impact or debris flow. The device is provided with elongated flexible "legs" protruding from the housing in a radial manner and connected to a surface to be monitored (i.e. rockfall net) for detecting mechanical stress.

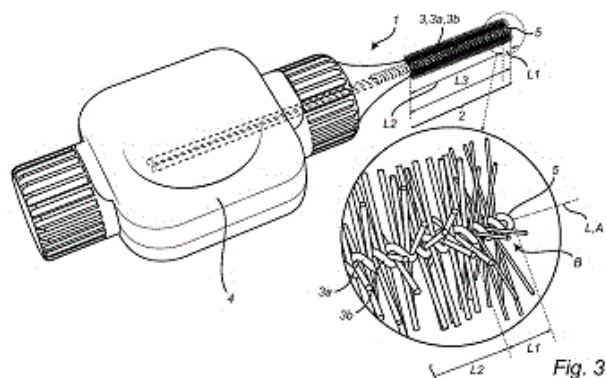


21: 2021/00863. 22: 2021/02/08. 43: 2022/07/07
51: A46B
71: TEPE MUNHYGIENPRODUKTER AB

72: LARSSON, JAN-INGE, WERIUS, PATRIK
33: SE 31: 1850882-0 32: 2018-07-11

54: INTERDENTAL BRUSH HAVING AN INSERTION GUIDANCE TIP

00: -
A method of providing an insertion guidance tip at a distal end of an interdental brush, use of a first set of filaments (10) and a second set of filaments (20) in an interdental brush, and an interdental brush comprising a first set of filaments (10) arranged along a first longitudinal sub-length (L1) and having a first filament diameter (D1), and a second set of filaments (20) arranged along a second longitudinal sub-length (L2) and having a second filament diameter (D2), wherein the second filament diameter (D2) is smaller than the first filament diameter (D1), wherein the second longitudinal sub-length (L2) is positioned at the distal end (5) of the interdental brush (1), and wherein the second sub-length has a length (L2) along the longitudinal direction being less than 15% of a longitudinal extension (L3) of the brush portion (2) and extending along less than three twists of a core member (3).



21: 2021/00864. 22: 2021/02/08. 43: 2022/07/07

51: A61K

71: BETA INNOV

72: MERSEL, MARCEL, RAKOTOARIVELO, CLOVIS

33: EP 31: 18305933.6 32: 2018-07-11

54: COMPOSITION CONTAINING A 7BETA-HYDROXYCHOLESTEROL AND A LIPID VEHICLE, AND ITS USE IN THE TREATMENT OF NEOPLASTIC PATHOLOGIES

00: -
The invention relates to a composition comprising a 7 β -hydroxycholesterol derivative and a lipid vehicle,

in particular a vegetable oil, and use thereof in the treatment of neoplastic pathologies, such as glioblastoma multiforme. Said composition may be administered by the oral route.

21: 2021/00865. 22: 2021/02/08. 43: 2022/07/07
51: H04L

71: IDAC HOLDINGS, INC.

72: HEDAYAT, AHMAD REZA, NAYEB NAZAR, SHAHROKH, OTERI, OGHENEKOME, LOU, HANQING, YANG, RUI

33: US 31: 62/716,211 32: 2018-08-08

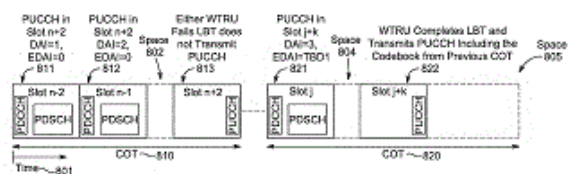
33: US 31: 62/753,457 32: 2018-10-31

54: EFFICIENT AND ROBUST

ACKNOWLEDGEMENT PROCEDURES FOR NEW RADIO OPERATION IN UNLICENSED BANDS

00: -

Systems, methods, and devices for efficient and robust handling of acknowledgements in new radio unlicensed bands (NR-U) environments. A wireless transmit receive unit (WTRU) may receive control information and a data transmission from a gNB in a first interval (i.e., transport block or channel occupancy time), wherein the control information may include an indication of uplink resources. The data transmission may require some sort of acknowledgement (i.e., HARQ feedback). The WTRU may attempt to transmit the acknowledgement in the indicated uplink resources, but the gNB may not receive the acknowledgement. The WTRU may receive control information and a data transmission from the gNB in a second interval, including an indication to aggregate any previously unsuccessful acknowledgement transmissions. The WTRU may transmit an aggregated acknowledgement including previous unsuccessful acknowledgements and any additional acknowledgements from the current interval. In some cases, look-before-talk procedures may be used.



21: 2021/00869. 22: 2021/02/09. 43: 2022/07/07
51: A61K; C07K; A61P

71: KEY BIOSCIENCE AG

72: ANDREASSEN, Kim, V., HENRIKSEN, Kim, SONNE, Nina, KARSDAL, Morten, Asser

33: GB 31: 1813678.8 32: 2018-08-22

54: ACYLATED CALCITONIN MIMETICS

00: -

Disclosed herein are calcitonin mimetics that are acylated at a lysine residue located at the (11) position or (19) position of the calcitonin mimetic, and the use thereof as medicaments in the treatment of various diseases and disorders, including diabetes, excess bodyweight, excessive food consumption and metabolic syndrome, NASH, alcoholic and non-alcoholic fatty liver disease, the regulation of blood glucose levels, the regulation of response to glucose tolerance tests, the regulation of food intake, and the treatment of osteoporosis and the treatment of osteoarthritis.

21: 2021/00885. 22: 2021/02/09. 43: 2022/07/07
51: C08J; B29B; D01G; D21C

71: SÖDRA SKOGSÄGARNA EKONOMISK FÖRENING

72: BREID, HARALD, BOGREN, JOHANNES

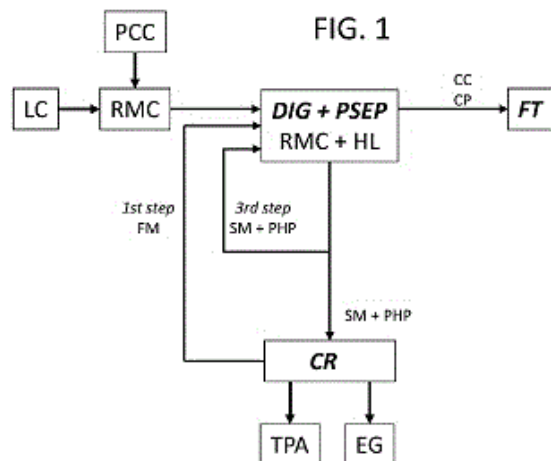
33: SE 31: 1850899-4 32: 2018-07-13

54: A PROCESS FOR SEPARATION OF THE CELLULOSIC PART FROM A POLYESTER AND CELLULOSE COMPOSITION

00: -

The present invention relates a process for separation of the cellulosic part from a raw material composition comprising polyester and cellulose containing composition, wherein the process comprises providing a blend, wherein the blend comprises a raw material composition and a hydrolyzing liquor, wherein the raw material composition comprises a polyester composition, wherein the polyester composition comprises 99%, or less, by weight of polyester and 1 %, or more, by weight of cellulose containing component or components, wherein the hydrolyzing liquor comprises a first mixture comprising an alkaline solution containing hydroxide ions, the hydrolyzing liquor is added to give the blend an effective alkali concentration in a range from 5g/l to 150 g/l, wherein the effective alkali concentration is calculated as NaOH, and the hydrolyzing liquor: raw material composition ratio is from 1.5:1 up to 25:1, i.e. from 5 dm³/kg up to 25 dm³/kg, and keeping the blend at a temperature of 100 °C or above, e.g. 110 °C or

above, for example, 115 °C or above, e.g. 120 °C or above, for example, 125 °C or above, e.g. 130 °C or above, for example, 135 °C or above, or, e.g. 140 °C or above; a cellulosic composition obtainable from the process for separation, a mixture comprising polyester hydrolysis products obtainable from the process for separation, a pulp, a dissolving pulp, a paper pulp, a regenerated cellulosic fibres product, and a paper product.



21: 2021/00887. 22: 2021/02/09. 43: 2022/07/07
 51: C12Q; C12N
 71: THE CHINESE UNIVERSITY OF HONG KONG
 72: LO, YUK-MING DENNIS, CHIU, ROSSA WAI KWUN, CHAN, KWAN CHEE, JIANG, PEIYONG, CHENG, SUK HANG, PENG, WENLEI, TSE, ON YEE
 33: US 31: 62/970,586 32: 2020-02-05
 33: US 31: 62/991,891 32: 2020-03-19
 33: US 31: 63/051,210 32: 2020-07-13
 33: US 31: 63/019,790 32: 2020-05-04
 33: US 31: 62/887,987 32: 2019-08-16

54: DETERMINATION OF BASE MODIFICATIONS OF NUCLEIC ACIDS

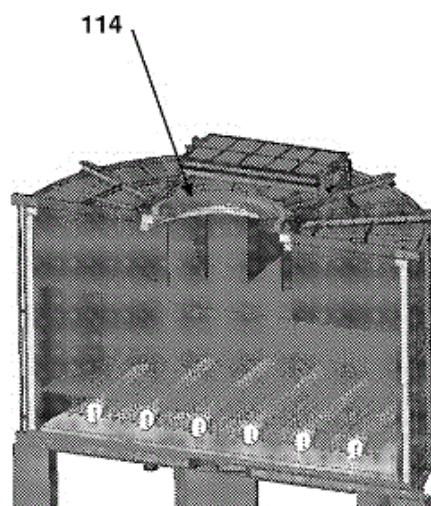
00: -

Systems and methods for using determination of base modification in analyzing nucleic acid molecules and acquiring data for analysis of nucleic acid molecules are described herein. Base modifications may include methylations. Methods to determine base modifications may include using features derived from sequencing. These features may include the pulse width of an optical signal from sequencing bases, the interpulse duration of bases, and the identity of the bases. Machine learning

models can be trained to detect the base modifications using these features. The relative modification or methylation levels between haplotypes may indicate a disorder. Modification or methylation statuses may also be used to detect chimeric molecules.

21: 2021/00889. 22: 2021/02/09. 43: 2022/07/07
 51: H02S; F24S
 71: MAGALDI POWER S.P.A.
 72: MAGALDI, MARIO
 33: IT 31: 102018000007998 32: 2018-08-09
54: DEVICE, PLANT AND METHOD FOR THE STORAGE AND TRANSFER OF THERMAL ENERGY OF SOLAR ORIGIN
 00: -

The object of the present invention is to use the high temperature thermal power stored in the fluid bed in conjunction with thermophotovoltaic (TPV) technology. TPV technology requires thermal emitters at high temperature (>600°C) to produce electricity from thermal radiation. TPV thermal emitters are located immersed in or exposed to a hot particles fluidized bed, protected by suitable layers of high temperature resistant material, like ceramic or refractory walls. Such high temperature fluidized bed, will provide thermal power to the TPV cells, to produce electricity.



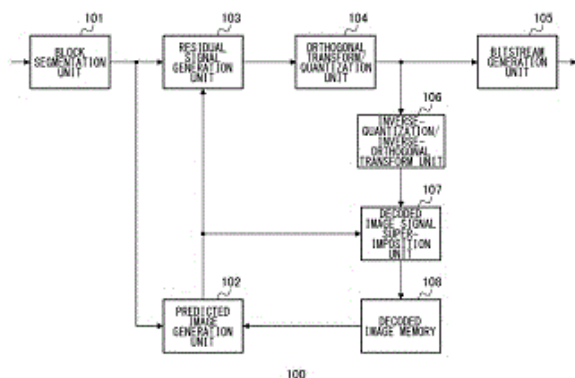
21: 2021/00894. 22: 2021/02/10. 43: 2022/07/07
 51: H04N
 71: JVCKENWOOD CORPORATION
 72: FUKUSHIMA, SHIGERU

33: JP 31: 2016-236507 32: 2016-12-06

54: IMAGE CODING DEVICE, IMAGE CODING METHOD, IMAGE CODING PROGRAM, IMAGE DECODING DEVICE, IMAGE DECODING METHOD AND IMAGE DECODING PROGRAM

00: -

The present invention provides an image encoding device for segmenting an image into blocks and encoding the image in units of blocks resulting from segmenting the image. The encoding device includes a block segmentation unit and an encoding unit. The block segmentation unit recursively segments the image into rectangles of a predetermined size to generate a block subject to encoding. The encoding unit encodes block segmentation information of the block subject to encoding. The block segmentation unit includes: a quartering unit that quarters a target block in recursive segmentation in a horizontal direction and a vertical direction to generate four blocks; and a halving unit that halves a target block in recursive segmentation in a horizontal direction or a vertical direction to generate two blocks. The four blocks are encoded in an order of top-left, top-right, bottom-left, and bottom-right. When previous recursive segmentation is halving and a target block is of a predetermined size, the halving unit prohibits a target block subject to current recursive segmentation from being segmented in the same direction as a direction in which the block was segmented in the previous recursive segmentation.



21: 2021/00924. 22: 2021/02/10. 43: 2022/07/07
51: H04L; H04W

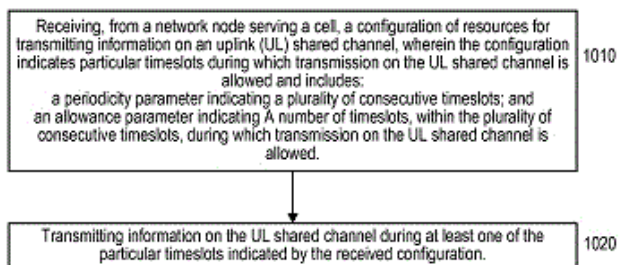
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: REEM KARAKI, JUNG-FU CHENG, MARCO BELLESCHI

33: US 31: 62/717,455 32: 2018-08-10

54: TIME RESOURCES FOR UPLINK CHANNELS

00: -

Embodiments include methods, performed by a user equipment (UE), for transmitting information on an uplink (UL) shared channel within a cell of a radio access network. Such embodiments include receiving, from a network node serving the cell, a configuration of resources for transmitting information on the UL shared channel. The configuration can indicate particular timeslots during which transmission on the UL shared channel is allowed and can include: a periodicity parameter indicating a plurality of consecutive timeslots; and an allowance parameter indicating particular timeslots, within the plurality, during which transmission on the UL shared channel is allowed. The allowance parameter can be conveyed in various ways. Such embodiments also include transmitting information on the UL shared channel during at least one of the particular timeslots. Embodiments also include complementary methods performed by a network node, as well as UEs and network nodes configured to perform such methods.



21: 2021/00926. 22: 2021/02/10. 43: 2022/07/07

51: B65D

71: UNILEVER GLOBAL IP LIMITED

72: MOURA, LETICIA BARTHMANN, ARAI, NILSON SATOSHI

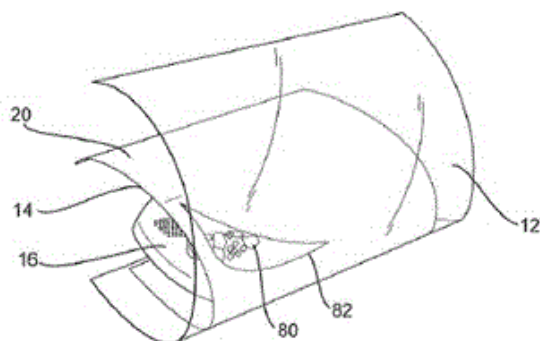
33: EP 31: 18189889.1 32: 2018-08-21

54: SOAP WRAPPER AND PROCESS

00: -

Wrapped soap bar structures, a process of making them and an apparatus for making them. In the soap package of one embodiment, a stiffener (14) is provided having embossments or debossments and is overwrapped by a transparent or translucent material (12) to create a 3-dimensional visual effect for the consumer along the surface of the package.

In another embodiment, the wrapper (12) is provided with embossments/ debossments to afford a distinctive tactile feel. In accordance with another embodiment, the stiffener and/or wrapper with embossments/debossments is made in part by imposing a die onto the stiffener and/or wrapper materials, preferably during the wrapping procedure, especially after the stiffener and/or wrapper materials have been unrolled for wrapping. In a still further embodiment, the stiffening member (14) may include a window (82), whereby embossments/debossments on the soap bar or other article can be seen through the transparent or translucent wrapper material (12) and through the window in the stiffener from the exterior of the wrapped container.



21: 2021/00927. 22: 2021/02/10. 43: 2022/07/07
51: C11D

71: UNILEVER GLOBAL IP LIMITED
72: BATCHELOR, STEPHEN NORMAN,
BURNHAM, NEIL STEPHEN
33: EP 31: 18195232.6 32: 2018-09-18

54: DETERGENT COMPOSITION

00: -

The present invention concerns a detergent composition, comprising: a) from 2 to 95 wt.%, preferably from 2 to 50 wt.%, more preferably from 2 to 40 wt.% of an organic acid derivative of mono- and di- glycerides of the form:-(I) wherein one or two, of R_1 , R_2 and R_3 are independently selected from an acyl group of the formula R_4CO- ; where R_4 is a linear or branched, saturated or mon-unsaturated C_9 to C_{21} alkyl chain; wherein one or two, of R_1 , R_2 and R_3 is selected from an organic acid of generic formulation $(HOOC)_nXCO-$; wherein X is saturated or monounsaturated organic group containing 1 to 6 carbon atoms and $n = 1$ to 3; wherein one or none of

R_1 , R_2 and R_3 is selected from H; and, b) from 0.5 to 25 wt.%, preferably from 1 to 20 wt.%, more preferably from 1 to 10 wt.% of non-ionic surfactant; and to domestic method of treatment of a textile using said composition.



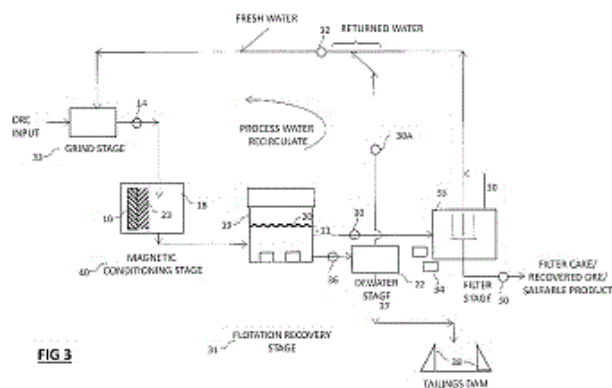
21: 2021/00953. 22: 2021/02/11. 43: 2022/07/07
51: B03C; B03D

71: AUSMETEC PTY LTD
72: LUMSDEN, BARRY GRAHAM
33: AU 31: 2018904830 32: 2018-12-19
33: AU 31: 2018902763 32: 2018-07-30

54: APPARATUS AND PROCESS FOR IMPROVED ORE RECOVERY

00: -

In a flotation recovery circuit which includes the steps of: a grinding stage wherein a predetermined quantity of ore is ground to a predetermined size while irrigating the ore with water including recovered process water thereby to form a ground ore portion; conveying the ground ore portion mixed with the recovered process water to a flotation recovery stage; applying flotation recovery to the ground ore portion thereby to extract a recovered metal portion from a mix of the recovered process water and the ground ore portion; returning at least a portion of the recovered process water to the grinding stage; a method of increasing recovery of the metal portion from the predetermined quantity of ore; said method comprising applying a magnetic field to the ground ore portion in a magnetic conditioning stage while it is contained in the recovered process water subsequent to the grinding stage.



21: 2021/00954. 22: 2021/02/11. 43: 2022/07/07
51: C03C; C03B
71: OMYA INTERNATIONAL AG
72: OLBERT, GERHARD, PASIN E MATOS, LAILA RAQUEL
33: EP 31: 18185918.2 32: 2018-07-26
54: HOLLOW SPHERICAL GLASS PARTICLES
00: -

The present invention is directed to hollow aluminosilicate glass particles and a process for the production thereof. Further, the present invention is directed to an article comprising said hollow aluminosilicate glass particles as well as the use of said particles as a filler for high temperature products, molten metal, injection moulded synthetic materials, flame-retardant insulating foams, cement slurries, mortars, concretes and oil field applications.

21: 2021/00956. 22: 2021/02/11. 43: 2022/07/07
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: BATCHELOR, STEPHEN NORMAN, BURNHAM, NEIL STEPHEN
33: EP 31: 18195201.1 32: 2018-09-18
54: DETERGENT COMPOSITION
00: -

A laundry detergent composition, comprising: a) from 4 to 50 wt.% of surfactant; wherein from 50 to 100 wt.%, preferably from 60 to 100 wt.%, more preferably from 80 to 100 wt.%, even more preferably from 90 to 100 wt.%, most preferably 100 wt.% of the surfactant is an edible surfactant. A domestic method of treating a textile, comprising the steps of:- a) treating a textile with an aqueous solution of 0.5 to 20 g/L of the detergent composition; b) optionally rinsing and drying the textile.

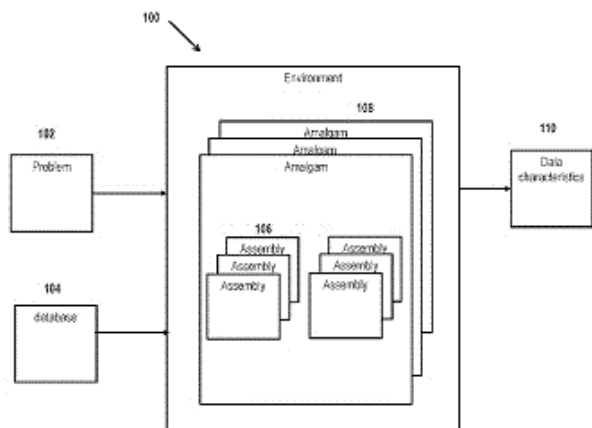
21: 2021/00957. 22: 2021/02/11. 43: 2022/07/07
51: F04D
71: LONE GULL HOLDINGS, LTD.
72: SHELDON-COULSON, GARTH ALEXANDER, MOFFAT, BRIAN LEE, PLACE, DANIEL WILLIAM
33: US 31: 16/538,472 32: 2019-08-12
33: US 31: 62/719,648 32: 2018-08-18
33: US 31: 62/739,190 32: 2018-09-29
33: US 31: 62/755,427 32: 2018-11-03
33: US 31: 62/831,202 32: 2019-04-09
33: US 31: 62/768,968 32: 2018-11-18
33: US 31: 62/718,383 32: 2018-08-14
33: US 31: 62/724,629 32: 2018-08-30

54: INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE

00: -
A wave engine is disclosed having a buoy that can float on a surface of a body of water over which waves tend to pass. The wave engine further incorporates an open-bottomed tube, having a discharge spout at an upper end, the tube having a wall defining a water accelerating surface for ejecting water from the tube through the discharge spout. Wave-driven oscillations result in periodic upward ejections of portions of water inside the tube that can be collected in a reservoir that is at least partially positioned above the mean water level of the body of water. Water within such a reservoir may return to the body of water via a turbine, thereby generating electrical power.

21: 2021/00959. 22: 2021/02/11. 43: 2022/07/07
51: G01N; G06F
71: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
72: HILL, ERIK, BROWN, SHELDON, HAWKINS, WESLEY
33: US 31: 62/698,723 32: 2018-07-16
54: RELATING COMPLEX DATA
00: -

A data analysis and processing method includes forming an initial assembly of datasets comprising multiple entities, where each entity is a collection of variables and relationships that define how entities interact with each other, simulating an evolution of the initial assembly by performing multiple iterations in which a first iteration uses the initial assembly as a starting assembly, and querying, during the simulating, the evolution of the initial assembly, for datasets that meet an optimality criterion.



21: 2021/00993. 22: 2021/02/12. 43: 2022/07/07

51: C12N; A61K; A61P

71: SOTIO, LLC

72: MCGINNESS, KATHLEEN, ETTEBERG, SETH, BARRON, LUKE, FRAY, MICHAEL, WILSON, CHARLES, MOTZ, GREGORY

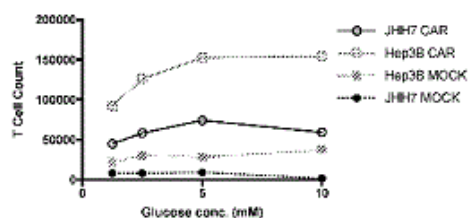
33: US 31: 62/718,579 32: 2018-08-14

33: US 31: 62/718,491 32: 2018-08-14

54: CHIMERIC ANTIGEN RECEPTOR POLYPEPTIDES IN COMBINATION WITH TRANS METABOLISM MOLECULES MODULATING KREBS CYCLE AND THERAPEUTIC USES THEREOF

00: -

Disclosed herein are genetically engineered hematopoietic cells, which express one or more Krebs cycle modulating polypeptides, and optionally a chimeric receptor polypeptide (e.g., an antibody-coupled T cell receptor (ACTR) polypeptide or a chimeric antigen receptor (CAR) polypeptide) capable of binding to a target antigen of interest. Also disclosed herein are uses of the engineered hematopoietic cells for inhibiting cells expressing a target antigen in a subject in need thereof.



21: 2021/01003. 22: 2021/02/15. 43: 2022/07/07

51: A61K; A61P; C07D

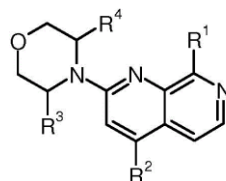
71: Bayer Pharma Aktiengesellschaft

72: WORTMANN, Lars, LÜCKING, Ulrich, LEFRANC, Julien, BRIEM, Hans, KOPPITZ, Marcus, EIS, Knut, VON NUSSBAUM, Franz, BADER, Benjamin, WENGNER, Antje Margret, SIEMEISTER, Gerhard, BONE, Wilhelm, LIENAU, Philip, GRUDZINSKA-GOEBEL, Joanna, MOOSMAYER, Dieter, EBERSPÄCHER, Uwe, SCHICK (Deceased), Hans

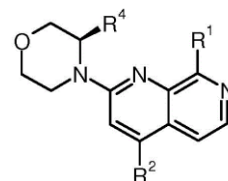
33: EP(DE) 31: 14179692.0 32: 2014-08-04

54: 2-(MORPHOLIN-4-YL)-L,7-NAPHTHYRIDINES
00: -

The present invention relates to substituted 2-(morpholin-4-yl)-l,7-naphthyridine compounds of general formula (I) or (Ib), to methods of preparing said compounds, to intermediate compounds useful for preparing said compounds, to pharmaceutical compositions and combinations comprising said compounds and to the use of said compounds for manufacturing a pharmaceutical composition for the treatment or prophylaxis of a disease, in particular of a hyperproliferative disease as a sole agent or in combination with other active ingredients.



(I)



(Ib)

21: 2021/01025. 22: 2021/02/15. 43: 2022/07/07

51: C07D

71: OSCOTEC INC.

72: KIM, JUNG-HO, CHOI, JANG-SIK, LEE, HEE KYU, PARK, SONG-EUN, JUNG, DONG-SIK, CHOI, YUNG-GEUN, KOH, JONG-SUNG, KIM, SE-WON, LEE, JAEKYOO

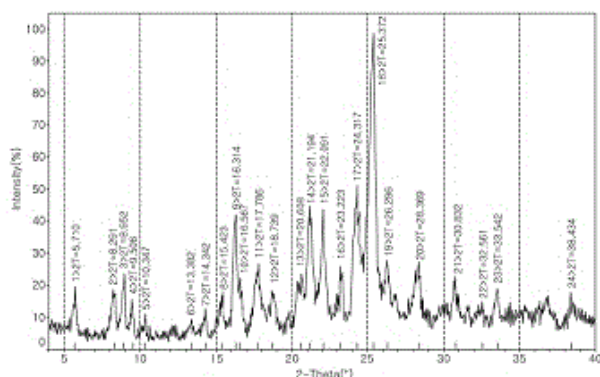
33: KR 31: 10-2018-0098681 32: 2018-08-23

54: CRYSTAL POLYMORPH OF 8-BROMO-2-(1-METHYLPYPERIDIN-4-YLAMINO)-4-(4-PHENOXYPHENYLAMINO)PYRIDO[4,3-D]PYRIMIDIN-5(6H)-ONE HYDROCHLORIDE AND METHOD FOR PREPARING SAME

00: -

An embodiment relates to a crystal polymorph of 8-bromo-2-(1-methylpiperidin-4-ylamino)-4-(4-phenoxyphenylamino)pyrido[4,3-d]pyrimidin-5(6H)-one hydrochloride which can effectively suppress FLT3 and has excellent stability even in a high

temperature and humid environment, and a method for preparing same.



21: 2021/01026. 22: 2021/02/15. 43: 2022/07/07

51: A61K; C12N

71: OXFORD UNIVERSITY INNOVATION LIMITED

72: GILBERT, SARAH, MORRIS, SUSAN JANE

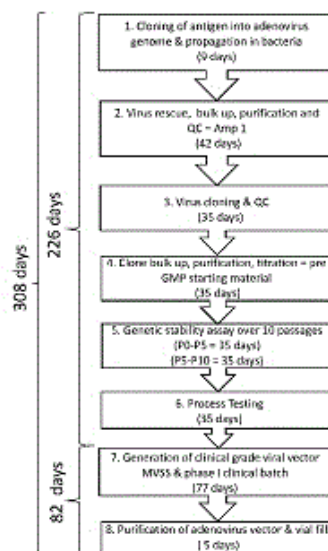
33: GB 31: 1814141.6 32: 2018-08-30

54: METHODS AND COMPOSITIONS FOR PRODUCING A VIRUS

00: -

The invention relates to methods for generating a recombinant adenovirus comprising a nucleotide sequence encoding a heterologous gene of interest for use as a vaccine comprising the steps of inserting the heterologous gene of interest into the adenovirus genome by recombining terminal protein complexed adenovirus genomic DNA (TPC-Ad gDNA) with a polynucleotide comprising a nucleotide sequence encoding the gene of interest and having 5' and 3' ends that are homologous to the insertion site sequence of the adenovirus genomic DNA in an in vitro recombination reaction, transfecting cells growing in individual vessels with a dilution of the in vitro recombination reaction mixture from (i) such that a number of such individual vessels contain a single cell that is infected by a recombinant adenovirus comprising the nucleotide sequence encoding the heterologous gene of interest, and identifying those individual vessels in which a single cell has been infected by the recombinant adenovirus comprising the nucleotide sequence encoding the heterologous gene of interest. Suitably said TPC-Ad gDNA comprises serotype-matched terminal protein and adenovirus genome, and said gene of interest codes for a single epitope, a string of epitopes, a segment of an antigen or a complete

antigen protein. The invention also relates to recombinant adenoviruses and compositions made using these methods.



21: 2021/01056. 22: 2021/02/16. 43: 2022/07/07

51: A61K; A61P

71: GUANGDONG OCEAN UNIVERSITY

72: HU, ZHANG, LU, SITONG, KONG, SONGZHI, LI, SIDONG, ZHANG, LINGYU, LIAO, MINGNENG, LI, CHENGPENG, CHENG, YU

33: CN 31: 201911174637.1 32: 2019-11-26

54: ALCOHOLISM-RELIEVING AND LIVER-PROTECTING HYDROGEL, FABRICATION METHOD AND APPLICATION THEREOF

00: -

The present disclosure provides an alcoholism-relieving and liver-protecting hydrogel, a fabrication method and an application thereof. The present disclosure firstly provides a composition with alcoholism-relieving and liver-protecting effects, which comprises the following components on the basis of weight parts: 20~40 parts of chitosan, 25~55 parts of sodium alginate, 3~20 parts of gelatin, 1~10 parts of calcium carbonate and 0.05~0.5 parts of gallic acid. Based on this composition, the present disclosure further provides an alcoholism-relieving and liver-protecting hydrogel. In the present disclosure, chitosan, sodium alginate and calcium carbonate are compounded at an appropriate proportion to form powder particles of chitosan/sodium alginate (shell) - calcium carbonate (core), into which are additionally added gelatin and gallic acid to get the product hydrogel.

21: 2021/01057. 22: 2021/02/16. 43: 2022/07/07

51: G01V

71: SERCEL

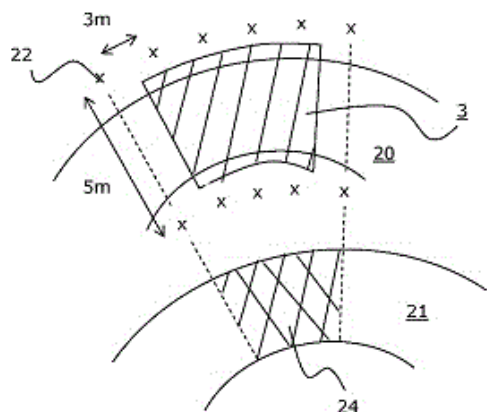
72: BARDAINNE, THOMAS, RONDELEUX, BAPTISTE

33: FR 31: 1856857 32: 2018-07-24

54: METHOD AND DEVICE FOR MONITORING THE SUBSOIL OF THE EARTH UNDER A TARGET ZONE

00: -

In order to monitor the subsoil of the earth under a target zone (3), seismic waves from an identified mobile noise source (24) are recorded by means of at least one pair of sensors (22) arranged on either side of the target zone (3), time periods corresponding to the alignments of the pairs of sensors (22) with the noise source (24) are selected, a seismogram of the target zone (3) is reconstructed by interferometry from the seismic waves recorded and the selected time periods, and an image of the subsoil of the target zone (3) is generated from the seismogram.



21: 2021/01059. 22: 2021/02/16. 43: 2022/07/07

51: H04N

71: V-NOVA INTERNATIONAL LTD.

72: MEARDI, GUIDO

33: GB 31: 1812708.4 32: 2018-08-03

33: GB 31: 1812710.0 32: 2018-08-03

33: GB 31: 1903844.7 32: 2019-03-20

33: GB 31: 1904492.4 32: 2019-03-29

33: GB 31: 1904014.6 32: 2019-03-23

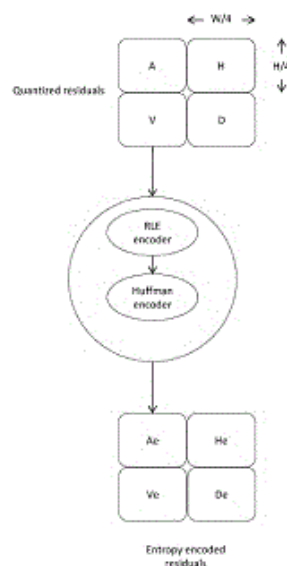
33: GB 31: 1905325.5 32: 2019-04-15

33: GB 31: 1812709.2 32: 2018-08-03

54: ENTROPY CODING FOR SIGNAL ENHANCEMENT CODING

00: -

There is provided a method of encoding a video signal, the method comprising: receiving an input frame; processing the input frame to generate at least one set of residuals data, the residuals data enabling a decoder to reconstruct the input frame from a reference reconstructed frame; and, applying a run-length coding operation to the set of residuals data, wherein the run-length coding operation comprises generating a run-length encoded bytestream comprising a set of symbols representing non-zero data values of the residuals data set and counts of consecutive zero values of the residuals data set. In certain embodiments the method comprises apply a Huffman coding operation to the set of symbols. A method of decoding is also provided as well as apparatuses and a computer readable medium.



21: 2021/01079. 22: 2021/02/17. 43: 2022/07/07

51: C07C; C07D

71: SANOFI

72: MALPART, Joël, RUIZ MONTES, José

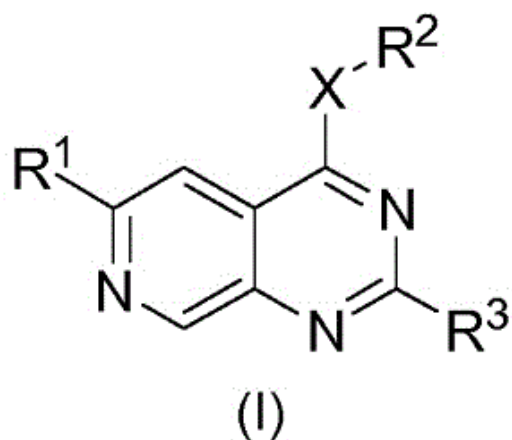
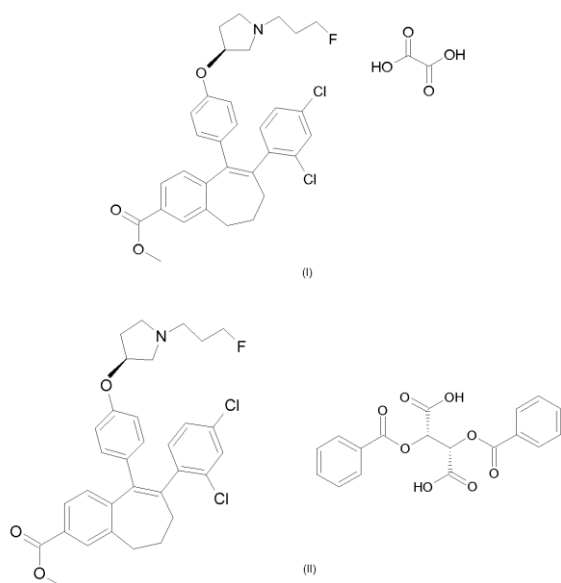
33: EP 31: 18306177.9 32: 2018-09-07

54: SALTS OF METHYL 6-(2,4-DICHLOROPHENYL)-5-[4-[(3S)-1-(3-FLUOROPROPYL)PYRROLIDIN-3-YL]OXYPHENYL]-8,9-DIHYDRO-7H-BENZO[7]ANNULENE-2-CARBOXYLATE AND PREPARATION PROCESS THEREOF

00: -

Herein are provided novel salts of methyl 6-(2,4-dichlorophenyl)-5-[4-[(3S)-1-(3-fluoropropyl)pyrrolidin-3-yl]oxyphenyl]-8,9-dihydro-

7H-benzo[7]annulene-2-carboxylate namely the oxalate salt (I) and the dibenzoyltartrate salt (II).



21: 2021/01092. 22: 2021/02/17. 43: 2022/07/07
51: C07D; A61P; A61K
71: FAES FARMA, S.A.
72: HERNÁNDEZ HERRERO, GONZALO, GARCÍA DOMÍNGUEZ, NEFTALÍ, ZAZPE ARCE, ARTURO, OLIVERA TIZNE, ROBERTO, NOVERGES PEDRO, BÁRBARA, CORCÓSTEGUI VIVAR, REYES, TATO CERDEIRAS, PALOMA
33: EP 31: 18382559.5 32: 2018-07-25

54: PYRIDOPYRIMIDINES AS HISTAMINE H4-RECEPTOR INHIBITORS

00: -

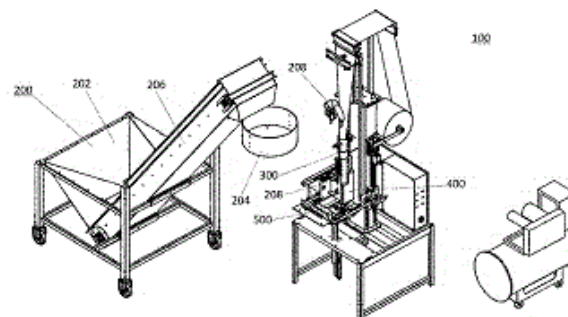
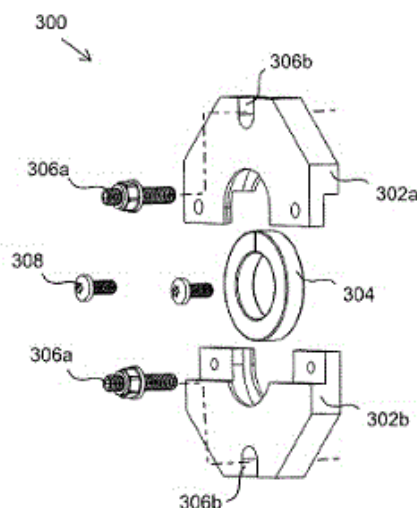
The invention relates to compounds of formula (I) or pharmaceutically acceptable salts or solvates thereof, to pharmaceutical compositions comprising them and to their use in the treatment and/or prevention of diseases or disorders mediated by histamine H4 receptor.

21: 2021/01094. 22: 2021/02/17. 43: 2022/07/07
51: F24S; F16L
71: ABSOLICON SOLAR COLLECTOR AB
72: PEKKALA, CHRISTER
33: SE 31: 1850972-9 32: 2018-08-13

54: END SEALS FOR PARABOLIC TROUGH SOLAR COLLECTORS AND A PARABOLIC TROUGH SOLAR COLLECTOR

00: -

An end seal arrangement (220, 300) for a Parabolic Trough solar Collector, PTC, (200, 400) comprises an elongated parabolic reflector trough (202, 402) and a receiver pipe (204, 404) arranged at a focus-line of the reflector trough (202, 402). The end seal arrangement (220, 300) comprises a housing (302) configured to be fixated to one short-end of the reflector trough (202, 402), and an inlay (304) configured to be inserted in the housing (302) to slidably abut a circumference of the receiver pipe (204, 404), such that the reflector trough (202, 402) is sealed to the receiver pipe (204, 404) by the inlay (304) when the housing (302) is fixated to the short-end of the reflector trough (202, 402) and the reflector trough (202, 402) pivots about its focus-line. The end seal arrangement (220, 300) further comprises a fixation means (306) configured to fixate the housing (302) to the reflector trough (202, 402). By reducing heat leakage and prevent ice, snow, sand, etc. from deteriorating the reflector, improved operational performance will be achieved.



21: 2021/01096. 22: 2021/02/17. 43: 2022/07/07
51: A01G; B65B

71: ELLEPOT A/S

72: HANSEN, LARS PETER BILDE

33: DK 31: PA 2018 00453 32: 2018-08-10

54: PROCESS AND APPARATUS FOR LINE PRODUCTION OF PLANT GROWTH MEDIUM POTS OR BAGS WITH AN OPEN TOP END

00: -

The present invention relates to a process for line production of plant growth medium pots or bags with a closed bottom end. The process comprises the steps of: i) continuously folding the free end of a continuous length of water and air permeable sheet material, preferably supplied on a reel, into a sheet material tube around and beyond a free end of a growth medium feeding tube; ii) forming a first sealing in the sheet material tube by engaging and flattening the opposed walls of the sheet material tube at a position beyond the free end of the growth medium feeding tube; iii) through the free end of the growth medium feeding tube, filling the sheet material tube with a measured amount of growth medium; iv) forming a second sealing in the sheet material tube by engaging and flattening the opposed walls of the sheet material tube at a position above the position of the growth medium; v) separating the part of the sheet material tube positioned downstream from the second sealing to form a first plant growth medium pot or bag with a closed end; and optionally vi) repeating the steps i), and iii)-v) several times to form a plurality of plant growth medium pots or bags with a closed end.

21: 2021/01098. 22: 2021/02/17. 43: 2022/07/07

51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: ACHARYA, KOUSHIK, BISWAS, SARMISTHA, SHAH, BIJAL DHARMVIRBHAI, VADHYAR, JAYASHREE ANANTHARAM

33: EP 31: 18192726.0 32: 2018-09-05

54: A QUICK AND EASY CLEANING FORMULATION

00: -

The present invention relates to a composition and a method for delaying laundry. The present invention provides a fabric treatment composition comprising: a solvent system in combination with surfactants, a hydrotrope, and a sequestrant, wherein the composition has a pH ranging from 2.5 to 5.0. The solvent system comprises a glycol ether; a diol; and a fatty acid ester. The composition of the present invention provides cleaning and anti-microbial benefits when used on a substrate.

21: 2021/01119. 22: 2021/02/18. 43: 2022/07/07

51: A61P; C07D; A61K

71: INORBIT THERAPEUTICS AB

72: SHARMA, RAJIV, BENTHEM, LAMBERTUS, JUDKINS, ROBERT

33: US 31: 62/716,015 32: 2018-08-08

54: COMPOUNDS USEFUL IN MODULATING THE FARNESOID X RECEPTOR AND METHODS OF MAKING AND USING THE SAME

00: -

Provided are compounds that can act as a modulator of a farnesoid X receptor (FXR) and that can be useful in the treatment of diseases and/or disorders associated with the FXR. Compositions including such compounds are also provided along with methods for preparing compounds of the present invention and their use.

21: 2021/01120. 22: 2021/02/18. 43: 2022/07/07

51: H04M; H04B

71: VIGNI, TIZIANA

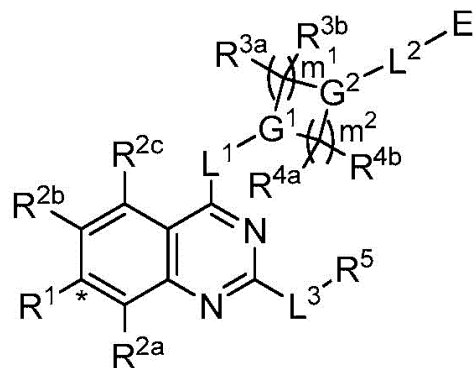
72: VIGNI, TIZIANA, GIULIANI, LIVIO

33: IT 31: 102018000007357 32: 2018-07-19

54: PERSONAL SHIELDING DEVICE

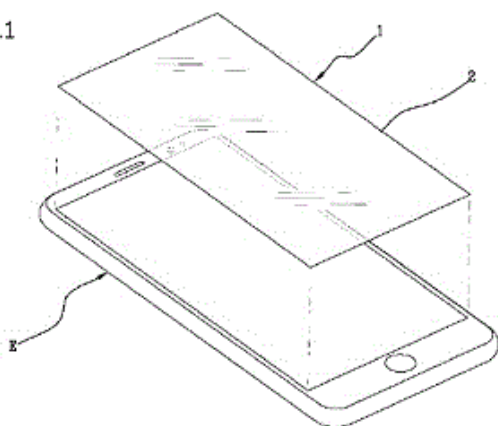
00: -

A personal shielding device, applicable to a screen, in particular a touch screen, of an electronic device (E), which comprises an absorbent sheet (2) made at least partially with a metal material. The absorbent sheet (2) is adapted to absorb the electromagnetic waves emitted by the electronic device (E) in the direction of the user.



(I)

Fig.1



21: 2021/01138. 22: 2021/02/19. 43: 2022/07/07

51: A61K; A61P; C07D

71: Araxes Pharma LLC

72: LI, Liansheng, FENG, Jun, WU, Tao, LIU, Yuan, WANG, Yi, REN, Pingda, LIU, Yi

33: US 31: 62/511,163 32: 2017-05-25

54: COVALENT INHIBITORS OF KRAS

00: -

Compounds having activity as inhibitors of G12C mutant KRAS protein are provided. The compounds have the following structure (I): or a pharmaceutically acceptable salt, stereoisomer, isotopic form or prodrug thereof, wherein R¹, R^{2a}, R^{2b}, R^{2c}, R^{3a}, R^{3b}, R^{4a}, R^{4b}, R⁵, L¹, L², L³, E, m¹, m² and * are as defined herein. Methods associated with preparation and use of such compounds, pharmaceutical compositions comprising such compounds and methods to modulate the activity of G12C mutant KRAS protein for treatment of disorders, such as cancer, are also provided.

21: 2021/01142. 22: 2021/02/19. 43: 2022/07/07

51: A61K

71: GENENTECH, INC.

72: YU, X CHRISTOPHER, FISCHER, SALOUMEH KADKHODAYAN, FISHER, SUSAN C, LOWE, JOHN, NAIM, ATIA, SANCHEZ, AILEN M, TESKE, CHRISTOPHER A, VANDERLAAN, MARTIN, AMURAO, ANNAMARIE, FRANKLIN, JAYME, VICTA, CORAZON

33: US 31: 61/877,517 32: 2013-09-13

54: METHODS AND COMPOSITIONS COMPRISING PURIFIED RECOMBINANT POLYPEPTIDES

00: -

Purified recombinant polypeptides isolated from Chinese hamster ovary host cells, including antibodies, such as therapeutic antibodies, and methods of making and using such polypeptides are provided.

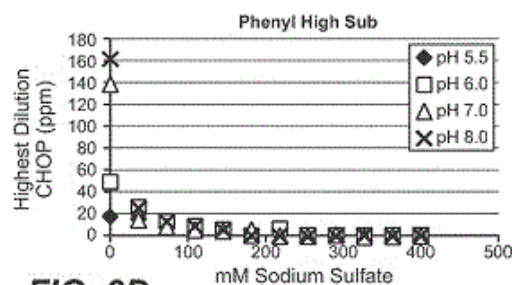


FIG. 3D

21: 2021/01184. 22: 2021/02/22. 43: 2022/07/07

51: C11D

71: UNILEVER GLOBAL IP LIMITED

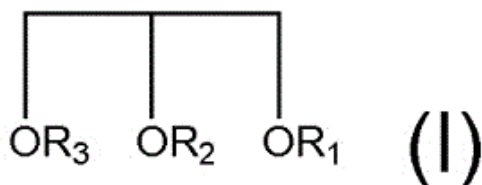
72: BATCHELOR, STEPHEN NORMAN, BURNHAM, NEIL STEPHEN, COOK, ANDREW THOMAS, LANG, DIETMAR ANDREAS

33: EP 31: 18195305.0 32: 2018-09-18

54: DETERGENT COMPOSITION

00: -

The present invention concerns a detergent composition, comprising: a) from 2 to 95 wt.%, preferably from 2 to 50 wt.%, more preferably from 2 to 40 wt.%, most preferably from 2.5 to 40 wt.% of an organic acid derivative of mono- and di-glycerides of the form:-(I) wherein one or two, of R₁, R₂ and R₃ are independently selected from an acyl group of the formula R₄CO-; where R₄ is a linear or branched, saturated or mon-unsaturated C₉ to C₂₁alkyl chain; wherein one or two, of R₁, R₂ and R₃ is selected from an organic acid of generic formulation (HOOC)_nXCO-; wherein X is saturated or monounsaturated organic group containing 1 to 6 carbon atoms and n = 1 to 3; wherein one or none of R₁, R₂ and R₃ is selected from H; and, b) from 0.0005 to 0.5 wt.%, preferably from 0.005 to 0.2 wt.% of a lipid esterase enzyme; and to domestic method of treatment of a textile using said composition.



21: 2021/01214. 22: 2021/02/23. 43: 2022/07/07

51: C07D; C07C

71: FAES FARMA, S.A.

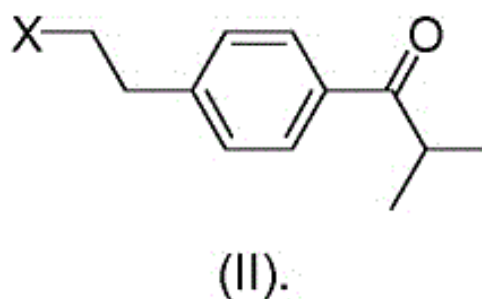
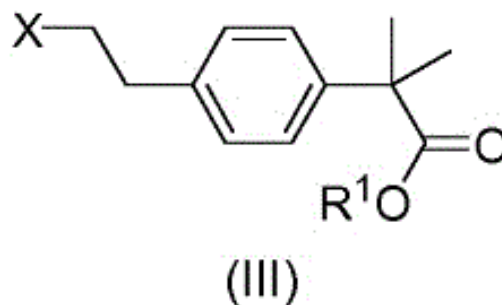
72: HERNÁNDEZ HERRERO, GONZALO, GARCÍA DOMÍNGUEZ, NEFTALÍ, MORÁN POLADURA, PABLO, GONZÁLEZ GARCÍA, TANIA, GANZA GONZÁLEZ, ÁLVARO, TATO CERDEIRAS, PALOMA

33: EP 31: 18382556.1 32: 2018-07-24

54: PROCESS AND INTERMEDIATES FOR THE PREPARATION OF BILASTINE

00: -

The invention relates to a process for preparing a compound of (III) wherein X is a leaving group; and R¹ is C₁-C₆alkyl; which comprises oxidative rearrangement of a compound of formula (II) or a solvate thereof Compounds of formula (III) are key intermediates in the synthesis of Bilastine.



21: 2021/01215. 22: 2021/02/23. 43: 2022/07/07

51: A41G

71: SPIBER INC.

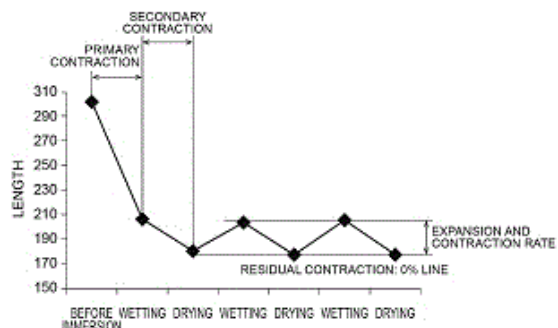
72: MATSUO, MASATO, ISHII, HIDETO, ABE, YUNOSUKE

33: JP 31: 2018-139563 32: 2018-07-25

54: ARTIFICIAL HAIR FIBER, METHOD FOR MANUFACTURING SAME, AND ARTIFICIAL HAIR

00: -

The present invention pertains to an artificial hair fiber that comprises a man-made fibroin fiber including a modified fibroin and that extends when being in a wet state and shrinks when being dried after the wet state.



21: 2021/01244. 22: 2021/02/24. 43: 2022/07/07
51: B01J

71: Dalian Institute of Chemical Physics, Chinese Academy of Sciences

72: PAN, Xiulian, JIAO, Feng, BAO, Xinhe, LI, Na

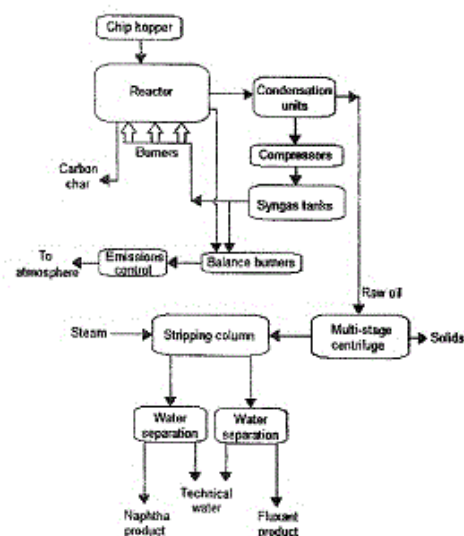
33: CN 31: 201810079238.6 32: 2018-01-26

54: CATALYST AND METHOD FOR DIRECTLY CONVERTING SYNTHESIS GAS INTO LOW-CARBON OLEFIN

00: -

The present invention relates to direct preparation of low-carbon olefins by using synthesis gas, and in particular to a catalyst and a method for directly converting synthesis gas into low-carbon olefins. In the method, synthesis gas is used as a reaction raw material and is subjected to a conversion reaction on a fixed bed or a moving bed. The catalyst is a composite catalyst, and is formed by compounding component I and component II in a mechanical mixing manner. The active ingredient of the component I is a metal oxide, and the component II is a molecular sieve having a CHA and AEI structure or one or more of metal modified CHA and/or AEI molecular sieves. The weight ratio between the active ingredient in component I and component II is in the range of 0.1-20. The reaction process has a very high product yield and selectivity. The sum of selectivity of propylene and butylene reaches 40-75%, the sum of selectivity of low-carbon olefins including ethylene, propylene and butylene can reach 50-90%, and at the same time the selectivity of the byproduct methane is below 15%, and thus the reaction process has good application prospects.

stripping step so as to recover a fraction having a first composition having a flash point above 55°C, a boiling point range starting at 140°C or higher, a density at 15°C of less than 990 kg/m³, a total acid number TAN of up to 12, a styrene content of less than 3000ppm, and an organic halogen (as C1) content of less than 50ppm, and a second composition having an initial boiling point not exceeding 75°C under atmospheric pressure, a density at 15°C of greater than 790 kg/m³, a benzene content of at least 1,25 vol%, an existent gum (washed) content greater than 10 mg/100 ml, an organic halogen (as C1) content of less than 50 mg/kg, and a colour of less than 5,0.



21: 2021/01249. 22: 2021/02/24. 43: 2022/07/07
51: C10B; C10G; C10L; C08J; B01D

71: YANCHEP TECHNOLOGY LIMITED

72: HARPER, ROBERT DAVID, TIMPANY, EDWARD ALLEN

33: EP 31: 18185720.2 32: 2018-07-26

54: PRODUCTION OF FUEL PRODUCTS FROM WASTE RUBBER MATERIAL

00: -

A process for extracting fuel products from waste rubber, comprising the steps of subjecting the waste rubber to pyrolysis to produce a pyrolysis vapour, subjecting the pyrolysis vapour to a condensation step to produce a pyrolytic oil having a boiling point range of 45-400°C and a flash point below 25°C, and then subjecting the pyrolytic oil to a vacuum steam

21: 2021/01250. 22: 2021/02/24. 43: 2022/07/07
51: C12N; A61K; A61P

71: G+FLAS LIFE SCIENCES, SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION

72: CHOE, SUNGHW, KIM, HAN SEONG, KIM, DONG WOOK, PARK, JONGJIN, YOON, JIYOUNG

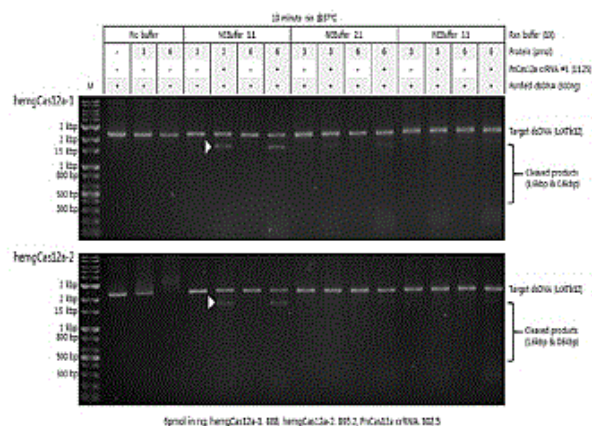
33: KR 31: 10-2018-0093336 32: 2018-08-09

54: NOVEL CRISPR-ASSOCIATED PROTEIN AND USE THEREOF

00: -

The present invention relates to a novel CRISPR-associated protein and a use thereof. A protein represented by an amino acid sequence of SEQ ID NO: 1 or SEQ ID NO: 3, according to the present invention, exhibits the activity of endonucleases, which recognize and cleave an intracellular nucleic acid sequence linked to a guide RNA. Therefore, a novel CRISPR-associated protein of the invention

can be used as a different nuclease for genome editing, in a CRISPR-Cas system.



21: 2021/01254. 22: 2021/02/24. 43: 2022/07/07
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: LANG, DIETMAR ANDREAS, THOMPSON, MARK LAWRENCE
33: EP 31: 18194918.1 32: 2018-09-17
54: DETERGENT COMPOSITION
00: -

The invention provides a detergent composition comprising: (i) from 0.1 to 10 wt.% of a soil release polymer; and (ii) from 0.0005 to 2.5 wt.% of a bacterial lipase enzyme, wherein the soil release polymer is a polyester based soil released polymer; and a method of treatment of a substrate with said composition as the use of a non-fungal lipase enzyme to provide lipolytic cleaning without degradation of said polyester soil release polymer.

21: 2021/01255. 22: 2021/02/24. 43: 2022/07/07
51: A01M; A01C; G06Q
71: AMVAC HONG KONG LIMITED
72: RICE, RICHARD L, CONRAD, LARRY M, WOODRUFF, KEITH
33: US 31: 16/112,660 32: 2018-08-25

54: SYSTEM AND METHOD FOR DISPENSING MULTIPLE LOW RATE AGRICULTURAL PRODUCTS

00: -
A system for dispensing multiple low rate agricultural products, includes an agricultural product metering system, a number of agricultural product tubes, and an agricultural product metering system. The agricultural product metering system is operably

connected to sources of low rate agricultural products. The agricultural product tubes are operatively connected to the agricultural product metering system. The agricultural product metering system is configured to dispense liquid low rate agricultural products at a low rate defined as below 3.7 fluid ounces per 1000 row feet.

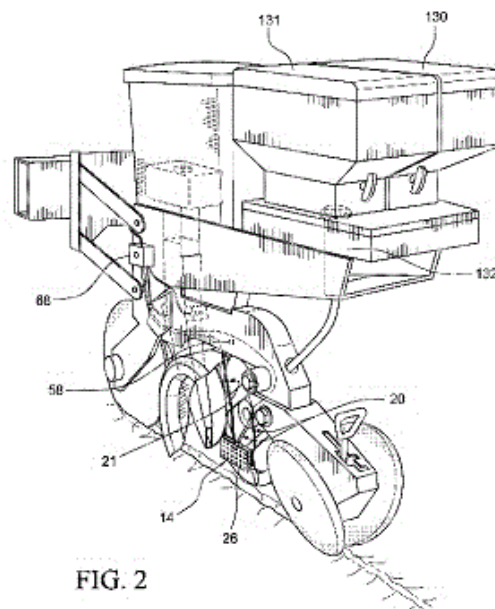


FIG. 2

21: 2021/01256. 22: 2021/02/24. 43: 2022/07/07
51: C12N
71: COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
72: SMITH, NEIL ANDREW, WANG, MING BO, ZHANG, DAAI, DORAN, TIMOTHY JAMES, TIZARD, MARK, ALLU, ANNAPURNA DEVI, GREAVES, IAN KEVIN, GAO, LINGLING, ANDERSON, JONATHAN PAUL, DE FEYTER, ROBERT

33: AU 31: PCT/AU2018/051015 32: 2018-09-17
33: AU 31: 2019900941 32: 2019-03-20
33: AU 31: 2018902840 32: 2018-08-03
33: AU 31: 2018902896 32: 2018-08-08

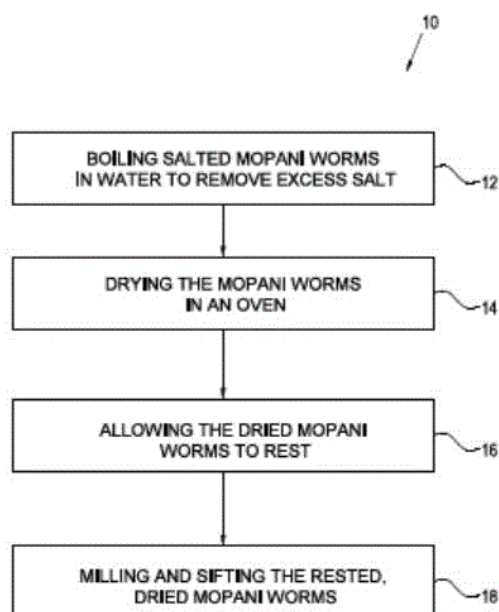
54: RNA MOLECULES COMPRISING NON-CANONICAL BASE PAIRS

00: -
The present invention relates to new double stranded RNA (dsRNA) structures and their use in gene silencing.

21: 2021/01267. 22: 2021/02/25. 43: 2022/07/07
51: A23L
71: MOLAMU, Zamokuhle Portia

72: MOLAMU, Zamokuhle Portia
 33: ZA 31: 2019/07765 32: 2019-11-25
54: HIGH PROTEIN MULTIGRAIN CEREAL
 00: -

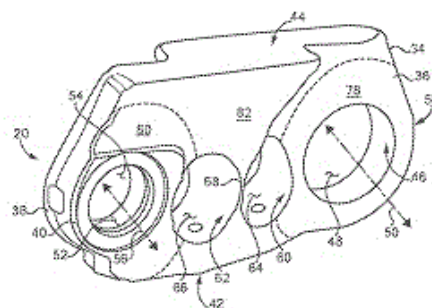
The present invention provides a multigrain cereal comprising a combination of a starch premix and mopani worms (*Gonimbrasia Belina*). In an embodiment, the starch premix comprises powdered, milled grain powders, with a composition % of approximately 80%. The grain powders may comprise a combination of one or more of modified maize, sorghum and soya. In an embodiment, the mopani worms comprises dry, milled and fine sifted mopani worms, with a composition % of approximately 14%. The invention extends to a method of preparing mopani worms (*Gonimbrasia Belina*) for use in a multigrain cereal, and to a method of preparing a multigrain cereal.



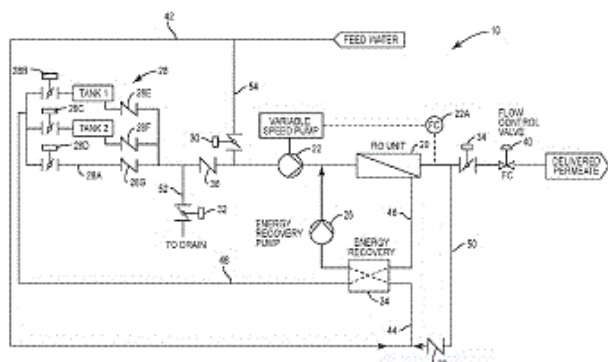
21: 2021/01274. 22: 2021/02/25. 43: 2022/07/07
 51: B62D
 71: CATERPILLAR INC.
 72: STEINER, KEVIN
 33: US 31: 16/113,744 32: 2018-08-27
**54: SCALLOP-RESISTANT TRACK LINK AND
 METHOD OF MAKING SAME**
 00: -

A track link (20) includes an elongate link body (32) formed of a link body material (76) that varies in hardness to form a first lower hardness zone (78), a

second lower hardness zone (80), and a higher hardness zone (82). The higher hardness zone (82) includes an upper rail surface (44) of the elongate link body (32) and extends substantially throughout the elongate link body (32) outside of the first and second lower hardness zones (80), which surround the track pin bores (48,54). Related methodology for making a track link (20) is also disclosed.

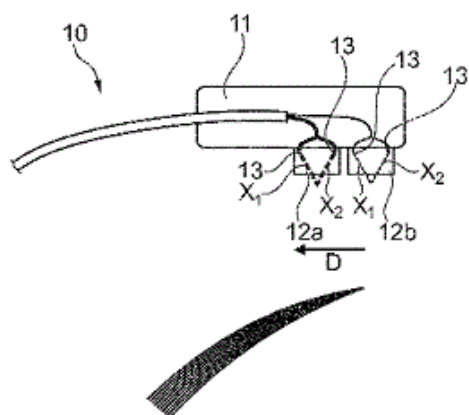


21: 2021/01301. 22: 2021/02/25. 43: 2022/07/07
 51: C02F; B01D
 71: VEOLIA WATER SOLUTIONS &
 TECHNOLOGIES SUPPORT
 72: MACK, BERNARD ROY, ROLLINGS, KEVIN
 33: US 31: 62/724,107 32: 2018-08-29
**54: HIGH RECOVERY VARIABLE VOLUME
 REVERSE OSMOSIS MEMBRANE SYSTEM**
 00: -
 A high recovery variable volume reverse osmosis system where the volume of concentrate cycled through the RO system is reduced in response to recovery levels increasing. By reducing the volume of concentrate cycled through the RO system, this reduces the cycle time of highly saturated concentrate passing through the RO system. Reducing the cycle time of concentrate passing through the RO system tends to minimize or reduce membrane scaling.



21: 2021/01302. 22: 2021/02/25. 43: 2022/07/07
51: A45D; B05B
71: L'OREAL
72: SAMAIN, HENRI, ROBINAULT, JEAN-LUC
33: FR 31: 1859122 32: 2018-10-02
54: HAIR TREATMENT METHOD
00: -

The present invention relates to a hair treatment method, comprising the step consisting in spraying onto the hair a composition for changing the form of the hair, notably a permanent-waving or curl-reducing composition, using a device (10), called a low flowrate device, comprising at least two nozzles (13) oriented such that their respective jets collide, these nozzles being supplied with said composition at pressure, the total flowrate of composition delivered by the nozzles (13) being between 0.1 and 3L/min, preferably between 0.2 and 2L/min, and even more preferably between 0.3 and 1L/min.



21: 2021/01322. 22: 2021/02/26. 43: 2022/07/07
51: C07D; A61K; A61P
71: BIONTECH SE
72: HENRY, CHRISTOPHE

33: EP 31: PCT/EP2017/072352 32: 2017-09-06

54: SUBSTITUTED IMIDAZOQUINOLINES

00: -

The invention relates to imidazoquinoline derivatives and to pharmaceutical compositions containing the imidazoquinoline derivatives. The imidazoquinoline derivatives of the invention are useful as toll-like receptor agonists, in particular agonists of TLR7, and promote induction of certain cytokines.

21: 2021/01323. 22: 2021/02/26. 43: 2022/07/07
51: C07D; A61K; A61P
71: BIONTECH SE

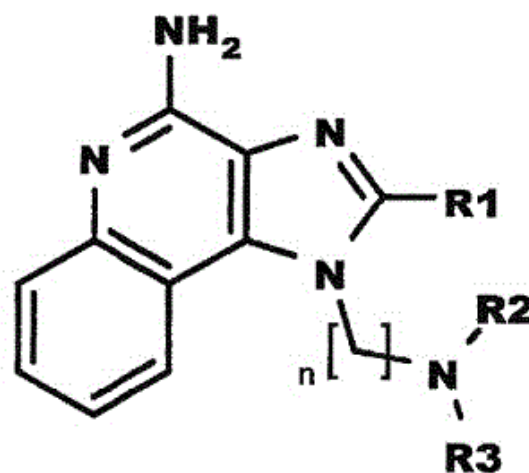
72: HENRY, CHRISTOPHE

33: EP 31: PCT/EP2017/072353 32: 2017-09-06

54: SUBSTITUTED IMIDAZOQUINOLINES AS AGONISTS OF TLR7

00: -

The invention relates to imidazoquinoline derivatives and to pharmaceutical compositions containing the imidazoquinoline derivatives. The imidazoquinoline derivatives of the invention are useful as toll-like receptor agonists, in particular agonists of TLR7, and promote induction of certain cytokines.



21: 2021/01327. 22: 2021/02/26. 43: 2022/08/16
51: C12O

71: RIPTIDE BIOSCIENCE, INC.

72: JAYNES, Jesse, LOPEZ, Henry Wilfred,
MARTIN, George R., YATES, Clayton, GARVIN,
Charles

54: PEPTIDES HAVING IMMUNOMODULATORY PROPERTIES

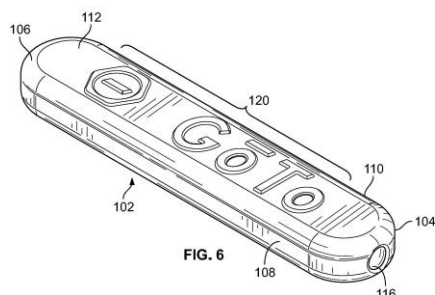
00: -

The present disclosure provides novel peptides that having immunomodulatory activities *in vitro* and *in vivo*. The peptides can include a particular

striapathic region of alternating hydrophilic and hydrophobic modules that can adopt an amphipathic conformation under physiological conditions. This disclosure provides peptides that can specifically bind to key functional regions on one or more signaling proteins, particularly pro-inflammatory cytokines, macrophage inhibition proteins, and his tone regulation proteins. This disclosure includes peptides that are sufficiently stable in the circulation to allow for intravenous administration. Pharmaceutical compositions including the subject peptides are also provided. The subject peptides find use in methods of modulating macrophage activity. In some cases, the peptide is a CD206-binding agent. Also provided are methods of treating a subject for a condition associated with chronic inflammation using the peptides and compositions of this disclosure.

21: 2021/01357. 22: 2021/02/26. 43: 2022/07/07
51: A61M; G09F
71: Star Luminal LLC
72: FRIEDMAN, David J., FRIEDMAN, Elizabeth S., HOGNAUER, Daniel Q., HADDAD, Eric A., RUTTER, Bryce G., RYAN, Max W., BROWN, Tucker P.
33: US 31: 62/724,424 32: 2018-08-29
54: SYSTEM OF MEDICAL INDICATORS HAVING MULTISENSORY, MULTIPURPOSE AND MULTIFUNCTIONAL FEATURES

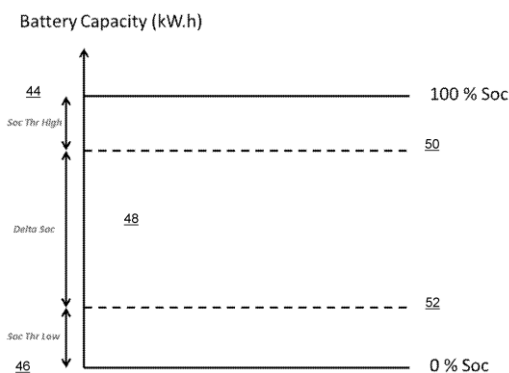
00: -
An indicator (100) includes a body (102) having a first end (104), a second end (106) opposite the first end, a first surface (112) and a second surface (114) opposite the first surface, each of which extends from the first end to the second end, and an aperture (116) extending from the first end to the second end, the aperture being sized and shaped to receive a tube, and at least one of the first and second surfaces including a haptic signature (120) formed thereon.



21: 2021/01377. 22: 2021/02/26. 43: 2022/08/17

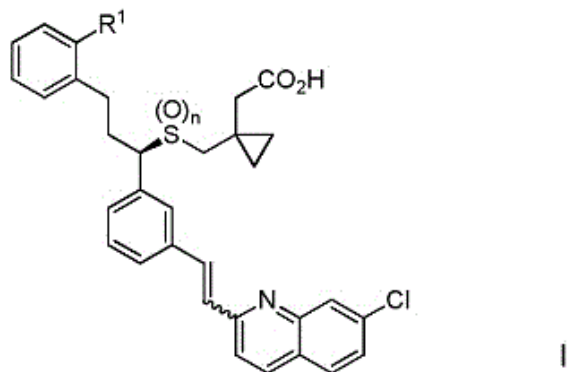
51: H02J
71: OPEN ENERGI LIMITED
72: BOULINEAU, Remi
33: GB 31: 1813875.0 32: 2018-08-24
54: BATTERY ENERGY STORAGE SYSTEM
00: -

A battery energy storage system for use in providing balancing services to an electrical power distribution network is set to monitor the state of charge (SoC) of a storage battery (26). If the SoC is within an optimal range (48), the balancing service is provided solely by charging and discharging the battery. If the battery SoC falls below a predetermined low threshold (52), a first non-battery asset is operated to increase power supplied to the network. Similarly, if the battery SoC rises above a predetermined high threshold (50), a second non-battery asset is operated to provide the balancing service. With this arrangement, requirements on the energy storage capacity of the battery are reduced. For the system to meet balancing service regulatory requirements, the battery need only remain capable of charging or discharging beyond each threshold (50, 52) for a period of time that covers that taken for the respective asset to reach operational capacity.



21: 2021/01398. 22: 2021/03/01. 43: 2022/07/07
51: A61K; C07K; A61P
71: JIANGYIN USUN PHARMACEUTICAL CO., LTD.
72: SAMUELSSON, BENGT INGEMAR, GU, MING
33: CN 31: PCT/CN2018/105703 32: 2018-09-14
33: CN 31: PCT/CN2018/119072 32: 2018-12-04
54: NEW CONJUGATES OF MONTELUKAST AND PEPTIDES
00: -
There is provided a peptide-containing compound that comprises a peptide component which is an

amino acid sequence of from 2 to 45 amino acids, which peptide component is covalently bonded to one or more compounds of the formula (I), wherein: R^1 is selected from the group consisting of - $C(CH_3)_2OH$, - $COCH_3$, - $C(CH_3)=CH_2$ and - $C(CH_3)_2H$; and n is 0, 1 or 2, as well as regioisomers, stereoisomers, and pharmaceutically-or cosmetically-acceptable salts of said peptide-containing compound. The compound of formula I is preferably montelukast, montelukast styrene or hydrogenated montelukast styrene. The peptide-containing compound is particularly useful in the treatment of inflammation, including wounds, hemorrhoids, burns, psoriasis, acne, atopic dermatitis, allergic rhinitis, allergic conjunctivitis, chronic obstructive pulmonary disease, inflammatory bowel disease (such as. ulcerative colitis). The peptide-containing compound is also useful in the treatment of idiopathic pulmonary fibrosis.



21: 2021/01489. 22: 2021/03/04. 43: 2022/05/18
51: A61K

71: CELLIX BIO PRIVATE LIMITED

72: KANDULA, Mahesh

33: IN 31: 201841038173 32: 2018-10-08

54: COMPOSITIONS AND METHODS FOR THE TREATMENT OF PARKINSON'S DISEASE

00: -

The invention relates to the compounds of formula I, formula II and/or formula III or its pharmaceutical acceptable salts, as well as polymorphs, solvates, enantiomers, stereoisomers and hydrates thereof. The pharmaceutical compositions comprising an effective amount of compound of formula I, formula II or formula III, and methods for treating or preventing Parkinson's disease may be formulated for oral, buccal, rectal, topical, transdermal, transmucosal,

intravenous, parenteral administration, subcutaneous, depot, intramuscular, syrup, or injection. Such compositions may be used to treatment or management of Parkinson's disease as well as scleroderma, restless leg syndrome, hypertension and gestational hypertension.

21: 2021/01835. 22: 2021/03/18. 43: 2022/07/25
51: B01D

71: HAVEN TECHNOLOGY SOLUTIONS LLC

72: ELMS, David James, HUDSPETH, Gregory Allen

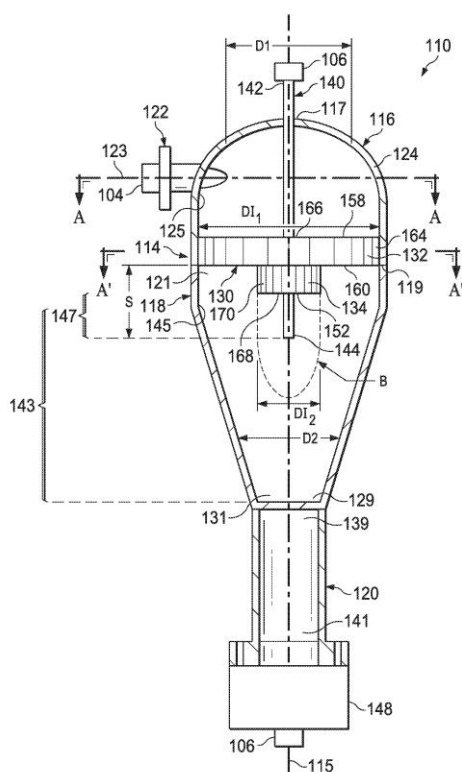
33: US 31: 62/733,493 32: 2018-09-19

33: US 31: 62/873,748 32: 2019-07-12

54: METHOD AND DEVICE FOR SEPARATING A LIGHTER DENSITY FLUID FROM A HEAVIER DENSITY FLUID

00: -

A fluid separation apparatus for removing one fluid component from another fluid component in a fluid stream includes an impeller disposed between an annular inlet chamber and a first fluid chamber having a hollow, conical trapezoidal shape with a diameter that reduces along a portion of the length of the first fluid chamber. The impeller redirects a liquid flowing in a circular swirling flow path along the wall of the inlet chamber to an outlet an inlet of the first fluid chamber disposed adjacent the central axis of the first fluid chamber. A coaxially aligned extraction pipe extends into a lighter density fluid envelope formed in the first fluid chamber adjacent the inlet of the first fluid chamber. The extraction pipe may be dynamically adjustable based on the shape of the lighter density fluid envelope to maximize removal of lighter density fluid from the lighter density fluid envelope.



21: 2021/01882. 22: 2021/03/19. 43: 2022/06/29
51: A61K; A61P
71: Asahi Kasei Pharma Corporation
72: SAKAI, Takumi, KUSAKAWA, Genichi, UCHIDA, Yugo

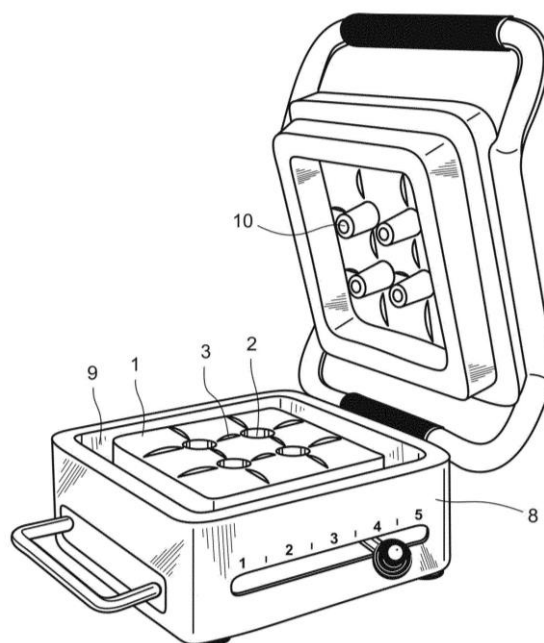
33: JP 31: 2018-183447 32: 2018-09-28
54: MEDICAMENT FOR MITIGATING CONDITIONS AND/OR SUPPRESSING ONSET OF PERIPHERAL NEUROPATHY INDUCED BY ANTI-MALIGNANT TUMOR AGENT

00: -
This medication is a medication for alleviating the symptoms of peripheral neuropathy caused by oxaliplatin and/or suppressing the onset of peripheral neuropathy, in a treatment that sets the intravenous administration of oxaliplatin to a human cancer patient and the withdrawal of the administration as one cycle and repeats the one cycle, and contains 0.06 mg/kg of thrombomodulin to be intravenously administered once per cycle on the first day of each cycle of the treatment as an active ingredient.

21: 2021/01888. 22: 2021/03/19. 43: 2022/07/07
51: A47J
71: IP ideas production GmbH & Co. KG

72: BIRKENSTOCK, Christian
33: DE 31: 20 2018 105 430.9 32: 2018-09-21
54: SYSTEM FOR PREPARING AND PRESENTING FOOD

00: -
The invention relates to a system for presenting food according to the preamble of the claim and to a system for preparing food according to the preamble of claim 33.



21: 2021/01925. 22: 2021/03/23. 43: 2022/06/29
51: A21D; A23B; A23K; C12F
71: Anheuser-Busch InBev S.A.
72: GIL-MARTINEZ, Jorge, ARENDT, Elke, MUENCH, Steffen
33: BE 31: 2018/5588 32: 2018-08-24

54: A PROCESS FOR MICROBIAL STABILIZATION AND PROCESSING OF BREWERS SPENT GRAIN, MICROBIOLOGICALLY STABILIZED BREWERS SPENT GRAIN POWDER AND USE THEREOF

00: -
A process processing fresh brewer's spent grains (BSG), the process comprising the steps of:
Producing a mash comprising barley malt;
Separating the mash from BSG; Collecting the BSG;
Microbiologically stabilizing the collected BSG;
drying said BSG; and powdering said dried BSG.

21: 2021/01928. 22: 2021/03/23. 43: 2022/07/07
51: A01N; A01P; A61K

71: UNILEVER GLOBAL IP LIMITED
72: AGARKHED, AJIT MANOHAR, AGARWAL, KHUSHBU, MAJUMDAR, AMITABHA, MATHAPATHI, MRUTHYUNJAYA SWAMY
33: EP 31: 18203709.3 32: 2018-10-31

54: AN ANTIMICROBIAL COMPOSITION

00: -

This invention relates to an antimicrobial composition, more particularly a personal care composition like a soap bar. It more particularly relates to a composition comprising an essential oil compound and a tetra hydroxy alkylene amine compound which interact synergistically to provide the desired result.

21: 2021/01954. 22: 2021/03/24. 43: 2022/07/07
51: A61K; C07D

71: LUNELLA BIOTECH, INC.

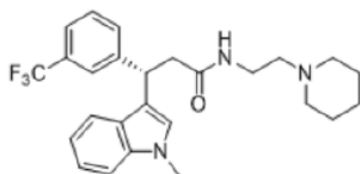
72: LISANTI, MICHAEL P, SOTGIA, FEDERICA

33: US 31: 62/524,829 32: 2017-06-26

54: MITOKETOSCIINS: MITOCHONDRIAL-BASED THERAPEUTICS TARGETING KETONE METABOLISM IN CANCER CELLS

00: -

The present disclosure relates to a compound



And methods of using the compound to treat cancer and microbial infections, as well as a method of using the compound to provide anti-aging benefits.

21: 2021/01961. 22: 2021/03/24. 43: 2022/07/07
51: C02F; H02S; F24S

71: PYMAN, Robert James

72: PYMAN, Robert James, THOMSON, Richard William, DUNN, Darren Geoffrey

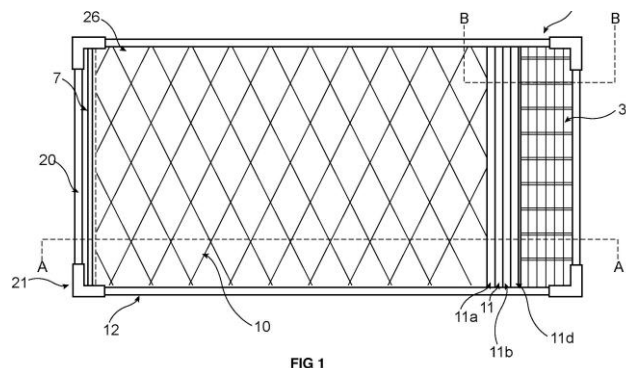
33: AU 31: 2018903604 32: 2018-09-25

54: IMPROVEMENTS TO MULTIFUNCTION SOLAR UTILITY PANELS

00: -

A multi-function solar panel, the panel being of the tilted tray type which is divided into three chambers, one chamber being used for electricity generation, and cooling of the PV panel and partial preheating of the feed water to a still, one for processing the feed water to produce potable water and the other for water storage and other ancillary devices used in the

production process and PAYG functionality of the multi-function solar panel.



21: 2021/01980. 22: 2021/03/24. 43: 2022/07/07
51: B65D

71: JT INTERNATIONAL S.A.

72: COLLINS, TIMOTHY

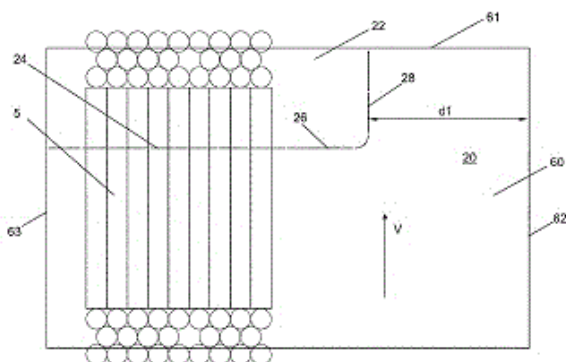
33: EP 31: 18208557.1 32: 2018-11-27

54: CONTAINER FOR CONSUMER GOODS

00: -

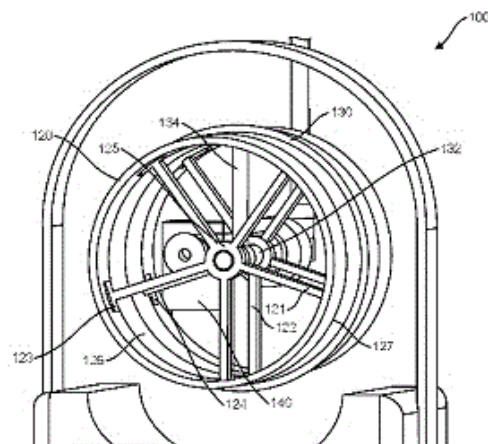
The present invention relates a container (1) for consumer goods (5) comprising an outer housing (10) comprising a box portion (17) having a top opening closable by a lid portion (13), the box portion (17) comprising a front wall (12) and a back wall (16) connected to each other by a bottom wall (15) opposite the top opening and two side walls (14, 18); and a bundle of elongated consumer goods (5) wrapped with an inner liner (20) and being arranged within the outer housing (10), and an inner frame (30) arranged between outer housing (10) and inner liner (20), wherein the inner frame (30) comprises a front panel (32) and two side panels (34, 36) and further comprises a first vertical crease or perforated line (31) across at least part of the front panel (32) for defining at least one foldable portion (40) which can be folded to the inside of the container (1) for selectively limiting the space within the container (1); wherein the inner liner (20) is formed out of an inner liner sheet (60) which comprises an L-shaped perforation (24) for separating a removable portion (22) from the remainder of the inner liner (20); and the removable portion (22) defining an access opening (8) through which consumer goods (5) can be taken out, and wherein the perforation (24) of the inner liner (20) extends along the front wall (12), a first side wall (14) and the back wall (16) of the container (1). The present invention further relates to a corresponding inner liner (20) and a method of

wrapping a plurality of elongated consumer goods (5) within an inner liner (20).



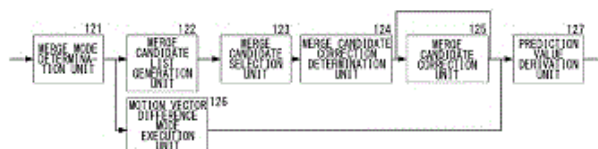
21: 2021/02031. 22: 2021/03/25. 43: 2022/07/07
 51: B08B
 71: CLEANBOX TECHNOLOGY, INC.
 72: GEORGESON, DAVID ALLEN
 33: US 31: 62/724,541 32: 2018-08-29
 33: US 31: 62/728,652 32: 2018-09-07
**54: PIVOTING LIGHT CAROUSEL FOR USE WITH
 CLEANING AND/OR DISINFECTING CRADLE
 FOR VIRTUAL REALITY HEADSETS**

00: -
 An apparatus for cleaning a device is provided which may comprise a chamber for accommodating the device and a carousel disposed within the chamber which comprises a first ultraviolet (UV) light emitting diode (LED) and a second UV LED disposed on the carousel, wherein a first UV light emitted from the first UV LED can at least partially overlap a second UV light emitted from the second UV LED. The carousel can further comprise an air halo disposed on an outer surface of the carousel, the air halo including at least one outlet to expend pressurized air.



21: 2021/02033. 22: 2021/03/25. 43: 2022/07/07
 51: H04N
 71: JVCKENWOOD CORPORATION
 72: TAKEHARA, HIDEKI
 33: JP 31: 2018-233432 32: 2018-12-13
 33: JP 31: 2019-171782 32: 2019-09-20
**54: IMAGE DECODING DEVICE, IMAGE
 DECODING METHOD, AND IMAGE DECODING
 PROGRAM**

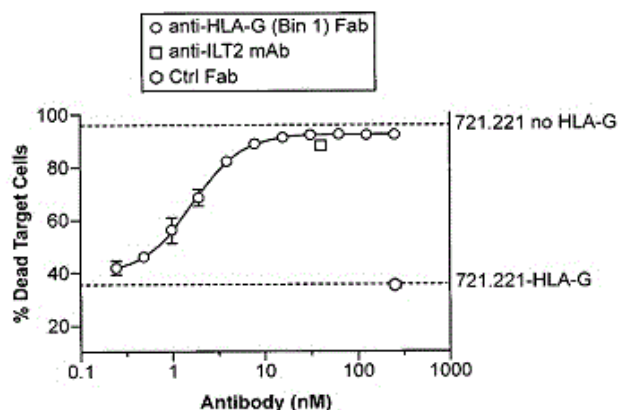
00: -
 The present invention generates a merge candidate list, selects a merge candidate from the merge candidate list as a selected merge candidate, decodes a code string from a coded stream and derives a correction vector, adds the correction vector to a first predictive motion vector of the selected merge candidate without scaling, and subtracts the correction vector from a second predictive motion vector of the selected merge candidate without scaling and derives a corrected merge candidate.



21: 2021/02034. 22: 2021/03/25. 43: 2022/07/07
 51: C07K; A61P
 71: TIZONA THERAPEUTICS
 72: BEERS, COURTNEY, CORBIN, JOHN,
 HODGES, DOUG, MOESTA, ACHIM, SOROS,
 VANESSA, WIDBOOM, PAUL FREDRICK,
 WARFIELD, JOSEPH ROBERT
 33: US 31: 62/737,666 32: 2018-09-27

54: ANTI-HLA-G ANTIBODIES, COMPOSITIONS COMPRISING ANTI-HLA-G ANTIBODIES AND METHODS OF USING ANTI-HLA-G ANTIBODIES
00: -

Provided herein are antibodies that selectively bind to HLA-G and compositions comprising the antibodies. Also provided are methods of using the antibodies, such as therapeutic and diagnostic methods.



21: 2021/02035. 22: 2021/03/25. 43: 2022/07/07

51: H04N

71: JVCKENWOOD CORPORATION

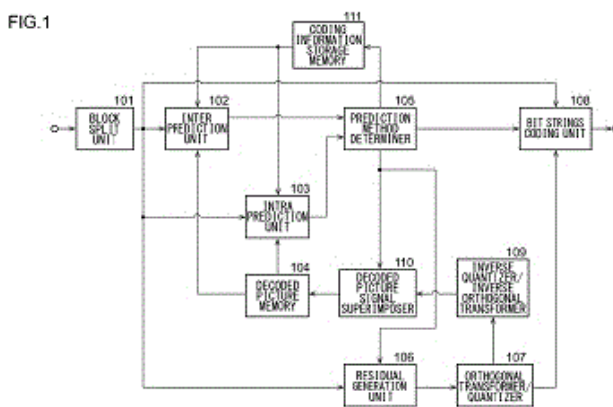
72: FUKUSHIMA, SHIGERU, KUMAKURA, TORU,
TAKEHARA, HIDEKI, NAKAMURA, HIROYA,
SAKAZUME, SATORU, KURASHIGE, HIROYUKI
33: JP 31: 2019-042575 32: 2019-03-08

54: VIDEO ENCODING DEVICE, VIDEO ENCODING METHOD, VIDEO ENCODING PROGRAM, VIDEO DECODING DEVICE, VIDEO DECODING METHOD, AND VIDEO DECODING PROGRAM

00: -

The present invention is provided with: a triangle merge candidate list construction unit that constructs a triangle merge candidate list including spatial merge candidates; a first triangle merge candidate selection unit that selects a first triangle merge candidate subjected to uni-prediction from a triangle merge candidate list; and a second triangle merge candidate selection unit that selects a second triangle merge candidate subjected to uni-prediction from the triangle merge candidate list, wherein, for a region in which motion compensation is performed through a weighted average of the first triangle merge candidate and the second triangle merge candidate, storage is performed by using uni-

prediction motion information of either the first triangle merge candidate or the second triangle merge candidate.



21: 2021/02036. 22: 2021/03/25. 43: 2022/07/07

51: H04N

71: JVCKENWOOD CORPORATION

72: KURASHIGE, HIROYUKI

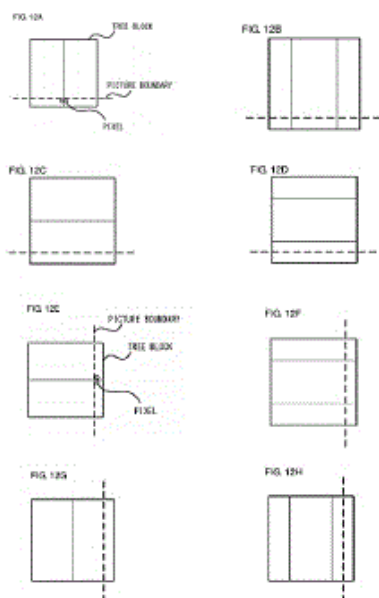
33: JP 31: 2018-225467 32: 2018-11-30

33: JP 31: 2019-181258 32: 2019-10-01

54: IMAGE DECODING DEVICE, IMAGE DECODING METHOD, AND IMAGE DECODING PROGRAM

00: -

According to the present invention, a block division unit includes: a four-division unit which divides, by four, a target block by dividing, by half, the target block in each of a horizontal direction and a vertical direction of the target block through recursive division and generates four blocks; and a two-three division unit which divides, by two or three, a target block in a horizontal direction or a vertical direction of the target block through recursive division and generates two or three blocks. When the target block is horizontally divided and the divided target block exceeds the right side of a picture boundary, the two or three-division unit prohibits the target block from being divided in the horizontal direction. When the target block is vertically divided and the divided target block exceeds the bottom side of a picture boundary, the two or three-division unit prohibits the target block from being divided in the vertical direction.



21: 2021/02058. 22: 2021/03/26. 43: 2022/07/07
 51: A61K; C07D; A61P
 71: PHILIP MORRIS PRODUCTS S.A.
 72: MAZUROV, Anatoly
 33: EP 31: 18213200.1 32: 2018-12-17
54: 3-(1,2,3,6-TETRAHYDROPYRIDIN-2-YL)PYRIDINE GLUTARATE OR A PHARMACEUTICALLY ACCEPTABLE SOLVATE THEREOF

00: -

The present invention relates to 3 -(1,2,3,6-tetrahydropyridin-2-yl)pyridine glutarate or a pharmaceutically acceptable solvate thereof, to a crystal thereof and to a polymorph of this crystal It further relates to the medicinal use of each of these, in particular in the treatment or prophylaxis of substance addiction or inflammation

21: 2021/02070. 22: 2021/03/26. 43: 2022/07/07
 51: B62D; F16C
 71: MARTIN, GEOFFREY
 72: MARTIN, GEOFFREY
 33: US 31: 62/725,121 32: 2018-08-30
54: REMOTELY-CONTROLLED MAGNETIC SURVEILLANCE AND ATTACK PREVENTION SYSTEM AND METHOD

00: -

A remotely-controlled, movable, magnetic system and method for surveillance and attack prevention. The system includes a motive apparatus including a mounting body for mounting a series of magnets and wheels or rollers and suspending the apparatus from

a magnetic ceiling T-bar grid or alternative metal track. The wheels or rollers make contact with the T-bars or track; provide some space between the magnets and T-bars or track; and allow for movement of the system along the T-bar grid or track. One or more of the wheels is drivingly connected to a drive motor. The system further includes a processor, an input/output interface, and a remote computing device or remote control for controlling the motive apparatus via a communications network. The motive apparatus further mounts components and tools remotely controlled by a user for observing, identifying a potential attacker, and hindering a potential attack.

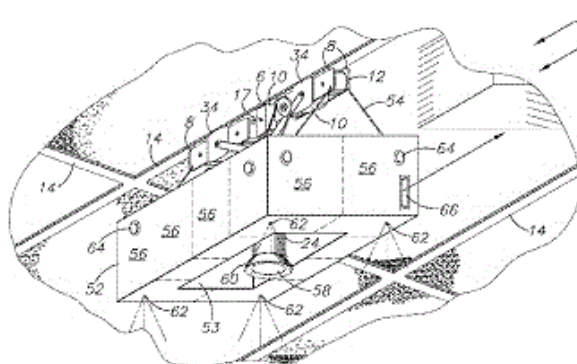


FIG. 1

21: 2021/02132. 22: 2021/03/30. 43: 2022/07/07
 51: A24F
 71: ALTRIA CLIENT SERVICES LLC
 72: SCHIFF, DAVID, CARRICK, CHRIS, HAWES, ERIC, ROSTAMI, ALI, TUCKER, CHRISTOPHER S, YERKIC-HUSEJNOVIC, BERINA
 33: US 31: 61/883,023 32: 2013-09-26
54: ELECTRONIC SMOKING ARTICLE

00: -

An e-vaping section which comprises (i) at least one first wick configured to transfer a pre-vapor formulation (ii) at least one heater and (iii) a support plate. The wick is a filamentary wick that is U-shaped with opposing ends each extending into a reservoir. The heater is operable upon at least one portion of the wick to at least partially volatilize the pre-vapor formulation and form a vapor. The support plate is operable to support the heater and at least partially support the wick. The support plate is operable to form an electrical connection between the heater and a power supply. The support plate is near a

downstream end of the reservoir relative to a normal direction of airflow through the e-vaping section during use. A major surface of the support plate is positioned to be transverse to the normal direction of airflow.

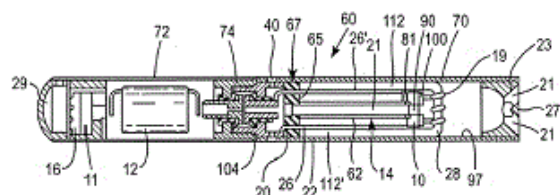


FIG. 2

21: 2021/02133. 22: 2021/03/30. 43: 2022/07/11
51: G02C

71: OHIO STATE INNOVATION FOUNDATION

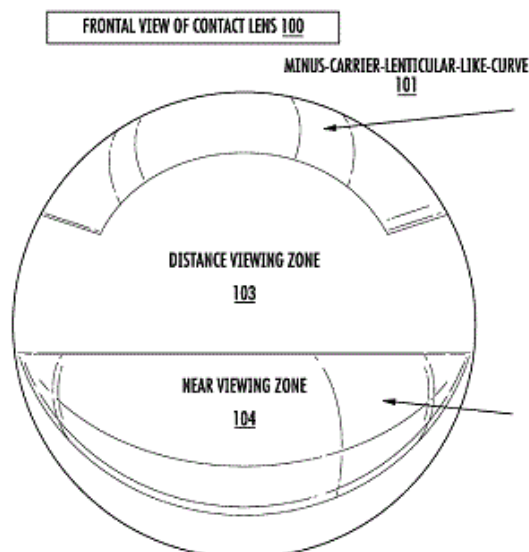
72: BAILEY, MELISSA D, BARR, JOSEPH T

33: US 31: 15/274,159 32: 2016-09-23

54: CONTACT LENS COMPRISING A LENTICULAR IN A SUPERIOR PORTION OF THE CONTACT LENS

00: -

Disclosed herein is a contact lens comprising a lenticular in a superior portion of the contact lens wherein the contact lens attaches to an upper eyelid of a wearer by the lenticular interacting with an upper tarsal plate of the upper eyelid of a wearer, said interaction allows the contact lens to translate upwards in downgaze and maintain rotational stability. In one aspect, the lenticular has a top surface, said top surface having a shape selected from the group consisting of flat, flat with rounded corners, concave, convex or tapered having a thicker portion closer to an edge of the contact lens, or combinations thereof. In another aspect, the lenticular is comprised of a plurality of lenticular sections. In yet another aspect, the lenticular is anatomically-shaped.



21: 2021/02134. 22: 2021/03/30. 43: 2022/07/07
51: E04G

71: TGR CONSTRUCTION, INC.

72: FISHER, THOMAS, SCHAFER, GREGORY

33: US 31: 15/722,417 32: 2017-10-02

54: CONCRETE FORMING SYSTEM

00: -

A concrete forming system for reducing the time and labor required for the framing, pouring, and curing of concrete walls. The concrete forming system generally includes concrete forms including a first wall, a second wall opposing the first wall, and a pair of sidewalls. A cavity is formed between the walls; with an opening being fluidly connected to the cavity. A first vehicle is connected to the first wall and a second vehicle is connected to the second wall. Using the vehicles, the positioning and orientation of the walls may be adjusted. After the walls have been placed and oriented, the vehicles will hold the walls in place as concrete is poured into the cavity through the opening. The concrete is allowed to cure into a structure; after which the vehicles and walls may be moved to another location to repeat the process.

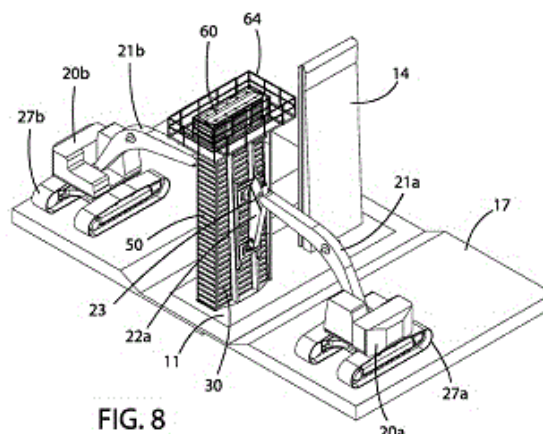
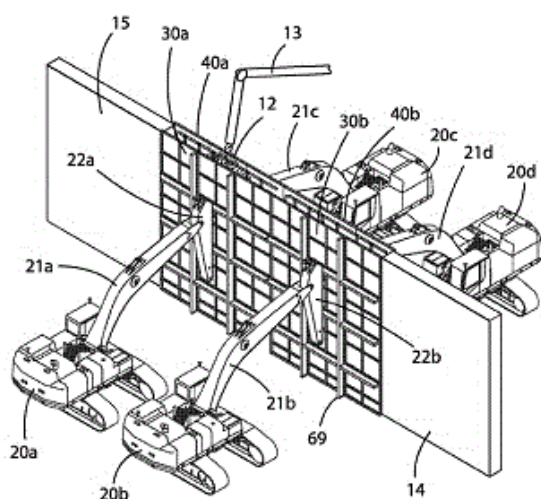


FIG. 8

21: 2021/02135. 22: 2021/03/30. 43: 2022/07/07
51: E04G

71: TGR CONSTRUCTION, INC.

72: FISHER, THOMAS, SCHAFER, GREGORY

33: US 31: 15/722,417 32: 2017-10-02

54: CONCRETE FORMING SYSTEM

00: -

A concrete forming system for reducing the time and labor required for the framing, pouring, and curing of concrete walls. The concrete forming system generally includes concrete forms including a first wall, a second wall opposing the first wall, and a pair of sidewalls. A cavity is formed between the walls; with an opening being fluidly connected to the cavity. A first vehicle is connected to the first wall and a second vehicle is connected to the second wall. Using the vehicles, the positioning and orientation of the walls may be adjusted. After the walls have been placed and oriented, the vehicles will hold the walls in place as concrete is poured into the cavity through the opening. The concrete is allowed to cure into a structure; after which the vehicles and walls may be moved to another location to repeat the process.

21: 2021/02156. 22: 2021/03/30. 43: 2022/07/07
51: C10L; C10M

71: CHEVRON ORONITE COMPANY LLC,
CHEVRON U.S.A. INC.

72: CHERPECK, RICHARD EUGENE, ELLIOTT,
IAN G, GUNAWAN, THERESA LIANG, MARIA,
AMIR GAMAL

33: US 31: 62/741,229 32: 2018-10-04

**54: HYDRIDE DONORS AS AN ADDITIVE FOR
REDUCING LOW SPEED PRE-IGNITION EVENTS**

00: -

Fuel and lubricant compositions are provided that contain an organic hydride-based reductant. Methods for preventing or reducing low speed pre-ignition events in an internal combustion engines using these compositions are also provided.

21: 2021/02157. 22: 2021/03/30. 43: 2022/07/07
51: A61K; A61P

71: LUNELLA BIOTECH, INC.

72: LISANTI, MICHAEL P, SOTGIA, FEDERICA

33: US 31: 62/750,559 32: 2018-10-25

33: US 31: 62/740,137 32: 2018-10-02

33: US 31: 62/788,187 32: 2019-01-04

**54: AZITHROMYCIN AND ROXITHROMYCIN
DERIVATIVES AS SENOLYTIC DRUGS**

00: -

This disclosure describes the use of azithromycin, roxithromycin, and telithromycin, including derivatives thereof, as senolytic drugs. BrdU was used to induce senescence in model human fibroblast cell lines. Also disclosed are methods for screening compounds for senolytic activity. The SRB assay was used to measure cell viability through protein content. Azithromycin roxithromycin, and telithromycin, clinically-approved pharmaceuticals,

were found to be senolytic drugs. However, the closely-related parent compound, erythromycin, showed no senolytic activity. Azithromycin strongly induced both aerobic glycolysis and autophagy in human fibroblasts, but showed bi-phasic effects including on mitochondrial oxygen consumption rates with inhibitory activity at 50 μ M and stimulatory activity at 100 μ M. The xCELLigence real-time assay system showed that azithromycin preferentially targets senescent cells, removing approximately 97% (nearly a 25-fold reduction in senescent cells).

21: 2021/02181. 22: 2021/03/31. 43: 2022/07/07

51: A47J; F24B

71: CAMPBELL, Henry Stanley

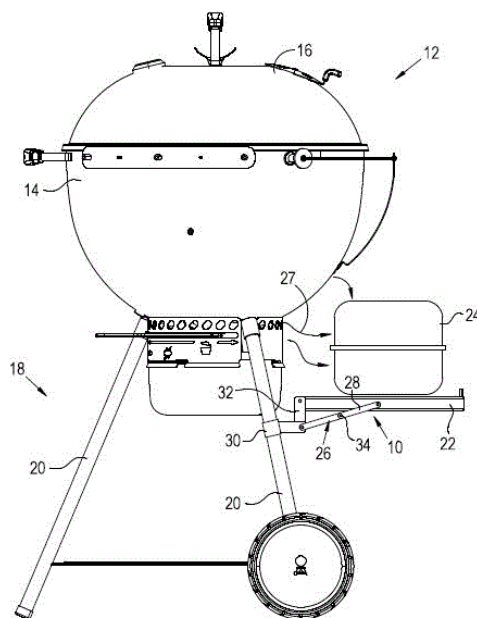
72: CAMPBELL, Henry Stanley

33: ZA 31: 2020/01853 32: 2020-03-24

54: KETTLE BARBEQUE WARMING TRAY ARRANGEMENT

00: -

A warming tray arrangement for a kettle barbeque is provided, the kettle barbeque comprising a fire bowl for accommodating hot coals, the fire bowl being supported by a leg arrangement comprising at least three spaced apart support legs to support the fire bowl. The warming tray arrangement comprises a warming tray to support a food dish and a fixing bracket arrangement to connect the warming tray to one of the support legs. The warming tray is supported and/or arranged to be proximate the fire bowl, so that the heat from the hot coals within the fire bowl, which radiates outwardly away from the fire bowl, can warm the food dish on the warming tray. In an embodiment, the fixing bracket arrangement comprises a pair of fixing brackets, each being connected to adjacent spaced apart support legs, so that the warming tray extends between the adjacent spaced apart support legs.



21: 2021/02198. 22: 2021/03/31. 43: 2022/07/07

51: C23C; B01J

71: AGC GLASS EUROPE, AGC INC., AGC FLAT GLASS NORTH AMERICA, INC., AGC VIDROS DO BRASIL LTDA

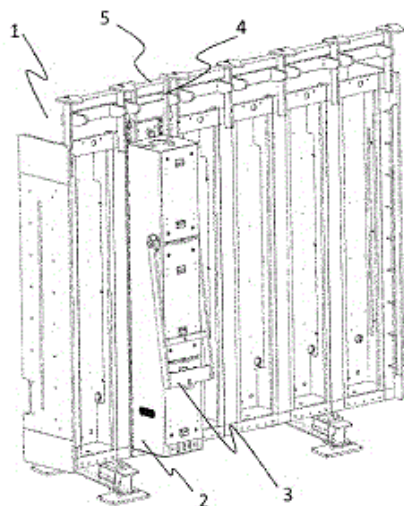
72: BELLET, PHILIPPE, BIARD, JEAN-PHILIPPE, ORLEANS, ADRIEN, OLIVIER, CARINE

33: EP 31: 18192288.1 32: 2018-09-03

54: KIT FOR MOUNTING A SURFACE TREATMENT CHAMBER

00: -

The present invention concerns a kit of parts for mounting a chamber for a surface treatment apparatus comprising a static body (1) and a movable lid (2) wherein said movable lid (2) comprises a handling portion (3), said handling portion (3) being coupled to said movable lid (2) such that said handling portion (3) is rotatable about a first transverse axis Y1 with respect to said movable lid (2), and said movable lid (2) comprises at least one hooking element (4) for being mechanically coupled to at least one coupling portion (5) of said static body (1). The present invention further concerns a chamber for a surface treatment apparatus comprising said kit of arts and a method for mounting said surface treatment chamber.



21: 2021/02199. 22: 2021/03/31. 43: 2022/07/07

51: B65D; A47G

71: THISCAP, INC.

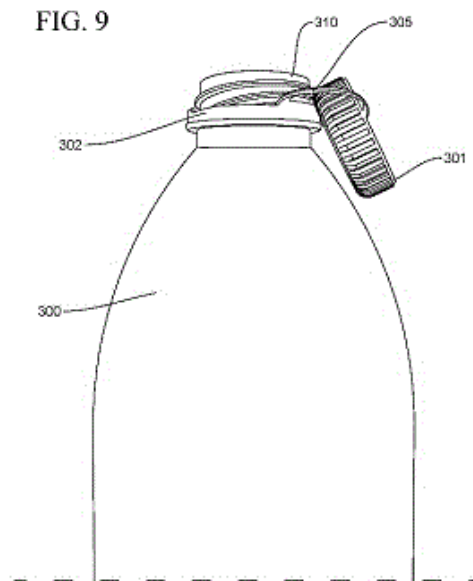
72: MAGUIRE, MICHAEL JOSEPH

54: CAP FOR CONTAINER

00: -

A cap for a container is formed so that the cap has a top plate and a circular sidewall. Two opposite sides of the circular sidewall circularly connect to each other, one periphery of the circular sidewall connecting to one surface of the top plate forming a closed end, and another periphery of the circular sidewall at an opposite side of the closed end forms an opened end. Incisions are in the circular sidewall. The incisions form a ring member located at the opened end of the cap separated from a main body of the cap by a first incision and a second incision between the opened end of the main body and the ring member.

FIG. 9



21: 2021/02205. 22: 2021/03/31. 43: 2022/07/25

51: H04N

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

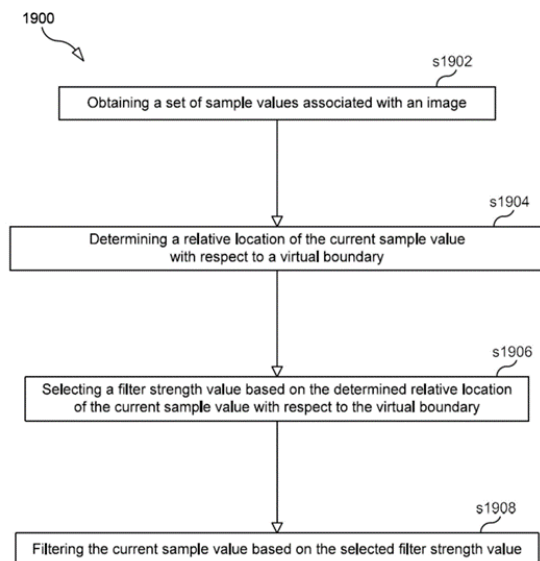
72: ANDERSSON, Kenneth, STRÖM, Jacob, ZHANG, Zhi, ENHORN, Jack

33: US 31: 62/953,310 32: 2019-12-24

54: VIRTUAL BOUNDARY PROCESSING FOR ADAPTIVE LOOP FILTERING

00: -

A method for encoding or decoding an image of a video sequence is provided. The method comprises obtaining a set of sample values associated with the image. The method comprises determining a relative location of the current sample value with respect to a virtual boundary. The virtual boundary is defined with respect to a block boundary between the first block of sample values and a second block of sample values. The virtual boundary is parallel with the block boundary and separated from the block boundary by at least one row or column of sample values included in the first block of sample values. The method comprises a filter strength value based on the determined relative location of the current sample value with respect to the virtual boundary. The method comprises filtering the current sample value based on the selected filter strength value.



21: 2021/02261. 22: 2021/04/06. 43: 2022/07/25
51: A61K

71: THE UNITED STATES GOVERNMENT AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, THE UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH OF HIGHER EDUCATION, XIAMEN UNIVERSITY, UNIVERSITY OF EXETER

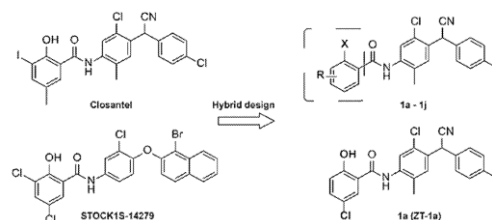
72: SUN, Dandan, DENG, Xianming, ZHANG, Jinwei, BHUIYAN, Mohammad Iqbal Hossain, MOLYNEAUX, Bradley J.

33: US 31: 62/740,336 32: 2018-10-02

54: SPAK KINASE INHIBITORS AS NEUROPROTECTIVE AGENTS

00: -

The present disclosure is concerned with N-(5-chloro-4-((4-chlorophenyl)(cyano)methyl)-2-methylphenyl)benzamide compounds that are capable of inhibiting SPAK kinase function, methods of treating hypoxic brain injuries due to, for example, ischemic stroke. This abstract is intended as a scanning tool for purposes of searching in the particular art and is not intended to be limiting of the present invention.



21: 2021/02374. 22: 2021/04/12. 43: 2022/07/07
51: A01N; A61K; C07D; A61P; A01P

71: NIPPON SODA CO., LTD.

72: SAKANISHI, Keita, SAKIYAMA, Norifumi, AOYAMA, Hikaru, MATSUI, Maki, IWASA, Takao, KOBAYASHI, Tomomi, USHIJIMA, Daisuke, AZUMA, Keita, SUMINO, Masanori, ASHIKARI, Yasuhiko, SHIBAYAMA, Kotaro, TAGUCHI, Riho
33: JP 31: 2018-202998 32: 2018-10-29

54: (HETERO)ARYLIMIDAZOLE COMPOUND AND HARMFUL ORGANISM CONTROL AGENT

00: -

The present invention addresses the problem of providing a (hetero)arylimidazole compound which has an excellent harmful organism controlling activity, particularly an excellent insecticidal activity and/or an excellent acaricidal activity, also has excellent safety, and can be synthesized industrially advantageously. The (hetero)arylimidazole compound according to the present invention is a compound represented by formula (I), or an N-oxide compound, a stereoisomer, a tautomer or a hydrate of the compound, or a salt of the compound, the N-oxide compound, the stereoisomer, the tautomer or the hydrate. In formula (I), B1 represents a nitrogen atom or CH; X represents a substituted or unsubstituted C3-8 cycloalkyl group; R1 represents a substituted or unsubstituted C1-6 alkylthio group or a substituted or unsubstituted C1-6 alkylsulfonyl group; R2 represents a substituted or unsubstituted C1-6 alkyl group; and R represents a substituted or unsubstituted C2-6 alkenyl group.

21: 2021/02408. 22: 2021/04/13. 43: 2022/07/22
51: B65G; E21F; F42D

71: AECI MINING LIMITED

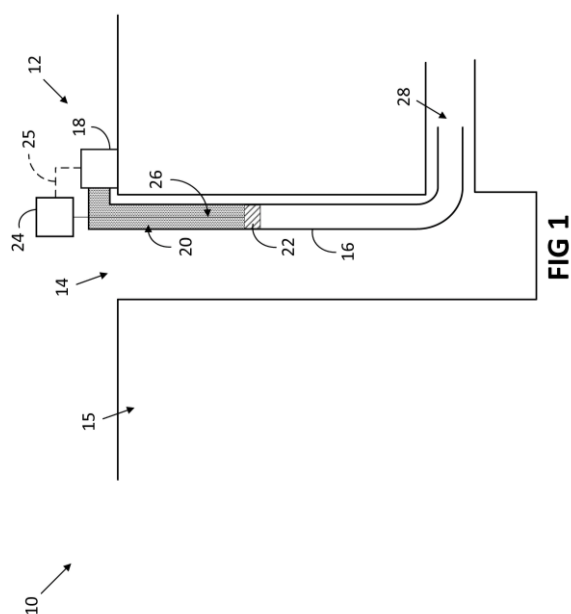
72: ROYCE, Catherine Paule Marie, MTIMKULU, Mlandeli Alfred

33: ZA 31: 2019/04365 32: 2019-07-03

54: TRANSPORT OF EXPLOSIVES

00: -

A method of transporting emulsion explosive vertically includes feeding emulsion explosive into a vertically extending conduit, onto a support member that is located in the conduit such that emulsion explosive is supported on the support member in the conduit. The support member is vertically movable along the conduit at a predetermined, variable, controllable rate of descent. The method further includes moving the support member vertically downward in the conduit at a predetermined, variable, controlled rate of descent, thus transporting emulsion explosive vertically in the conduit.



21: 2021/02497. 22: 2021/04/15. 43: 2022/08/17
51: A22C
71: VISCOFAN, S.A.
72: CHRISTOPHIS, Christof, MENGER, Hans-Joerg,
ETAYO, Vincente, RECALDE, José Ignacio,
SCHRACK, Denise, KNAPP, Stefan
33: EP 31: 19161339.7 32: 2019-03-07
54: EDIBLE TUBULAR FOOD CASINGS
00: -

The present invention provides edible tubular food casings, a method for producing said edible tubular food casings, compositions for forming said edible tubular food casings and the use of said edible tubular food casings for example as a sausage casing, which food casings are hot water and sodium salt resistant, stable at high temperatures, can be easily shirred and are ready to be stuffed with foodstuff, especially by meat, cheese or fish

products, but also with vegetarian or vegan foodstuff.

21: 2021/02646. 22: 2021/04/21. 43: 2022/07/07
51: C01B

71: EVONIK OPERATIONS GMBH

72: SCHMIDT, Franz, ANTON, Johan, PASCALY, Matthias, HEINROTH, Andrea, WIELAND, Stefan, MORELL, Heiko, KREß, Peter, HAGEMANN, Michael, Gerhard, LI, Zhen, HABERKORN, Julian, Dominic. REINSDORE, Arne

33: EP 31: 18196479.2 32: 2018-09-25

54: PROCESS FOR THE MANUFACTURE OF PULVERULENT, POROUS CRYSTALLINE METAL SILICATES EMPLOYING FLAME SPRAY PYROLYSIS

00: -

The present invention relates to a process for the manufacture of a pulverulent, porous crystalline metal silicate, comprising the following steps: (a) hydrothermal synthesis employing an aqueous mixture comprising (A) a silicon source, (B) a metal source, and (C) an auxiliary component, yielding an aqueous suspension of reaction product 1, comprising a raw porous crystalline metal silicate; and (b) flame spray pyrolysis of reaction product 1, wherein the aqueous suspension obtained in step (a) is sprayed into a flame generated by combustion of a fuel in the presence of oxygen to form a pulverulent, porous crystalline metal silicate; wherein the aqueous suspension comprising reaction product 1 obtained in step (a) exhibits a solids content of = 70% by weight; and wherein the effective peak temperature, T_{eff} , experienced by at least 90% by weight of the porous crystalline metal silicate during flame pyrolysis, is in the range $T_{min} < T_{eff} \leq T_{max}$, and wherein T_{min} is 750 °C, and wherein T_{max} is 1250 °C.

21: 2021/02652. 22: 2021/04/21. 43: 2022/08/16
51: A61K: A61P

71: CORCEPT THERAPEUTICS INCORPORATED

72: MORAITIS, Andreas

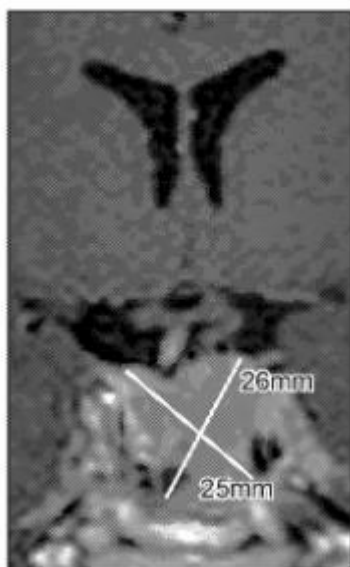
33: US 31: 62/758.477 32: 2018-11-09

54: METHODS FOR SHRINKING PITUITARY TUMORS

00: -

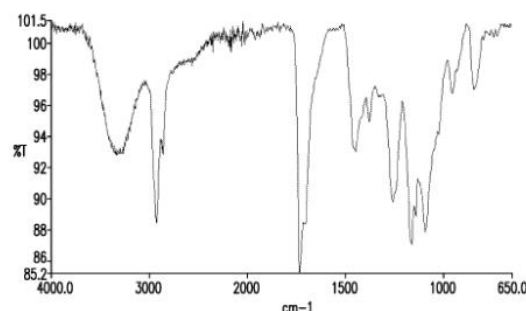
Pituitary tumors may be reduced in size by administration of relacorilant. Pituitary tumors include, without limitation, non-secreting tumors,

hormone-secreting tumors, adenomas, and carcinomas. Relacorilant administration may be effective to reduce hormone secretion from a hormone-secreting pituitary tumor, e.g., to reduce adrenocorticotrophic hormone (ACTH) secretion. A pituitary tumor may be imaged before and/or after relacorilant administration. Relacorilant may be administered independent of surgery, and before, during, or after surgery to treat a pituitary tumor. Relacorilant may aid or improve surgical outcomes, and may reduce the size or growth of pituitary tumor tissue before surgery, and any tumor tissue remaining following surgical treatment. Relacorilant may be orally administered for the treatment of pituitary tumors. Relacorilant may be orally administered to a fasted patient, or to a fed patient. Relacorilant may be administered in conjunction with other pituitary tumor targeting treatments, including surgical treatments, radiation treatments, chemotherapy for carcinomas, and other pharmaceutical treatments.



21: 2021/02703. 22: 2021/04/22. 43: 2022/08/16
 51: B32B; C08F; C08L; D21C; D21F
 71: BUCKMAN LABORATORIES INTERNATIONAL, INC.
 72: MOUSTAFA, Ahmed, GLOVER, Daniel
 33: US 31: 62/754,598 32: 2018-11-02
54: SYNTHESIS OF RE-PULPABLE TEMPORARY WET STRENGTH POLYMER FOR TISSUE APPLICATION
 00: -

A grafted polyvinyl alcohol polymer has a balance between hydrophilicity and hydrophobicity. The grafted polyvinyl alcohol polymer has a chemical functionality that allows for adsorption onto the pulp fibers, polymer film formation upon drying, repelling water upon wetting, polymer film swelling and breaking for prolonged wetting by water. When incorporated into paper products, the polymer can provide a paper having improved wet strength, temporary water repellency, and/or is dispersible in aqueous solutions.



21: 2021/02716. 22: 2021/04/22. 43: 2022/08/22
 51: F41A
 71: BYRNA TECHNOLOGIES INC.
 72: BUYS, André Johann
 33: US 31: 62/749,897 32: 2018-10-24
54: A LESS-LETHAL DEVICE
 00: -

This invention relates to mechanisms and components of a less lethal device, including a magazine configured to house a plurality of projectiles in a "staggered" configuration, a barrel displacement mechanism, a projectile release mechanism and load indicator, a projectile detent, and a loading mechanism. The magazine comprises a hollow body with a first closed end and a second end with an opening through which projectiles are received into or from the body; a first follower which is displaceable from the first end in a direction of the second end for a first distance, the first follower being biased in the direction of the second end; and a second follower which is displaceable from the first end in the direction of the second end for a second distance, the second follower being biased in the direction of the second end and wherein the first distance exceeds the second distance.

21: 2021/02728. 22: 2021/04/23. 43: 2022/08/17
51: A61K; C07D; A61P
71: TUOJIE BIOTECH (SHANGHAI) CO., LTD.
72: ZOU, Hao, LI, Zhengtao, WANG, Yuanhao, YU, Jian, ZHU, Wei

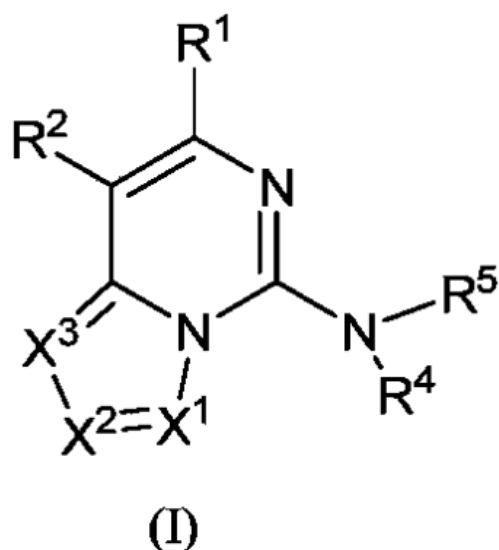
33: CN 31: 201811452514.5 32: 2018-11-30

33: CN 31: 201910577816.3 32: 2019-06-28

54: PYRIMIDINE AND FIVE-MEMBERED NITROGEN HETEROCYCLE DERIVATIVE, PREPARATION METHOD THEREFOR, AND MEDICAL USES THEREOF

00: -

The present invention relates to a pyrimidine and a five-membered nitrogen heterocycle derivative, a preparation method therefor, and the medical uses thereof. Particularly, the present invention relates to a pyrimidine and a five-membered nitrogen heterocycle derivative represented by the general formula (I), a preparation method thereof, a pharmaceutical composition containing the derivative, and the uses thereof as a SHP2 inhibitor for use in the prevention and/or treatment of tumor or cancer, wherein each substituent in the general formula (I) is as defined in the description.



21: 2021/02848. 22: 2021/04/28. 43: 2022/06/20

51: B01D

71: THERMAX LIMITED

72: SENTHILKUMAR, Sankaralingam, CHARLES, Philominraj

33: IN 31: 201821036168 32: 2018-10-30

54: A THERMAL EVAPORATION SYSTEM FOR SEPARATING SOLUTE FROM A SOLUTE-SOLVENT MIXTURE

00: -

Disclosed is a thermal evaporation system comprising an evaporator module, an effluent tank, a dryer, and a recirculation conduit. The evaporator module is configured to concentrate a solute-solvent mixture by evaporating solvent from the mixture to provide a concentrated solute-solvent mixture of a first concentration, wherein the first concentration is upto 40% dry. The effluent tank is configured to supply the solute-solvent mixture to the evaporator module. The dryer is configured to further concentrate the concentrated solute-solvent mixture of first concentration and provide a solute-solvent mixture of a second concentration, wherein the second concentration is upto 100% dry. The recirculation conduit is configured to recirculate vapours generated by the dryer within the thermal evaporation system. The system is more energy-efficient and has lower steam consumption.

21: 2021/02909. 22: 2021/04/30. 43: 2022/08/17

51: A61K; A61P

71: IMCYSE SA

72: ERAK, Milos, VANDER ELST, Luc

33: EP 31: 18205611.9 32: 2018-11-12

33: EP 31: 18205615.0 32: 2018-11-12

54: IMMUNOGENIC PEPTIDES WITH IMPROVED OXIDOREDUCTASE MOTIFS

00: -

The invention relates to immunogenic peptides comprising T-cell epitopes and oxidoreductase motifs with increased activity, and their use in regulating the immune response in subjects.

21: 2021/03020. 22: 2021/05/05. 43: 2022/08/16

51: H04L; H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

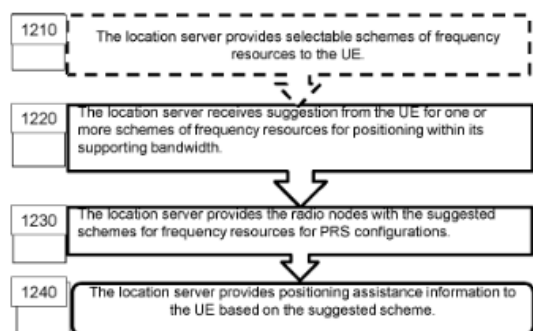
72: SHRESTHA, Deep, SHREEVASTAV, Ritesh, SIOMINA, Iana, MODARRES RAZAVI, Sara, BUSIN, Åke

54: SPECTRAL REGION IDENTIFICATION FOR REFERENCE SYMBOL TRANSMISSION

00: -

The invention relates to a method for operating a user equipment (UE) in a wireless network, the method comprising measuring radio characteristics of a first set of physical resources, the first set of physical resources being available for receiving downlink reference signals for positioning (RSa-RSc)

and the first set of physical resources being indicated by a first message (S21 1) received from a network node (QQ160), selecting a second set of physical resources from the first set of physical resources based on the measured radio characteristics, sending a second message (S122), indicative of the selected second set of physical resources to the network node (QQ160).



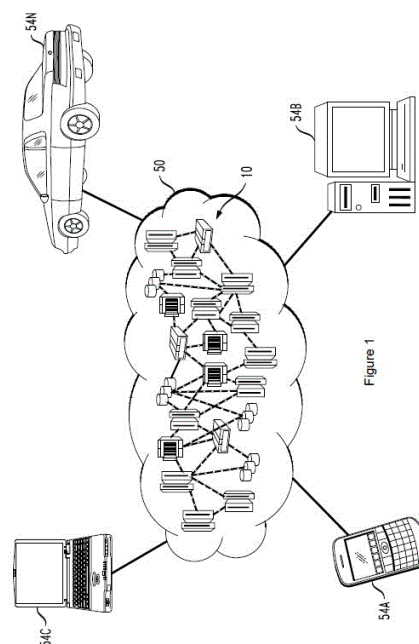
21: 2021/03382. 22: 2021/05/19. 43: 2022/08/01
 51: B05B
 71: GARCÍA VILLARREAL, Marco Antonio
 72: GARCÍA VILLARREAL, Marco Antonio
 33: WO 31: PCT/MX2018/000107 32: 2018-10-19
54: SINGLE-PIECE SHOWER HEAD
 00: -

The invention relates to a single-piece shower head having a single body that integrates a convex surface into which equidistant microducts disposed in concentric circles are incorporated and which has straight knurling on its lateral surface. The shower head also has a standard female thread for coupling simply and directly to any conventional shower arm.

21: 2021/03618. 22: 2021/05/27. 43: 2022/07/07
 51: G06F; G06N; G06Q; G06T
 71: International Business Machines Corporation
 72: MOLAPO, Maletsabisa, MOODLEY, Chane Simone, MAKHANYA, Sibusisiwe Audrey, MAPIYE, Darlington Shingirirai
 33: US 31: 16/887,692 32: 2020-05-29
54: CONTEXTUAL SAFETY ASSESSMENT, RECOMMENDATIONS, PROVISIONING AND MONITORING
 00: -

Method and systems for identifying dangers in an accessible environment. Computer vision and video analysis is performed on one or more images and/or video of the accessible environment to generate a

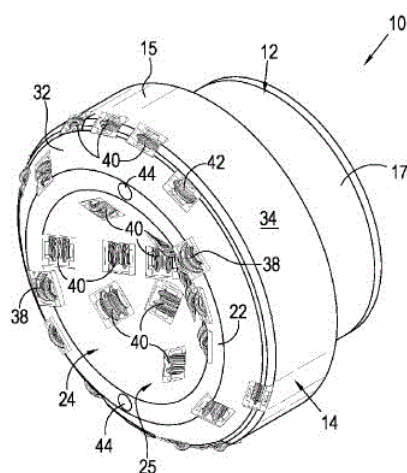
series of still frames for a database of training images and natural language processing (NLP) is performed on one or more written reports to generate textual parameters. An online image similarity search is performed using the textual parameters to generate additional images for the database of training images and a risk/danger prediction model is generated based on the database of training images. One or more potential dangers are identified, and one or more warnings are generated using the risk/danger prediction model.



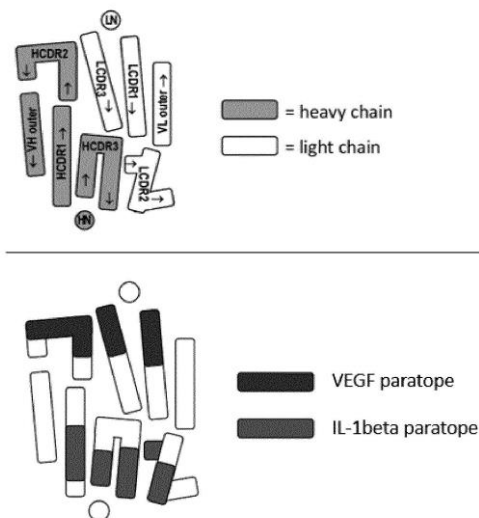
21: 2021/03631. 22: 2021/05/27. 43: 2022/07/07
 51: E21B; E21D
 71: MASTER SINKERS (PTY) LTD
 72: GOODWIN, Nicolaas Bodenstein, JORDAAN, Barend Jacobus
 33: ZA 31: 2018/08367 32: 2018-12-12
54: CUTTER HEAD ARRANGEMENT
 00: -

According to a first aspect of the invention there is provided a cutter head arrangement comprising a cutter head portion including a (substantially cylindrical) cutter head side wall to define a chamber (or cavity) surrounded by the cutter head side wall. A substantially circular rim portion extends from (a distal end of) the cutter head side wall, the rim portion defining a working, contact face of the cutter head portion. A recessed wall portion extends away

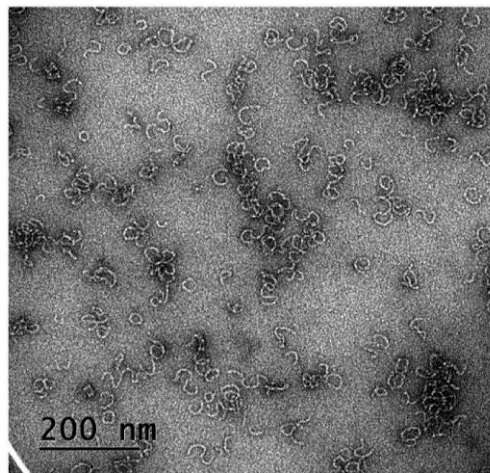
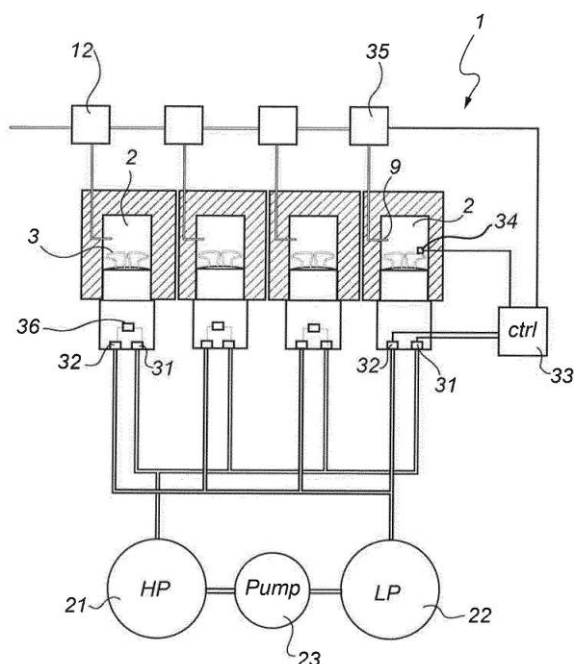
from the rim portion inwardly into the chamber so as to be surrounded by the cutter head side wall, with the rim portion and/or the recessed wall portion being fitted with a plurality of cutter elements, to enable the cutter head portion to blind bore a pilot hole in use. The recessed wall portion that extends away from the rim portion inwardly into the chamber is a substantially conical body so as to define a conical recess (proximate a central region of the cutter head portion, at a distal end of the cutter head portion). The conical body accordingly defines an inwardly extending apex that terminate substantially in line with a central axis of the cutter head portion.



21: 2021/03643. 22: 2021/05/27. 43: 2022/07/08
 51: C07K; C12N
 71: F. Hoffmann-La Roche AG
 72: BECKMANN, Roland, BENZ, Joerg, DENGL, Stefan, GASSNER, Christian, HARTMANN, Guido, HUELSMANN, Peter Michael, IMHOF-JUNG, Sabine, JENSEN, Kristian Hobolt, KETTENBERGER, Hubert, LORENZ, Stefan, MOELLEKEN, Joerg, MUNDIGL, Olaf
 33: EP(CH) 31: 18215023.5 32: 2018-12-21
54: ANTIBODY THAT BINDS TO VEGF AND IL-1BETA AND METHODS OF USE
 00: -
 The present invention relates to anti-VEGF/anti-IL-1beta antibodies and methods of using the same.



21: 2021/03646. 22: 2021/05/27. 43: 2022/07/08
 51: F01K; F02G
 71: Swedish Stirling AB
 72: LARSSON, Gunnar
 33: EP(SE) 31: 18214336.2 32: 2018-12-20
54: RECOVERY OF ENERGY IN RESIDUE GASES
 00: -
 A system for recovery of energy in residue gases, comprising at least two energy conversion units (1), including a combustion chamber (2) having a fuel inlet (9), and a Sterling engine (4) having a heat exchanger (3) with a set of tubes containing working fluid, a portion of the heat exchanger extending into the combustion chamber (2). The system further comprises a pressure control system including a high-pressure reservoir (21) of working fluid, a low-pressure reservoir (22) of working fluid, a pressure pump (23) configured to maintain a pressure difference between the reservoirs, and a control arrangement (31, 32, 33) to regulate a pressure in the fluid circuit.



21: 2021/03649. 22: 2021/05/27. 43: 2022/07/08
51: A61K
71: Croda International Plc
72: HU, Kefei, DUROUX, Laurent, LINDBLAD, Erik
33: EP(GB) 31: 18213540.0 32: 2018-12-18

54: FILAMENTOUS NANOPARTICLES HAVING VACCINE ADJUVANT EFFECT

00: -

The present invention relates to filamentous, i.e. thread-like nanoparticles comprising sterol and a component derived from *Quillaja saponaria* Molina selected from quillaja acid and quillaja saponin. More particularly, the invention relates to the use of said thread-like nanoparticles in vaccines and drug delivery or adsorption systems, methods for their production and uses thereof, such as for use as a vaccine adjuvant and in cancer therapy.

21: 2021/03664. 22: 2021/05/28. 43: 2022/07/08
51: G06F; H04L; G06Q

71: OneVault Africa

72: DICKSON, Vanda Mead

54: A COMPUTER-IMPLEMENTED METHOD FOR SECURELY ENROLLING A USER WITH A SERVICE VIA A MESSAGING APPLICATION

00: -

The invention relates to a computer-implemented method for securely enrolling a user with a service via a messaging application accessible via a user computing device as prerequisite to authorize said user to use said service, using a computer system comprising at least one processor, at least one host computing device, and at least one user computing device. The invention also relates to a computer system, comprising at least one processor, at least one host computing device with a host processor, at least one user computing device with at least one user processor, at least one messenger platform accessible both via at least one host computing device and at least one user computing device, at least one computing device-readable medium for causing the processor(s) to perform the method according to the invention. The invention further relates to a non-transitory computing device-readable medium to perform the method according to the invention.

21: 2021/03666. 22: 2021/05/28. 43: 2022/07/08
51: C22B

71: A&H JAPAN CORPORATION

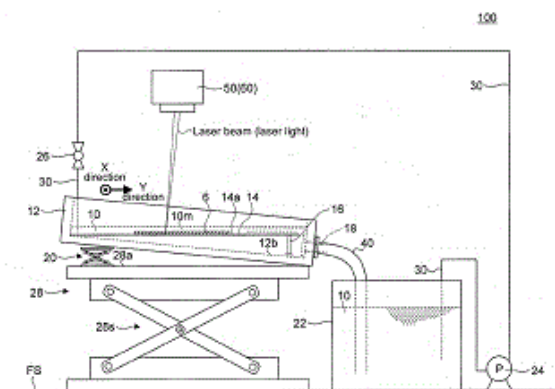
72: HIEDA, TOSHIHIKO, TAKEDA, MASAHARU, KIKUCHI, YOSHIYASU, WATANABE, KENJI, ARAI, TOMOHIRO

33: JP 31: 2020-100885 32: 2020-06-10

54: METHOD FOR RECOVERING VALUABLES

00: -

A method for recovering valuables, which can suppress the loss of valuables in recovering the valuables is provided. The method for recovering valuables of the disclosure comprises: a preparation step of preparing a treatment object including a valuables-containing member that contains valuables on or above a surface of a base material; an immersion step of immersing the treatment object in a liquid such that the valuables-containing member of the treatment object is disposed in the liquid; a collection step of irradiating the valuables-containing member of the treatment object immersed in the liquid with laser light through the liquid so as to remove the valuables-containing member from the treatment object, thereby collecting removed matter of the valuables-containing member into the liquid; and a recovery step of recovering the removed matter of the valuables-containing member from the liquid.



21: 2021/03703. 22: 2021/05/31. 43: 2022/07/08

51: A47L

71: VAN DEN HEEVER VENTER, Barend, Gerhardus, JANSE VAN RENSBURG, Andre

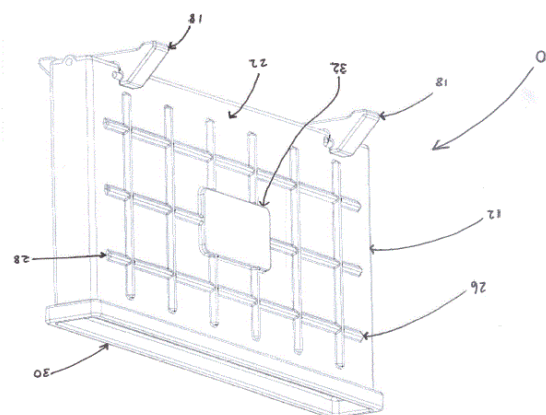
72: VAN DEN HEEVER VENTER, Barend, Gerhardus, JANSE VAN RENSBURG, Andre

33: ZA 31: 2020/04837 32: 2020-08-05

54: A CLEANING DEVICE

00: -

According to the invention, there is provided a cleaning device which includes a receptacle for, in use, keeping a liquid; and a scrubbing member connectable to an inner surface of the receptacle for scrubbing articles upon reciprocal displacement of the article relative the receptacle.



21: 2021/03705. 22: 2021/05/31. 43: 2022/07/08

51: D01D

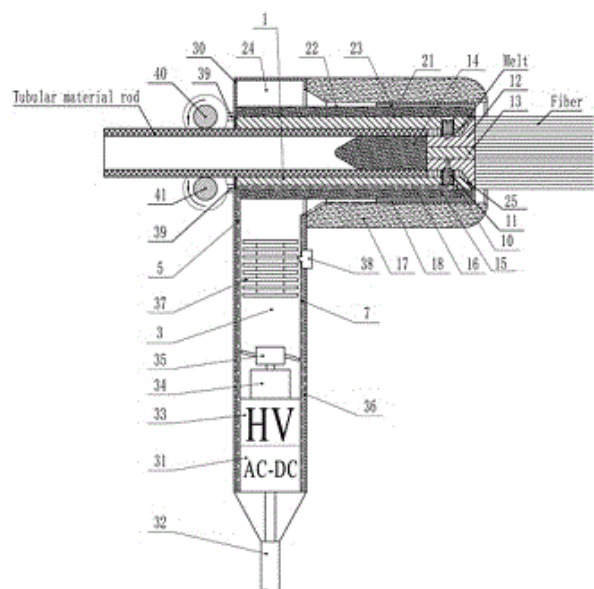
71: QINGDAO UNIVERSITY OF SCIENCE & TECHNOLOGY

72: CHEN, HONGBO, HAN, WENWEN, YANG, WEIMIN, WANG, CHUANSHENG, LIU, HAICHAO, JIAN, RANRAN

54: PORTABLE MELT ELECTROSPINNING DEVICE

00: -

The present disclosure belongs to the technical field of melt electrospinning equipment. A main body structure consists of a spinneret part, a handle part, a low-voltage wire, and a high-voltage wire. The main body structure of the spinneret part includes a sleeve, jackscrews, a spinning nozzle, a heating rod, a guide pillar, a wire groove, an inner isolation protection sleeve, an outer isolation protection sleeve, and a high-voltage electrode. The main body structure of the handle part includes a housing, a power supply module, a power cord, a high-voltage electrostatic module, a motor, a fan blade, air inlet holes, heating wires, an adjustment switch, roller brackets, an upper roller, and a lower roller. The device is simple in structure, easy and convenient to operate, safe and reliable, and convenient to carry and hold in hand, and has high integration degree and spinning efficiency.



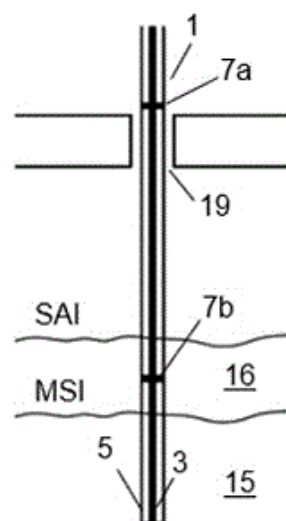
21: 2021/03706. 22: 2021/05/31. 43: 2022/07/08
51: G01J; B22D; G01N
71: HERAEUS ELECTRO-NITE INTERNATIONAL N.V.

72: NEYENS, GUIDO, RADELET, CHRISTIAAN, INDEHERBERGE, MARC, STEVENS, FRANK
33: EP 31: 20181481.1 32: 2020-06-22

54: DEVICE AND METHOD FOR MEASURING A TEMPERATURE OF A MOLTEN METAL

00: -

A device for measuring a temperature of a molten metal bath, comprising: (i) an optical cored wire; (ii) a tube, wherein the optical cored wire is at least partly arranged in the tube, wherein the tube has an outer diameter in the range of 4 mm to 8 mm, and a wall-thickness in the range of 0.2 mm to 0.5 mm; and (iii) a plurality of separating elements comprising more than two separating elements arranged in the tube spaced apart from each other, and forming at least one compartment between two of the more than two separating elements. The invention also relates to a system and method for measuring a temperature of a molten metal bath.

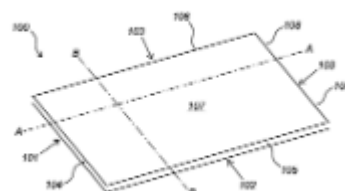


21: 2021/03714. 22: 2021/05/31. 43: 2022/07/08
51: B32B; C04B; E04F
71: I4F LICENSING NV
72: BOUCKÉ, Eddy Alberic
33: NL 31: 2022114 32: 2018-12-03

54: DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS

00: -

In the field of decorative floor coverings, decorative panels are known having a MDF (Medium Density Board) or HDF (High Density Board) based core layer on top of which a decorative substrate is attached to provide the panels a desired appearance. The invention relates to a panel, in particular a decorative panel, a floor panel, a ceiling panel or a wall panel. The invention also relates to a floor covering consisting of a plurality of mutually coupled panels.



21: 2021/03778. 22: 2021/06/02. 43: 2022/07/08
51: E04F
71: WACO Africa (Pty) Ltd t/a SGB Cape
72: VALAB, Mukesh Isver

54: STAIR STRINGER

00: -

The invention discloses a stair stringer and a related stair assembly. The stair stringer comprises an elongate support member that, in use, when fitted to a supporting framework, is angled transversely to the ground, the elongate support member defining an operatively upper end and an operatively lower end; a plurality of L-shape support formations fitted inline along the length of the support member, each L-shape support formation comprising an operatively horizontal support leg, which in use is substantially parallel to the ground and on top of which a stepping board can be fitted, and an operatively vertical support leg to support the horizontal support leg relative to the elongate support member; and a movable first hook member fitted to the upper end of the elongate support member, so as to define an articulated joint, with the movable hook member, in use, being mountable to a horizontally extending, operatively upper, support beam of the supporting framework.

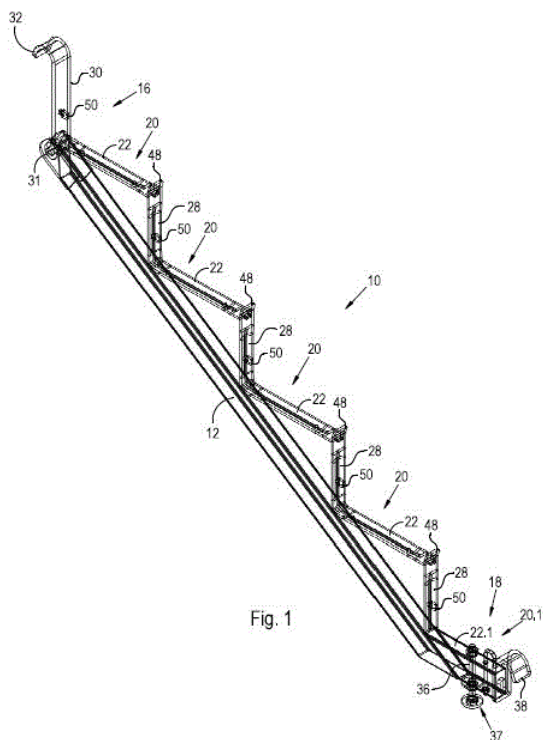


Fig. 1

21: 2021/03780. 22: 2021/06/02. 43: 2022/07/08
51: B01D; B33Y
71: CATERPILLAR INC.
72: IMMEL, JON T, RODRIGUEZ, JAVIER A
33: US 31: 16/211,395 32: 2018-12-06

54: 3D PRINTED FILTER CENTER TUBE

00: -

A filter center tube (100) includes a plurality of layers of solidified material including a first layer (102) with a first undulating strip (104) of solidified material extending in a first predetermined direction (106), and a second layer (108) with a second undulating strip (110) of solidified material extending in a second predetermined direction (112). The first layer (102) is in contact with the second layer (108) and the first predetermined direction (106) is not parallel with the second predetermined direction (112), forming a plurality of pores (114) therebetween.

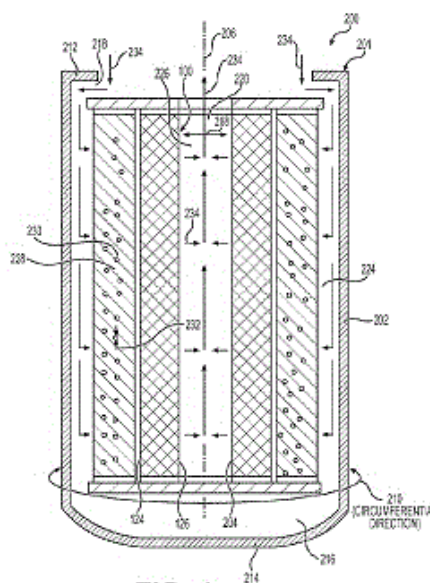


FIG. 1

21: 2021/03797. 22: 2021/06/02. 43: 2022/07/08
51: H02G

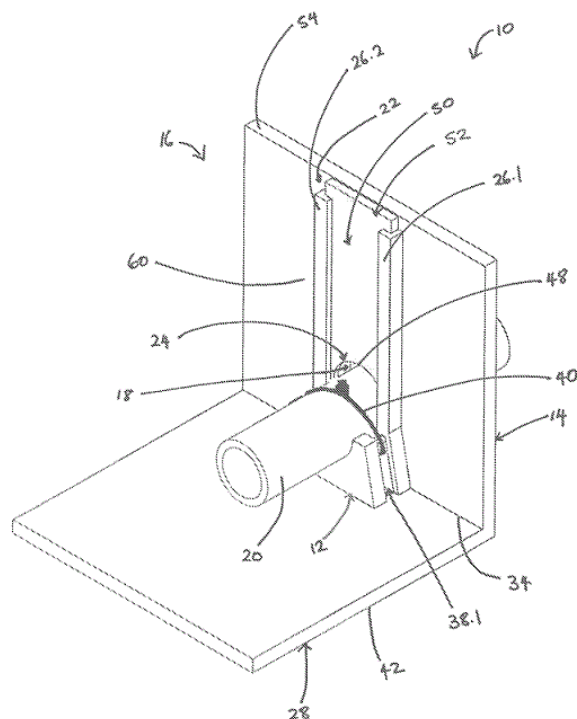
71: LIEBENBERG, Mark, Thompson
72: LIEBENBERG, Mark, Thompson
33: ZA 31: 2018/08306 32: 2018-12-10

54: A CABLE SECURING DEVICE

00: -

The cable securing device (10) includes an extension (12) which extends inwardly from a wall (14) of a housing (16) in a region of an aperture (18) defined in the wall (14), the extension (12) being shaped and configured to allow a cable (20) to be secured thereto, a closure member (22) for closing off the aperture (18), which closure member (22) is displaceable between an open condition wherein access to the aperture (18) is permitted, a closed condition wherein access to the aperture (18) is

inhibited and a cable receiving condition wherein a first end region (24) of the closure member (22) closes off a space defined between the cable (20) and the wall (14) defining the aperture (18) and a mounting member in the form of a pair of elongate members (26.1) and (26.2) for allowing the closure member (22) to be mounted displaceably relative to the wall (14) of the housing (16) in a region of the aperture (18).



21: 2021/03815. 22: 2021/06/03. 43: 2022/07/08

51: A23L; A61K

71: HapInScience Inc.

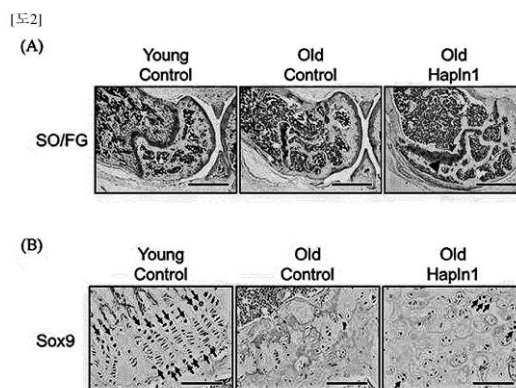
72: KIM, Dae Kyong, JANG, Ji Min

54: COMPOSITION, FOR PREVENTING, RELIEVING OR TREATING CARTILAGE-RELATED DISEASES OR SYMPTOMS, COMPRISING HAPLN1

00: -

The present invention relates to a composition, for preventing, relieving or treating cartilage-related diseases or symptoms, comprising hyaluronan and proteoglycan link protein 1 (HAPLN1) as an active ingredient. Specifically, the present invention provides a composition for regenerating cartilage, a composition for preventing, relieving or treating osteoarthritis or a composition for regenerating

growth plate cartilage, which comprise HAPLN1 as an active ingredient.



21: 2021/03816. 22: 2021/06/03. 43: 2022/07/08

51: G06Q; H02J

71: General Electric Company

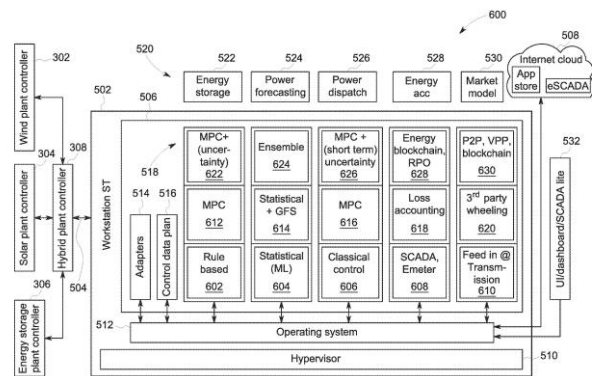
72: BURRA, Rajni, SAGI, Deepak Raj, TIWARI, Arvind Kumar

33: IN 31: 201841047089 32: 2018-12-12

54: HYBRID POWER PLANT

00: -

A hybrid power plant including a plurality of power sources and controllers, a hybrid plant controller, and a computing system. The controllers operate the power sources according to operating set points. The hybrid plant controller transmits the operating set points to the controllers. The computing system is coupled to the hybrid plant controller and receives a first set of input parameters from a first subscriber, and carries out a first level of services to which the first subscriber subscribes to determine operating parameters for the first subscriber. The computing system receives a second set of input parameters from a second subscriber and carries out a second level of services to which the second subscriber subscribes to determine operating parameters for the second subscriber. The computing system then computes the operating set points based on aggregate operating parameters for the first and second subscribers.



21: 2021/03841. 22: 2021/06/04. 43: 2022/07/08
51: B32B; B65D

71: LANXESS Deutschland GmbH

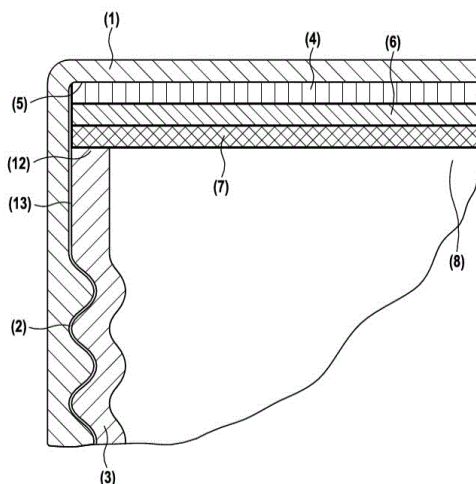
72: VOGL, Erasmus, TAUPP, Marcus

33: EP(DE) 31: 20178455.0 32: 2020-06-05

54: CAPS WITH SAFETY FUNCTION FOR PREVENTION OF EXCESSIVE PRESSURE

00: -

The invention relates to a cap for closing containers comprising at least one mesh, one foamed polymer and at least one further polymer, and to containers equipped with the cap of the invention.



21: 2021/03842. 22: 2021/06/04. 43: 2022/07/08
51: D01D

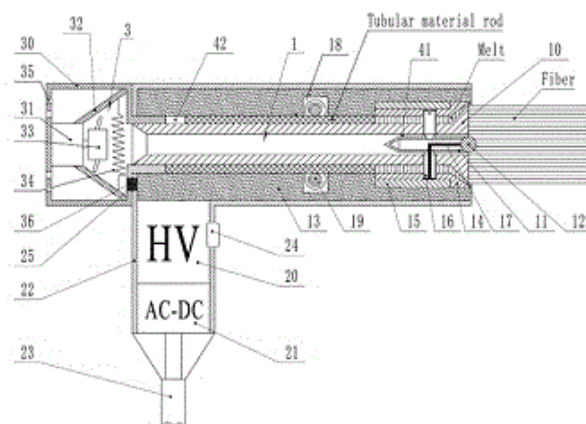
71: QINGDAO UNIVERSITY OF SCIENCE & TECHNOLOGY

72: HAN, WENWEN, CHEN, HONGBO, YANG, WEIMIN, WANG, CHUANSHENG, LIU, HAICHAO, JIAN, RANRAN

54: HAND-HELD MELT ELECTROSPINNING DEVICE WITH BUILT-IN ELECTRODE

00: -

The present disclosure belongs to the technical field of melt electrospinning equipment, and relates to a hand-held melt electrospinning device with a built-in electrode. The hand-held melt electrospinning device with a built-in electrode consists of a spinneret part and a fan part. The main body structure of the spinneret part includes a spinning nozzle, an electrode holder, an electrode, an isolation protection sleeve, a heat transfer cylinder, an electric heating ring, jackscrews, high-voltage wires, roller grooves, rollers, a high-voltage electrostatic module, a power supply module, a housing, a power cord, an adjustment switch, and a No. 1 contact. The main body structure of the fan part includes a shell, a motor, brackets, a fan blade, a heating wire, ventilation holes, and a No. 2 contact. A tubular material rod is taken as a spinning raw material.



21: 2021/03886. 22: 2021/06/07. 43: 2022/07/19
51: E05B; B62H

71: ABUS AUGUST BREMICKER SÖHNE KG

72: NEVELING, MANUEL CORNELIUS, WEISS, TOBIAS

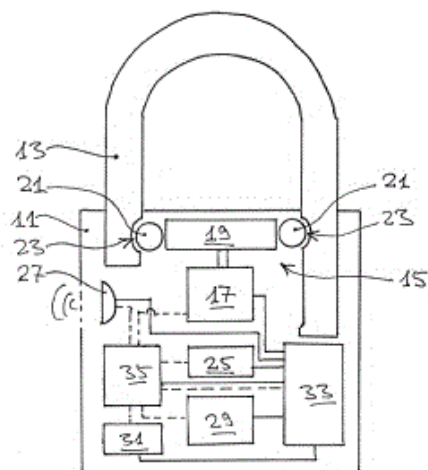
33: DE 31: 102020116008.9 32: 2020-06-17

54: PORTABLE ELECTRONIC LOCK

00: -

A portable electronic lock has a lock body having a locking device and a closing hoop that is movable relative to the lock body between a closed position and an open position, wherein the closing hoop can be locked to the lock body by means of the locking device in the closed position. The lock at least has an electrical unit, an electrical energy source, a signal generator, and a control unit. The control unit is configured to monitor a charge level of the

electrical energy source and to control the signal generator to output a charge level warning signal sequence in the form of the letter sequence "S-O-S" in accordance with Morse code if the charge level of the electrical energy source falls below a predetermined limit value.

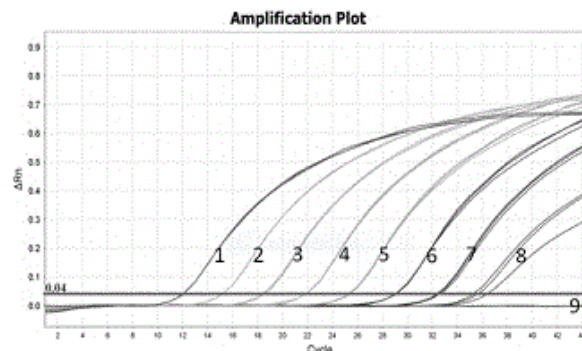


21: 2021/03887. 22: 2021/06/07. 43: 2022/07/19
 51: C12Q; C12N; C12R
 71: ZHONGLIANRUI (BEIJING) BIOTECHNOLOGY CO., LTD, DALIAN NATIONALITIES UNIVERSITY
 72: CHEN, LILI, CAO, JIJUAN, ZHEN, QIUYUE, YANG, LILI
 33: CN 31: CN2020105260797 32: 2020-06-08
54: PRIMER GROUP, KIT AND METHOD FOR ISOTHERMAL AMPLIFICATION FOR DETECTING HEPATITIS A VIRUS IN FOOD

00: -

The invention provides a primer group, kit and method for isothermal amplification for detecting hepatitis A virus in food. The primer group comprises an outer primer OF, an outer primer OB, an inner primer IF, an inner primer IB, a loop primer LF and a loop primer LB, and the nucleotide sequence of the outer primer OF is shown in SEQ ID NO.1; the nucleotide sequence of the outer primer OB is shown in SEQ ID NO. 2; the nucleotide sequence of the inner primer IF is shown in SEQ ID NO. 3; the nucleotide sequence of the inner primer IB is shown in SEQ ID NO.4; the nucleotide sequence of the loop primer LF is shown in SEQ ID NO. 5; and the nucleotide sequence of the loop primer is shown in SEQ ID NO. 6. The kit and the detection method disclosed by the invention have the characteristics of simplicity, convenience, rapidness, high sensitivity

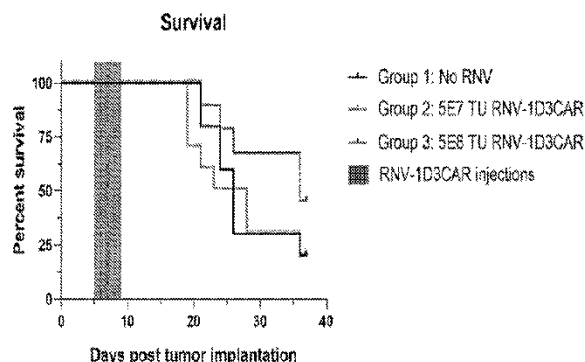
and high specificity, as well as low cost and wide applicability.



21: 2021/03899. 22: 2021/06/07. 43: 2022/07/08
 51: A61K; C07K; C12N
 71: ABINTUS BIO, INC.
 72: JOLLY, Douglas J., ROBBINS, Joan M., LIN, Amy H., OSTERTAG, Derek G., BENTLEY, Cornelia, VIAUD, Sophie
 33: US 31: 62/788,894 32: 2019-06-06
54: CAR T CELL METHODS AND CONSTRUCTS

00: -

The disclosure provides non-replicating viral vectors (RNV) for adoptive cell therapy. The RNVs can deliver chimeric antigen receptors to immune cells (e.g., T-Cells) in vivo.



21: 2021/03906. 22: 2021/06/07. 43: 2022/07/20
 51: A61K; A61P
 71: SABIOTEC SPIN-OFF, S.L., NEIKER - INSTITUTO VASCO DE INVESTIGACIÓN Y DESARROLLO AGRARIO, S.A.
 72: JUSTE JORDÁN, RAMÓN ANTONIO, DOMÍNGUEZ RODRÍGUEZ, LUCAS, GORTÁZAR SCHMIDT, CHRISTIAN, DE LA FUENTE GARCÍA, JOSÉ DE JESÚS, GARRIDO URKULLU, JOSEBA

M, AGIRREGOMOSKORTA SEVILLA, IKER,
DOMÍNGUEZ RODRÍGUEZ, MERCEDES

33: EP 31: 18382892.0 32: 2018-12-04

54: IMMUNOSTIMULANT FOR USE AGAINST PATHOGENS

00: -

The present invention relates to compositions comprising an inactivated Mycobacterium or an immunogenic fraction thereof, for use in the prevention of an infection in a subject, wherein the infection is selected from the group consisting of a protozoan parasitic infection and a bacterial infection, with the proviso that the infection is not caused by a Mycobacterium.

21: 2021/03964. 22: 2021/06/09. 43: 2022/07/08

51: G01R

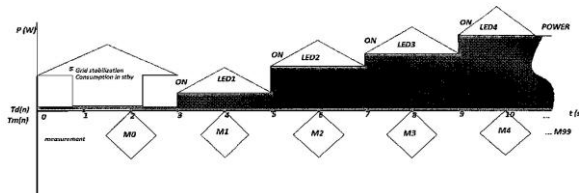
71: MAGIĆ, Zvonko

72: MAGIĆ, Zvonko

54: SEQUENTIAL MEASUREMENT OF STATUS OF LED LIGHTING AND OTHER APPARATUS CONNECTED TO AN ELECTRICAL POWER LINE AND DISPLAY OF THE STATUS AND THE EXACT GPS POSITION THEREOF

00: -

The subject of the invention is a simple, reliable and inexpensive application-wise system for obtaining information on the status of apparatus connected to a "lighting power line." Such a system of obtaining information is completely immune to disturbances since nothing additional is introduced into the grid. Information is detected in a substation or an electric lighting enclosure i.e. at the power supply source in standard classical measurement methods. The process for the sequential measurement of operational parameters of LED lighting and other apparatus connected to a power line comprising an electric lighting enclosure (1) in which all energy power lines (L₁, L₂, L₃..., L_n) are located, and are also connected to a meter device (2) installed in the electric lighting enclosure (1), and where a larger number of LED lighting fixtures (3) are connected to each sequentially-arranged energy power line, whereby each LED lighting fixture (3) includes a power supply (PS) as part of the electronics within the LED lighting fixture (3), and the process includes a "zero-point" measurement of power or current after the grid's stabilization period, followed by the sequential activation of all lighting fixtures (3) at full power at each individual power line (L₁, L₂, L₃..., L_n), by a power supply (PS), which is programmed in advance for time-delayed activation of each individual LED lighting fixture (3). During the activation of LED lighting fixtures (3) on each power line (L₁, L₂, L₃..., L_n), power-time curves or current-time curves are measured and recorded for the corresponding energy power line (L₁, L₂, L₃..., L_n), and from them a start diagram (P_{start}) is derived after activating all lighting fixtures (3) on that particular power line, and this diagram is used for comparing the status on each individual power line (L₁, L₂, L₃..., L_n), and then the derived start diagram (P_{start}) is compared with the initial diagram (P_i) of the power-time curve or current-time curve for the corresponding power line. If deviations are present on-site or if there are locations where deviations are present upon comparing the start diagram (P_{start}) with the initial diagram (P_i), the system signals such errors in the operation of a corresponding LED lighting fixture (3).



21: 2021/03974. 22: 2021/06/09. 43: 2022/07/08

51: C07D; A61P; A61K

71: FUJIAN AKEYLINK BIOTECHNOLOGY CO., LTD.

72: HU, YANBIN, SUN, FEI, SHI, SHENYI, SU, YANXIAO, DING, CHARLES Z

33: CN 31: 201811399514.3 32: 2018-11-22

54: CRYSTAL FORM OF HEPATITIS B SURFACE ANTIGEN INHIBITOR

00: -

The present invention discloses a crystal form of a hepatitis B surface antigen inhibitor and a preparation method therefor, and also comprises the use of the crystal form in preparing the hepatitis B surface antigen inhibitor.

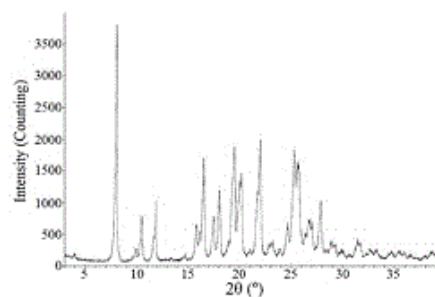
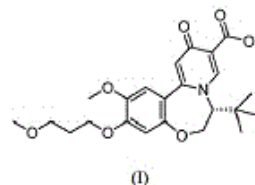


Figure 1



21: 2021/03995. 22: 2021/06/10. 43: 2022/07/08

51: A63B

71: THE GIOVANNI PROJECT LLC

72: FIMA, Giovanni, Raoul

33: US 31: 16/418,234 32: 2019-05-21

33: US 31: PCT/US2019/033304 32: 2019-05-21

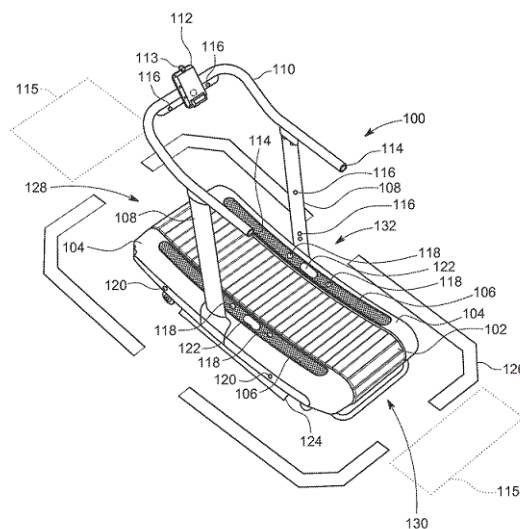
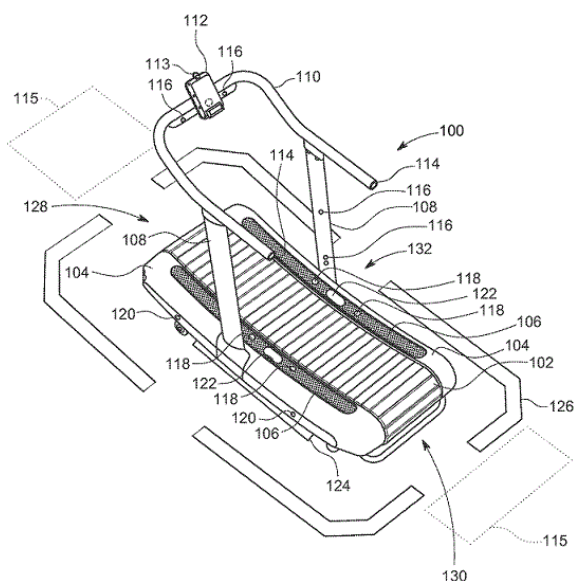
33: US 31: 62/919,155 32: 2019-02-28

54: LOCKING AND BRAKING SYSTEMS FOR A TREADMILL

00: -

A locking system for a treadmill includes a locking mechanism having a locked configuration that prevents the tread from rotating in a front-to-rear direction and an unlocked configuration which allows the tread to rotate in the front-to-rear direction. A presence sensor and a weight sensor are each configured to detect the user on the treadmill, and a display is configured to receive an inputted code indicating the user is on the treadmill. The controller is configured to move the locking mechanism to the

unlocked configuration in response to the controller receiving signals from at least two of the presence sensor, the weight sensor and the display indicating that the user is on the treadmill, and move the locking mechanism to the locked configuration in response to receiving signals from both of the presence sensor and the weight sensor indicating the user is not on the treadmill.



21: 2021/03996. 22: 2021/06/10. 43: 2022/07/08
51: A63B
71: THE GIOVANNI PROJECT LLC
72: FIMA, Giovanni, Raoul
33: US 31: 62/919,155 32: 2019-02-19
33: US 31: 16/433,230 32: 2019-06-06
54: BRAKING AND LOCKING SYSTEM FOR A TREADMILL

00: -
A system for a treadmill including a tread that rotates around a front axle and a rear axle and side rails on opposing sides of the tread, comprises a brake configured to slow rotation of at least one of the front axle or the rear axle, a controller, and a first presence sensor in communication with the controller, the first presence sensor positioned on a side rail and configured to detect the user on the side rail. The brake is not engaged during operation of the treadmill when the tread is moving and the first presence sensor does not detect the user on the side rail. The controller is configured to, in response to the first presence sensor subsequently detecting the user on the side rail, engage the brake.

21: 2021/03997. 22: 2021/06/10. 43: 2022/07/08
51: A63B
71: THE GIOVANNI PROJECT LLC
72: FIMA, Giovanni, Raoul
33: US 31: 62/919,155 32: 2019-02-28
33: US 31: 16/418,234 32: 2019-05-21
54: TREADMILL WITH LIGHTING AND SAFETY FEATURES

00: -
A lighting system is described for a treadmill, the treadmill including a tread that rotates around a front axle and a rear axle, wherein the tread comprises slats each having a tread surface and an underside. The lighting system includes a light positioned on at least one slat, wherein the light is configured to emit light in or through adjacent slats and a controller in communication with the light and configured to control the light.

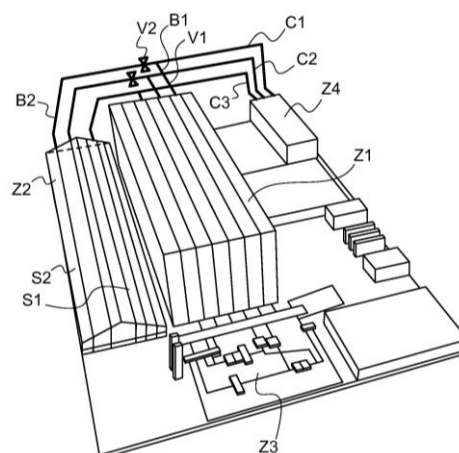
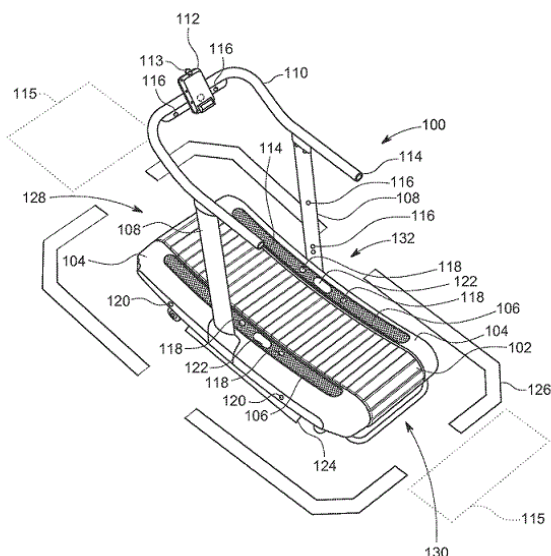


Fig.1

21: 2021/04003. 22: 2021/06/10. 43: 2022/07/14

51: A01K

71: Ynsect

72: CLESSE, Loic, DU JONCHAY, Thibault, ESCAROT, Arturo, SALA, François, CANITROT, Cyrille, BERRO, Fabrice

33: FR 31: 1871610 32: 2018-11-20

54: TEMPERATURE CONTROL OF A CLIMATIC ZONE OF AN INSECT-BREEDING FACILITY

00: -

The invention concerns an insect-breeding facility comprising a climatic zone (Z1, Z2) for storing the insects. The facility comprises an air-conditioning zone (Z4) comprising an air-conditioning system, for bringing air to a first temperature, and simultaneously for bringing air to a second temperature (T2). A first set of pipes (C1) is configured to transport the air at the first temperature from the air-conditioning zone (Z4) to the climatic zone (Z1, Z2) and to deliver it there, a second set of pipes (C2) is configured to transport the air at the second temperature from the air-conditioning zone (Z4) to the climatic zone (Z1, Z2) and to deliver it there. The facility also comprises a device for extracting air from the climatic zone (Z1, Z2). The invention also concerns a corresponding method for air conditioning in a climatic zone (Z1, Z2) of an insect-breeding facility.

21: 2021/04044. 22: 2021/06/11. 43: 2022/07/14

51: A63B

71: Peloton Interactive, Inc.

72: EVANCHA, Betina, INTONATO, Joseph, WILLHITE, Ashley, LEE, Jooyoung

33: US 31: 16/217,548 32: 2018-12-12

54: EXERCISE MACHINE CONTROLS

00: -

A method includes receiving electronic content via a network, the electronic content comprising an exercise class, and receiving user data associated with a user participating in the exercise class using an exercise machine. The method also includes generating an executable control for a user interface based at least in part on the user data, and providing the executable control, via a display of the exercise machine, while the user is participating in the exercise class. In such a method, the executable control is operable to modify a parameter of the exercise machine while the user is participating in the exercise class.

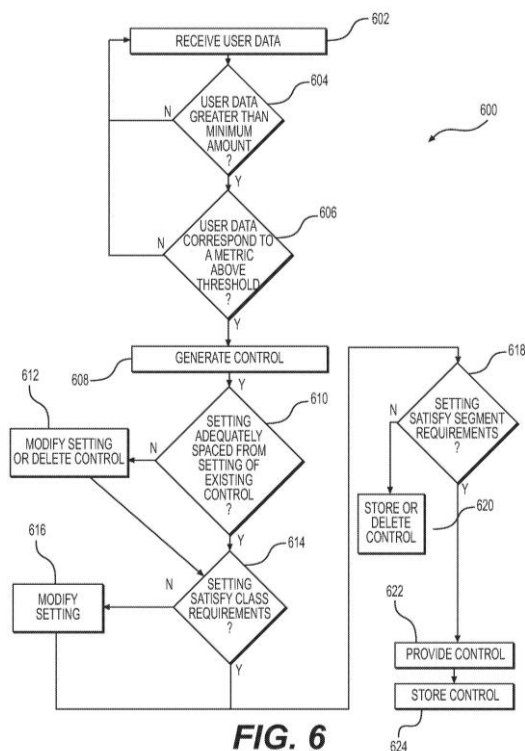


FIG. 6

21: 2021/04064. 22: 2021/06/14. 43: 2022/07/08
 51: C07D
 71: QINGDAO KINGAGROOT CHEMICAL COMPOUND CO., LTD.
 72: LIAN, Lei, PENG, Xuegang, HUA, Rongbao, ZHANG, Jingyuan, CUI, Qi
 33: CN 31: 201811613197.0 32: 2018-12-27
54: R-TYPE PYRIDYLOXYCARBOXYLIC ACID, SALT AND ESTER DERIVATIVE THEREOF, AND PREPARATION METHOD THEREFOR, AND HERBICIDAL COMPOSITION AND APPLICATION THEREOF

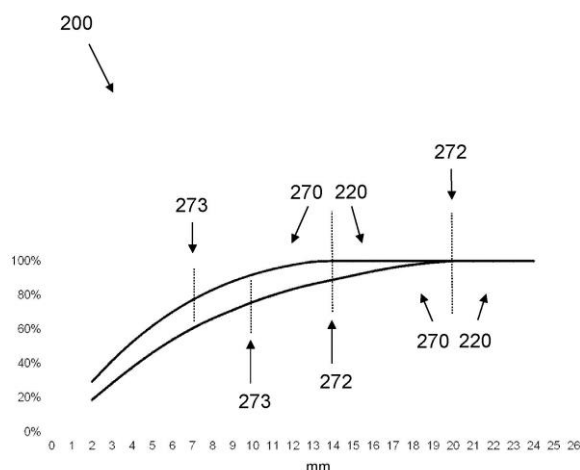
00: -

The present invention pertains to the technical field of pesticides, and specifically relates to an R-type pyridyloxy-carboxylic acid, a salt and an ester derivative thereof, and a preparation method therefor, and a herbicidal composition and an application thereof. The R-type pyridyloxy-carboxylic acid is represented by Formula I, wherein A and B each independently represent a halogen, or an alkyl or a cycloalkyl containing a halogen or containing no halogen; C represents hydrogen, a halogen, an alkyl, or an haloalkyl; Q represents a halogen, cyano, or an cyanoalkyl, etc.; Y represents nitro or NR₁R₂; the salt is a metal salt, an amine salt, a sulfonium salt, or a phosphonium salt; and the ester

is represented by formula I-1, wherein X represents O or S, M represents an alkyl, an alkenyl, or an alkynyl, etc., containing or not containing a halogen. The compound has excellent herbicidal activity and higher crop safety, and good selectivity for especially rice and other key crops.

21: 2021/04085. 22: 2021/06/14. 43: 2022/07/08
 51: F16B
 71: Hilti Aktiengesellschaft
 72: SCHULTE SUEHDOFF, Eric, HAAG, Stefan, BEAUVAIS, Simon, GUELTEKIN, Furkan
 33: EP(LI) 31: 18214539.1 32: 2018-12-20
54: SECURING ELEMENT
 00: -

The invention relates to a securing element (10), such as a bolt, nail, or pin, comprising a shaft (20) which defines a drive-in direction (30). The shaft (20) has a front end (21) facing the drive-in direction (30) and a rear end (22) facing opposite the drive-in direction (30), and the shaft (20) has a profiled back (40), which is inclined at an acute angle to the drive-in direction (30), on the shaft circumference. According to one aspect of the invention, the profiled back (40) has a front flank (41) facing the securing direction and a rear flank (42) facing opposite the securing direction, wherein the front flank (41) has a greater surface area than the rear flank (42). According to another aspect, the securing element (10) has a tip region (70) which has a rounded section.



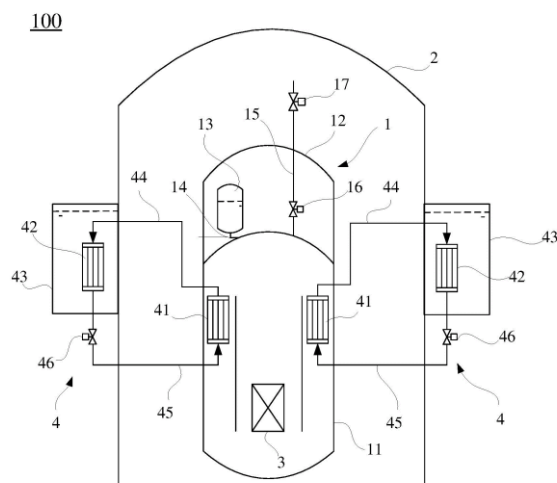
21: 2021/04113. 22: 2021/06/15. 43: 2022/07/13
 51: G21C

71: Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.
 72: ZHENG, Mingguang, YAN, Jinquan, CHEN, Yu, YANG, Bo, CAO, Kemei, LIU, Zhan, WANG, Haitao
 33: CN 31: 201911227935.2 32: 2019-12-04

54: INTEGRATED PASSIVE REACTOR SYSTEM

00: -

Provided is an integrated passive reactor system (100), comprising a pressure vessel (1), a containment vessel (2) arranged outside the pressure vessel (1), and a reactor core (3) arranged within the pressure vessel (1), a main circuit runs in full natural circulation. The integrated passive reactor system (100) is further provided with a secondary side passive waste heat discharge system, the secondary side passive waste heat discharge system comprises a main heat exchanger (41) arranged in the pressure vessel (1), a passive waste heat dissipation heat exchanger (42) arranged outside the containment vessel (2), and the main heat exchanger (41) is arranged above the core (3), the passive waste heat dissipation heat exchanger (42) is located inside a water tank (43) fixed outside the containment vessel (2), the main heat exchanger (41) and the passive waste heat dissipation heat exchanger (42) are connected by an inlet line (44) and an outlet line (45) of the heat exchanger. The passive safety technology, passive waste heat removal system, a double-layer structure on the top of the pressure vessel (1) and break isolation measures are used to minimize the loss of a coolant, so that it can meet the design basis accident mitigation requirements and ensure the safety of the reactor, as well as simplify the system design.



21: 2021/04134. 22: 2021/06/17. 43: 2022/07/13

51: B03D; C22B

71: XTROPI (PTY) LTD.

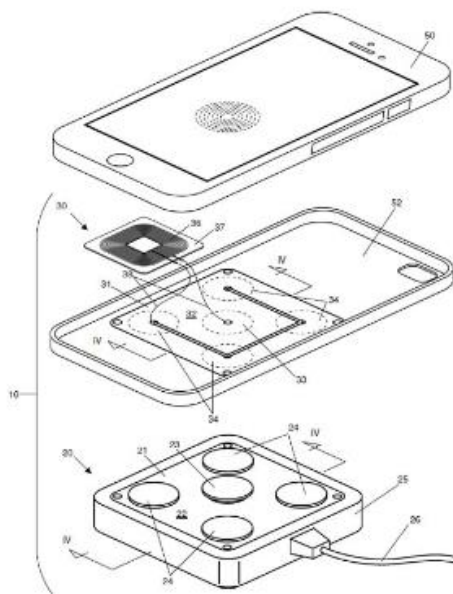
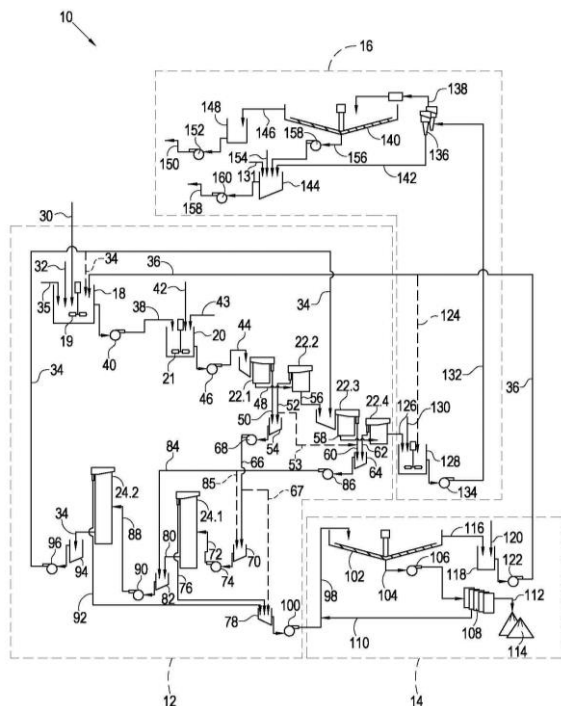
72: WHITEHEAD, Brian, BOTHA, Ian Marco, VAN ANTWERPEN, Ehrart Wynand

33: ZA 31: 2020/03601 32: 2020-06-17

54: BENEFICIATION OF Cr-BEARING ORE

00: -

A process(10) for beneficiating Cr-bearing ore includes conditioning (18, 20) an aqueous slurry (30) of particulate Cr-bearing ore to provide a conditioned slurry or pulp (44), the conditioning of the aqueous slurry including acidifying (18) the aqueous slurry by addition of a phosphorous oxoacid (35) to the aqueous slurry, and by addition of a collector (43) to the aqueous slurry, subjecting the conditioned slurry or pulp to froth flotation (12) by aerating the conditioned slurry or pulp to produce a Cr-rich froth concentrate, and removing the Cr-rich froth concentrate from the aerated slurry or pulp.



21: 2021/04136. 22: 2021/06/17. 43: 2022/07/08
51: H02J

71: PARKIN, Norman Frederick

72: PARKIN, Norman Frederick

33: ZA 31: 2020/03690 32: 2020-06-19

54: MOBILE DEVICE CHARGER

00: -

A charger for a mobile device has a base with at least a subset of the circuitry of the charger and electrical contacts arranged on a mounting surface of the base to enable connection to terminals of a power transfer component external to the base in order to complete the circuitry of the charger. The power transfer component has electrical contacts arranged on a mounting surface to enable connection thereof to corresponding contacts on the base when the power transfer component is mounted to the base. The power transfer component is configured to be positioned in proximity to a mobile device such that mounting it to the base enables the base to transfer electrical power to the mobile device via the power transfer component. The mounting surfaces of the base and power transfer component include complementary magnetic mounts enabling the power transfer component to be magnetically mounted to the base.

21: 2021/04138. 22: 2021/06/17. 43: 2022/07/19
51: E05B

71: ABUS AUGUST BREMICKER SÖHNE KG

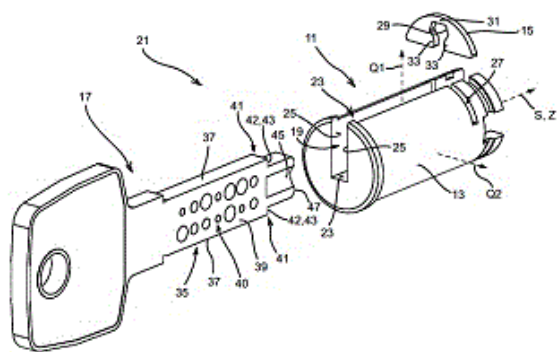
72: GLUSCHAK, CHRISTIAN, ULRICH , KLAUS

33: DE 31: 102020117226.5 32: 2020-06-30

54: LOCK CYLINDER, LOCKING DEVICE, LOCKING SYSTEM, KEY, AND KEY BLANK

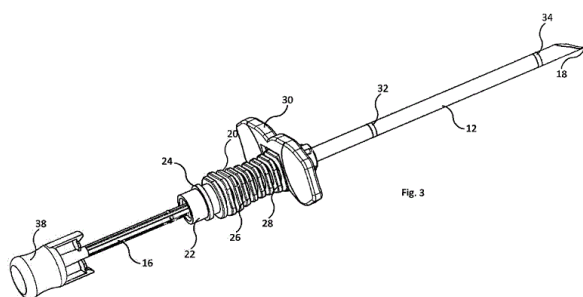
00: -

A lock cylinder comprises a cylinder housing and a cylinder core with a keyway rotatably supported in the housing for the key shaft of a key. Tumblers partly project into the keyway to block the cylinder core against a rotation out of a normal position if they are not arranged by the associated key. The lock cylinder comprises a coding element and the cylinder core has a receiver for the coding element. The receiver extends transversely to the cylinder axis into the cylinder core and partly overlaps with the keyway. The coding element is configured to engage into the keyway with an abutment section at one of the two narrow sides in order to limit the introduction of the key shaft, and to engage into the keyway with a coding section in order to encode a permitted profiling of the key shaft.



21: 2021/04141. 22: 2021/06/17. 43: 2022/07/08
 51: A61M A61N
 71: SFM MEDICAL DEVICES GMBH
 72: RICHTER, Timo, BRÖMSEN, Olaf
 33: DE 31: 10 2018 129 618.5 32: 2018-11-23
54: DEVICE FOR DEPOSITING AN ELEMENT BY MEANS OF A CANNULA

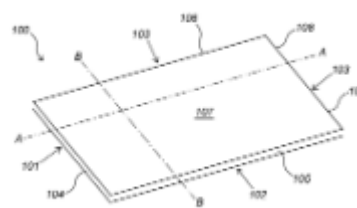
00: -
 The invention relates to a device for depositing a solid medicament, comprising: a cannula (12) having a tip (18) provided at the distal end; and an attachment (20) which receives a proximal region of the cannula and has ridges (24, 26, 28) extending perpendicularly to the longitudinal axis of the cannula; and a plunger (16) which is movable progressively inside the cannula and has a handle (38). The handle (38) has rib-like retaining elements which extend in the longitudinal direction of the plunger (16), are spaced apart therefrom and are connected to the plunger in each case by means of a connecting element which can be severed at least in one of its end regions by interacting with the attachment (20).



21: 2021/04145. 22: 2021/06/17. 43: 2022/07/08
 51: B32B; C08K; E04F
 71: I4F LICENSING NV
 72: BOUCKÉ, Eddy Alberic
 33: US 31: 62/775,151 32: 2018-12-04

54: DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS

00: -
 In the field of decorative floor coverings, decorative panels are known having a MDF (Medium Density Board) or HDF (High Density Board) based core layer on top of which a decorative substrate is attached to provide the panels a desired appearance. The invention relates to a panel, in particular a decorative panel, a floor panel, a ceiling panel or a wall panel. The invention also relates to a floor covering consisting of a plurality of mutually coupled panels.



21: 2021/04248. 22: 2021/06/21. 43: 2022/06/06
 51: C10J
 71: KBI INVEST & MANAGEMENT AG
 72: WEGNER, André
 33: EP 31: 18208810.4 32: 2018-11-28
54: REACTOR AND PROCESS FOR GASIFYING AND/OR MELTING OF FEED MATERIALS

00: -
 The present invention relates to a reactor (100) for the gasifying and/or melting of feed materials. The reactor comprises: a co-current section (110) comprising a plenum section (111), comprising a feed section with a sluice (112), wherein feed materials are introduced into the reactor (100) from above via the feed section, a buffer section (113), a pre-treatment section (114), which adjoins a bottom of the buffer section (113) to create a cross-sectional enlargement, and an intermediate section (115) adjoining the pre-treatment section, an upper oxidation section (116) adjoining a bottom of the intermediate section and comprising tuyeres (117), and an upper reduction section (118) adjoining a bottom of the upper oxidation section (116), a gas outlet section (120) comprising at least one gas outlet (121), and a countercurrent section (130) comprising a conical lower reduction section (138) adjoining the gas outlet section (120) and a conical

lower oxidation section (136) adjoining the lower reduction section (138) comprising at least one tuyere (137) and at least one tapping (131).

21: 2021/04311. 22: 2021/06/23. 43: 2022/07/14

51: A61F

71: BUDHIA, Joshna

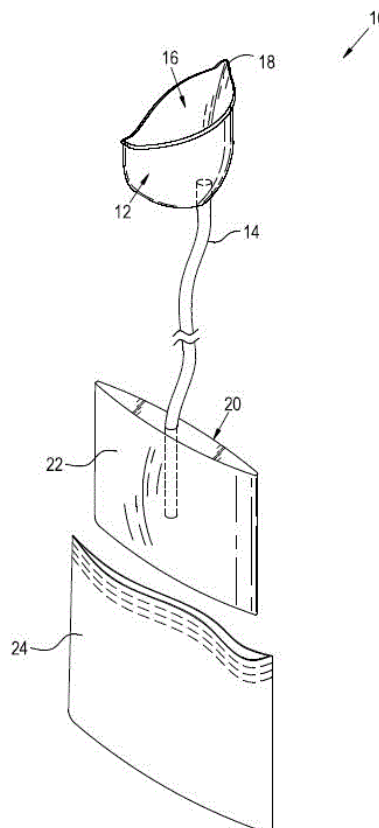
72: BUDHIA, Joshna

33: ZA 31: 2020/04004 32: 2020-07-01

54: PORTABLE AND DISPOSABLE URINARY DEVICE

00: -

A portable and disposable urinary device to facilitate urination is provided, the device comprising a urine collector for receiving and collecting urine from at least one person, the urine collector typically being made from a soft, flexible plastic compound such as silicone. The device further includes a flexible tube extending from the urine collector, which is typically also made from a soft, flexible plastic compound, and a urine holder fitted to the end of the flexible tube for receiving the urine exiting from the tube, the urine holder comprising an absorbent pad or body for absorbing and thus containing the excreted urine, for subsequent disposal.



21: 2021/04312. 22: 2021/06/23. 43: 2022/07/14

51: E21D; E21F; G08B

71: Dun-Cron Electrical CC, Bowima (Pty) Ltd

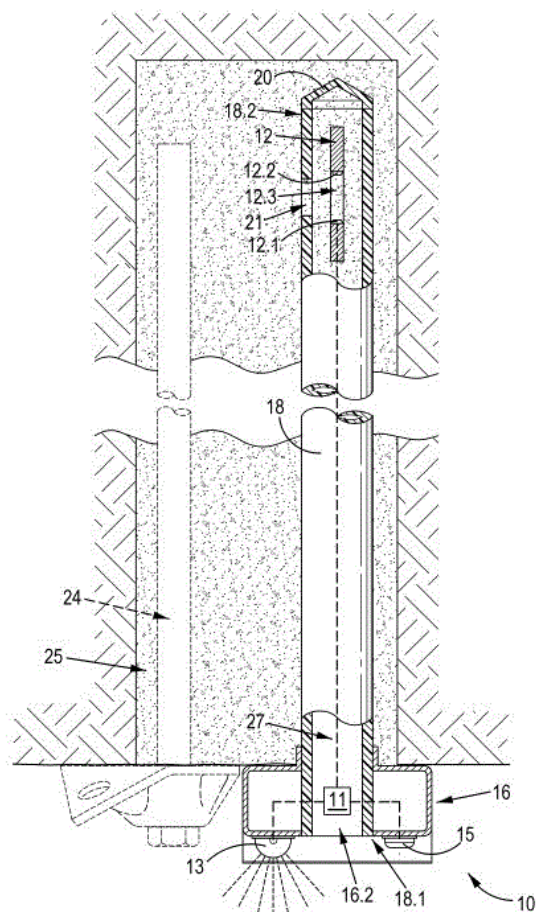
72: CRONJE, Willem Hendrik, WILKEN, Jacobus Johannes, BOSHOF, Pieter Gerhardus, MAKAZA, Thabiso Michael, CRONJE, Michael Duncan

54: A GROUT MONITORING DEVICE FOR AN ANCHOR

00: -

This invention relates to a grout monitoring device 10 for a rock anchor 24. The device 10 is configured to verify whether a hole in which the rock anchor has been installed has been fully grouted. To this end, the device 10 includes a base 16 and a tubular body 18. The body 18 has a proximal end 18.1 and an opposing distal end 18.2. The device further includes an optical grout sensor 12 which is disposed in the distal end 18.2 of the body and is configured to sense the presence of grout in the hole and a visual LED indicator 13 which is disposed in the base and is configured to indicate a status of the grout sensor to an operator by flashing one of two different colours. The device is self-contained in that the grout

sensor and indicator are integrated into a unitary assembly.



21: 2021/04356. 22: 2021/06/24. 43: 2022/07/14
 51: A61K; C07K; C12N; A61P
 71: JOINT STOCK COMPANY "BIOCAD"
 72: BRITANOVA, Olga Vladimirovna, STAROVEROV, Dmitry Borisovich, EVSTRATEVA, Anna Valentinovna, MISORIN, Alexey Konstantinovich, NEMANKIN, Timofey Aleksandrovich, SHCHEMELEVA, Mariia Aleksandrovna, VLADIMIROVA, Anna Konstantinovna, ANIKINA, Arina Vitalevna, IVANOV, Roman Alekseevich, MOROZOV, Dmitry Valentinovich, IAKOVLEV, Pavel Andreevich, LUKYANOV, Sergey Anatolievich
 33: RU 31: 2018146029 32: 2018-12-25
54: MONOCLONAL ANTIBODIES THAT BIND SPECIFICALLY TO HUMAN TRBV9
 00: -
 The invention relates to a monoclonal humanized antibody or antigen-binding fragment thereof that specifically bind to the TRBV9 family of the human T

cell receptor. The invention also relates to a nucleic acid encoding said antibody or antigen-binding fragment thereof, an expression vector, a method for preparing said antibody, and use of said antibody in treatment of diseases or disorders associated with the human T cell receptor family. The invention is directed to generation of antibodies that can be used for treating, in particular AS, celiac disease and malignant blood diseases, the pathogenesis of which involves the TRBV9 family TCRs.

21: 2021/04357. 22: 2021/06/24. 43: 2022/07/14
 51: A61K; C07K; C12N; C12P; A61P
 71: JOINT STOCK COMPANY "BIOCAD"
 72: BRITANOVA, Olga Vladimirovna, STAROVEROV, Dmitry Borisovich, EVSTRATEVA, Anna Valentinovna, MISORIN, Alexey Konstantinovich, NEMANKIN, Timofey Aleksandrovich, SHCHEMELEVA, Mariia Aleksandrovna, VLADIMIROVA, Anna Konstantinovna, ANIKINA, Arina Vitalevna, IVANOV, Roman Alekseevich, MOROZOV, Dmitry Valentinovich, IAKOVLEV, Pavel Andreevich, LUKYANOV, Sergey Anatolievich
 33: RU 31: 2018146031 32: 2018-12-25
54: MONOCLONAL ANTIBODIES AGAINST THE BETA CHAIN REGION OF HUMAN TRBV9
 00: -

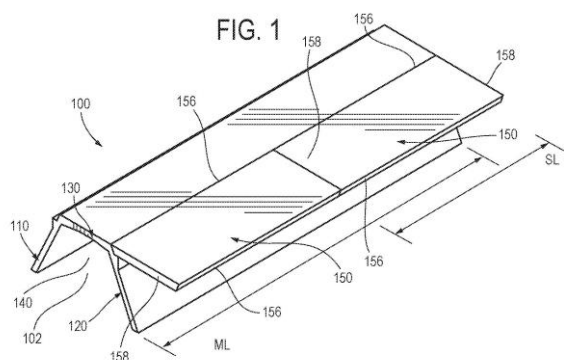
The invention relates to a monoclonal humanized antibody or antigen-binding fragment thereof that specifically bind to the TRBV9 family of the human T cell receptor. The invention also relates to a nucleic acid encoding said antibody or antigen-binding fragment thereof, an expression vector, a method for preparing said antibody, and use of said antibody in treatment of diseases or disorders associated with the human T cell receptor family. The invention is directed to generation of antibodies that can be used for treating, in particular AS, celiac disease and malignant blood diseases, the pathogenesis of which involves the TRBV9 family TCRs.

21: 2021/04373. 22: 2021/06/24. 43: 2022/07/14
 51: B28B; B65G; E01C; E02B; E04B; F17C
 71: StormTrap LLC
 72: HAWKEN, Jamie, BORESI, Lynn, LOWELL, Aaron, MCCREADY, Kyle, HOUCK, Jason, CARNCROSS, Doug, HERATY, Tom, GROSS, Dean
 33: US 31: 62/780,027 32: 2018-12-14

54: MODULE AND ASSEMBLY FOR UNDERGROUND MANAGEMENT OF FLUIDS FOR SHALLOW-DEPTH APPLICATIONS

00: -

A modular assembly is provided for managing the flow of fluid beneath a ground surface. The assembly can feature a plurality of modules, each having a deck portion and opposing sidewalls extending downward therefrom. The opposing sidewalls can slope outward and away from one another as they extend downward from the deck portion. The modules further comprise a shoulder for supporting a link slab, and to support and separate modules that are stacked during transportation or storage. The sidewalls can define an interior fluid passageway having a flared configuration from top to bottom. The link slab and sidewalls of adjacent modules can define an exterior fluid passageway in fluid communication with a lateral fluid channel. A method is also provided for making a precast concrete module for use in the modular assembly.



21: 2021/04415. 22: 2021/06/25. 43: 2022/07/07
51: B41J

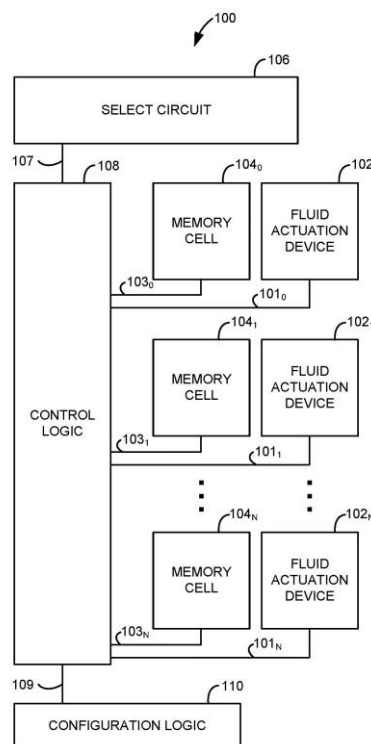
71: Hewlett-Packard Development Company, L.P.
72: LINN, Scott A., GARDNER, James Michael,
CUMBIE, Michael W.

54: INTEGRATED CIRCUITS INCLUDING MEMORY CELLS

00: -

An integrated circuit to drive a plurality of fluid actuation devices includes a plurality of memory cells, a select circuit, configuration logic, and control logic. Each memory cell corresponds to a fluid actuation device. The select circuit selects fluid actuation devices and memory cells corresponding to the selected fluid actuation devices. The configuration logic enables or disables access to the

plurality of memory cells. The control logic either activates the selected fluid actuation devices or accesses the memory cells corresponding to the selected fluid actuation devices based on a state of the configuration logic.



21: 2021/04418. 22: 2021/06/25. 43: 2022/07/07
51: B41J; G06F; G11C

71: Hewlett-Packard Development Company, L.P.
72: NG, Boon Bing, GARDNER, James Michael
33: PCT/US 31: 2019/016817 32: 2019-02-06
33: PCT/US 31: 2019/016725 32: 2019-02-06

54: PRINT COMPONENT WITH MEMORY CIRCUIT

00: -

A memory circuit for a print component including a plurality of I/O pads, including an analog pad, to connect to a plurality of signals paths which communicate operating signals to the print component, and a memory component to store memory values associated with the print component. A control circuit to, in response to identifying a sequence of operating signals representing a memory read, provide a first analog signal on the analog pad in parallel with a second analog signal from the print component to provide an analog electrical value on the analog pad representing stored memory values selected by the memory read.

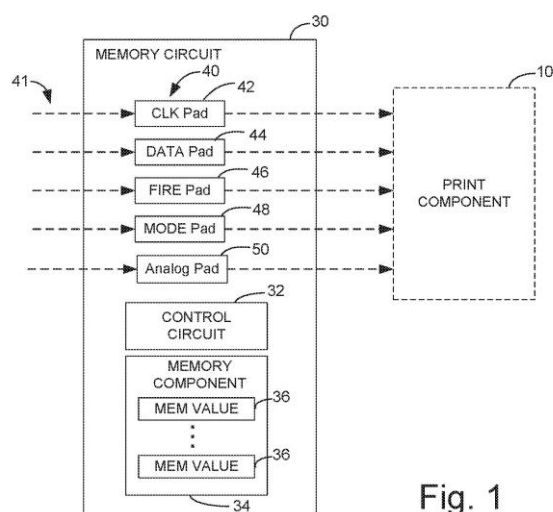


Fig. 1

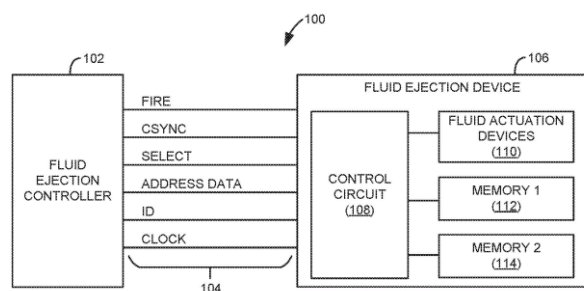
21: 2021/04421. 22: 2021/06/25. 43: 2022/07/07
51: B41J

71: Hewlett-Packard Development Company, L.P.
72: NG, Boon Bing

54: FLUID EJECTION DEVICES INCLUDING A FIRST MEMORY AND A SECOND MEMORY

00: -

An integrated circuit to drive a plurality of fluid actuation devices includes a plurality of first data lines, a second data line, a first memory element, and a second memory element. The first memory element is enabled in response to first data on the plurality of first data lines. The second memory element is enabled in response to second data on the second data line.



21: 2021/04469. 22: 2021/06/28. 43: 2022/07/07
51: G01D; G05B

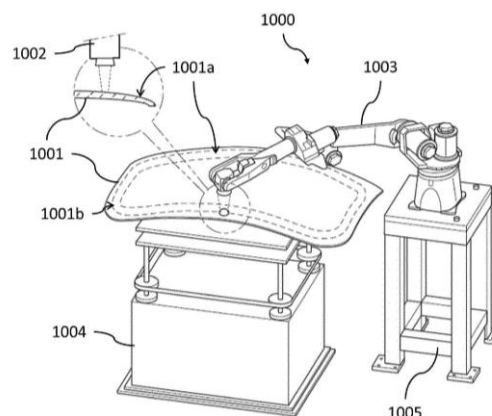
71: Saint-Gobain Glass France
72: CARLU, Adrien, MARLIER, Alexandre
33: FR 31: 1902931 32: 2019-03-21

54: METHOD FOR TIME SYNCHRONIZATION BETWEEN AN AUTOMATIC MOVING MEANS AND A CONTACTLESS DETECTION MEANS

ARRANGED ON SAID AUTOMATIC MOVING MEANS

00: -

The invention relates to a method for time synchronization between an automatic moving means and a contactless detection means arranged on said automatic moving means in order to measure a physical parameter along at least one same trajectory defined along the surfaces of a plurality of materials to be evaluated.



21: 2021/04471. 22: 2021/06/28. 43: 2022/07/07
51: B01D; E03B

71: Watergen Ltd.

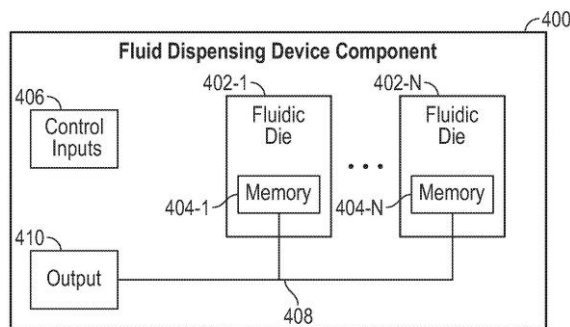
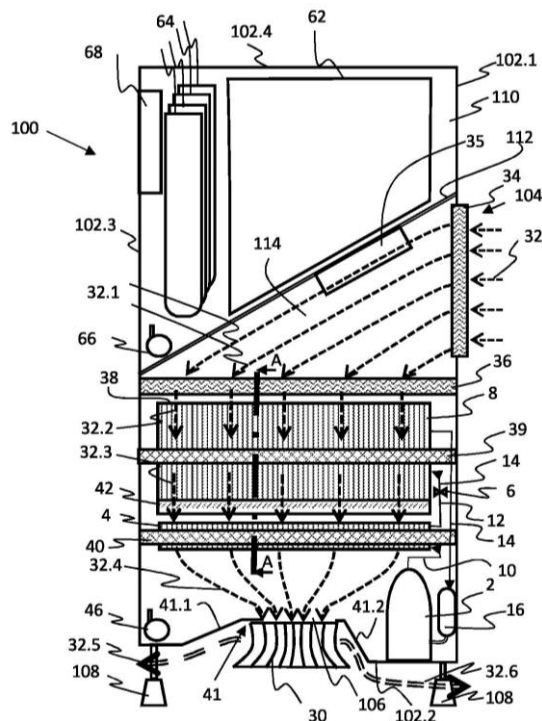
72: DULBERG, Sharon, BLUMENTHAL, Yanir Richard, PERY, Moran, CHERNIN, Guy Evgeni, NECHEMIA, Chen

33: US 31: 62/789,603 32: 2019-01-08

54: ATMOSPHERIC WATER GENERATOR

00: -

The invention discloses an AWG having improvements designed to reduce noise, improve uniform airflow through the evaporator of the AWG and reduce energy consumption. In one embodiment the AWG includes an air inlet located in one of the sidewalls of the enclosure and a blower located in proximity to the air outlet at the bottom wall of the enclosure.



21: 2021/04510. 22: 2021/06/29. 43: 2022/07/07

51: B41J

71: Hewlett-Packard Development Company, L.P.
72: NG, Boon Bing, NESS, Erik D., GARDNER, James Michael

54: MEMORIES OF FLUIDIC DIES

00: -

In some examples, a fluid dispensing device component includes a plurality of fluidic dies each comprising a memory, a plurality of control inputs to provide respective control information to respective fluidic dies of the plurality of fluidic dies, and a data bus connected to the plurality of fluidic dies, the data bus to provide data of the memories of the plurality of fluidic dies to an output of the fluid dispensing device component.

21: 2021/04513. 22: 2021/06/29. 43: 2022/07/07

51: H04N

71: Smule, Inc.

72: STEINWEDEL, David, HOLMBERG, Anton, VILLEGAS, Javier, CHI, Paul T., YOUNG, David, COOK, Perry R.

33: US 31: 62/774,664 32: 2018-12-03

54: AUGMENTED REALITY FILTERS FOR CAPTURED AUDIOVISUAL PERFORMANCES

00: -

Visual effects, including augmented reality-type visual effects, are applied to audiovisual performances with differing visual effects and/or parameterizations thereof applied in correspondence with computationally determined audio features or elements of musical structure coded in temporally-synchronized tracks or computationally determined therefrom. Segmentation techniques applied to one or more audio tracks (e.g., vocal or backing tracks) are used to compute some of the components of the musical structure. In some cases, applied visual effects are based on an audio feature computationally extracted from a captured audiovisual performance or from an audio track temporally-synchronized therewith.

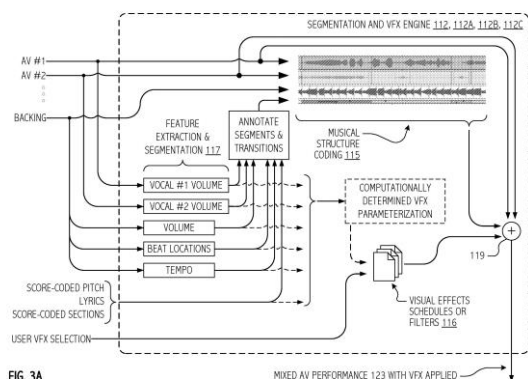


FIG. 3A

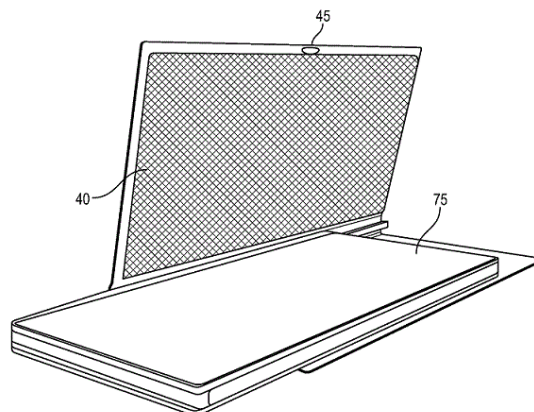
21: 2021/04526. 22: 2021/06/28. 43: 2022/08/22
 51: C22B; C25C
 71: ANGLO AFRICAN SERVICES LIMITED, THE COPPERBELT UNIVERSITY
 72: HARA, Yotamu Stephen Rainford, MUSOWOYA, Mazwi Douglas, KALUBA, Golden, MACHONA, Jimmy, CHAMA, Peter
 33: ZA 31: 2018/00172 32: 2018-01-10
54: PROCESS FOR THE RECOVERY OF COPPER AND COBALT FROM A MATERIAL SAMPLE
 00: -

The invention provides a process for recovering copper (Cu) and cobalt (Co) from a copper-cobalt containing material sample, and which is adapted for treating both low and high grades of copper-cobalt source material, such as Cu-Co slag, Cu-Co low grade ores, Cu-Co high grade ores / concentrates, Cu-Co tailings and Cu ores. The process comprises the steps of crushing and/or grinding the source material sample; admixing the ground sample with sodium hydrogen sulphate (NaHSO₄); leaching the material sample in water; separating waste material solids through solid/liquid separation to recover a solution containing copper and other soluble components; and recovering the copper through electro-cementation

21: 2021/04548. 22: 2021/06/30. 43: 2022/07/14
 51: A45C H04B B42F
 71: COLEMAN, Johnathan
 72: COLEMAN, Johnathan, ALEXANDER, Lael
54: POWER SCREEN PROTECTOR
 00: -

A rechargeable carrying case for a portable cellular communication system which protects and provides power to a mobile device is provided. The case includes a housing with a first side and second side

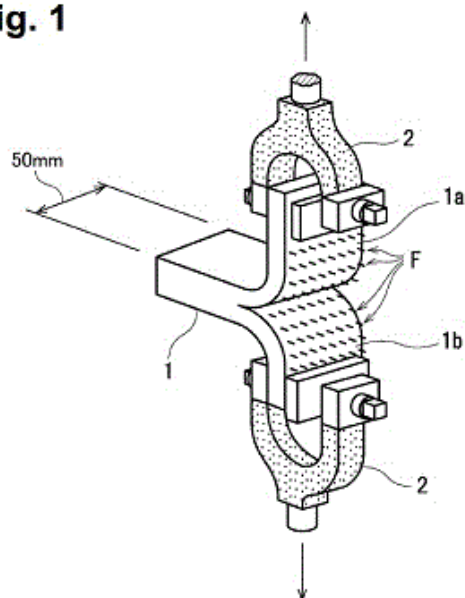
which provides protection to the mobile device. The carrying case provides aesthetic benefits to the consumer as a sliding system allows for the mobile device to engage the carrying case. The carrying case provides extended battery charging capabilities and is adapted to use with a phone that has two distinct displays.



21: 2021/04571. 22: 2021/06/30. 43: 2022/07/07
 51: D04H; B01D; F01N
 71: MAFTEC CO.,LTD.
 72: KIMURA, YUSUKE, MORITA, HIROKAZU, KAWAHARA, KAZUNORI, YOMOGIDA, MASANOBU, TSUTSUI, HIROMITSU
 33: JP 31: 2019-144390 32: 2019-08-06
 33: JP 31: 2020-092409 32: 2020-05-27
54: INORGANIC FIBER FORMED BODY, MAT FOR EXHAUST GAS PURIFICATION DEVICE, AND EXHAUST GAS PURIFICATION DEVICE
 00: -

Provided are: an inorganic fiber formed body in which high basis weight and excellent peeling strength are balanced; a mat for an exhaust gas purification device using the inorganic fiber formed body; and the exhaust gas purification device. An inorganic fiber formed body constituted from inorganic fibers, having needle indentations extended in the thickness direction, vertical strands comprising the inorganic fibers extended in the thickness direction being present in the needle indentations, wherein the inorganic fiber formed body is characterized in that the basis weight is 1800 g/m² or more, and the average volume of the vertical strands per needle indentation, measured using a specified peel test, is 0.5 mm³ or more, or the average volume per vertical strand is 1.0 mm³ or more.

Fig. 1



21: 2021/04590. 22: 2021/07/01. 43: 2022/07/14

51: G02F

71: GOVENDER, Tharreshnee

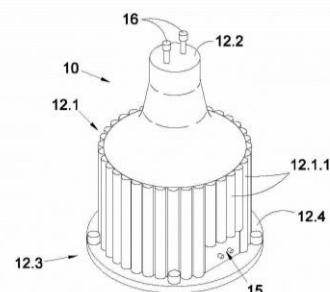
72: GOVENDER, Tharreshnee, MANILAL, Heeran

33: ZA 31: 2020/04009 32: 2020-07-01

54: AN ILLUMINATION DEVICE

00: -

The invention relates to an illumination device for receipt in a light fixture. The device comprising: a housing locatable in the light fixture; an electrical contact means to facilitate electrical contact between the device and a suitable electrical contacts of the light fixture, wherein the electrical contacts of the light fixture are electrically connected to a primary source of power; a connection arrangement for removably connecting a secondary power supply unit to the housing, wherein the secondary power supply unit is external to the housing; a light emitting element; and a circuit arrangement comprising suitable circuitry configured to supply the light emitting element with power received from the secondary power supply source and/or the electrical contact means. The illumination device may further comprise a spacer arrangement that is arranged to space an end of the illumination device through which light can pass, from a surface accommodating the illumination device, so as to form an air gap between the said end of the illumination device and the surface.



21: 2021/04615. 22: 2021/07/02. 43: 2022/07/12

51: B65G; B65D; B07B; B08B

71: CHUZHOU ANRI_HUILONG ELECTRONIC CO., LTD.

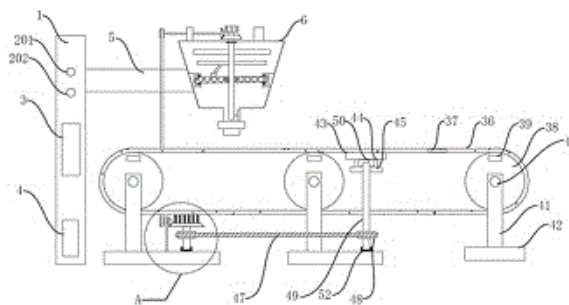
72: YANG, QIKUI

33: CN 31: 202010883370.X 32: 2020-08-28

54: CONTINUOUS QUANTITATIVE FEEDER

00: -

Disclosed is a continuous quantitative feeder, including an upright column. A discharge pipe is arranged at the bottom of a material hopper in a communicating manner. An electromagnetic control valve is arranged on the discharge pipe. A rotating motor is arranged above the material hopper. A rotating shaft extends into the material hopper and stirring blades are fixedly arranged thereon. A ball is fixedly arranged on an inclined rod. An elastic ring is embedded into the center of a filter mesh. An arc-shaped scraper is in contact with the inner wall of the discharge pipe. Belt cleaning brushes are fixedly arranged on a fourth bevel gear. A first speed sensor is fixedly arranged on the side surface of a conveyor belt. Second speed sensors are respectively and fixedly arranged on belt pulleys.



21: 2021/04668. 22: 2021/07/05. 43: 2022/07/12

51: C07D

71: Kemin Industries, Inc.

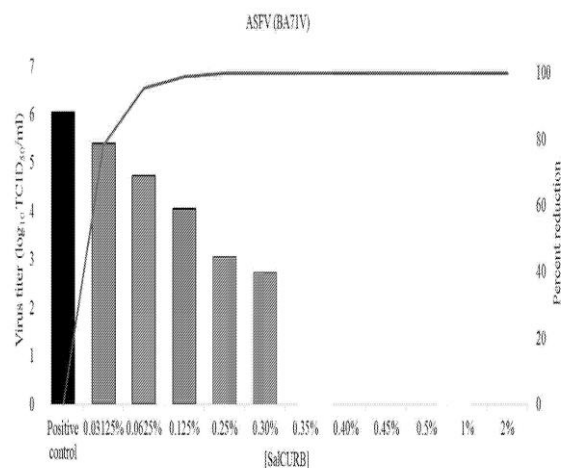
72: NIEDERWERDER, Megan

33: US 31: 62/792,552 32: 2019-01-15

54: INACTIVATION OF AFRICAN SWINE FEVER VIRUS USING A FEED ADDITIVE

00: -

African swine fever virus (ASFV) is a very large complex DNA virus that is rapidly spreading through the largest pork producing country in the world, China. ASFV causes high mortality in pigs and is currently a foreign animal disease to North America and most European countries. There is currently no effective vaccine and the virus is known to be transmitted through the oral route via consumption of contaminated feed. ASFV is capable of surviving in feed and feed ingredients subjected to varying environmental conditions simulating transoceanic shipment. The present invention relates to a feed additive that is effective at mitigating ASFV in cell culture and in feed and feed ingredients.



21: 2021/04697. 22: 2021/07/06. 43: 2022/07/12
51: B65D

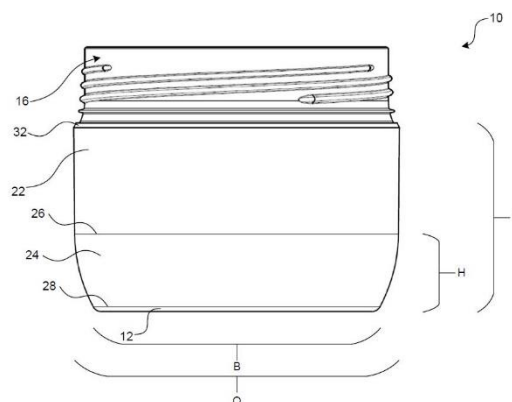
71: TEQAL (PTY) LTD
72: Kirkham, Sean

54: A CONTAINER

00: -

A container is disclosed. The container has a base, a sidewall extending operatively upwardly from the base and a finish which defines an open end of the container. The sidewall includes an operatively upper section which has a substantially cylindrical shape and an operatively lower section which is curved. A diameter of the lower section decreases along a height of the lower section from an outer diameter to a base diameter. The difference between the outer diameter and the base diameter is between 57% and 72% of a curved section height.

The difference between the outer diameter and the base diameter is between 19% and 37% of a radius of curvature of the lower section. The curved section height is between 30% and 56% of the radius of curvature of the lower section. A container assembly including such a container and a lid is also disclosed.



21: 2021/04731. 22: 2021/07/07. 43: 2022/07/12
51: G06F

71: DAVID LEOGANG SELEBI

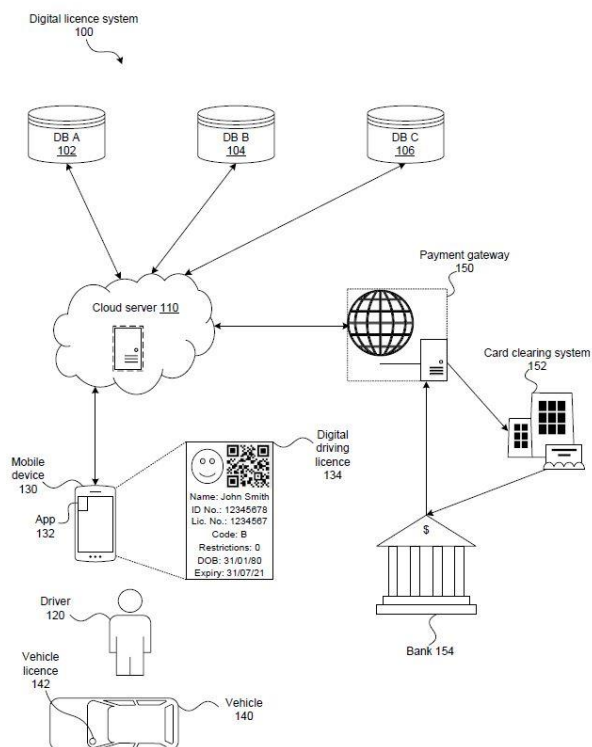
72: SELEBI, David Lebogang

33: ZA 31: 2020/05789 32: 2020-07-28

54: PROVIDING A DIGITAL DRIVING LICENCE

00: -

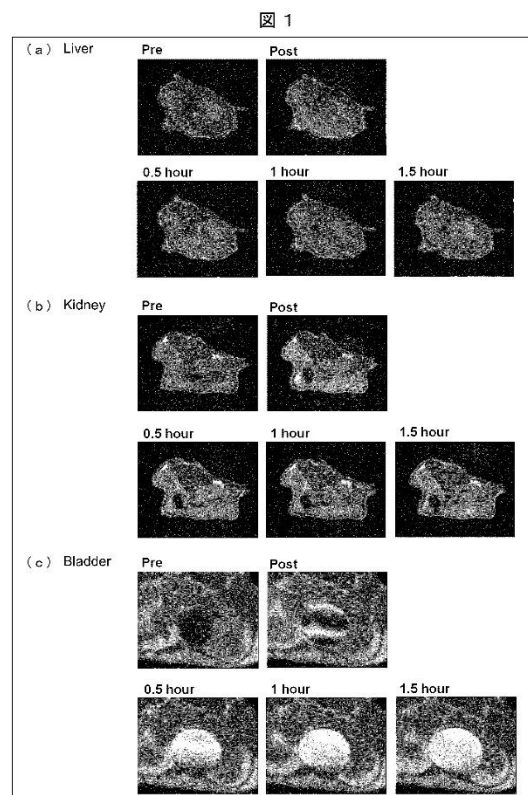
Systems and methods for providing a digital driving licence are disclosed. The system receives a request for a digital driving licence from a mobile device of a driver. The system retrieves driver data and driving licence data and generates the digital driving licence for the driver. The digital driving licence is transmitted to the mobile device in an electronic format. The mobile device may have a software application installed thereon which enables the driver to store the digital driving licence on the mobile device and to display the digital driving licence on a display of the mobile device. The system is further configured to identify events associated with the digital driving licence, such as the issuance of traffic fines and/or upcoming licence renewals, and to transmit licence-related communications to the mobile device based on the identified events.



21: 2021/04733. 22: 2021/07/07. 43: 2022/07/12
 51: A61K; C07C; C07F; B82Y
 71: ASTELLAS PHARMA INC., RIKEN, NATIONAL INSTITUTE FOR QUANTUM AND RADIOLOGICAL SCIENCE AND TECHNOLOGY
 72: MIYAJIMA, Daigo, TAKEUCHI, Toshiaki, AIDA, Takuzo, AOKI, Ichio, MIZUTANI, Tsuyoshi, YAMADA, Hiroyoshi, TOYA, Hiroki, FUJIKAWA, Akihiko, YOSHIMURA, Seiji, KIKUCHI, Shigetoshi
 33: JP 31: 2018-245927 32: 2018-12-27
54: NANOPARTICLE, CONTRAST AGENT FOR MAGNETIC RESONANCE IMAGING COMPRISING SAME AND ZWITTERIONIC LIGAND COMPOUND
 00: -

Provided are: a novel nanoparticle; a contrast agent for magnetic resonance imaging comprising the same; and a zwitterionic ligand compound to be used in the production of the nanoparticle. The contrast agent for MRI according to the present invention is appropriately usable as a contrast agent for MRI in the medical field. The nanoparticle and zwitterionic ligand compound according to the present invention are applicable to various pharmaceutical compositions, etc. including a contrast agent for MRI, and broadly usable in, for example, various diagnostic methods and test

reagents in the fields of pharmaceuticals, bioengineering



21: 2021/04739. 22: 2021/07/07. 43: 2022/07/12
 51: A61K A61P
 71: UNI-PHARMA KLEON TSETIS PHARMACEUTICAL LABORATORIES S.A., TSETI, Ioulia
 72: PANTOS, Constantinos, MOUROUZIS, Iordanis
 33: EP 31: 19151064.3 32: 2019-01-09
 33: US 31: 19386057.4 32: 2019-12-19
54: L-TRIODOETHYRONINE (T3) FOR USE IN LIMITING MICROVASCULAR OBSTRUCTION
 00: -

The present invention concerns the use of L-triiodothyronine (T3) in a novel treatment to limit or prevent the occurrence of Microvascular Obstruction (MVO), after a successful Primary Percutaneous Coronary Intervention (PPCI), in the course of an acute ST-segment-elevation myocardial infarction (STEMI).

21: 2021/04753. 22: 2021/07/07. 43: 2022/07/12
 51: B01D; C02F; E03B
 71: Watergen Ltd.

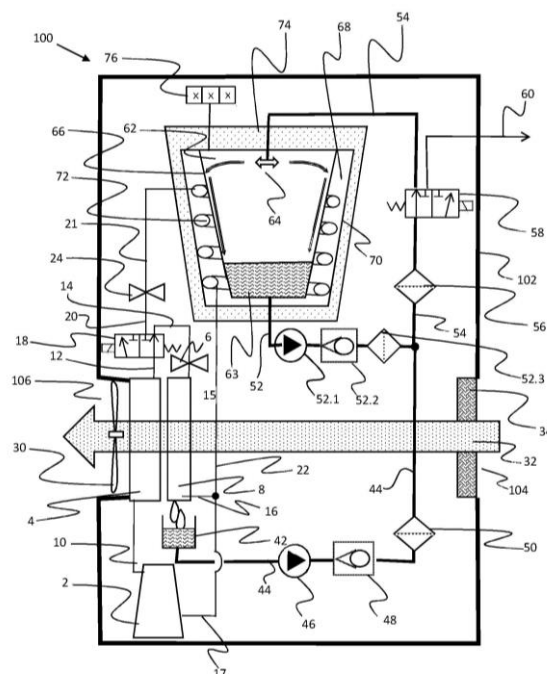
72: DULBERG, Sharon, NECHEMIA, Chen

33: US 31: 62/789,648 32: 2019-01-08

54: ATMOSPHERIC WATER GENERATOR WITH WATER COOLING SYSTEM

00: -

An atmospheric water generator (AWG) with a water cooling system is disclosed. In some embodiments, the AWG includes a cooling compartment defined by walls, designed to comprise a cooling medium and comprising a refrigerant coil. The storage tank for storing the water that are generated by the AWG shares at least a portion of a common wall with the cooling compartment. The refrigerant coil of the cooling compartment is in fluid communication with the refrigeration cycle and designed to be at least partially submerged in the cooling medium. In some embodiments, the stored water tank is submerged in the cooling compartment. Other embodiments are also disclosed.



21: 2021/04781. 22: 2021/07/08. 43: 2022/07/13

51: C01B; B01D

71: KEYON PROCESS CO., LTD., HUANG, RUI

72: HUANG, RUI, WANG, DAN, ZHANG,

HUAYONG, ZHANG, YUAN, QI, JUNLING

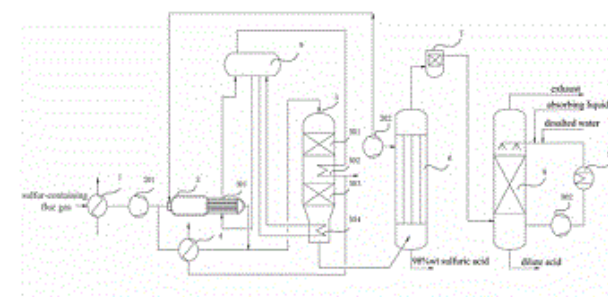
33: CN 31: 201811600891.9 32: 2018-12-26

33: CN 31: 201822211197.X 32: 2018-12-26

54: PROCESS SYSTEM AND PROCESS METHOD FOR CONVERSION OF SULFUR-CONTAINING FLUE GAS TO SULFURIC ACID

00: -

Disclosed are a process system and process method for the conversion of a sulfur-containing flue gas to sulfuric acid. The process system includes: a flue gas preheater, which is used for preheating the sulfur-containing flue gas to 15-30°C above the dew point thereof, and of which the heat exchange tube is a glass tube; a flue gas fan, which is used for increasing the pressure of the preheated acid process gas, and transporting a part thereof to a combustion furnace and the other part to a process gas steam heater, wherein the combustion furnace and the process gas steam heater are connected to each other and then connected to a combined reactor, wherein the combined reactor is used for catalytically oxidizing SO_2 in the acid process gas to generate SO_3 ; and a sulfuric acid steam condenser, which is used for condensing SO_3 generated in the combined reactor to sulfuric acid. A cool end of the sulfuric acid steam condenser is also connected to the flue gas preheater, thus being used to provide hot air to the flue gas preheater. The device of the present invention is capable of resisting a fluctuation in concentration of SO_2 in a raw material gas, and can realize considerable economic benefits and the rational utilization of energy.



21: 2021/04806. 22: 2021/07/09. 43: 2022/07/12

51: B60P; B60R; B66F

71: CLEARVIEW PROPERTY MANAGEMENT PTY LTD

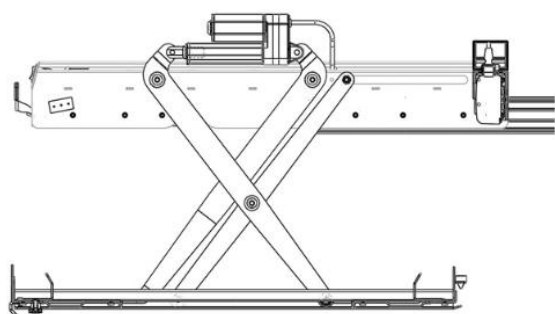
72: COWAN, Michael, CINCOTTA, Bernard, CHAPMAN, Graeme

54: APPARATUS FOR MOVING AN ITEM

00: -

Disclosed herein is an apparatus for moving an item. The apparatus comprises a mounting portion for mounting the apparatus to a surface, a platform configured to receive the item thereon, extendable arms configured to extend away from the mounting

portion, wherein the platform is moveable between a storage position above the surface and an accessible position away from the surface, lifting assemblies that join opposing sides of the platform to a respective extendable arm, the lifting assemblies being configured to raise and lower the platform relative to the extendable arms whilst in the accessible position, and a driver operable to raise and lower the platform. At least one of the lifting assemblies comprises three arms, at least one arm being a driven arm that is driven by the driver whereby the platform is raised or lowered, and another are being a stabilising arm that is configured to move synchronously with the driven arm whereby the platform is stabilised.



21: 2021/04811. 22: 2021/07/09. 43: 2022/07/12
51: B62D

71: CATERPILLAR INC.

72: STEINER, KEVIN

33: US 31: 16/244,864 32: 2019-01-10

54: TRACK LINK HAVING CANTED RAIL SURFACE EDGES AND MACHINE TRACK WITH SAME

00: -

A track link (28) for a machine track (26) includes an elongate link body (36) having an upper rail surface (53) with an inboard peripheral edge (55) and an outboard peripheral edge (56) each formed upon a first link strap (35), a second link strap (39), and a middle section (42). The upper rail surface (53) defines a longitudinal midline (58) and at least one of the inboard peripheral edge (55) or the outboard peripheral edge (56) upon the first link strap (35) and the second link strap (39) is canted, in an inboard-outboard direction, to a longitudinal midline (58) of the upper rail surface (53).

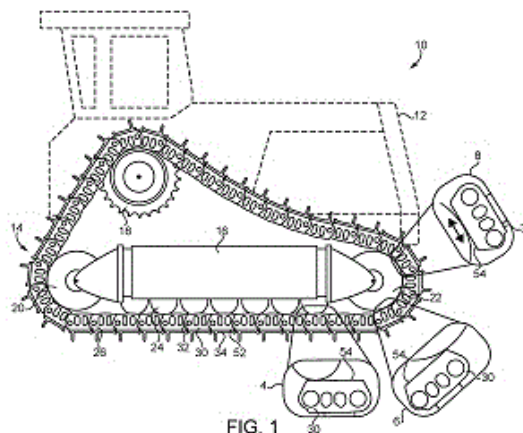


FIG. 1

21: 2021/04813. 22: 2021/07/09. 43: 2022/07/20

51: G06F

71: MICROSOFT TECHNOLOGY LICENSING, LLC

72: STEPHENS, MAONI ZHANG, DUSSUD, PATRICK HENRI

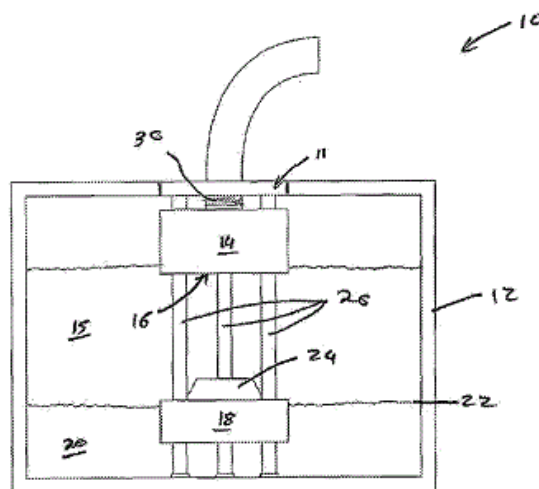
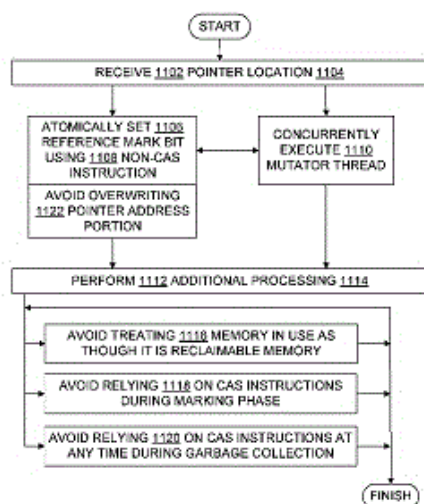
33: US 31: 16/268,041 32: 2019-02-05

54: REDUCING SYNCHRONIZATION RELIANCE IN GARBAGE COLLECTION MARKING

00: -

Memory reclamation is tailored to avoid certain synchronization instructions, speeding concurrent garbage collection while preserving data integrity and availability. Garbage collection reclaims objects no longer in use, or other unused areas of memory. Pointers are partitioned into address portions holding address values and garbage collection portions having a special bit. Marking code writes only the garbage collection portions, setting the special bit as a mark reference, relocation candidate, etc. Mutator threads may concurrently mutate the entire pointer to update the address, but mutation does not cause incorrect reclamations or failure of operations such as relocation. Execution speed is increased by avoiding certain synchronization instructions in the garbage collector, and using different atomic writes instead. Mutators run in user or kernel address spaces. The garbage collector may enclose partitioned pointers and their use, to avoid runtime errors by code that expects references to be in a canonical nonpartitioned form.

EXAMPLE OF A
GARBAGE COLLECTION PROCESS 1100



21: 2021/04832. 22: 2021/07/09. 43: 2022/07/13
51: F16K F02M F02D F23K B65D B67D
71: DU RAND, Andre, Joachim, Henry
72: DU RAND, Andre, Joachim, Henry
33: ZA 31: 2018/08338 32: 2018-12-11

54: SHUT-OFF VALVE

00: -

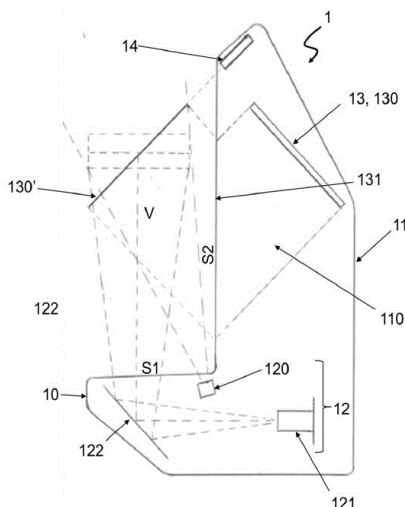
The invention provides a shut-off valve (10) for a hydrocarbon liquid or fuel intake. The valve includes a first float body (14) configured to float at the surface of hydrocarbon fuel (15), a fuel intake (16) located on the first float (14) and positioned such that the intake (16) is below the surface of the fuel (15), in use, and a second float body (18) configured to float on water (20) and sink in hydrocarbon fuel (15) such that the body (18) floats at an interface of hydrocarbon fuel (15) and water (20) phases, in use. A closing means (24) is located on the second float (18) for closing or restricting the fuel intake (16) when the first float (14) and second float (18) are in contact or in close proximity and further includes a guide arrangement (26) for guiding the first and second float (14, 18) towards each other as the surface of the hydrocarbon fuel (15) approaches the fuel water interface.

21: 2021/04904. 22: 2021/07/13. 43: 2022/07/13
51: G06F; G06K; G07C; H04L
71: Idemia Identity & Security France
72: MAILLARD, Sylvain Emile Henri, SANDRAZ, Jean-Rémi, DUMONT, Denis
33: FR 31: 2008089 32: 2020-07-30

54: BIOMETRIC TERMINAL, IN PARTICULAR FOR ACCESS CONTROL

00: -

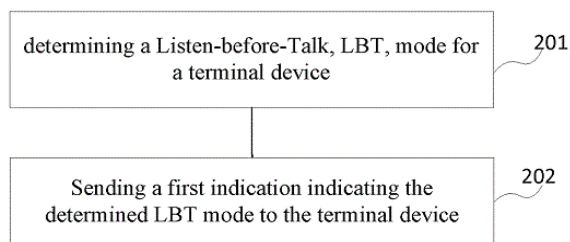
The present invention relates to a terminal (1) comprising- a main body (10) having an upper surface (S1) that is substantially horizontal;- a tower (11) extending substantially vertically from said main body (10), so as to define an acquisition volume (V) delimited by said upper surface (S1) and the tower (11);- optical acquisition means (12) arranged within the main body (10) so as to be able to acquire an image of a biometric print placed within the acquisition volume (V) facing the upper surface (S1);- a user interface (13) arranged within the tower (11);characterized in that the tower (11) has a cavity (110), and the user interface (13) comprises a screen (130) arranged at the bottom of the cavity (110) and a semi-reflective plate (131) closing the cavity (110) so as to provide the optical illusion that said screen (130) is floating within the acquisition volume (V).The present invention further relates to a method for acquiring an image of a biometric print by means of the terminal.



21: 2021/04942. 22: 2021/07/14. 43: 2022/07/13
 51: H04W
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
 72: WANG, Min, LIU, Jinhua
 33: CN 31: PCT/CN2018/122849 32: 2018-12-21
54: METHOD AND DEVICE OPERATING IN UNLICENSED SPECTRUM

00: -
 The present disclosure provides a method implemented in a wireless network node operating in an unlicensed spectrum, comprising determining a Listen-before-Talk LBT mode for a terminal device; and sending a first indication indicating the determined LBT mode to the terminal device. The disclosure also provides a method implemented in a terminal device operating in an unlicensed spectrum.

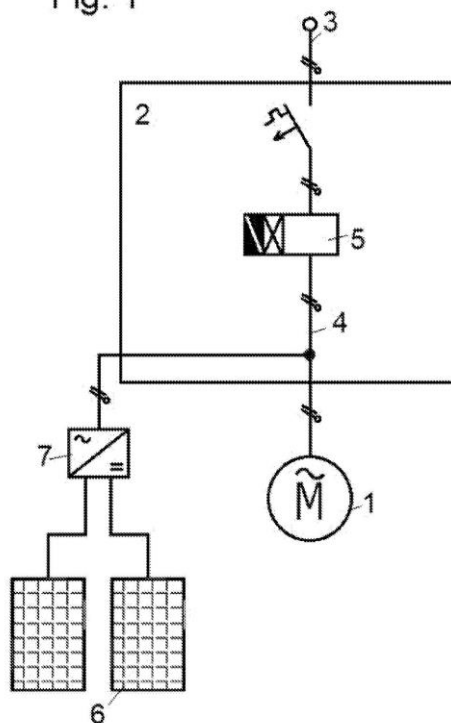
200



21: 2021/04949. 22: 2021/07/14. 43: 2022/07/13
 51: H02B
 71: EOS ITR, S.L.
 72: OLMOS DE BONILLA, Carlos
 33: ES 31: P201930691 32: 2019-07-25
54: ELECTRIC CIRCUIT FOR POWERING CENTRIFUGAL PUMPS

00: -
 The invention relates to an electric circuit for powering centrifugal pumps, which comprises a power panel (2) of the pump (1), which is connected to an alternating-current distribution network (3) and the pump (1) by means of a power line (4) provided with a timer (5) that regulates the operating time of the pump (1). The circuit further comprises a solar module comprising photovoltaic panels (6) and a solar micro inverter (7) connected in parallel to the alternating-current bus of the pump (1), which converts the continuous current generated by the solar module into alternating current and injects same into the pump power line (4), with the same values of voltage, frequency and phase-angle deviation as the current from the distribution network (3), when the timer activates the operation of the pump.

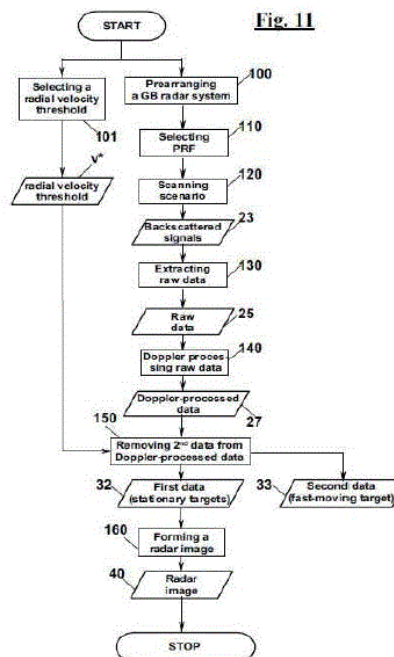
Fig. 1



21: 2021/04968. 22: 2021/07/15. 43: 2022/07/13
 51: G01S
 71: IDS GEORADAR S.r.l.
 72: MICHELINI, Alberto
 33: IT 31: 102020000017329 32: 2020-07-16
54: METHOD AND APPARATUS FOR BLURRING EFFECT MITIGATION IN GROUND-BASED RADAR IMAGES

00: -

In a method for mitigating the blurring effect in a radar image (40) obtained by a ground-based radar system, thereof, a Pulse Repetition Frequency (PRF) value is selected (110) in a radar sensor unit (30) such that radial velocity measurements of the targets of an observed scenario can be made up to a maximum unambiguous velocity v_{max} , a radial velocity threshold is also selected (101) to discriminate between substantially stationary targets and possible fast-moving targets having radial velocities $v_{R,j} = v^*$ and $v_{R,f} > v^*$, respectively. The scenario is conventionally scanned (120) by emitting transmission signals to the targets and receiving corresponding backscattered signals (23) from which raw data (25) are extracted (130), the latter in turn are Doppler-processed (140) so as to discriminate first and second data (31,32) related to the substantially stationary and to the fast-moving target(s), respectively, according to whether the measured radial velocities (v_R) are lower than the radial velocity threshold (v^*) or not, respectively; second data are removed (150) from the Doppler-processed data (27) and radar image (40) is formed from remaining first data, i.e., based on the substantially stationary targets only. The method allows reducing the occurrence of artifacts due to fast-moving objects that are systematically present or that turn up in the scenario at the moment of taking an image thereof, such as truckloads or vehicle in general, as well as crane mobile portion in scenarios like a portion of a mine.



21: 2021/04984. 22: 2021/07/15. 43: 2022/07/12

51: G06K

71: Identity Inc.

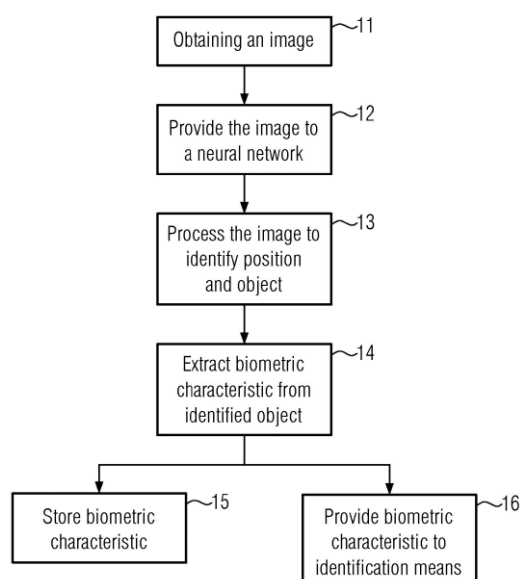
72: GUPTA, Hardik, MURUGAN, Satheesh

33: EP(DE) 31: 19153461.9 32: 2019-01-24

54: METHOD FOR VERIFYING THE IDENTITY OF A USER BY IDENTIFYING AN OBJECT WITHIN AN IMAGE THAT HAS A BIOMETRIC CHARACTERISTIC OF THE USER AND MOBILE DEVICE FOR EXECUTING THE METHOD

00: -

A method for identifying a user using an image of an object of the user that has a biometric characteristic of the user, wherein the object is one of a palm of the hand of the user, a face of the user, an eye of the user, a bottom of a foot of the user, the method comprising: obtaining, by an optical sensor of a mobile device, the image of the object; providing the image to a neural network; processing the image by the neural network, thereby identifying both, the position of the object and the object in the image; extracting, from the identified object, the biometric characteristic; storing the biometric characteristic in a storage device and/or providing at least the biometric characteristic as input to an identification means, comprising processing the input in order to determine whether the biometric characteristic identifies the user.



21: 2021/05014. 22: 2021/07/16. 43: 2022/07/13
51: B65D; E05B

71: ASKI Consulting (Pty) Ltd

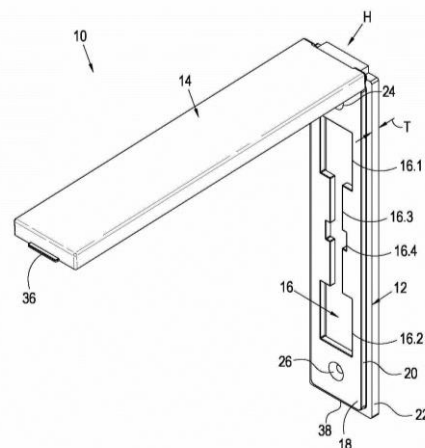
72: SOOKHINUNTHEN, Ashlen Bijay

33: ZA 31: 2020/04396 32: 2020-07-17

54: A COVER DEVICE FOR A LOCKING ARRANGEMENT

00: -

This invention relates generally to cover devices for use with locking arrangements, particularly to seal the locking arrangements against ingress of unwanted particulate matter such as air, dust, fine sand, etc. The cover device comprises a base and cover attachable to each other in a sealing fashion. The base is attachable to or adjacent the locking arrangement and defines at least one suitable opening to permit access to an actuator of the locking arrangement, in use. The cover is displaceably attachable to the base between a first position in which the at least one opening of the base is accessible, and a second position in which the cover is engaged with the base in a substantially sealing fashion through the inclusion of rubber or similar seals.



21: 2021/05046. 22: 2021/07/19. 43: 2022/07/13
51: G01N

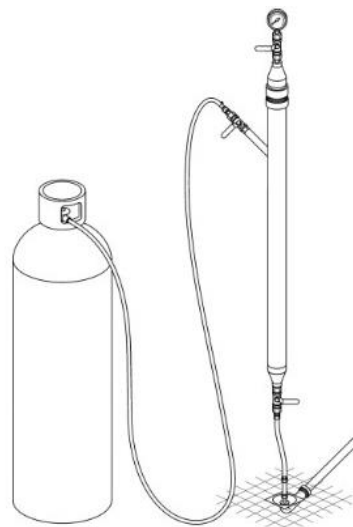
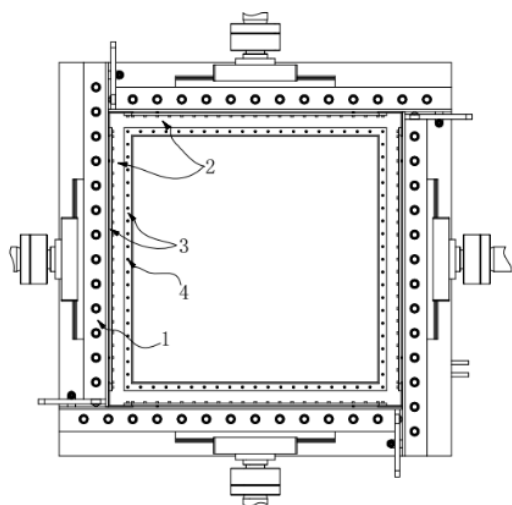
71: QINGDAO UNIVERSITY OF TECHNOLOGY,
CHN ENERGY BAOSHEN RAILWAY GROUP CO.,
LTD.

72: SU, Lei, LING, Xianzhang, GUAN, Da, YANG,
Zhongnian, LIU, Xiu, ZHANG, Yongqiang, ZHAO,
Yingying

54: WATER LEAKAGE PREVENTING DEVICE AND METHOD FOR MOBILE RIGID BOXBOARD IN GEOTECHNICAL TRUE TRIAXIAL TEST

00: -

Disclosed are a water leakage preventing device and method for a mobile rigid boxboard in a geotechnical true triaxial test. The device includes a soil box structure formed by connecting a bottom plate to mobile rigid boxboards perpendicular to the bottom plate in sequence. A flexible sealing framework, sealing fixed strips, flat head screws and flexible sealing strips are arranged in the soil box structure. The flexible sealing framework is disposed close to joints of the adjacent mobile rigid boxboards and joints between the bottom plate and the mobile rigid boxboards and is pressed by the sealing fixed strips. By means of a special design on the flexible sealing framework and the sealing fixed strips, the solution is ingenious in structural design, low in manufacturing cost, and reliable in operation; furthermore, two waterproofing measures are provided to realize effective waterproofing without affecting the movement of the rigid boxboards.

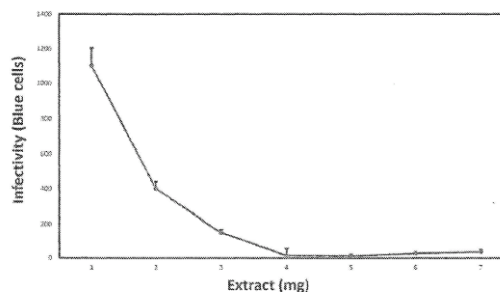


21: 2021/05054. 22: 2021/07/19. 43: 2022/07/12
 51: F16L
 71: PLUMVAC PROJECTS AND SERVICES (PTY) LTD
 72: MOSTERT, Andre, BREYTENBACH, Ryan Alec
 33: ZA 31: 2020/05544 32: 2020-09-08
54: A PIPE-RELINING APPARATUS
 00: -

An apparatus and a method for pipe-relining is disclosed. The apparatus includes an elongate rigid reservoir having an inlet arranged to operatively receive an epoxy resin and a valve-operated outlet arranged to be connected to a pipe to be relined. A cap is removably securable to the inlet of the reservoir. A compressed gas supply connection is in fluid communication with the reservoir and is arranged to be connected to a source of compressed gas. The apparatus is operable to fill the reservoir with epoxy resin, close the inlet with the cap, pressurise the epoxy-filled reservoir with the source of compressed gas, and open the outlet valve to expel the epoxy through the outlet, thereby relining an interior surface of a pipe to which the outlet is connected with epoxy resin.

21: 2021/05075. 22: 2021/07/19. 43: 2022/07/12
 51: A61K; C07K
 71: Morehouse School of Medicine
 72: POWELL, Michael D., GBODOSSOU, Erick Vidjin' Agnih
 33: US 31: 62/783,035 32: 2018-12-20
54: ANTIVIRAL COMPOSITIONS AND METHODS
 00: -

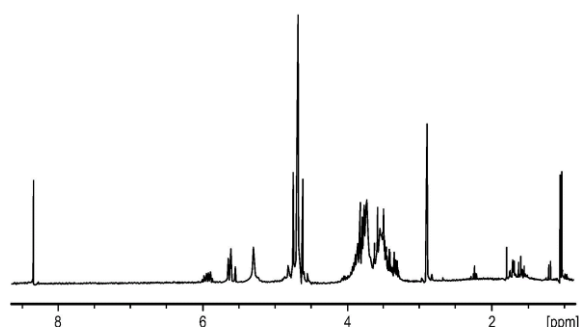
The present application relates to a compositions and methods comprising or expressing a MOMO30 protein derived from *Momordica balsamina*. The MOMO30 protein is about 30 kDa in size, is stable after being autoclaved at 120°C for 30 min, resists proteolytic cleavage by trypsin, exhibits mannose-sensitive binding HIV gp120, exhibits hemagglutinin and chitinase activity, is capable of activating and stimulating T cell proliferation, is capable of preventing infection by HIV-1 or alleviating symptoms in an HIV-1 infected patients and comprises the amino acid sequence of SEQ ID NO: 1. The MOMO30 protein and/or a nucleic acid encoding the same may be used in methods for preventing or treating viral infections by HIV and other enveloped viruses.



21: 2021/05076. 22: 2021/07/19. 43: 2022/07/12
 51: C08B; C08J; C08K; C08L; C09K
 71: Integrity Bio-Chemicals, LLC
 72: MADDURI, Ashoka V.R., KURI, Laura, VHORA, Sameer, GIBBS, William, BLACKMON, Matthew B.
 33: US 31: 62/871,967 32: 2019-07-09
54: AMMONIUM-FUNCTIONALIZED SACCHARIDE POLYMERS AND METHODS FOR PRODUCTION AND USE THEREOF

00: -

Metal contaminants may be problematic in a number of industries, particularly in the mining industry. Fines production and dust control may be similarly problematic in many industries, including the mining industry. Reaction products formed from a saccharide polymer and diallyldimethylammonium chloride (DADMAC) under room temperature to heating conditions in the presence of a hydroxide base or a radical initiator may be effective for promoting removal of metal contaminants from clay-containing substances, such as through froth flotation. The reaction products may also be effective for mitigating fines production and providing dust control by forming a coating upon a plurality of particulates.



21: 2021/05077. 22: 2021/07/19. 43: 2022/07/13

51: C12N; C12Q

71: Sensilist AS

72: SKJERDAL, Taran, MATHISEN FAGERENG, Tone, FÆGRI, Agnete, KOFITSYO SEWORNU CUDJOE, Isaac

33: NO 31: 20181688 32: 2018-12-21

54: METHOD FOR DETECTING AND ENUMERATING OF LOW CONCENTRATIONS OF LISTERIA

00: -

The present document is directed to a method for the detection and/or enumeration of *Listeria* bacteria, such as *Listeria monocytogenes* in a sample, said method comprising culturing a sample possibly containing *Listeria* bacteria in a culture medium comprising rhamnose, one or more of an antibiotic, a pH colour indicator and LiCl.

21: 2021/05085. 22: 2021/07/19. 43: 2022/07/13

51: E04D

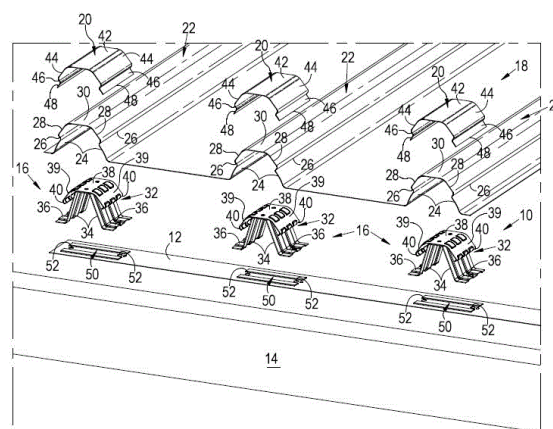
71: GLEN, Darren Sean

72: GLEN, Darren Sean

54: CLIP-ON SECURING SYSTEM AND FASTENING COMPONENT THEREFOR

00: -

According to a first aspect of the invention there is provided a fastening component for a clip-on securing system for roofing and cladding solutions, the fastening component comprising at least one full anchor bracket that can be secured to an underlying structure, the full anchor bracket comprising a substantially trapezoidal bracket body comprising a pair of spaced apart bracket legs that taper from a relatively wider lower end of the bracket body to a relatively narrower upper end of the bracket body, the lower end of each bracket leg having outwardly splayed flanges for securing the bracket to the underlying structure, the full anchor bracket further comprising an overlying, tempered spring clip extending over the upper end of the bracket body, the tempered spring clip comprising resilient spring arms that extend away from the tapering bracket legs, the resilient spring arms being arranged to clippingly receive an overlying covering sheet and to resiliently engage the overlying covering sheet.



21: 2021/05094. 22: 2021/07/20. 43: 2022/08/05

51: B60R; H01R

71: RUTHNAM, Dharshan, MUNSAMI, Desigan

72: RUTHNAM, Dharshan, MUNSAMI, Desigan

54: PROTECTION KIT

00: -

This invention relates to a protection kit 10, suitable for protecting a connector assembly 100 against damage or theft, comprising a mounting body 12, an obstructing body 14, and conduit protection means 16. The mounting body 12 is fixable with respect to a coupling 106, and includes first securing means 26. The obstructing body 14 includes second securing means 44 which is removably securable to the first securing means 26 to secure the obstructing body

14 to the mounting body 12, to operatively restrict displacement of a connector 104 of the connector assembly 100 away from the coupling 106. The conduit protection means 16 is dimensioned to operatively extend along, surround and protect an elongated article 102 of the connector assembly 100.

21: 2021/05135. 22: 2021/07/21. 43: 2022/07/13

51: B60S

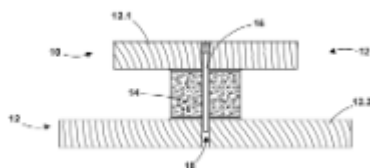
71: PIETERSE, Roy Garth

72: PIETERSE, Roy Garth

54: FIRE STARTER

00: -

The invention provides a fire starter. The fire starter includes a wood component, and a combustible material component attached within the wood component, such that the lighting of the combustible material ignites the wood component when making fire, said wood component preferably including at least two pieces of wood, with the combustible material component sandwiched between the at least two pieces of wood, the wood component also includes a single piece of wood having a cavity formed therein such the at the combustible material component is insertable within the cavity. The invention extends to a kit for making a fire.



21: 2021/05143. 22: 2021/07/21. 43: 2022/07/13

51: A61K C07K A61P

71: GRAND THERAVAC LIFE SCIENCE (NANJING) CO., LTD.

72: LI, Jianqiang, GE, Jun, REN, Sulin, HUANG, Hongying, SUN, Jiaojiao, SUN, Honglin, ZHOU, Tong, GU, Yue, CHEN, Xiaoxiao, ZHOU, Xue

33: CN 31: 201811580470.4 32: 2018-12-24

54: PHARMACEUTICAL PREPARATION FOR TREATING HEPATITIS B, PREPARATION METHOD THEREFOR AND USE THEREOF

00: -

Disclosed are a pharmaceutical preparation for treating hepatitis B, a preparation method therefor and use thereof. The pharmaceutical preparation comprises a hepatitis B surface antigen solution,

further comprises a hepatitis B core antigen solution, and also comprises an oligodeoxynucleotide solution. The pharmaceutical preparation is sugar-free, has simple composition and good antigen stability, does not have side effects caused by an aluminum adjuvant, and thus has excellent preservation effect in long-term stability experiment.

21: 2021/05144. 22: 2021/07/21. 43: 2022/07/13

51: A61K A61P

71: SOPHARMA AD

72: ALEKSIEV, Angel Aleksiev, DASKALOV, Veselin Evgeniev

33: BG 31: 112910 32: 2019-04-12

54: ORAL PHARMACEUTICAL COMPOSITION WITH A PLANT ALKALOID FOR TREATMENT OF DEPENDENCIES

00: -

This invention is related to an oral pharmaceutical composition that contains a cholinergic agent, a natural plant alkaloid in particular, selected from the group of lobeline, anabasine, cytisine, galantamine or their acceptable salts, in the form of tablets and capsules. The excipients of the developed oral composition include cellulose powder, calcium sulphate, silica colloidal and magnesium stearate, the total content of cellulose powder and calcium sulphate dihydrate being from 64,5 to 97,5 % of the mass of the dosage form and at least 90% of the alkaloid particles being < 100µm. The oral composition contains also at least one biologically active amino acid selected from: L-carnitine, tryptophan or a combination of them. The oral composition according to this invention achieves uniform distribution of the active substance in the composition, as well as stability of the composition due to the included excipients selected so as to react to a minimum with the alkaloid to form the qualitative and quantitative related substances admissible for the pharmaceutical composition. The composition according to this invention is applicable in the treatment of dependency and addiction to nicotine, tobacco products and alcohol.

21: 2021/05155. 22: 2021/07/21. 43: 2022/07/13

51: A01H

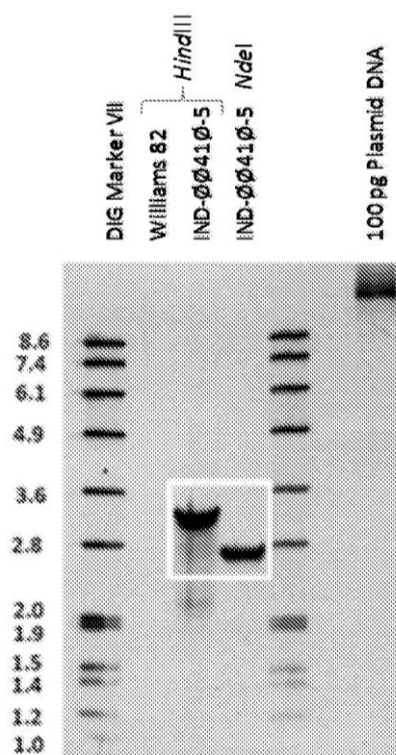
71: Bioceres LLC

72: DEZAR, Carlos, MIRANDA, Patricia, WATSON, Geronimo, CHIOZZA, Mariana, VAZQUEZ, Martin

54: SOYBEAN TRANSGENIC EVENT IND-00410-5

00: -

The invention relates to the fields of plant production, plant breeding and agriculture. More specifically, it relates to soybean transgenic event IND-00410-5, which expresses the gene.

b) Probe bar


21: 2021/05185. 22: 2021/07/22. 43: 2022/07/13

51: E01C

71: COLAS

72: LOUBIER, Martin, STOLK, Frank

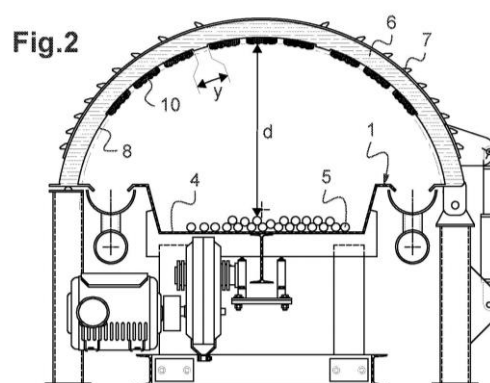
33: FR 31: 1900165 32: 2019-01-08

54: DEVICE FOR COATING AGGREGATES, METHOD AND USES

00: -

The invention relates to a coating device able to manufacture bituminous coatings comprising: at least one means for supplying at least one aggregate, such as a recycled aggregate, to a mixer and/or a drying drum, said supply means having an

upper face able to receive the aggregate, several groups of infrared emitters, disposed in line with said upper face of said at least one supply means and able to emit a wavelength that substantially corresponds to the maximum wavelength in the determined absorption spectrum of said at least one aggregate at a desired temperature, each group of infrared emitters being able to emit a specific wavelength that is different between each group, said at least one supply means being able to and/or configured to withstand the electromagnetic radiation emitted by said groups of infrared emitters. The invention also relates to the method for implementing the aforementioned device, as well as to its uses.



21: 2021/05266. 22: 2021/07/26. 43: 2022/08/05

51: G02B; H01L

71: GRANER, Peter

72: GRANER, Peter

33: IL 31: 255843 32: 2019-01-20

54: MICRO ELECTRIC POWER STATION AND MICRO GRID

00: -

A Multiple Bifacial Photovoltaic Transparent Panels Thermal Triangles Reflective Mirrors Ensemble system which is configured to be oriented towards the sun and relative to the horizon, the mirrors reflecting the sunray to the bifacial PV panels front, back and underside faces. There is a plurality of rhombus or trapeze shaped sunray path openings, mounted on a small footprint, above a two axes tracking mechanism. Further, an Micro-Electric Power Station MEPS capable of obtaining energy from a plurality of Rear / Back and side sun ray reflectors sources, located in between various bifacial photovoltaic transparent solar thermal

panels. The reflector sources may include an integrated laminated mirror film around the inside of a casing / envelope of a rhombus thin (eg glass) box or of transparent sunrays magnifying concentrator envelope balloon.

21: 2021/05293. 22: 2021/07/27. 43: 2022/07/27

51: C12N; C12Q

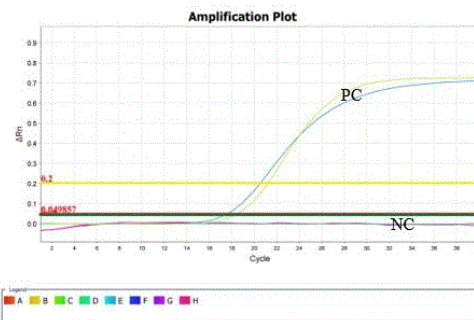
71: Dalian Nationalities University, Tianjin Normal University

72: CAO, Jijuan, ZHENG, Qiuyue, ZHENG, Wenjie, Ji, Chao

54: PRIMER SETS AND A KIT FOR ISOTHERMAL AMPLIFICATION OF A NOVEL CORONAVIRUS SARS-COV-2 ORF1AB GENE AND N GENE

00: -

The invention relates to primer sets and a kit for isothermal amplification of a novel coronavirus SARS-CoV-2 ORF1ab gene and N gene, belonging to the field of biotechnology. The present invention closely analyzes the whole genome sequence of the novel coronavirus SARS-CoV-2 published internationally, and carries out intraspecies conservation comparison, interspecies homology comparison and differential site analysis of the novel coronavirus SARS-CoV-2 ORF1ab gene and N gene, designs, screens, and determines 2 inner primers, 2 outer primers and 2 loop primers for each gene as a core technology, which enhances the specificity and sensitivity of the real-time fluorescence isothermal RT-PCR detection kit. Compared with similar technologies in China and abroad, the invention has obvious cost and benefit advantages. The developed real-time fluorescence isothermal RT-PCR detection kit for the novel coronavirus SARS-CoV-2 ORF1ab gene and N gene has the same level of performance as fluorescent quantitative RT-PCR, the detection can be completed within 30 minutes to 45 minutes and the operations are simple and fast.



21: 2021/05298. 22: 2021/07/27. 43: 2022/08/05

51: A61K

71: L'OREAL

72: DONCK, Simon, MOLAMODI, Kwezikazi, ATTWELL, Shannon, EASON, Jason

54: COMPOSITION COMPRISING CYSTEINE AND A PARTICULAR FATTY ACID TRIGLYCERIDE

00: -

The present invention relates to a composition useful for styling and/or conditioning keratin fibers, and in particular human keratin fibers such as the hair, which comprises cysteine and/or one of its derivatives and a particular fatty acid triglyceride. The invention also relates to a cosmetic process for styling and/or conditioning keratin fibres using such a composition.

21: 2021/05313. 22: 2021/07/27. 43: 2022/07/28

51: B60P; B60S; E02F

71: CATERPILLAR INC.

72: HENDRICKS, CARL F.B

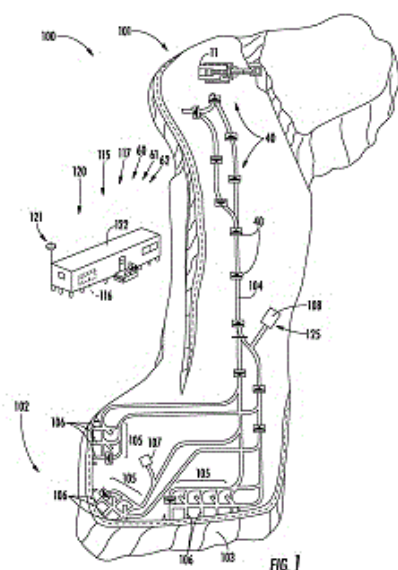
33: US 31: 16/262,106 32: 2019-01-30

54: SYSTEM AND METHOD OF AUTOMATED CLEAN OUT OF CARRYBACK IN SURFACE HAULAGE

00: -

A system for removing carryback material from within a dump body (44) of a haul truck (40) includes a clean out implement (17, 70). A controller (116) is configured to determine the pose of the dump body (44), determine the pose of the clean out implement, determine a path of the clean out implement (17, 70) to remove carryback material from the interior surface of the dump body based upon a map of the carryback material, the pose of the dump body, and the pose of the clean out implement, and generate movement command signals to move the clean out implement along the path to perform a clean out

operation on the interior surface (46) of the dump body (44).



21: 2021/05438. 22: 2021/07/30. 43: 2022/07/12

51: A61K; A61P; C07D

71: Shanghai Longwood Biopharmaceuticals Co., Ltd.

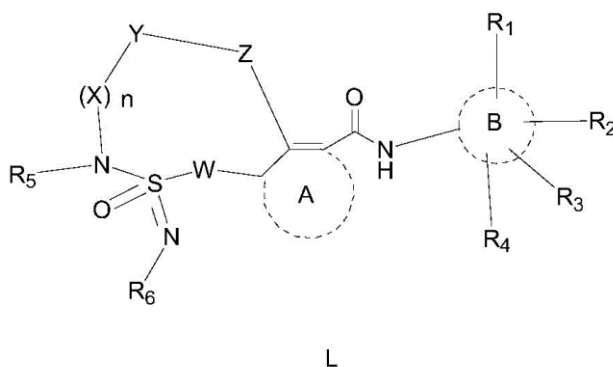
72: WANG, Zhe, ZENG, Zhihong, ZHANG, Lei

33: CN 31: 201910027573.6 32: 2019-01-11

54: INTERNAL CYCLIC SULPHIAMIDINE AMIDE-ARYL AMIDE COMPOUND AND USE THEREOF FOR TREATING HEPATITIS B

00: -

The invention relates to an internal cyclic sulphamidine amide-aryl amide compound and a use thereof for treating hepatitis B. Specifically, disclosed is a compound that may act as an HBV replication inhibitor and that has a structure represented by chemical formula (L), or a stereoisomer or tautomer thereof, or a pharmaceutically acceptable salt, a hydrate or a solvent thereof. See the description for detailed definitions of each group. The present invention also relates to a pharmaceutical composition containing the compound and a use thereof for treating hepatitis B.



21: 2021/05473. 22: 2021/08/02. 43: 2022/07/13

51: A63F

71: SUN INTERNATIONAL (IP) LIMITED

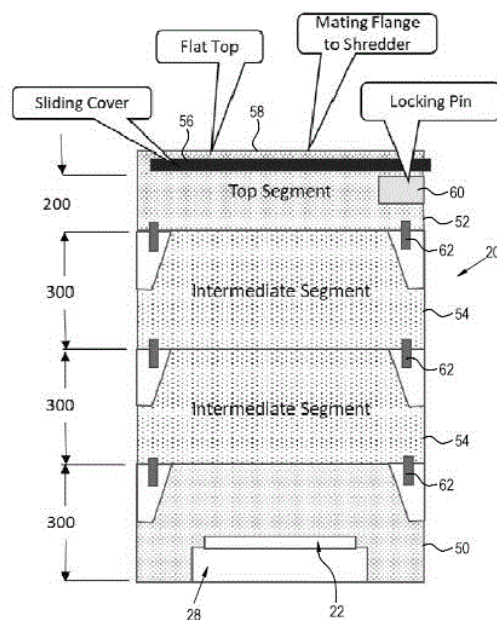
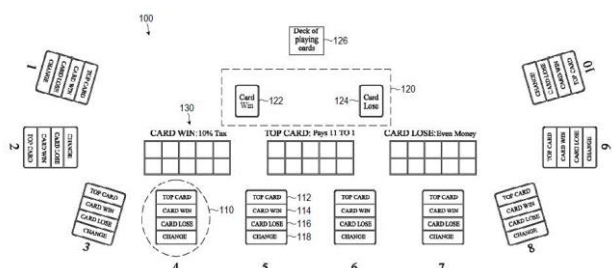
72: KENNEDY, Robin David

33: ZA 31: 2020/06391 32: 2020-10-15

54: A CARD GAME SYSTEM FOR PLAYING A CARD GAME

00: -

A card game system is for playing a card game and includes a demarcated playing surface and at least one deck of playing cards. The demarcated playing surface defines a plurality of player areas, each player area including at least a demarcated Card Win bet zone configured to receive a bet linked to a Card Win event and a demarcated Card Lose bet zone configured to receive a bet linked to a Card Lose event. The demarcated playing surface includes a dealer area which includes a Card Win zone configured to receive a playing card indicative of the Card Win event and a demarcated Card Lose zone configured to receive another card indicative of the Card Lose event. The Card Win event occurs in response to a card value or type selected by a player matching the playing card received in the Card Win zone, while the Card Lose event occurs in response to a card value or type selected by a player matching the playing card received in the Card Lose zone.



21: 2021/05474. 22: 2021/08/02. 43: 2022/07/13
 51: B62B; B65B; B65D
 71: NASACO SOUTHERN AFRICA (PTY) LTD
 72: CHIDLEY, Francis John
 33: ZA 31: 2020/04812 32: 2020-08-04
54: PAPER MANAGING SYSTEM AND RELATED WORKFLOW

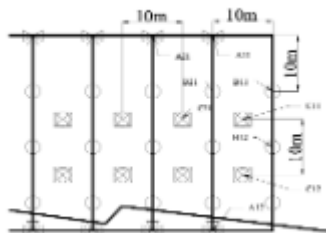
00: -

A paper console for storing paper to be shredded is provided, the bottom of the console defining a female recess to accommodate a complementary male component extending from a related or corresponding trolley. In an embodiment, the bottom of the console defines a plurality of slots in the underside of the console to accommodate the tang of the trolley. In an embodiment, the trolley tang includes the male component, which is in the centre of the tang, and the female recess, in the form of an indentation, on the underside of the console is also in the centre of the underside of the console. In an embodiment, the trolley includes a vertical lifting mechanism to lift the tang of the trolley, with the invention extending to a vertical lifting mechanism to lift the tang of the trolley.

21: 2021/05485. 22: 2021/08/02. 43: 2022/08/17
 51: A62D; B09C
 71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY, XINJIANG INSTITUTE OF ENGINEERING, HENAN ENERGY AND CHEMICAL INDUSTRY GROUP CO., LTD., YANSHAN UNIVERSITY, CHINA ENERGY GROUP, NINGXIA EMERGENCY TECHNICAL CENTER, NINGXIA COAL INDUSTRY CO LTD ZAOQUAN COAL MINE
 72: LI, Junmeng, HUANG, Yanli, GAO, Huadong, LEI, Yongchao, GUO, Yachao, OUYANG, Shenyang, WU, Laiwei, ZHANG, Weiguang, CHANG, Zhiguo, YANG, Changde, ZHAI, Wen, MA, Kun, QI, Wenye, CHEN, FANG, ZHANG, PENG
 33: CN 31: 201910103661.X 32: 2019-02-01
54: METHOD FOR CURING HEAVY METALS IN COAL GANGUE BY USING MICROORGANISMS
 00: -

A method for curing heavy metals in coal gangue by using microorganisms includes: measuring the content of heavy metal ions in to-be-filled gangue, selecting a strain according to a measurement result, and preparing the strain into a strain agent; arranging strain injection tubes in a goaf; spraying the strain agent onto the gangue through sprayers for curing treatment during filling; after completing filling, spraying the strain agent onto accumulated water areas through strain injection pipelines to achieve secondary curing. According to the method for curing heavy metals in coal gangue by using microorganisms in the invention, the heavy metals in the gangue in the goaf can be directly cured by

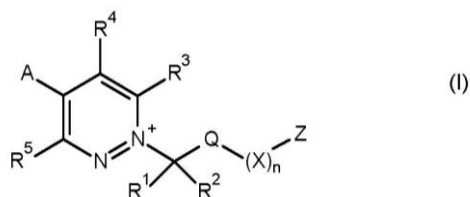
performing microbial attachment treatment before filling of the gangue; after filling is completed, a strain injection net can also be configured to supplement the strain agent when there is accumulated water in the goaf, so that secondary curing is achieved, migration pollution caused by heavy metal ions is reduced, the curing effect is good, little pollution is caused, and implementation and popularization are easy.



21: 2021/05486. 22: 2021/08/02. 43: 2022/07/13
51: A01N; A01P
71: Syngenta Crop Protection AG
72: SCUTT, James Nicholas, WILLETTTS , Nigel James
33: GB 31: 1901866.2 32: 2019-02-11

54: PRE-HARVEST DESICCATION METHOD

00: -
A method for the pre-harvest desiccation of crop plants which comprises applying to the crop plants an effective amount of a compound of formula (I) or an agronomically acceptable salt or zwitterionic species thereof, wherein the substituents are as defined in claim 1.



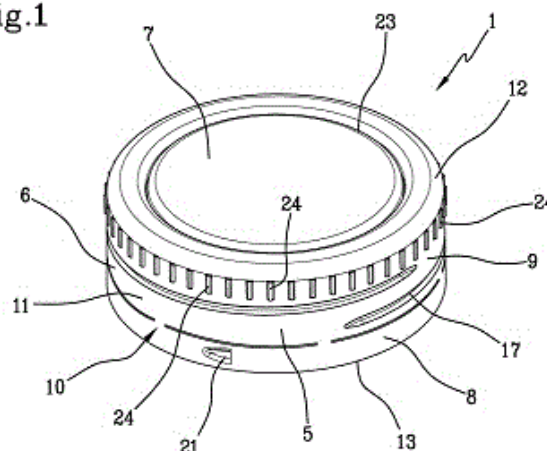
21: 2021/05555. 22: 2021/08/06. 43: 2022/07/19
51: B65D
71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA
72: MAZZOTTI, GIOVANNI, PUCCI, FABRIZIO, PARRINELLO, FIORENZO
33: IT 31: 102020000019534 32: 2020-08-06

54: CAP FOR A CONTAINER AND RELATED PRODUCTION METHOD

00: -

A cap (1; 101; 201; 301) for a container is made of a material at least part of which is derived from natural fibres. The cap comprises a cup-shaped body (2) having a skirt (6) which extends around an axis (Z) and a transversal wall (7) arranged transversally to the axis. A cavity (3) is defined inside the cup-shaped body. The cup-shaped body is delimited by an inner surface (4) facing the cavity and by an outer surface (5) facing the opposite way to the cavity. At least one projecting element (16, 18, 22; 218; 316) projects from a surface of the cup-shaped body selected from either the inner surface or the outer surface. At least one recess (17, 21, 23; 221; 317) is provided at the projecting element on another surface of the cup-shaped body (2) selected from either the outer surface (5) or the inner surface (4).

Fig.1



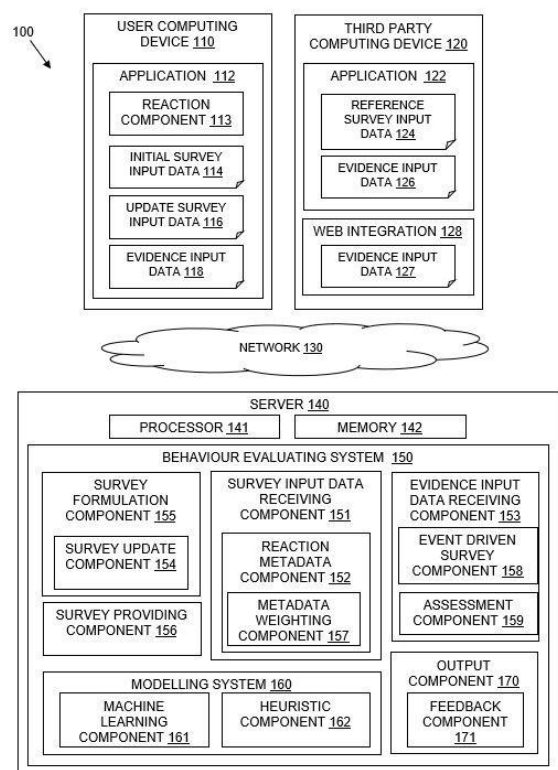
21: 2021/05662. 22: 2021/08/05. 43: 2022/08/05
51: G06N
71: ADVENCO HOLDINGS PROPRIETARY LIMITED
72: NEL, Emli-Mari, VENTER, Pieter Andries , VENTER,Elizabeth, VENTER, Jan Hendrik
33: ZA 31: 2020/04843 32: 2020-08-05

54: EVALUATING ENTITY BEHAVIOUR IN A CONTRACTUAL SITUATION

00: -

A computer-implemented method and system are provided for evaluating entity behaviour in a contractual situation, wherein the contractual situation is between contracting entities. The method includes receiving initial survey input data from a user computing device on behalf of a contracting entity in the form of response data

prompted by a series of questions. The method models the entity behaviour using a behaviour model based on the initial survey input data to obtain an output predicted behaviour of the entity. The method further includes receiving evidence input data from data sources relating to the contractual situation and gathered during a contractual time period and updating the modelling of the entity behaviour based on the evidence input data to migrate the output predicted behaviour to an output evidence-based behaviour.



21: 2021/05782. 22: 2021/08/13. 43: 2022/07/04
 51: A61K; C07D
 71: AUROBINDO PHARMA LIMITED
 72: KANNUSAMY, SARAVANAN, JAYANTHY, VENKATA VIJAYA NARASIMHA KISHAN, MOHAMMED, AMAN TAQI UDDIN, MANCHINA, SRI SANDHYA, MEENAKSHISUNDERAM, SIVAKUMARAN
 33: IN 31: 202041035039 32: 2020-08-14
54: PHARMACEUTICAL COMPOSITION COMPRISING AZILSARTAN MEDOXOMIL OR COMBINATION THEREOF
 00: -

This invention relates to solid oral pharmaceutical composition comprising azilsartan medoxomil or a

pharmaceutically acceptable salt and combination thereof. In particular said invention relates to pharmaceutical composition comprising effective amount of azilsartan Kamedoxomil and pH control agent having pH in the range of 7 to 12 and one or more pharmaceutically acceptable excipients.

21: 2021/05829. 22: 2021/08/16. 43: 2022/07/04
 51: A61K; A61P; C07K
 71: AUROBINDO PHARMA LIMITED
 72: GOGU, PRAVEEN KUMAR, DONTTHIDI, AMARENDER REDDY, VISHNUBHOTLA, NAGAPRASAD, MEENAKSHISUNDERAM, SIVAKUMARAN
 33: IN 31: 202041035040 32: 2020-08-14
54: ETELCA LCETIDE FORMULATIONS FOR PARENTERAL USE
 00: -

The present invention relates to a stable injectable formulation comprising i) Etelcalcetide or pharmaceutically acceptable salts or solvates thereof; ii) a buffering agent preferably selected from group consisting of L tartaric acid, Benzene sulfonic acid, Lactic acid or Lactate sodium, Sodium acetate, Sodium citrate, Glycine, Glycine hydrochloride, Maleic acid, Benzoic acid or Sodium benzoate, Monobasic/Dibasic sodium phosphate, Sodium tartrate, Methane sulphonic acid, Histidine and Magnesium succinate or their salts, or a combination thereof; (iii) Sodium chloride; and (iv) pH-adjusting agents. The present invention further relates to process for preparation of such stable formulation of Etelcalcetide, with reduced impurities and enhanced stability. The present invention also relates to use of such formulations comprising Etelcalcetide.

21: 2021/06013. 22: 2021/08/20. 43: 2022/08/17
 51: A22C
 71: VISCOFAN, S.A.
 72: CHRISTOPHIS, Christof, MENER, Hans-Joerg, ETAYO, Vicente, RECALDE, José Ignacio
 33: EP 31: 19171898.0 32: 2019-04-30
54: EDIBLE FILM
 00: -

The present invention provides edible food casing films, a method for producing said edible food casing films, compositions for forming said edible food casing films and the use of said edible food casing films for example as a sausage casing, which food casings are hot water and sodium salt resistant,

stable at high temperatures, can be easily shirred and are ready to be stuffed with foodstuff, especially by meat, cheese or fish products, but also with vegetarian or vegan foodstuff.

21: 2021/06015. 22: 2021/08/20. 43: 2022/09/02

51: A61K; A61P

71: UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

72: KAUR, Mandeep, SAHA, Sourav Taru

33: ZA 31: 2019/00623 32: 2019-01-30

54: 2-HYDROXYPROPYL- β -CYCLODEXTRIN (HP β CD) FOR USE IN THE TREATMENT OF BREAST CANCER

00: -

This invention relates to 2-hydroxypropyl- β -cyclodextrin (HP β CD) for use in the treatment of breast cancer. Particularly, this invention relates to HP β CD for use in the treatment of triple negative breast cancer, wherein the HP β CD is for administration to a patient in need thereof. The invention extends to methods of preparing a pharmaceutical composition comprising HP β CD, and further extends to a method of treating breast cancer, typically triple negative breast cancer, by administration of said composition to a patient in need thereof.

21: 2021/06048. 22: 2021/08/23. 43: 2022/08/05

51: B60R

71: Michael C. Mercer

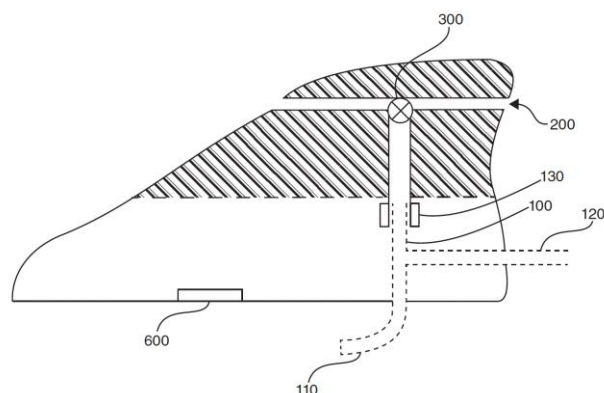
72: Michael C. Mercer

33: US 31: 17/123,600 32: 2020-12-16

54: ACTIVE VEHICLE DEFENSE SYSTEM AND METHOD OF USING THE SAME

00: -

An active vehicle defense system is presented, in which a chemical agent, repellant to humans and/or animals, is stored in the system, and directed to a housing on the exterior of a vehicle by an inlet channel. Within the housing, the inlet channel subdivides into a plurality of lateral channels, each terminating in an orifice, or spray point. A controller allows flows of the chemical agent to be turned on, off, and varied, as well as for relative differentials in flow volume and spray patterns as dispensed by the device, including allowing a 360-degree pattern of defensive spray to be established around a vehicle.



21: 2021/06057. 22: 2021/08/23. 43: 2022/09/02

51: E21B; E21C

71: JOY GLOBAL UNDERGROUND MINING LLC

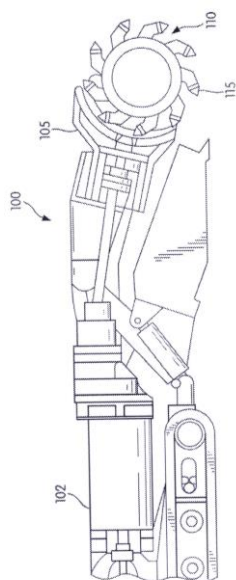
72: THEUNISSEN, Wilhelmus, Hendrickus

33: US 31: 62/801,405 32: 2019-02-05

54: SYSTEM AND METHOD FOR SPECIFYING AND CONTROLLING SUMP DEPTH

00: -

An industrial machine comprising a chassis, a cutting head supported by the chassis, and a controller. In one embodiment, the controller, having an electronic processor and memory, is configured to receive an input via an operator, indicating at least one selected from a group consisting of a desired volume of a material to be mined and a desired weight of the material to be mined, determine a sump depth of the cutting head based on the input, and control the industrial machine based on the sump depth.



21: 2021/06126. 22: 2021/08/25. 43: 2022/08/04

51: F21L; F21V; H02S

71: COCHRANE STEEL PRODUCTS (PTY) LTD

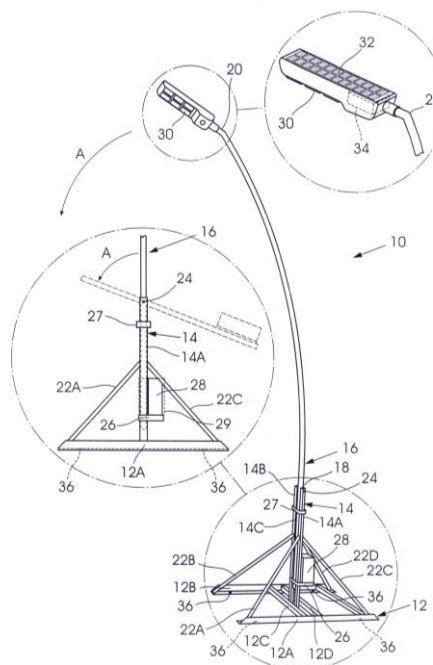
72: COCHRANE, Richard Bruce

33: ZA 31: 2020/05301 32: 2020-08-26

54: SOLAR LIGHT POST

00: -

A light post which includes a ground-engaging base, an upright which is fixed to the base, an elongate support with a lower end and an upper end, the lower end being pivotally mounted to the upright, a light source at the upper end of the support, a counterweight at a lower end of the upright, a solar panel for generating energy, an energy storage device for storing the energy generated by the solar panel and for energising the light source, and a component for releasably fixing the support to the upright, thereby to prevent pivotal movement of the support relative to the upright.



21: 2021/06133. 22: 2021/08/25. 43: 2022/07/22

51: G06Q

71: Incatorque (Pty) Ltd

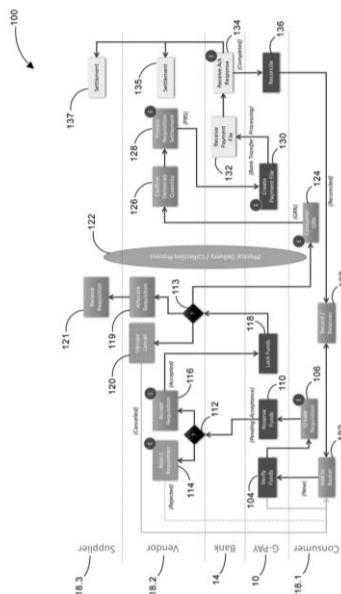
72: THERON, Nicolaas Jacobus

33: ZA 31: 2020/05267 32: 2020-08-25

54: TRANSACTING

00: -

The invention is for a guaranteed payment transaction and processing system, which includes a banking interface arranged simultaneously to interface with a plurality of third party commercial banks at which a plurality of bank accounts are hosted, a user interface arranged to interface with a plurality of user devices operable to receive transaction instructions from the user devices, a general ledger system operatively connected to the banking interface and the user interface, which general ledger system is operable to cause transactions in the plurality of commercial bank accounts in accordance with transaction instructions received from the plurality of users via the user interface. The banking interface may be in the form of Host to Host and Application Programming bank interfaces. The transactions that may be conducted may include any transaction that can be performed directly on a banking interface and may be conducted on the general ledger system periodically.



21: 2021/06134. 22: 2021/08/25. 43: 2022/07/22

51: B27C; B27G

71: TSHWANE UNIVERSITY OF TECHNOLOGY

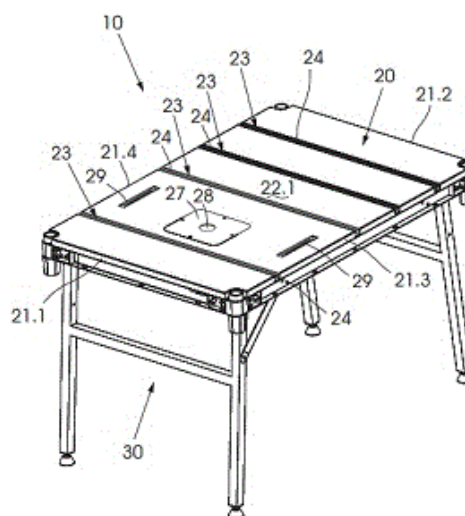
72: SNYMAN, RUDOLPH FRANCOIS

33: ZA 31: 2020/05407 32: 2020-08-31

54: A MULTI-FUNCTION ROUTING TOOL

00: -

This invention concerns a multi-function tool for use with a router. The multi-function tool is configurable between a base configuration and a number of different use configurations by connecting different fixtures to the base configuration. The base configuration includes a work platform carrying a number of tracks for receiving clamps, a base carrying the work platform, and a number of connectors. The different use configurations include a router table configuration, a router mill configuration and/or a duplicator configuration. In the router mill configuration and duplicator configuration the fixtures include a removable mounting assembly that provides engagement surfaces for engaging an accessory thereto.



21: 2021/06286. 22: 2021/08/30. 43: 2022/07/21

51: B65D

71: DELICA AG

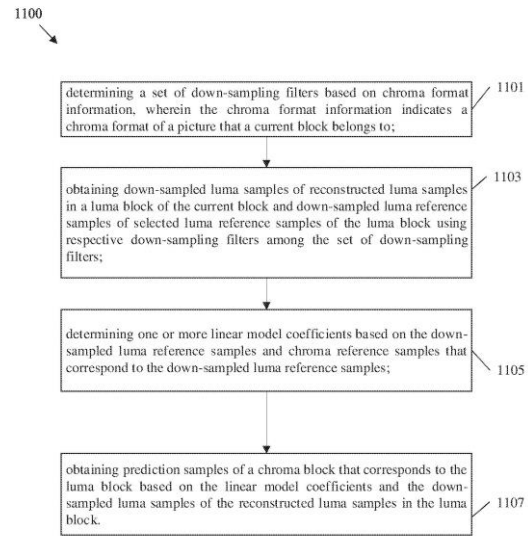
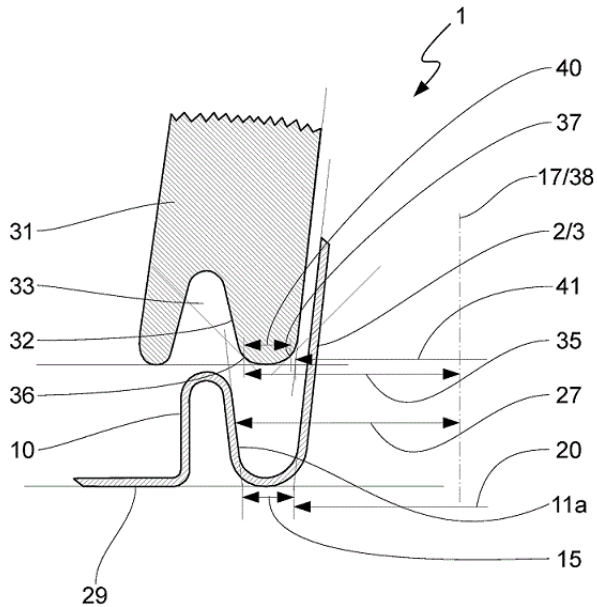
72: KURTZ, Olivia, GUGERLI, Raphael, AFFOLTER, Roland, WÜTHRICH, Martin, BRUNSCHWILER, Christoph

33: EP 31: 19160367.9 32: 2019-03-01

54: CAPSULE AND SYSTEM FOR PREPARING A LIQUID FOOD PRODUCT

00: -

The invention relates to a system comprising a capsule (1) and a capsule receptacle (31) of a preparation machine (30), a sealing lip (10) corresponding to a groove (33) of the capsule receptacle (31) such that the sealing lip (10) is accommodated in the groove (33) and, together with a contact surface (31) of the capsule receptacle (31), allows a tight connection.



21: 2021/06297. 22: 2021/08/30. 43: 2022/07/25
51: H04N

71: Huawei Technologies Co., Ltd.
72: FILIPPOV, Alexey Konstantinovich, RUFITSKIY, Vasily Alexeevich, CHEN, Jianle
33: US 31: 62/809,555 32: 2019-02-22

54: METHOD AND APPARATUS FOR INTRA PREDICTION USING LINEAR MODEL

00: -

The present invention relates to the field of picture processing. Especially, the invention deals with improving intra prediction (such as the chrome intra prediction) using cross component linear modeling (CCLM) and more particularly to spatial filtering used in cross-component linear model for intra prediction with different chrome formats. An apparatus, an encoder, a decoder and corresponding methods for cross-component prediction for a picture, in which the set of down-sampling filters applied during the prediction depends on a chroma format, that may be one of multiple supported chroma formats are provided, so as to improve coding efficiency.

21: 2021/06302. 22: 2021/08/30. 43: 2022/07/25
51: B62H

71: JFS PATENTS APS

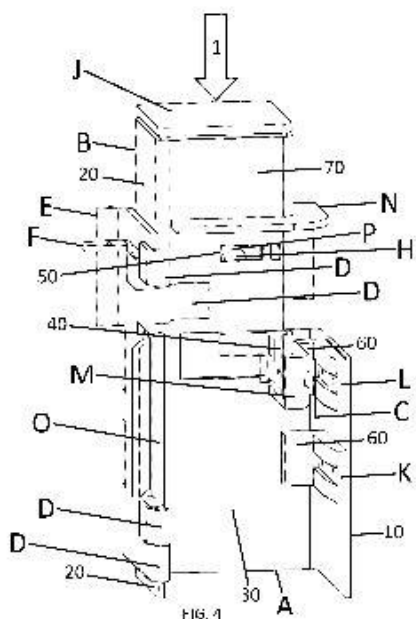
72: SØRENSEN, Jesper Farver

33: DK 31: PA 2019 00163 32: 2019-02-05

54: A BICYCLE PARKING STAND FOR LOCKING A BICYCLE TO THE STAND COMPRISING AN ELECTRONIC LOCK

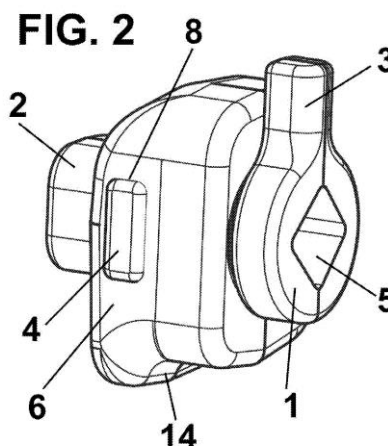
00: -

Present invention relates to a bicycle parking stand (1) for locking a bicycle to the stand (1). It comprises a bottom section (A) with a top section (B) fixed on top, a gate (E) hinged to bottom section (A) and top section (B) and an electronic unit (G) fixed inside top section (B). Electronic unit (G) comprises an electronic lock (H) with a latch (P) and a printed circuitry board (I) with an antenna placed underneath a window (J) enabling operation of stand (1) by an electronic device. Stand (1) further comprises clamping means for releasably clamping a crankarm (V) to the clamping means. Gate (E) adapted to move from an open to a closed position where striker-plate (F) fixed to gate (E) engages latch (P) of the electronic lock (H) thereby preventing gate (E) from opening and the bicycle pulled out of the clamping means.

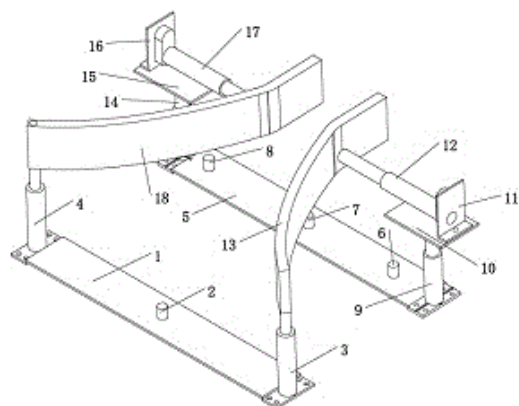


21: 2021/06303. 22: 2021/08/30. 43: 2022/07/25
51: E02F
71: METALOGENIA RESEARCH & TECHNOLOGIES, S.L.
72: CARLOS AMAT HOLGADO, JAVIER JIMENEZ GARCIA
33: ES 31: PCT/ES2019/070125 32: 2019-03-01
54: SYSTEM FOR FIXING WEAR ELEMENTS ON EARTH-MOVING MACHINES

00: -
The invention relates to a system for attaching wear elements to earthmoving machines, which included a pin (1) that can rotate between a locking position and a release position, the pin (1) defining an interior end and an exterior end and comprising locking elements (2, 3), wherein the pin (1) included a first deformable locking element (2) placed on the interior end of the pin (1) and a second locking element (3) disposed displaced towards the exterior end of the pin (1). The invention allows the provision of a system for attaching wear elements to earthmoving machines, which is easy to handle and which improves / ensures contact between teeth and the teeth-holder.



21: 2021/06334. 22: 2021/08/31. 43: 2022/07/25
51: B65G
71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: LI, YUXIA, ZHANG, KUN, HUANG, LIANGSONG, SUN, SHAOAN, LIU, ZENGKAI, SU, JINPENG, ZHANG, QIANG, LIU, XIFU, WU, SI, TIAN, YING
54: INTELLIGENT VARIABLE-SPEED CONTROL AND MATERIAL DETECTION TREATMENT DEVICE OF MINING BELT CONVEYOR
00: -
An intelligent variable-speed control and material detection treatment device of a mining belt conveyor. The device comprises supporting bottom plates, supporting stand columns and a pushing mechanism, wherein the supporting bottom plates are mounted on a conveyor underframe, the supporting stand columns are arranged at the two ends of the supporting bottom plate, and the pushing mechanism is connected to the tops of the supporting stand columns; the supporting bottom plates are located below a conveying belt on the upper layer, and a photoelectric tachometer used for monitoring the running speed of the conveying belt and laser range finders used for monitoring the distances between the conveying belt and the supporting bottom plates are fixed to the upper surfaces of the supporting bottom plates; and the pushing mechanism is located above the conveying belt and is used for pushing materials towards the central position of the conveying belt.



21: 2021/06358. 22: 2021/08/31. 43: 2022/07/25
51: B65D

71: RUSHDI FOOD INDUSTRIES LTD.

72: BASHIR, Aref

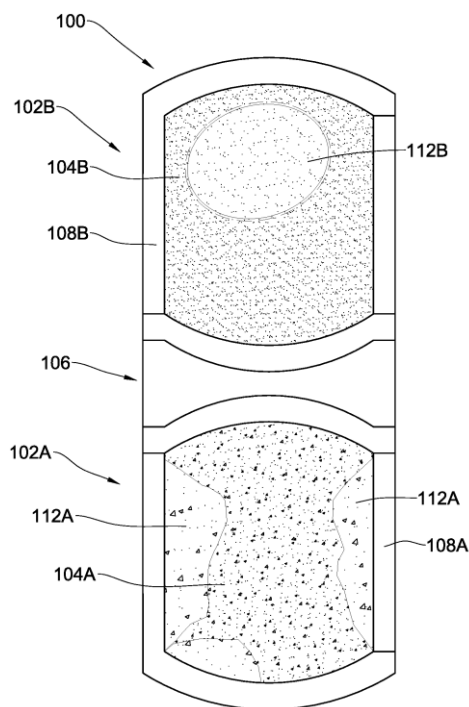
33: US 31: 62/813,788 32: 2019-03-05

33: IL 31: 264737 32: 2019-02-07

54: MULTI-COMPARTMENT PACKAGE FOR PREPARING TAHINI BASED PRODUCTS AND METHOD OF USING THE SAME

00: -

The present disclosure provides a multi-compartment tahini package comprising a film defining opposed side walls of an enclosure sealed together along its perimeter and at least one rupturable seal dividing the enclosure into at least two sealed compartments, the at least two sealed compartments comprising, respectively, at least two fluids to be mixed, wherein a first compartment comprises a first volume housing an aqueous liquid and a second compartment comprises a second volume housing raw tahini having a homogenous particles size with particles size of less than 40pm and optionally a viscosity of at least 1,000cps. Also disclosed herein is a method of producing a ready for use, tahini based liquid product, the method comprising providing the multi-compartment food package, rupturing the at least one rupturable seal of said enclosure, and mixing content of the at least two compartments to form an edible, ready for use, tahini sauce.



21: 2021/06374. 22: 2021/09/01. 43: 2022/07/25
51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: EKLÖF, Cecilia, DA SILVA, Icaro L. J., RAMACHANDRA, Pradeepa

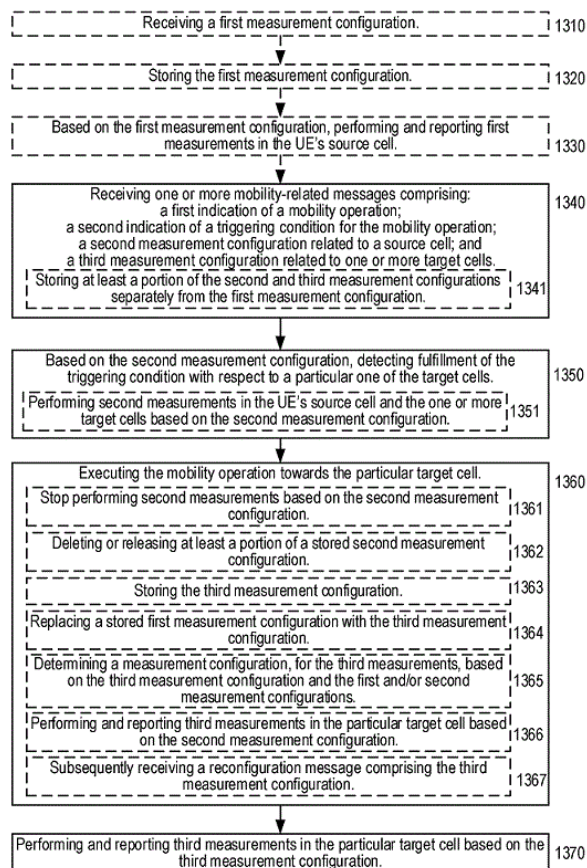
33: US 31: 62/801,246 32: 2019-02-05

54: HANDLING OF MEASUREMENT CONFIGURATION UPON CONDITIONAL MOBILITY EXECUTION

00: -

Embodiments include methods for conditional mobility in a radio access network (RAN), performed by a user equipment (UE). Such methods include receiving, from one or more RAN nodes (e.g., source RAN node and/or target RAN node), one or more mobility-related messages that include: a first indication of a mobility operation; a second indication of a triggering condition for the mobility operation; a second measurement configuration related to the triggering condition; and a third measurement configuration related to one or more target cells. Such methods also include, based on the second measurement configuration, detecting fulfillment of the triggering condition with respect to a particular one of the target cells and executing the mobility operation towards the particular target cell, and subsequently performing and reporting third

measurements in the particular target cell based on the third measurement configuration. Embodiments also include complementary methods performed by source RAN nodes and target RAN nodes.



21: 2021/06456. 22: 2021/09/03. 43: 2022/06/08
51: A61F

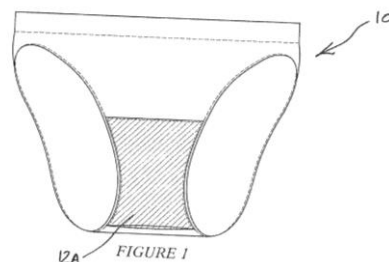
71: BODHI APPAREL (PTY) LTD

72: FRANK, JOANNE

54: PROTECTIVE INSERT

00: -

The invention provides a multi-layered protective insert for a garment which includes: an operatively inner layer of a first material; a first intermediate layer of a moisture impermeable material; a second intermediate layer of a moisture wicking material; and an operatively outer layer; wherein the first intermediate layer includes an aperture through which a bodily fluid discharge from a wearer of the garment penetrates from the operatively inner layer to the second intermediate layer to be wicked away by this layer.



21: 2021/06475. 22: 2021/09/03. 43: 2022/07/22

51: B32B; D04H; E02D

71: NAUE GMBH & CO. KG

72: Henning EHRENBURG, Dr. Lars VOLLMERT, Dr. Helge HOYME, Norbert VISSING, Dr. Martin TAZL

33: EP 31: 19163235.5 32: 2019-03-15

54: GEOMATERIAL WEB WITH BIOLOGICAL DEGRADATION PROPERTIES

00: -

The invention relates to a geomaterial web, comprising a first organic structured material and a second, structured material, differing from the first, which is joined to the first structured material to form a planar, composite material web extending in two directions normal to one another. The invention is characterized in that the first structured material and the second structured material are organic materials, the first structured material having a first degree of biodegradability and the second structured material having a second biological degradability which differs from the first biological degradability, more particularly is less than the first biological degradability.

21: 2021/06539. 22: 2021/09/07. 43: 2022/09/05

51: C22B

71: GREYLING, Frederik Petrus

72: GREYLING, Frederik Petrus

33: NL 31: 2026572 32: 2020-09-29

54: PROCESS AND SYSTEM FOR MELTING AGGLOMERATES

00: -

The invention pertains to a process and system for melting agglomerates in a melting furnace by utilising a carbon monoxide (CO) off-gas of a reduction furnace as a fuel gas. The process includes the steps of (i) feeding agglomerates which includes a metalliferous feedstock material to a melting furnace (20) to form a packed bed of agglomerates in the melting furnace (20); (ii) feeding

a carbon monoxide (CO) off-gas of a reduction furnace (30) as a fuel gas to a burner (22) of the melting furnace (20); and (iii) combusting the carbon monoxide (CO) off-gas of the reduction furnace (30) in the melting furnace (20) by means of the burner (22) of the melting furnace (20), to heat the agglomerates to a temperature exceeding 1000°C and to thereby melt the agglomerates in the melting furnace (22).

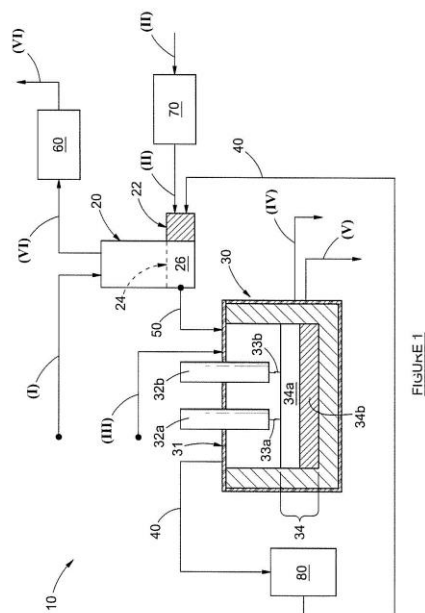
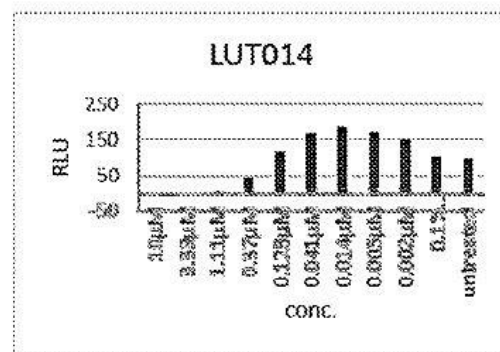


FIGURE 1



21: 2021/06944. 22: 2021/09/17. 43: 2022/07/25
51: H04N

71: Huawei Technologies Co., Ltd.

72: ESENLIK, Semih, SETHURAMAN, Sriram, A,
Jeeva Raj, KOTTECHA, Sagar

33: IN 31: 201931007114 32: 2019-02-22

54: **EARLY TERMINATION FOR OPTICAL FLOW REFINEMENT**

00: -

It is provided a method of video coding implemented in a decoding device or an encoding device, the method comprising: obtaining initial motion vectors for a current block; obtaining first predictions for a sample value in the current block based on the initial motion vectors; calculating a first matching cost according to the first predictions; determining whether an optical flow refinement process should be performed or not, according to at least one preset condition, the at least one preset condition comprising a condition of whether the calculated first matching cost is equal to or larger than a threshold; and performing an optical flow refinement process for obtaining a final inter prediction for the sample value in the current block, when it is determined that the optical flow refinement process should be performed.

21: 2021/06581. 22: 2021/09/07. 43: 2022/07/25
51: A61K

71: LUTRIS PHARMA LTD.

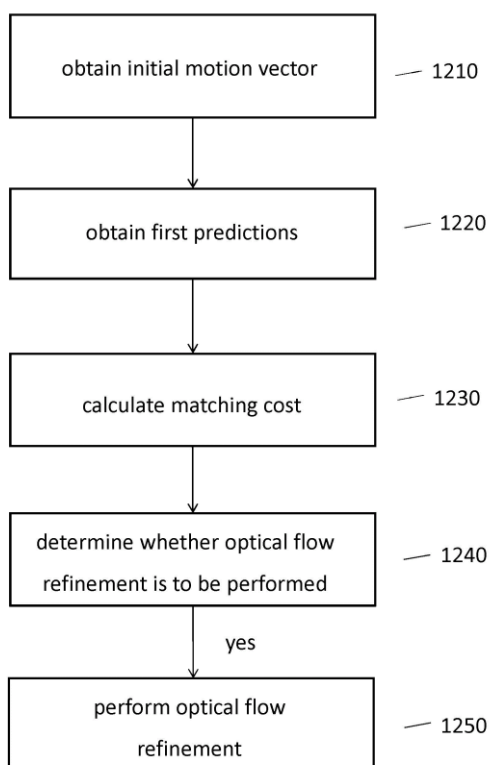
72: SHELACH, Noa, LOWENTON-SPIER, Noa

33: US 31: 62/804,235 32: 2019-02-12

54: **USE OF TOPICAL BRAF INHIBITOR COMPOSITIONS FOR TREATMENT OF RADIATION DERMATITIS**

00: -

The present invention discloses methods of treatment, prevention and/or amelioration of radiation dermatitis caused by radiotherapy, by administration to a subject in need thereof of a topical composition comprising a therapeutically or prophylactically effective amount of at least one BRAF inhibitor of this invention, thus treating, preventing and/or ameliorating the effects of radiation dermatitis.



21: 2021/07334. 22: 2021/09/29. 43: 2022/06/24

51: G01N

71: XGLU LABS a.s

72: NOVAK, Marek

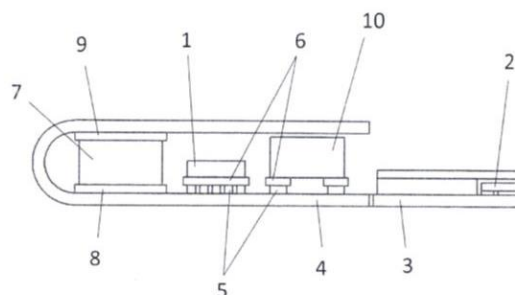
33: CZ 31: PV 2019-228 32: 2019-04-11

54: DEVICE FOR RANDOM BLOOD SUGAR TESTING AND THE METHOD OF ITS USE

00: -

Device for random blood sugar testing and the method of its use The device is composed of at least one disposable biosensor (2) for applying a blood sample, as well as evaluation electronics (1) for retrieving and processing information from the disposable biosensor (2) with the applied blood sample, as well as a display (7) for displaying information from the evaluation electronics (1). Disposable biosensors (2) and a display (7) are arranged in a common vapour non-permeable closable space, wherein the display (7) is hygroscopic to bind air moisture which would otherwise be bound by disposable biosensors (2). The display (7), evaluation electronics (1) and disposable biosensors (2) can be arranged on a common support substrate (4), wherein the support substrate (4) is provided with a removable and/or openable vapour non-permeable container.

Disposable biosensors (2) can be detachable from the support substrate (4).



21: 2021/07423. 22: 2021/10/01. 43: 2022/07/11

51: B65H

71: Reynolds Consumer Products LLC

72: TONEY, Kenneth A.

33: US 31: 62/829,488 32: 2019-04-04

54: ASSEMBLY SYSTEM AND METHOD FOR PACKAGING WEB MATERIAL IN A ROLL

00: -

Rolling assembly for packaging web material in a roll having a base member with concave arcuate feed surface defining an upwardly-extending ramp, first intermediate member movably coupled to base member, and top member moveably coupled to at least one of base member or first intermediate member, top member having a concave arcuate pressure surface facing feed surface of base member. The base member, first intermediate member and top member collectively forming an iris with a feed space, the iris moveable between a first condition and a second condition, and configured to receive web material along the feed surface and direct the web material upwardly toward the top member to form a roll within the feed space, the iris moving toward a second condition as the roll of web material increases in cross dimension against the pressure surface of the top member.

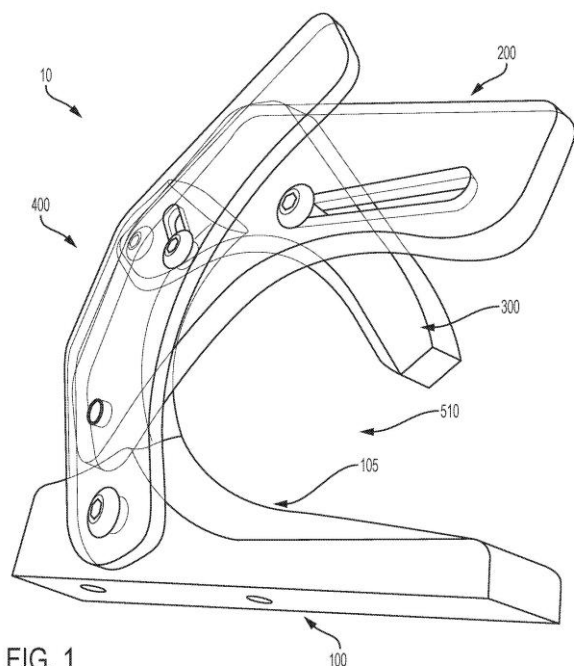


FIG. 1

21: 2021/07458. 22: 2021/10/04. 43: 2022/07/12
51: H04W

71: NTT DOCOMO, INC.

72: TAKAHASHI, Hideaki, HANAKI, Akihito

54: USER DEVICE AND BASE STATION DEVICE

00: -

A user device comprising: a reception unit for receiving information that designates the bandwidth part (BWP) of a cell from a base station device; a control unit for setting, on the basis of the parameter included in the information that is specific to the user device, the BWP that is enabled when the cell is a special cell (SpCell) and setting by radio resource control (RRC) is executed, or when the cell is a secondary cell (SCell) and a media access control (MAC) layer is enabled; and a communication unit for communicating with the base station device using the BWP that is enabled. The parameter is set to information that designates the BWP irrespective of the number of BWPs set to the cell.

Conditional Presence	Explanation
SyncAndCellAdd	This field is mandatory present for a SpCell upon reconfigurationWithSync (PCell handover, PSCell addition/change) and upon RRCSetup/RRCResume, irrespective of the number of BWPs configured for the serving cell. The field is mandatory present for an SCell upon addition, irrespective of the number of BWPs configured for the serving cell. For SpCell, the field is optionally present, Need N, upon reconfiguration without reconfigurationWithSync. In all other cases the field is absent.

21: 2021/07482. 22: 2021/10/05. 43: 2022/07/11
51: A01N; A01P

71: Syngenta Crop Protection AG

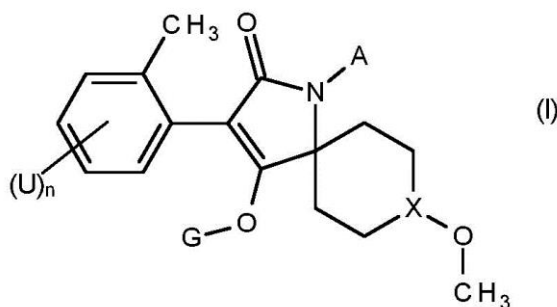
72: POPP, Christian, BUCHHOLZ, Anke, REINER, Werner, HATT (deceased), Fabienne, SCHNEIDER, Daniel

33: EP(CH) 31: 19168504.9 32: 2019-04-10

54: PESTICIDAL COMPOSITIONS

00: -

A pesticidal composition comprising: (i) A compound of Formula (I) as active ingredient, wherein: A is hydrogen or methyl; U is independently chloro or methyl; n is 1 or 2; G is hydrogen or $-C(=O)OCH_2CH_3$; and X is N or C(H); or an agrochemically acceptable salt thereof; and (ii) an adjuvant combination comprising: (a) an oxirane/methyl oxirane block co-polymer (polyoxyethylene/polyoxypropylene block copolymer); and (b) an alcohol alkoxylate; wherein the weight ratio of component (a) to component (b) is 1:3 to 3:1; and the weight ratio of component (i) to (ii) is 1:1 to 1:4.



21: 2021/07489. 22: 2021/10/05. 43: 2022/07/12
51: F41B

71: FeraDyne Outdoors, LLC

72: HAAS, Matthew Peter, BECK, Mark W., BLOSSER, Benjamin D.

33: US 31: 62/830,208 32: 2019-04-05

54: ENERGY STORAGE SYSTEM FOR A BOW

00: -

An energy storage system for a bow, the system defined at least in part by a riser, a first and second limb each having a first end coupled to the riser, a first and second wheel disposed at a second end of respective first and second limbs, a first and second power cord each having a first end coupled to the riser and a second end coupled to respective first and second wheels, and a string extending between and coupled to the first and second wheels.

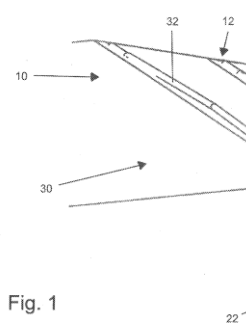
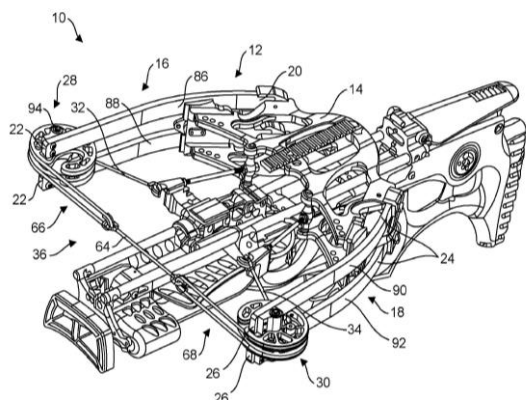


Fig. 1

21: 2021/07500. 22: 2021/10/05. 43: 2022/07/12

51: B60J; B62D

71: European Trailer Systems GmbH

72: Markus LEUKERS, Mathias LUDWIG

33: DE 31: 202019101728.7 32: 2019-03-26

33: DE 31: 202019101781.3 32: 2019-03-28

54: TARPAULIN SUPERSTRUCTURE

00: -

The invention relates to a tarpaulin superstructure for a movable substructure (20), such as a truck, a trailer, a semitrailer, a railway wagon, a dump truck or a container, comprising a top frame (30) to which a tarpaulin (50) made of weather-resistant material can be attached, wherein the top frame (30) comprises a plurality of struts (32) which can be moved along at least one guide (22), wherein the end of the top frame (30) comprises an end runner (40) which can be raised to open the superstructure and lowered to close the superstructure. A tarpaulin superstructure where the end runner is not lifted by the airstream is provided according to the invention in that an air deflection part (60) is arranged at an end (46) of the end runner (40), by means of which air deflection part the airstream is converted into a force in the closing direction of the end runner (40).

Fig. 1

21: 2021/07527. 22: 2021/10/06. 43: 2022/06/29

51: H04N

71: Huawei Technologies Co., Ltd.

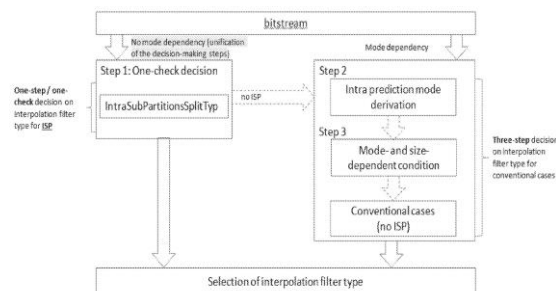
72: FILIPPOV, Alexey Konstantinovich, RUFITSKIY, Vasily Alexeevich, CHEN, Jianle

33: US 31: 62/825,793 32: 2019-03-28

54: METHOD AND APPARATUS FOR INTRA SMOOTHING

00: -

Devices and methods of intra prediction of a block of a picture are provided. The method includes: obtaining information of Intra Sub-Partitions (ISP), where the information of ISP indicates whether ISP is used for splitting a current block; and selecting a set of coefficients of an interpolation filter based on the information of ISP, where the set of coefficients of the interpolation filter is fG coefficients or fC coefficients. The method further includes obtaining predicted samples of the current block by applying the set of coefficients to reference samples. When the information of ISP indicates whether ISP is used for splitting a current block (i.e., ISP is on), the method removes mode dependency during selection of interpolation filter type. This could increase encoding or decoding efficiency.



21: 2021/07593. 22: 2021/10/08. 43: 2022/06/29

51: C08L

71: CHATURVEDI, Ashok

72: CHATURVEDI, Ashok

33: IN 31: 201911009252 32: 2019-03-09

54: CONVERTING NON-BIODEGRADABLE POLYMERIC GRANULES AND COMPONENTS TO BIODEGRADABLE BY SURFACE COATING

00: -

The present invention describes a process to convert non-biodegradable polymeric raw materials or pellets / granules into biodegradable raw materials / pellets / granules by applying enzyme-based coating, in water or suitable solvent or combination thereof, on their surfaces, before construction of the components from them.

21: 2021/07639. 22: 2021/10/11. 43: 2022/06/29

51: B25B; E21B

71: MAMMOTH PLANT AND EQUIPMENT PROPRIETARY LIMITED

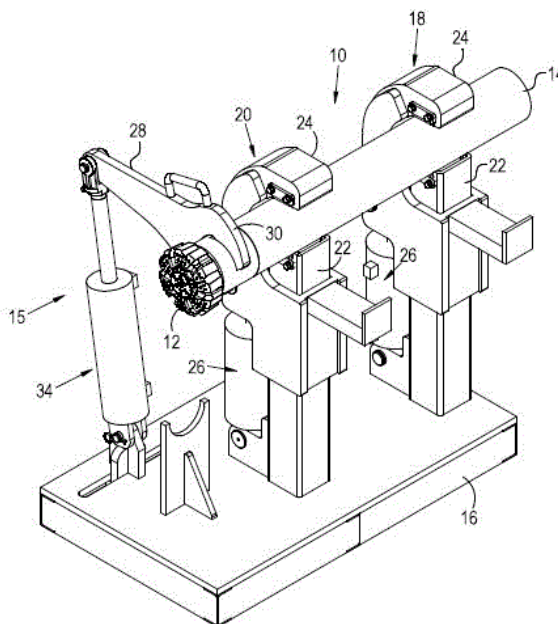
72: GOUWS, Juan

33: ZA 31: 2021/00155 32: 2021-01-11

54: BREAKOUT WRENCH APPARATUS

00: -

A breakout wrench apparatus 10 configured for loosening a drill bit screwed onto a drilling segment 14 used in rock drilling operations. The breakout wrench apparatus 10 comprises a support base 16, first and second clamping mechanisms 18, 20 mounted to the support base for applying clamping forces to the drilling segment 14 at spaced locations along the drilling segment; and a breakout wrench 15 mounted to the support base for applying a loosening force to the drill bit 12 for loosening the drill bit while the drilling segment is clamped. The clamping mechanisms 18, 20 include opposed clamping jaws 22, 24 operated by hydraulically-operable piston/cylinder mechanisms 26. The breakout wrench apparatus includes a hydraulic control system for regulating the operating pressure of hydraulic fluid in the piston/cylinder mechanisms 26 so as to control the magnitude of the clamping forces applied by the jaws 24 to the drilling segment.



21: 2021/07663. 22: 2021/10/11. 43: 2022/07/22

51: H02J; H02S

71: HWANG, Yuan Cherng, TSEN, Ping-Kun

72: HWANG, Yuan Cherng, TSEN, Ping-Kun

54: AIR-COMPRESSION ENERGY-STORAGE AND POWER-SUPPLY SYSTEM HAVING AIR PURIFICATION CAPABILITY THROUGH USING SOLAR ENERGY

00: -

An air-compression energy-storage and power-supply system having air purification capability through using solar energy, mainly comprising: a solar power supply device (1), configured to supply, by means of solar power generation, electricity required by the system itself and electricity used by users in the day; an air purification device (2), connected to solar power generation by means of a suction fan (25) for operation, enabling outside air to enter an air barrel (21) after being purified by an air filter (24) and then discharging same from the air barrel (21) to complete air purification; and a compressed-air energy storage power supply device (3), configured to first purify air and then compress same into high-pressure air for storage, so that the energy storage of high-pressure air can enable a power generator (35) to generate power at night for users to use electricity at night; in addition, a wind power transmission device (4) can be further provided above the air purification device (2). The present invention is effectively formed as a whole, achieving air purification, energy saving, and

pollution reduction, purifying air completely by means of natural energy and providing the users with electricity throughout the day.

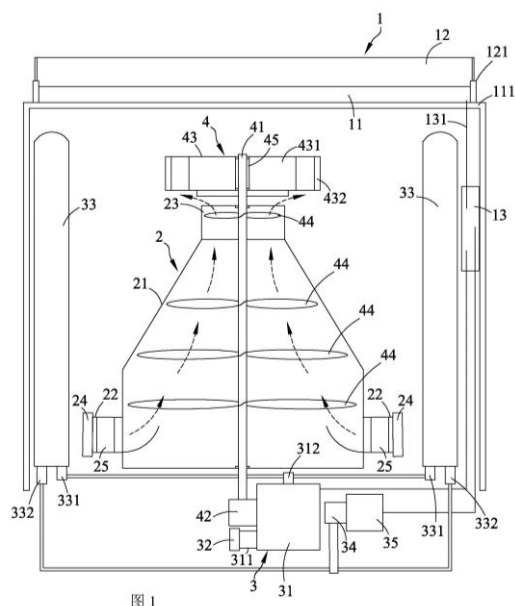


图 1

21: 2021/07670. 22: 2021/10/11. 43: 2022/08/05
51: E21B

71: GIEN, Bernard Lionel

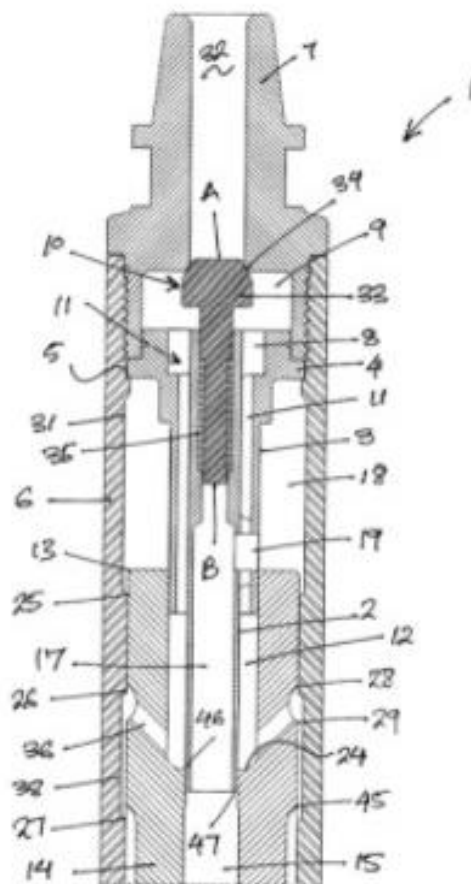
72: GIEN, Bernard Lionel

33: ZA 31: 2019/01724 32: 2019-03-20

54: A DRILL HAMMER

00: -

A drill hammer (1) includes an air distribution chamber (12) in a rear end of a piston (14) and a bore that extends to a front end. A chamber divider (3) extends from a back-head to slidably engage inside the distribution chamber (12) and a control tube (2) slidably engages inside the bore. An air supply passage (11) is provided between the control tube (2) and the chamber divider (3). An exhaust port (19) from the drive chamber (18) extends through the chamber divider (3) to an inside of the control tube (2). A distribution port to alternately supply a drive chamber (18) and return chamber (23) extends through the piston (14) from the distribution chamber (12).



21: 2021/07765. 22: 2021/10/13. 43: 2022/07/11
51: C01B; C08K; C10B

71: Microwave Solutions GmbH

72: STAPELA, Annelie, ROSSOUW, Mathys Johannes

33: CH 31: CH00342/19 32: 2019-03-19

54: PYROLYSIS METHOD AND REACTOR FOR RECOVERING SILICA FROM POLYMER WASTE MATERIAL

00: -

The invention relates to a pyrolysis method and a pyrolysis reactor for recovering silica from a polymer waste material containing silica, particularly a rubber or plastics waste material containing silica, using thermal decomposition for separating silica from at least one non-silica component of the polymer waste material. The waste material is delivered to a pyrolytic chamber (1), and heated to a decomposition temperature of at least one non-silica component of the waste material by microwave radiation. The decomposition temperature is selected such that the at least one non-silica

component comprises a higher microwave absorptivity than silica.

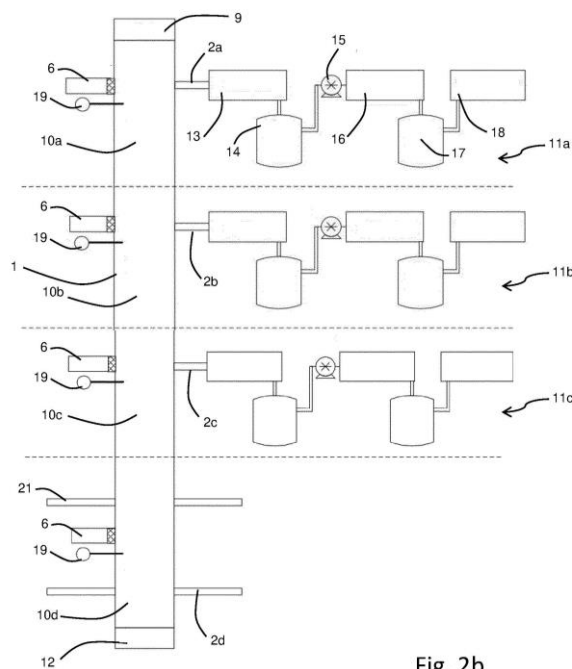


Fig. 2b

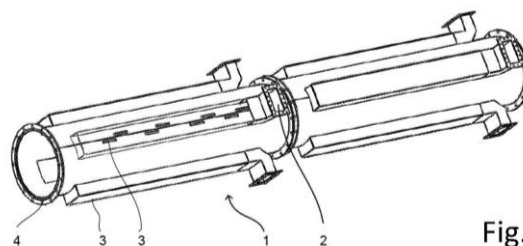


Fig. 1

21: 2021/07871. 22: 2021/10/15. 43: 2022/07/25
51: A61K
71: SILVER STALLION GMBH
72: COOPER EAMES HELLEGER, Gordon
33: IN 31: 201921015397 32: 2019-04-17
**54: EXTRACTION OF CANNABINIDS,
FLAVONOIDS AND TERPENES FROM CANNABIS**
00: -

The present invention relates to a process for preparing an extract from cannabis comprising an extraction step of treating the cannabis with carbon dioxide at a temperature of between 0 °C to 15 °C and a pressure between 1250 psi and 1600 psi to obtain an extract; and centrifuging the extract between 20°C to 40°C.

21: 2021/07766. 22: 2021/10/13. 43: 2022/07/11
51: C10B
71: Microwave Solutions GmbH
72: STAPELA, Annelie, ROSSOUW, Mathys Johannes
33: CH 31: 00342/19 32: 2019-03-19
**54: PYROLYSIS OF POLYMER WASTE
MATERIALS**
00: -

The invention relates to a pyrolysis method and a pyrolysis reactor for thermal decomposition of polymer waste materials, particularly rubber and plastics waste materials, using a fast pyrolysis process, wherein the waste material is delivered to a pyrolytic chamber (1), and is heated to a decomposition temperature of the waste material by microwave radiation.

21: 2021/08028. 22: 2021/10/20. 43: 2022/07/14
51: C22B
71: HERAEUS DEUTSCHLAND GMBH & CO. KG
72: DITTRICH, Regina, BAUER-SIEBENLIST, Bernhard, WINKLER, Holger
33: EP 31: EP19165155.3 32: 2019-03-26
**54: METHOD FOR PRODUCING A PGM
COLLECTOR ALLOY**
00: -

The invention relates to a method for producing a PGM collector alloy, comprising the steps: (1) providing (a) copper and/or silver, (b) material to be processed by melting metallurgy, in the form of at least one sodium and/or potassium aluminum silicate carrier, equipped with at least one PGM, and (c) at least one compound selected from the group consisting of iron oxides, calcium oxide, magnesium oxide, calcium carbonate, magnesium carbonate, sodium carbonate and potassium carbonate, (2) collective melting of the materials provided in step (1) at a temperature in the range of from 1250 to <1450°C, ensuring a 100:40 to 100:20 weight ratio of the materials provided in the sub-steps (1b) and (1c) and a 35:65 to 80:20 weight ratio of copper and/or silver : PGM, forming a melt comprising two phases

of different densities, (3) separating the top phase of low density, consisting of melted slag, from the bottom phase of high density, consisting of melted PGM collector alloy, by utilizing the difference in density, (4) allowing the melt phases, which have been separated from each other, to cool and solidify, and (5) collecting the solidified PGM collector alloy.

21: 2021/08030. 22: 2021/10/20. 43: 2022/07/14

51: B60L H01R

71: EASEE AS

72: NÆSJE, Kjetil, HELMIKSTØL, Jonas,

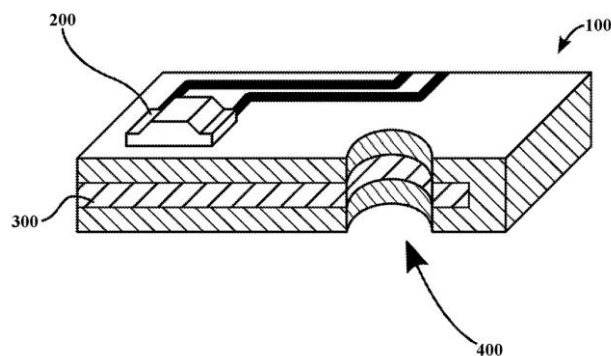
MØLGAARD, Steffen, STENGEL, Ola

33: NO 31: 20190387 32: 2019-03-22

54: CIRCUIT BOARD FOR AN ELECTRIC VEHICLE CHARGING STATION

00: -

Disclosed is a circuit board (100) for an electric vehicle charging station (1), comprising a temperature sensor (200) and a conductive track (300) having a terminal (300T) for transferring electrical power between the conductive track (300) and the exterior of the charging station (1). The temperature sensor (200) and the conductive track (300) are separated by at least one insulation layer (120, 121, 122) so that the temperature of the conductive track (300) is measurable by the temperature sensor (200) through the at least one insulation layer (120, 121, 122).



21: 2021/08042. 22: 2021/10/20. 43: 2022/07/14

51: A23C

71: LABAŠ, Miroslav

72: LABAŠ, Miroslav

33: SK 31: PP 50-2019 32: 2019-05-15

54: A METHOD FOR PRODUCING MILK AND DAIRY SUPPLEMENTS WITH A UNIQUE FATTY ACID COMPOSITION, BY RESTORING THE COMMENSAL NATURAL MICROBIOTA

00: -

A Method for Producing Milk and Dairy Supplements with a Unique Fatty Acid Composition, by Restoring the Commensal Natural Microbiota allows to obtain unique composition of fatty acids by its identification and separation from cow's, sheep's or goat's milk of specific geographic region and it also allows to obtain the natural, commensal microbiota, which would cease to exist due to pasteurization in the normal process of milk production and treatment, wherein the natural microflora is added to the drinking milk or stored in an instant form for addition to the milk or for the preparation of a dairy beverage containing the natural microflora typical for the region of milk's origin, while for region of Eastern and Central Slovakia there are identified and separated these beneficial microbes *Enterococcus faecalis* SP, *Enterococcus faecalis* Ccj, *Enterococcus hirae* Kik, *Lactobacillus plantarum* SP1 *Lactobacillus plantarum* AN, *Lactobacillus paracasei* TD, *Lactobacillus cateniformis* SB and *Kluyveromyces marxianus* SB and most suitable ratio of fatty acids is ω -3 α -Linolenic acid (C18:3n3) 0,81%, ω -6 linoleic acid (C18:2n6c) 2,15%, arachidic acid (20:0) 0,22% and behenic acid (22:0) 0,11 %.

21: 2021/08043. 22: 2021/10/20. 43: 2022/07/14

51: B65D

71: Focke & Co. (GmbH & Co. KG)

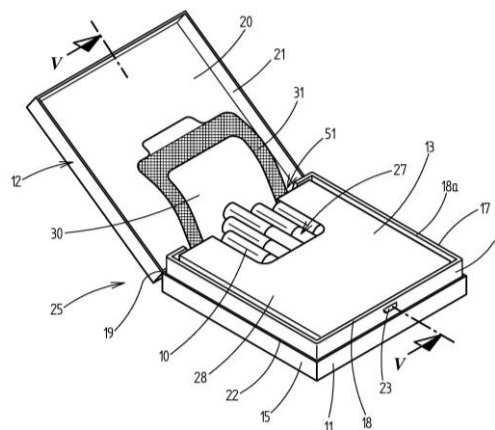
72: BUSE, Henry, SCHNEIDER, Christoph, HEIN, Viktor

33: DE 31: 10 2019 002 635.7 32: 2019-04-10

54: LIDDED BOX-TYPE PACKAGING

00: -

The invention relates to a lidded box-type packaging comprising a box part (11) together with an attached frame (16) and a hinged lid (12) for a group of elongated tobacco products; an inner packaging (13) for the packaging contents, said inner packaging being made of a dimensionally stable material and having narrow lateral walls made of overlapping inner and outer lateral flaps of a blank (26) for the inner packaging (13); a front wall which connects the narrow lateral walls; a rear wall which connects the narrow lateral walls; a removal opening (27) for the tobacco products; and a closure label (30) which covers the removal opening (27) in a closed position and which can be actuated multiple times.



21: 2021/08052. 22: 2021/10/20. 43: 2022/07/14

51: A61K

71: Bracco Suisse SA

72: BUSSAT, Philippe, LASSUS, Anne, BROCHOT, Jean, SCHNEIDER, Michel, YAN, Feng
33: US 31: 16/413,526 32: 2019-05-15

54: FREEZE-DRIED PRODUCT AND GAS-FILLED MICROVESICLES SUSPENSION

00: -

A method of manufacturing a suspension of gas-filled microvesicles by reconstituting a freeze-dried product and a suspension obtained according to said method, where the freeze-dried product has been subjected to a thermal treatment.

21: 2021/08081. 22: 2021/10/21. 43: 2022/07/14

51: A62B

71: CSIR

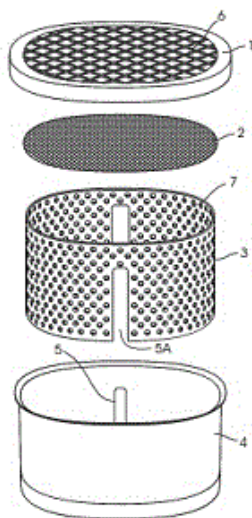
72: BERGH, ADRIAAN VINTCENT, SEHLABANA, MATOME MICHAEL, SCHREIBER, WILFRIED LOTHAR

33: ZA 31: 2020/06525 32: 2020-10-21

54: CHEMICAL BASED SELF-CONTAINED SELF-RESCUER

00: -

The invention relates to a self-contained self-rescuer (SCSR) comprising a canister including a partition dividing an interior space of the canister into first and second compartments, the first compartment containing an oxygen (O₂) producing material and the second compartment containing a carbon dioxide (CO₂) absorbing material. The oxygen producing material is potassium superoxide (KO₂) and the carbon dioxide (CO₂) absorbing material is lithium hydroxide (LiOH), lithium peroxide (Li₂O₂) or a mixture thereof.



21: 2021/08082. 22: 2021/10/21. 43: 2022/07/14

51: B66F

71: MANITOU ITALIA S.R.L.

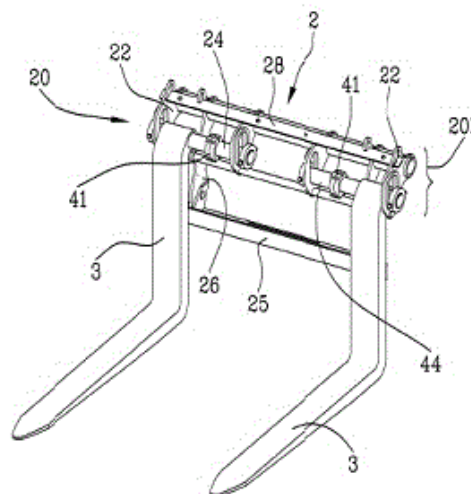
72: IOTTI, MARCO

33: IT 31: 102020000025180 32: 2020-10-23

54: A FORK-CARRIER

00: -

Described is a fork-carrier (2) for a telehandler, comprising: a frame (20) for supporting a fork equipped with an upper structure (200) comprising a gripping rod, which, in use, is positioned horizontally and designed to be removably attached to a coupling device, which is fitted to an operating arm of a telehandler; and a lower contact element (25) designed to make contact with the rear of prongs (3) of fork; wherein the upper structure (200) is connected to the contact element (25) exclusively by means of one or more joining members (26) which are positioned inside the lateral dimensions of the supporting frame (20).



21: 2021/08142. 22: 2021/10/22. 43: 2022/07/22

51: F41H

71: Protecop

72: LESIEUR, Olivier, HOEBANX, Emmanuelle

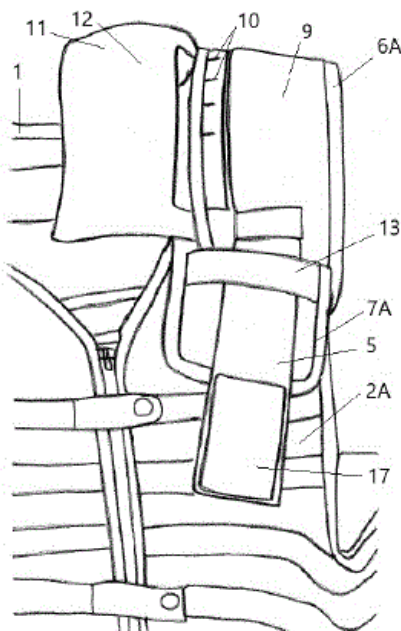
33: FR 31: 20 10892 32: 2020-10-23

54: ADJUSTABLE-SIZE PROTECTIVE VEST

00: -

Protective vest comprising a front face 2A, a rear face 1, two sides, left and right respectively, each extending between the front face and the rear face and two shoulder portions, left and right respectively, defining between them a hole for the head, and two lateral holes to allow the arms to pass through, is

characterised in that one or each shoulder portion consists of a rear band 6A originating from the rear face and a band 7A originating from the front band, a tab 5 originating from the rear band and comprising, preferably at its free end, an area 17 of hooks, the tab passing beneath a strap 13 fastened to the inner face of the front band and being folded around the strap to cause the area of hooks or loops to engage with an area of loops or hooks arranged on the outer face of the rear band.



21: 2021/08168. 22: 2021/10/22. 43: 2022/07/22

51: A61K

71: Janssen Pharmaceuticals, Inc., AC Immune SA

72: RAMSBURG, Elizabeth Anne, DE MARCO, Donata, CHAKKUMKAL, Anish, SADAKA, Charlotte, GOUDSMIT, Jaap, MUHS (deceased), Andreas, PIHLGREN BOSCH, Maria, VUKICEVIC VERHILLE, Marjia, HICKMAN, David, PIOT, Nicolas, GHIMIRE, Saroj Raj

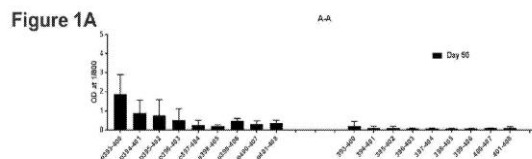
33: US 31: 62/837,987 32: 2019-04-24

54: HETEROLOGOUS ADMINISTRATION OF TAU VACCINES

00: -

Methods for inducing an immune response against tau protein in a subject suffering from a neurodegenerative disease, disorder or condition, such as Alzheimer's Disease, are described. The methods include administering a liposomal priming composition containing tau peptides, preferably

phosphorylated tau peptides, and a conjugate boosting composition containing tau peptides, preferably phosphorylated tau peptides, conjugated to an immunogenic carrier.



21: 2021/08207, 22: 2021/10/25, 43: 2022/06/29

51: F42B

71: John Cockerill Defense SA

72: GRITSKEVITCH, Innokenty, COLOMINE,

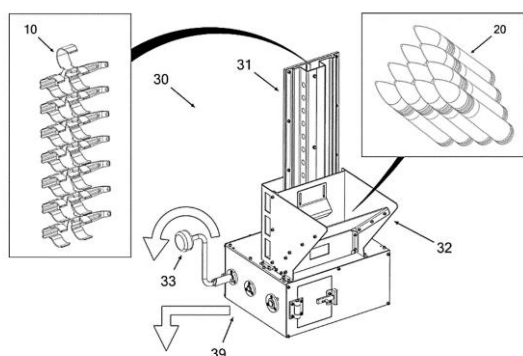
Anthony, LEONNARD, Nicolas

33: EP(BE) 31: 19165962.2 32: 2019-03-28

54: PORTABLE MACHINE FOR CONNECTING CHAIN LINKS AND AMMUNITION

00: -

Machine (30) for fastening ammunition, the machine being designed to form a link chain or belt for ammunition or cartridges (20), comprising: - a first guide (31) for inserting chain links (10) in series separately from each other and for guiding same under the effect of gravity, and a second guide (32) for inserting cartridges (20) in series and for guiding same under the effect of gravity; - a mobile mechanism (34) having a first shaft (36), a second shaft (37) and a third shaft (38), the shafts (36, 37, 38) being mounted parallel to each other and connected by gears (40), the mobile mechanism (34) being set in motion by the rotation of the third shaft (38) which rotates, in continuous motion, the first shaft (36) in an anti-clockwise direction and rotates the second shaft (37) in a clockwise direction, or vice versa, the first shaft (36) comprising at least two catch wheels (35) each having grooves (41), which are evenly spaced and circular in shape, for driving the cases (21) of the cartridges (20), the second shaft (37) comprising at least two catch wheels (42) having grooves (43), which are evenly spaced, for driving the base or the rear portion of the chain links (10), such that when the mobile mechanism (34) is set in motion, each cartridge (20) is presented by the rotation of the first shaft (36) synchronously with the chain link (10) presented by the rotation of the second shaft (37) and is clipped transversely into said chain link (10); - an electric motor or hand crank (33) for rotating the third shaft (38).

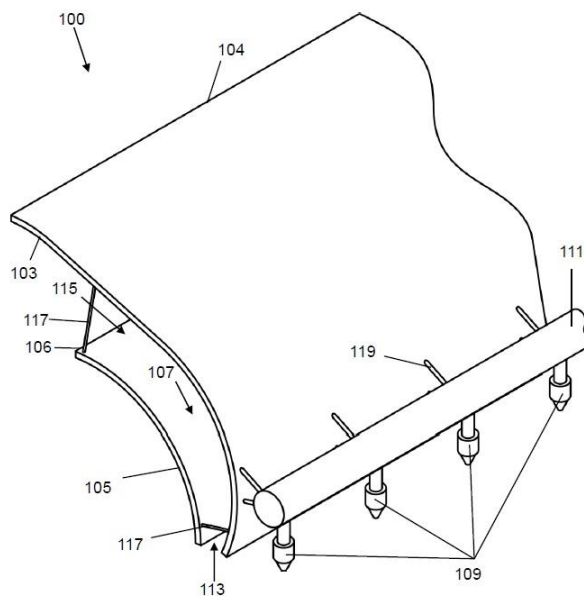


21: 2021/08213. 22: 2021/10/25. 43: 2022/07/14
51: C07H; C12N
71: Cornell University
72: BICALHO, Rodrigo
33: US 31: 62/839,017 32: 2019-04-26
54: KLEBSIELLA VACCINE AND METHODS OF USE
00: -

Provided are compositions and methods that include a *K. pneumoniae* yidR protein or an antigenic segment of the protein, and homologous of the protein, and antigenic segments of the homologs. The compositions can be provided as vaccine formulations for use with humans and non-human animals, including but not limited to dairy cows. The compositions and methods are useful for prophylaxis and/or therapy of conditions associated with Gram negative bacteria that include *K. pneumoniae*, *E. coli*, and other pathogenic Gram negative bacteria. The conditions include such bacterial infections generally, and include specifically mastitis and metritis. The compositions and methods can also improve fertility and milk production. Administration of the compositions can improve the likelihood of a first service conception.

21: 2021/08243. 22: 2021/10/26. 43: 2022/07/14
51: B05B
71: RAS CONSULT (PTY) LTD
72: RAS, Marthinus Christoffel David
33: ZA 31: 2020/07795 32: 2020-12-15
54: AGRICULTURAL SPRAYER AND WIND DEFLECTOR THEREFOR
00: -

An agricultural boom sprayer is provided having a plurality of nozzles positioned along the length of the boom. The boom sprayer has an air deflector with two spaced-apart curved deflector plates that form an elongate and funnel-like deflector body. An inlet of the body faces in a direction of travel of the sprayer, and a lower outlet of the deflector body is substantially vertically oriented. The deflector body directs a substantially horizontal air flow entering the inlet to be expelled substantially vertically out of the outlet. The outlet is positioned at substantially the same vertical position as the nozzles.



21: 2021/08244. 22: 2021/10/26. 43: 2022/06/29
51: A61Q; C11B
71: Givaudan SA
72: FINN, Clare, ARNOUX, Pierre
33: GB 31: 2017025.4 32: 2020-10-27
54: FRAGRANCE COMPOSITIONS
00: -

The present disclosure relates to fragrance compositions comprising combinations of specific fragrance ingredients providing a resulting odour that cannot be deduced from the odour of the combined fragrance ingredients, and products containing such combinations.

21: 2021/08265. 22: 2021/10/26. 43: 2022/06/29
51: C07K; C12N
71: DCM Shriram Limited
72: MANGENA, Geetha Lakshmi, PARIHAR, Dwarkesh Singh, VERMA, Pares, Udayasuriyan, V., Sudhakar, D., Balakrishnan, N., Mohankumar, S.
33: IN 31: 201911016327 32: 2019-04-24
54: CODON OPTIMIZED SYNTHETIC NUCLEOTIDE SEQUENCES ENCODING CRY2AI PROTEIN AND USES THEREOF
00: -

The present disclosure provides codon optimized synthetic nucleotide sequences encoding *Bacillus thuringiensis* (Bt) insecticidal crystal Cry2Ai protein having insecticidal activity against insect pests including, but not limited to insect pests belonging to the order Lepidoptera. The present disclosure also relates to expression of these sequences in plants. The disclosure further provides a DNA construct, a vector, and a host cell comprising the codon optimized synthetic nucleotide sequences of the invention. Also it provides use of the codon optimized synthetic nucleotide sequences for production of insect resistant transgenic plants, and a composition comprising *Bacillus thuringiensis* comprising the codon optimized synthetic nucleotide sequence of the present invention.

21: 2021/08372. 22: 2021/10/28. 43: 2022/07/14

51: F01L

71: DONGFENG COMMERCIAL VEHICLE COMPANY LIMITED

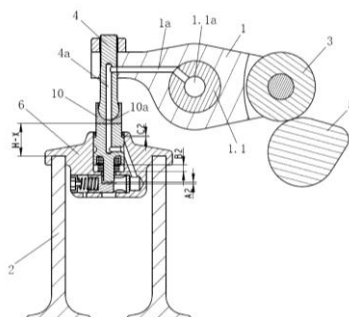
72: WU, Youlin, ZHANG, Fang, WAN, Hu, FAN, Yu, LI, Qinghua

33: CN 31: 202010334819.7 32: 2020-04-24

54: TRANSVERSE PLUNGER-TYPE VARIABLE-HEIGHT VALVE BRIDGE ASSEMBLY

00: -

Disclosed is a transverse plunger type variable height valve bridge assembly, which is arranged between a rocker arm and a valve, the middle of the rocker arm is provided with a rocker shaft, one end of the rocker arm is provided with a rocker roller, the other end of the rocker arm is provided with an adjusting bolt, and the rocker roller is in close contact with a cam; the valve bridge assembly further comprises a valve bridge, the valve bridge is sleeved with a piston, the piston is in close connect with the adjusting bolt, the valve bridge is provided with a valve groove, and one end of the valve is arranged in the valve groove; the valve bridge is provided with a vertical piston cylinder and a transverse plunger cylinder, the piston is arranged in the vertical piston cylinder, a piston spring is arranged between the piston and the vertical piston cylinder, one end of the piston is further provided with a piston rod, the piston spring is sleeved on the piston rod, and the bottom of the vertical piston cylinder is provided with a piston through hole.



21: 2021/08429. 22: 2021/10/29. 43: 2022/06/08

51: A61K; A61P

71: RICHTER GEDEON NYRT.

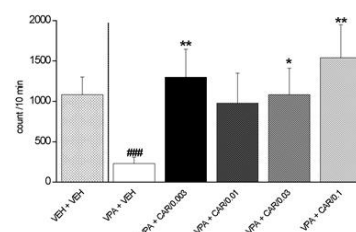
72: ROMÁN, Viktor, ROGER EARLEY, Willie, ADHAM-PARANGI, Nika, PO-JEN YEUNG, Paul

33: HU 31: P1900121 32: 2019-04-10

54: CARBAMOYL CYCLOHEXANE DERIVATIVES FOR TREATING AUTISM SPECTRUM DISORDER

00: -

The present invention relates to trans-N-[4-[2-[4-(2,3-dichlorophenyl)piperazin-1-yl]ethyl]cyclohexyl]-N',N'-dimethylurea (cariprazine), its salts, close analogs, derivatives, pharmaceutical compositions, metabolites and combinations for use in the treatment of symptoms of autism spectrum disorder in general, and preferably the object of the present invention is to treat one or more symptoms of autism. Furthermore, it was also found that cariprazine, its salts, close analogs, derivatives, pharmaceutical compositions, metabolites and combinations are suitable for treatment of conditions such as Asperger's syndrome, atypical autism (otherwise known as pervasive developmental disorder not otherwise specified; PDD-NOS), Rett syndrome, childhood disintegrative disorder, attention deficit hyperactivity disorder (ADHD) and sensory integration dysfunction.



21: 2021/08538. 22: 2021/11/02. 43: 2022/06/29

51: H01B; H01Q

71: GUANGZHOU SIGTENNA TECHNOLOGY CO., LTD.

72: SLEDKOV, Victor Aleksandrovich

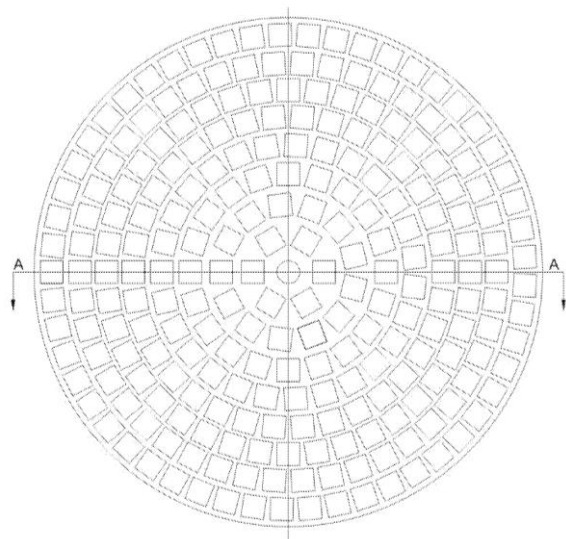
33: NZ 31: 752944 32: 2019-04-26

54: ARTIFICIAL DIELECTRIC MATERIAL AND FOCUSING LENSES MADE OF IT

00: -

Provided herein are artificial dielectric materials comprising a plurality of sheets of a dielectric material and a plurality of short conductive tubes placed in the sheets of the dielectric material, wherein the sheets of the dielectric material containing the short conductive tubes are separated by sheets of the dielectric material without the short conductive tubes, and wherein axes of the tubes are orientated along at least two different directions. Also provided are methods for manufacture of such materials and cylindrical focusing lenses comprising such artificial dielectric materials. The artificial dielectric materials, lenses and their manufacture may provide desirable dielectric properties

compared with known materials and manufacturing advantages.



21: 2021/08689. 22: 2021/11/05. 43: 2022/07/25
51: A01H; C12N; C12Q; A01P
71: BEIJING DABEINONG BIOTECHNOLOGY CO., LTD.

72: HAN, Chao, YU, Caihong, XIE, Xiangting, WANG, Dengyuan, YANG, Shujing, CUI, Guangdong, KANG, Yuejing, BAO, Xiaoming

54: NUCLEIC ACID SEQUENCE FOR DETECTING SOYBEAN PLANT DBN8002 AND DETECTION METHOD THEREFOR

00: -

The present invention relates to nucleic acid sequences for detecting soybean plant DBN8002 and detection methods thereof, wherein said nucleic acid sequences comprise SEQ ID NO: 1 or a complementary sequence thereof, and/or SEQ ID NO: 2 or a complementary sequence thereof. The soybean plant DBN8002 of the present invention has good resistance against Lepidoptera insects as well as good tolerance to glufosinate herbicide without compromising the yield, and the detection methods can accurately and rapidly identify whether a biological sample contains the DNA molecule of the transgenic soybean event DBN8002.



21: 2021/08743. 22: 2021/11/08. 43: 2022/06/29
51: A01G

71: Hishtil South Africa (Pty) Ltd

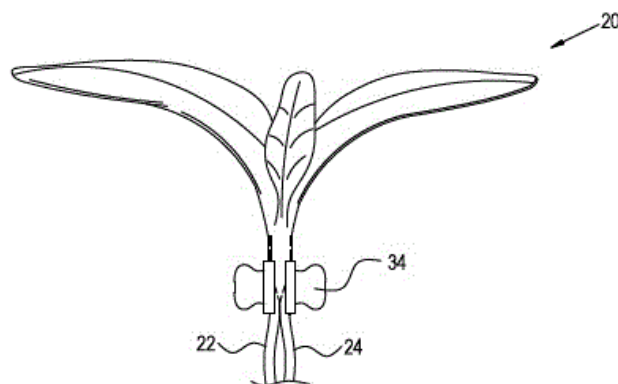
72: ZUKER, Shlomo

33: ZA 31: 2020/07523 32: 2020-12-03

54: A method of grafting plants

00: -

The invention relates to a method of grafting a scion 20 to a plurality of rootstocks 22, 24. A lower or free end of the scion is cut into a V-shape such that it is provided with two angularly spaced contact surfaces 26, 28. The upper end of each rootstock 22, 24 is cut at an angle in order to provide contact surfaces 30, 32 which are complementary to the contact surfaces 26, 28, respectively. The scion is in position such that the contact surface 26 is in abutment with the contact surface 30 and the contact surface 28 is in abutment with the contact surface 32 and the scion and rootstocks are secured.



21: 2021/08771. 22: 2021/11/08. 43: 2022/06/29
51: A61K; A61P

71: Beijing Wehand-Bio Pharmaceutical Co., Ltd, Institute of Materia Medica, Chinese Academy of Medical Science & Peking Union Medical College

72: LIU, Yuling, LIAO, Hengfeng, GAO, Yue, DONG, Wujun, LIU, Zhihua, WANG, Bangyuan, ZHANG, Yun, FENG, Yu, ZHOU, Junzhuo, LIU, Lu, YE, Jun, YANG, Yanfang, XIA, Xuejun

33: CN 31: 201910278955.6 32: 2019-04-09

54: FLAVONOID POLYPHENOL DRUG SELF-EMULSIFYING COMPOSITION, PREPARATION METHOD THEREFOR, PHARMACEUTICAL COMPOSITION THEREOF AND APPLICATION THEREOF

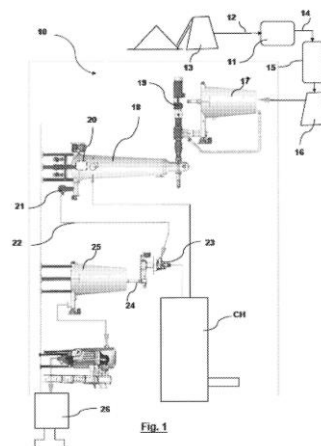
00: -

A flavonoid polyphenol drug self-emulsifying composition based on a flavonoid polyphenol drug-phospholipid complex being used as an

intermediate, the composition comprising a flavonoid polyphenol drug-phospholipid complex, an oil phase, an emulsifier and a co-emulsifier, the flavonoid polyphenol drug comprising one or more selected from baicalein, proanthocyanidin, quercetin, curcumin and resveratrol. The described self-emulsifying composition has the beneficial effects of good stability, a high amount of drug loading, high bioavailability, and so on.

21: 2021/08775. 22: 2021/11/08. 43: 2022/06/29
51: A61K; A61P; C07D
71: F. Hoffmann-La Roche AG
72: DOLENTE, Cosimo, GOERGLER, Annick, HEWINGS, David Stephen, JAESCHKE, Georg, KUHN, Bernd, NAGEL, Yvonne Alice, NORCROSS, Roger David, OBST-SANDER, Christa Ulrike, RICCI, Antonio, RUEHER, Daniel, STEINER, Sandra
33: EP(CH) 31: 19181772.5 32: 2019-06-21
54: NEW EGFR INHIBITORS
00: -
The invention provides novel compounds as described herein, compositions including the compounds and methods of using the compounds.

21: 2021/08777. 22: 2021/11/08. 43: 2022/07/14
51: C10B; C10L
71: Europeenne de Biomasse
72: DESPRES, Jean-Luc, HABAS, Thomas, QUINTERO-MARQUEZ, Adriana, MARTEL, Frédéric
33: FR 31: 1904682 32: 2019-05-03
54: STEAM CRACKING CONTROL FOR IMPROVING THE PCI OF BLACK GRANULES
00: -
The present invention relates to a method for continuously preparing a pulverulent material having a calorific power greater than the calorific power of the initial biomass, comprising a steam cracking step, characterized in that the initial biomass consists of elements having a grain size distribution of between P25 and P100, having a humidity of less than 27%, directly subjected to a steam cracking treatment.



21: 2021/08782. 22: 2021/11/08. 43: 2022/06/29
51: A01K
71: Vervaeke-Belavi
72: VERVAEKE, Steven
33: BE 31: 2019/5343 32: 2019-05-24
54: TRANSFER MACHINE AND USE THEREOF IN A POULTRY HOUSE FOR TRANSFERRING INCUBATED EGGS TO A FLOOR THEREOF
00: -
The transfer machine comprises an input and output system (8) for inserting trays filled with incubated eggs into the transfer machine and for removing the emptied trays therefrom and a transfer system (9) for transferring the eggs from the trays to the floor of the poultry house. The transfer system (9) comprises a set of egg pickup members (28) mounted on a first sub-frame (30). In order to enable a shorter cycle time, the first sub-frame (30) is mounted on a second sub-frame (31) such that it can move up and down, the second sub-frame being mounted on the frame (5) of the machine such that it can move back and forth between a first position, wherein the set of egg pickup members (28) is above the filled trays that have been inserted, and a second position, wherein the set of egg pickup members (28) is above the floor of the poultry house and can move up and down between the top and bottom positions.

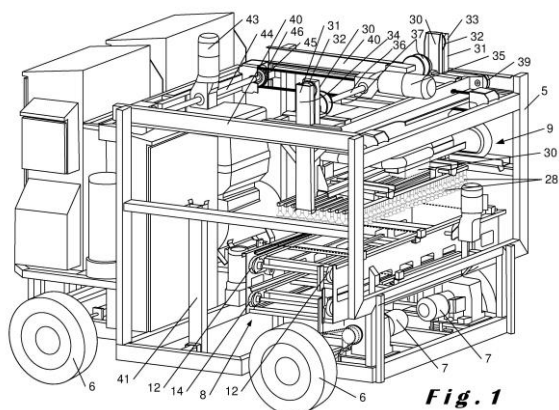


Fig. 1

21: 2021/09019. 22: 2021/11/12. 43: 2022/07/05

51: D06M

71: JUSHI GROUP CO., LTD.

72: YE, FENGLIN, FEI, QIFENG, LIU, JUAN, ZHOU, HONGYA, DAI, BILONG

33: CN 31: 202010507676.5 32: 2020-06-05

54: SIZING COMPOSITIONS FOR GLASS FIBER DIRECT ROVING FOR PRODUCING MULTIAXIAL FABRICS, AND PREPARATION METHODS AND APPLICATIONS THEREOF

00: -

A sizing composition for glass fiber direct roving for producing multiaxial fabrics is provided. The sizing composition includes, based on the total solids mass of the composition, 0.1 to 5.0% by solid mass of a first silane coupling agent, 2.5 to 11.0% by solid mass of a second silane coupling agent, 3.0 to 20.0% by solid mass of a first film former, 45.0 to 75.0% by solid mass of a second film former, 0 to 5.0% by solid mass of a plasticizer, 0.2 to 4.0% by solid mass of a first lubricant, 5.0 to 20.0% by solid mass of a second lubricant, and 0.01 to 3.0% by solid mass of a pH regulator. The first film former is a multifunctional epoxy emulsion, and the second film former is a low-molecular-weight liquid epoxy emulsion. The sizing composition has a suitable dissolution rate in the resin and good compatibility with the resin. It enables the wind turbine blades made from glass fiber multiaxial fabrics containing the sizing composition to have such advantages as stable mechanical strength, excellent fatigue resistance, and longer service life.

21: 2021/09185. 22: 2021/11/17. 43: 2022/06/28

51: G01R; H01F

71: OMICRON electronics GmbH

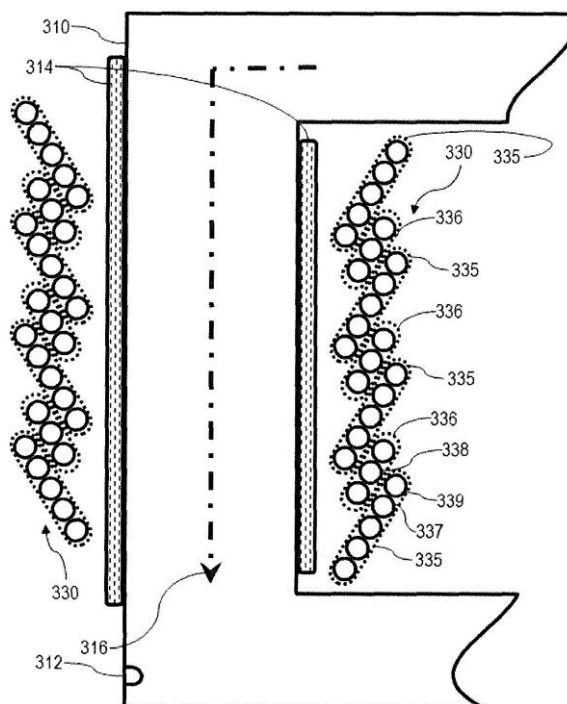
72: ANGLHUBER, Martin, KAUFMANN, Reinhard, BITSCHNAU, Lukas

33: AT 31: A50429/2019 32: 2019-05-13

54: HIGH VOLTAGE TRANSFORMER, METHOD FOR PRODUCING A HIGH VOLTAGE TRANSFORMER AND TEST SYSTEM AND TEST SIGNAL DEVICE COMPRISING A HIGH VOLTAGE TRANSFORMER

00: -

The invention relates to a high voltage transformer which is designed as a toroidal transformer. Said high voltage transformer comprises a magnetisable core (310) and a low voltage winding (330) and a high voltage winding (320) surrounding the magnetisable core (310).. The high voltage winding (330) is embodied as a Pilger step winding.



21: 2021/09189. 22: 2021/11/17. 43: 2022/06/28

51: B62K; B62L; G05G

71: Ambrosia Investments Ltd

72: SHAFFIR, Ram

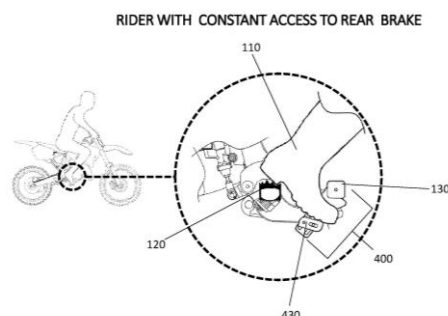
33: US 31: 16/416,240 32: 2019-05-19

54: MOTORCYCLE REAR-BRAKE ADAPTOR UNIT

00: -

An ergonomic motorcycle, rear-brake adaptor unit operative to provide constant and immediate accessibility to a rider whose foot is resting on a foot

peg when riding in any of variety of riding postures that typically impede immediate access to the rear-brake pedal.



21: 2021/09206. 22: 2021/11/18. 43: 2022/08/04
51: B23K; B23Q; H02K

71: Giuliano RES

72: Giuliano RES

33: AU 31: 2020904263 32: 2020-11-18

54: AN ALTERNATOR STATOR CLAMPING DEVICE

00: -

A regulated DC alternator, the alternator including; a diode on each stator power line connected to an electronic switch. The electronic switch connecting said diodes to a negative output power line of the alternator. The alternator also including an overvoltage detection circuit; a driver circuit; and a field coil enable/disable circuit. the overvoltage detection circuit detecting a voltage spike and directing said driver circuit to drive and thereby turn on the electronic switch and the field coil enable/disable circuit that receives a signal from the overvoltage detection circuit and for enabling and disabling a field coil control circuit.

21: 2021/09426. 22: 2021/11/23. 43: 2022/07/22
51: B02C

71: thyssenkrupp Industrial Solutions AG, thyssenkrupp AG

72: SCHROERS, Frank

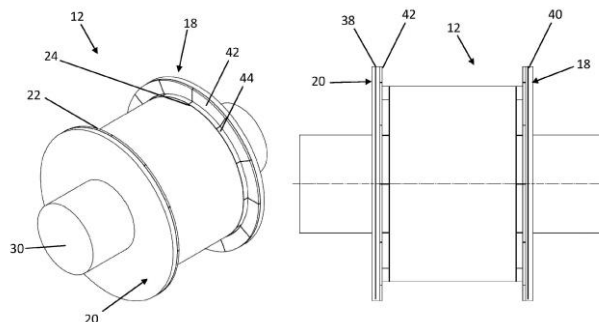
33: DE 31: 10 2019 209 511.9 32: 2019-06-28

54: ROLLER MILL HAVING RIM ELEMENTS AND METHOD FOR SETTING AN END-FACE GAP OF THE ROLLER MILL

00: -

The present invention relates to a grinding roller (12, 14) of a roller mill (10), comprising a roller main body (11, 13) and a rim element (18, 20) which is mounted at an end region (22, 24, 26, 28) of a roller

end of the grinding roller (12, 14) and extends beyond the surface of the roller main body (11, 13) in the radial direction, the rim element (18, 20) comprising a base flange (38) and a spacing element (40) mounted on said base flange, a plurality of anti-wear elements being mounted on the spacing element (40). The invention also relates to a roller mill (10), comprising a first grinding roller (12) and a second grinding roller (14) which are arranged opposite one another and can be driven in opposite directions, with at least one grinding roller (12, 14), a grinding gap (16) being formed between the grinding rollers (12, 14), and the rim element (18, 20) being designed in such a way that it extends over the grinding gap (16) and at least partly covers an end face of the opposite grinding roller (12, 14).



21: 2021/09428. 22: 2021/11/23. 43: 2022/07/22
51: H02B

71: FRANCISQUINI, Melquisedec

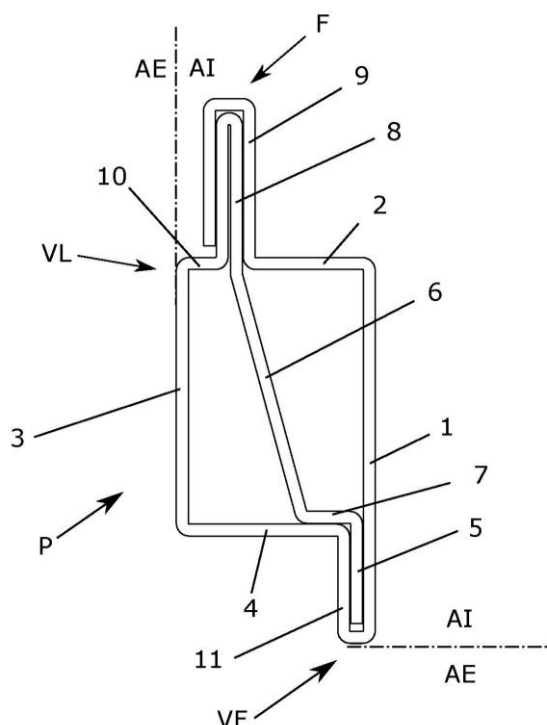
72: FRANCISQUINI, Melquisedec

33: BR 31: 102019010955-6 32: 2019-05-28

54: STRUCTURAL PROFILE FOR ELECTRICAL CABINET

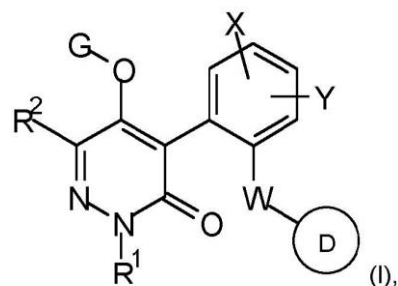
00: -

The invention relates to a structural profile for an electrical cabinet comprising a profile that has a front sealing area positioned at 90° to a lateral sealing area, an inner fastening wall, an inner fastening side, an inner fastening flange, an outer fastening wall, an outer fastening side and a central barrier.

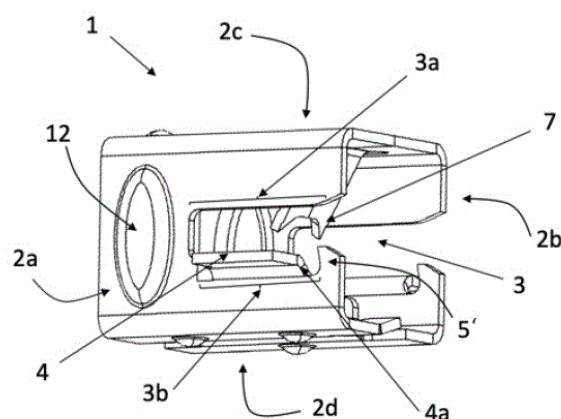


21: 2021/09504. 22: 2021/11/24. 43: 2022/07/14
 51: A01N; C07D
 71: Syngenta Crop Protection AG
 72: LING, Kenneth, MATHEWS, Christopher John, SHANAHAN, Stephen Edward, KITSIOU, Christiana, SEDEN, Peter Timothy, FINNEY, John, DRUAIS-LEFEVRE, Valerie
 33: GB 31: 1910291.2 32: 2019-07-18
54: SUBSTITUTED PYRIDAZINONES AS HERBICIDES

00: -
 The present invention relates to herbicidal substituted phenyl- pyridazine-diones and substituted phenyl-pyridazinone derivatives of formula (I), as well as to processes and intermediates used for the preparation of such derivatives. The invention further extends to herbicidal compositions comprising such derivatives, as well as to the use of such compounds and compositions in controlling undesirable plant growth: in particular the use in controlling weeds, such as broad-leaved dicotyledonous weeds, in crops of useful plants.



21: 2021/09523. 22: 2021/11/25. 43: 2022/07/11
 51: F16B
 71: A. RAYMOND ET CIE
 72: LEGALL, Antoine
 33: FR 31: FR2013553 32: 2020-12-17
54: CLIP FOR HOLDING TWO FLAT ELEMENTS, ASSEMBLY COMPRISING SUCH A CLIP
 00: -
 A clip (1) for holding two flat elements joined together at their main face. The clip comprises a lower wall (2c), an upper wall (2d), and two side walls (2a, 2b), the walls (2a, 2b, 2c, 2d) being interconnected so as to define a closed volume. The two side walls (2a, 2b) are each provided with a groove (3) having an end that opens into a face referred to as the "front face" of the clip. The grooves (3) are configured to insert the clip (1) by its front face onto the two joined flat elements and are each delimited by a contour having an upper segment (3a) and a lower segment (3b) opposite the upper segment (3a).



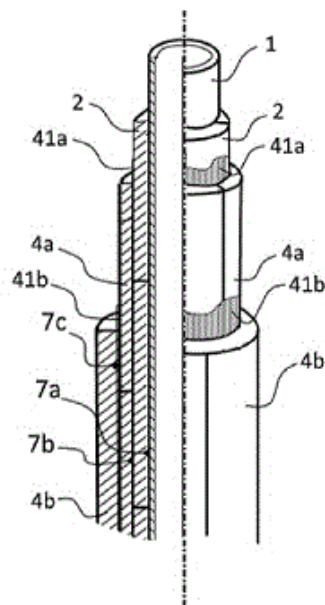
21: 2021/09567. 22: 2021/11/25. 43: 2022/07/04
 51: F16L
 71: SOLETANCHE FREYSSINET
 72: RAILLARD, VINCENT

33: EP 31: 20306450.6 32: 2020-11-26

54: FIRE PROTECTION COATING

00: -

Fire protection covering comprising one or more layers of thermal insulating material (2) in contact with the device to be protected (1), one or more layers of endothermic material (4a, 4b) covering the thermal insulating material and a vapor barrier (3) arranged between said thermal insulating material and endothermic material.



21: 2021/09575. 22: 2021/11/25. 43: 2022/06/29

51: B01F; C02F

71: CONTROL CHEMICALS (PTY) LTD

72: BUCHAN, Peter James

33: ZA 31: 2019/03589 32: 2019-06-05

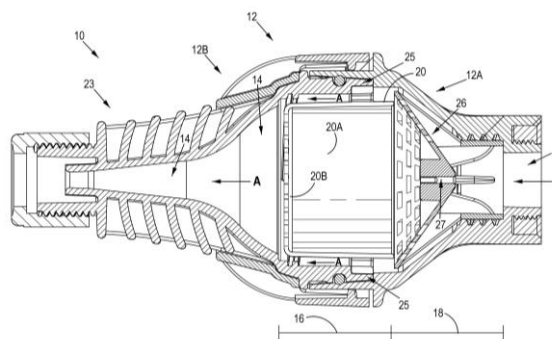
33: ZA 31: 2019/03590 32: 2019-06-05

54: FORMING OF DISINFECTANT SOLUTIONS

00: -

A method of dissolving a soluble disinfectant in solid format in a stream of water flowing in flow path, to provide an aqueous disinfectant solution in the flow path, includes directing a stream of water along the flow path toward a disinfectant dissolution zone in a disinfectant dispensing device located in the flow path. In the disinfectant dissolution zone, soluble disinfectant in solid format is located. Water of the stream of water contacts the disinfectant in the dissolution zone and thus dissolves of the disinfectant, thereby forming a disinfectant solution in the flow path in the dispensing device. Prior to water of the stream of water contacting the

disinfectant, in a flow modification zone that is in the flow path in the dispensing device at an effective distance upstream of the disinfectant dissolution zone, at constant volumetric flow rate of the stream of water, one or more flow characteristics of water of the stream of water are artificially modified, for modified impact of water of the stream of water onto the disinfectant, by means of a flow modifying component that is located in the flow modification zone.



21: 2021/09582. 22: 2021/11/25. 43: 2022/06/29

51: C09K

71: Arteco N.V.

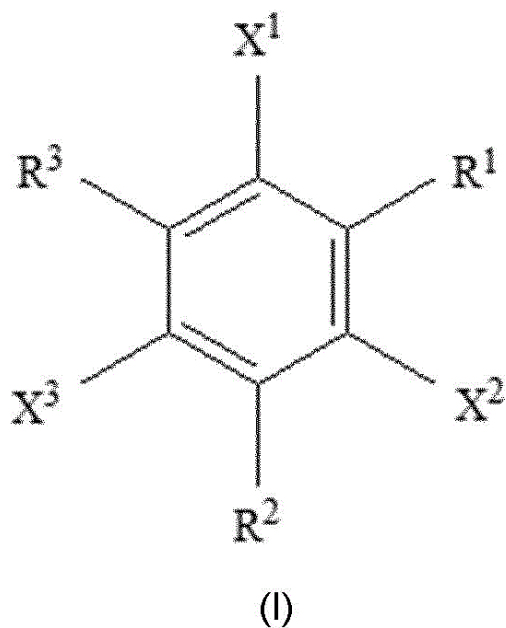
72: CLAEYS, Sandra, LIEVENS, Serge

33: EP(BE) 31: 19181336.9 32: 2019-06-19

54: SILICATE BASED HEAT TRANSFER FLUID, METHODS OF ITS PREPARATIONS AND USES THEREOF

00: -

The present invention relates to silicate based heat-transfer fluids comprising an aromatic polyacid according to formula (I) or a salt thereof. It was found that said compositions exhibit increased corrosion inhibition on both aluminum and ferrous alloy substrates compared to similar compositions comprising borate or a different aromatic acid. The invention further relates to concentrates and kits for the preparation of said silicate based heat-transfer fluids, to methods for the preparation of said silicate based heat-transfer fluids, and to the methods and uses employing said silicate based heat-transfer fluids.



21: 2021/09583. 22: 2021/11/25. 43: 2022/06/29
51: A01N; C07D

71: Syngenta Crop Protection AG

72: LING, Kenneth, SEDEN, Peter Timothy, MATHEWS, Christopher John, SHANAHAN, Stephen Edward, KITSIOU, Christiana, FINNEY, John

33: GB 31: 1910290.4 32: 2019-07-18

54: SUBSTITUTED PYRIDAZINONES AS HERBICIDES

00: -

The present invention relates to herbicidal substituted phenyl-pyridazine-diones and substituted phenyl-pyridazinone derivatives of formula (I), as well as to processes and intermediates used for the preparation of such derivatives. The invention further extends to herbicidal compositions comprising such derivatives, as well as to the use of such compounds and compositions in controlling undesirable plant growth: in particular the use in controlling weeds, such as broad-leaved dicotyledonous weeds, in crops of useful plants.

21: 2021/09608. 22: 2021/11/26. 43: 2022/06/29
51: C02F

71: NORTH-WEST UNIVERSITY

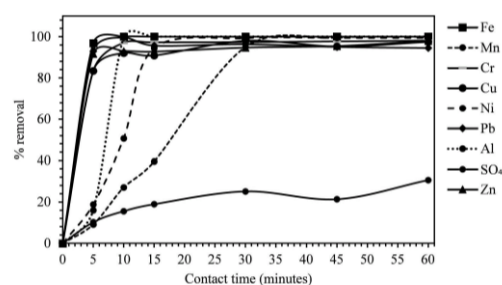
72: FOSSO-KANKEU, Elvis, MASINDI, Vhahangwele

33: ZA 31: 2020/07509 32: 2020-12-02

54: TREATMENT OF ACIDIC, METAL CONTAMINATED WATER

00: -

A process for treating a polluted, acidic, metal-contaminated water to increase the pH of the water and to remove one or more metal pollutants from the water includes contacting the polluted water with a sufficient quantity of a treatment agent that includes struvite, for a period of time which is sufficiently long, to raise the pH of the polluted water to at least 7. At least one metal pollutant is removed from the polluted water by means of precipitation, thereby to produce treated water showing an increase in pH and a reduction in the concentration of at least one metal.



21: 2021/09641. 22: 2021/11/26. 43: 2022/06/29
51: A01H; C12N

71: China Agricultural University

72: Shaojiang, CHEN, Yu, ZHONG, Chenxu, LIU, Xiaolong, QI, Mengran, LI, Baojian, CHEN, Yanyan, JIAO, Zongkai, LIU

33: WO 31: PCT/CN2020/099680 32: 2020-07-01

33: CN 31: 201910445082.3 32: 2019-05-27

54: PARTHENOGENETIC HAPLOID INDUCTION GENE DMP AND APPLICATION THEREOF

00: -

Provided are a parthenogenetic haploid induction gene DMP and an application thereof. The parthenogenetic haploid induction genes AtDMP8 and AtDMP9 are cloned from Arabidopsis thaliana. Experiments have shown that mutations of AtDMP8 and AtDMP9 can produce parthenogenetic haploid inducibility, to enable dicotyledonous crops to be induced to produce haploids via parthenogenetic means. The present invention was further verified in tomatoes, and it was also found in tomatoes that the mutation of SIDMP can produce parthenogenetic haploid inducibility. The invention lays an important foundation for broadening the application of haploid breeding technology on dicotyledonous plants and revealing the biological mechanism of

parthenogenetic haploid production. Given the universality of the utilization of haploid breeding technology in the current breeding industry, the invention has very wide application space and market prospects.

21: 2021/09716. 22: 2021/11/29. 43: 2022/06/29

51: C07K C12P

71: CJ CHEILJEDANG CORPORATION

72: SEO, Chang Il, KIM, Hyo Jin, LEE, Ji Sun, CHOI, Sol

33: KR 31: 10-2019-0111509 32: 2019-09-09

54: L-THREONINE EXPORT PROTEIN VARIANT AND METHOD FOR PRODUCTION OF L-THREONINE USING SAME

00: -

The present application relates to an L-threonine export protein variant, a microorganism including same, and a method for production of L-threonine using same.

21: 2021/09732. 22: 2021/11/29. 43: 2022/07/22

51: A61K; A61P; A61Q

71: HaplnScience Inc.

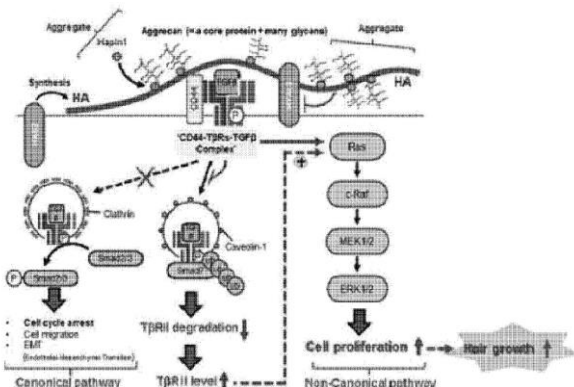
72: KIM, Dae Kyong, HA, Hae Chan, JANG, Ji Min, SHIN, In Chul, BACK, Moon Jung, ZHOU, Dan

33: KR 31: 10-2019-0050698 32: 2019-04-30

54: COMPOSITION FOR PREVENTION OR TREATMENT OF HAIR LOSS INCLUDING HAPLN1

00: -

The present invention relates to a pharmaceutical composition for the prevention or treatment of hair loss, the composition comprising hyaluronan and proteoglycan link protein 1 (HAPLN1) as an active ingredient. When administered, the HAPLN1 protein of the present invention promotes proliferation of hair germinal matrix cells through the Ras-ERK1/2 signaling pathway activated by TGF- β protein, thereby growing hair.



21: 2021/09782. 22: 2021/11/30. 43: 2022/07/22

51: F42B

71: NEXTER MUNITIONS

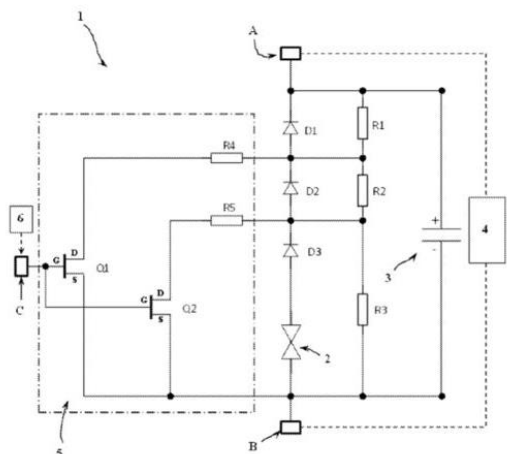
72: Jean-Luc PERON

33: FR 31: 1906632 32: 2019-06-21

54: CIRCUIT FOR CONTROLLING THE FIRING OF A PYROTECHNIC COMPONENT

00: -

The subject of the invention is a circuit (1) for controlling the firing of an exploding-foil pyrotechnic component (2). This circuit comprises at least one capacitor (3) that can be discharged into the pyrotechnic component (2) in order to initiate it and a switch means (5) for allowing the capacitor to be discharged into the pyrotechnic component. This control circuit is characterized in that the capacitor (3) is connected to the pyrotechnic component by an array of at least three diodes (D1,D2,D3) connected in series and in a direction that prevents the capacitor (3) from discharging, the sum of the reverse voltages of these diodes being greater than the maximum voltage that can be delivered by the capacitor (3), the switch means (5) comprising at least two field-effect transistors (Q1,Q2), the gates of which can be controlled simultaneously and which are associated with the array of diodes (D1,D2,D3).



21: 2021/09784. 22: 2021/11/30. 43: 2022/07/22

51: A01D; B60P

71: Nimalux (Pty) Ltd.

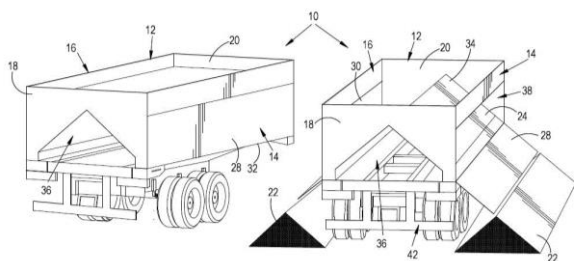
72: BOS, Louis Westra

33: ZA 31: 2019/03216 32: 2019-05-22

54: GRAVITY TIP CONTAINER

00: -

A gravity tip container is provided comprising a container body having side and end walls for accommodating product to be tipped or discharged out of the container body. The container body has at least one angled floor portion that angles down towards one of the side walls of the container body, the side wall including a flap portion that is movable relative to the side wall, the flap portion being movable between a closed position, in which the product is accommodated within the container body, and an opened position, in which the flap portion moves so as to define a discharge opening for allowing the product to flow out of the container body, along the angled floor portion, under the action of gravity. In an embodiment, the container body defines a recess or void for accommodating a liquid storage container.



21: 2021/09820. 22: 2021/12/01. 43: 2022/07/05

51: B01D B05C A23B A01N B65D C01B

71: SCHOEMAN, Lu, Raubenheimer

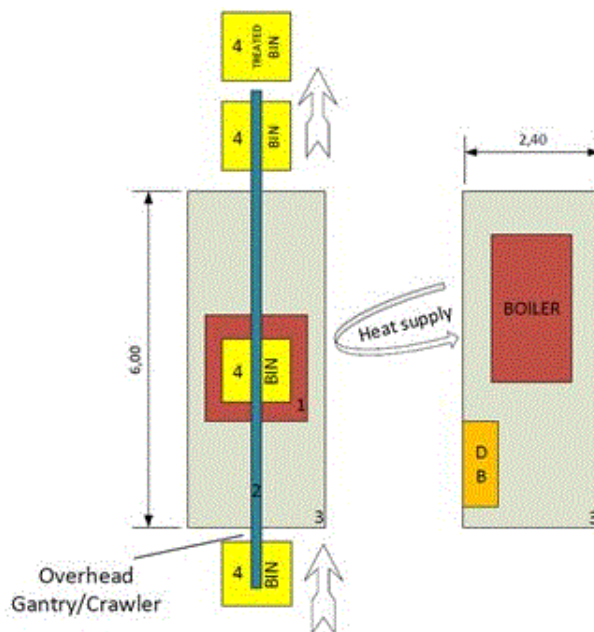
72: SCHOEMAN, Lu, Raubenheimer

33: ZA 31: 2020/07521 32: 2020-12-03

54: PROTECTION AND MAINTENANCE OF WOODEN TRANSPORT CRATES

00: -

This invention relates to a method for thermal sterilization, mechanical protection and maintenance of wooden containers and use of such containers as transport means of fresh produce.



21: 2021/09826. 22: 2021/12/01. 43: 2022/07/05

51: A61K A61P

71: PLUS VITECH, S.L.

72: SALINAS-MARTIN, Manuel Vicente

33: EP 31: 19382353.1 32: 2019-05-08

54: NK1 INHIBITORS FOR THE TREATMENT OF MALARIA

00: -

The present invention relates to the treatment of malaria using a NK1 inhibitor.

21: 2021/09841. 22: 2021/12/01. 43: 2022/07/06

51: B01F; B28C; G05D

71: Saint-Gobain Weber

72: OPDENBUSCH, Kersten, BLAAKMEER, Jan, NUNES LOBO, Bruno Miguel, PIERTZIK, Lutz, HOFMANN, Tanja

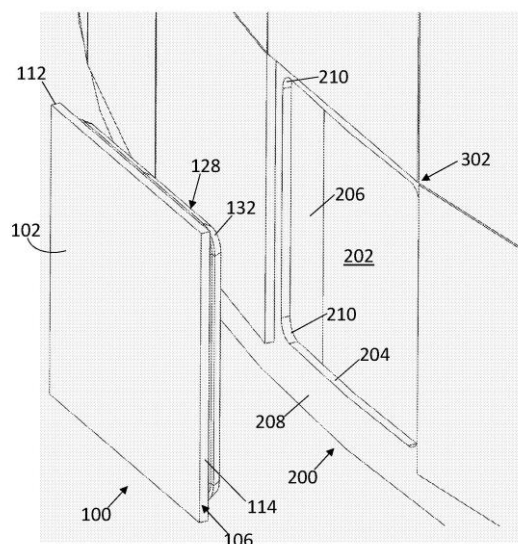
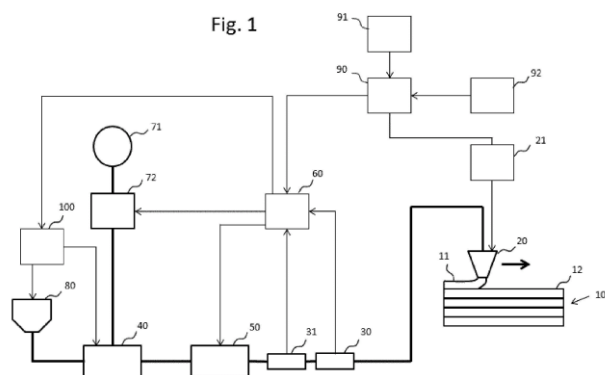
33: EP(FR) 31: 19182629.6 32: 2019-06-26

54: METHOD FOR MANUFACTURING MORTAR-BASED ELEMENTS

00: -

The invention relates to a method for manufacturing elements (10) comprising hydraulic binder and aggregates, said method comprising: - mixing a dry mortar composition comprising hydraulic binder and aggregates with water, to form a wet mortar, - pumping and conveying said wet mortar towards an outlet (20), wherein during said conveying at least two physical properties of the wet mortar are measured on-line, said physical properties including viscosity and at least one of flow and density.

Fig. 1



21: 2021/09842. 22: 2021/12/01. 43: 2022/07/06

51: B01D; B07B

71: FLSmith A/S

72: THEKKUVEETIL, Kishor

33: US 31: 62/857,616 32: 2019-06-05

54: SCREEN TILE AND MODULAR SCREENING APPARATUS FOR DEWATERING PULP OR SLURRY

00: -

A modular screening apparatus 300 is comprised of a cylindrical screen basket subframe 200 and a plurality of screen tiles 100 attached to the screen basket subframe 200. The screen basket subframe 200 has a panel structure 208 with a number of apertures 202 extending therethrough. Each aperture 202 of the panel structure 208 receives its own screen tile 100. Each screen tile 100 has a locking feature 128 extending into its respective aperture 202. The locking feature 128 includes an undercut 108 defined by four outer peripheral sides 118 connected by convex blends 116. The undercut 108 may be sized and shaped with the same rounded rectangle aperture shape as the aperture.

21: 2021/09884. 22: 2021/12/02. 43: 2022/07/20

51: B66F

71: STATE GRID HUZHOU POWER SUPPLY COMPANY, ZHEJIANG TAILUN POWER GROUP CO., LTD.

72: QIN, WEIXUN, XU, YONGSHENG, XU, JING, WU, JIAN, SHEN, XIAODONG, ZHOU, FENG, WU, XINLONG, SHEN, XIAOBIN, ZHANG, SIZE, CHEN, SHIJUN, WANG, ZHEN, CHAI, JIE, WU, XIAOXIAO, GU, JIN

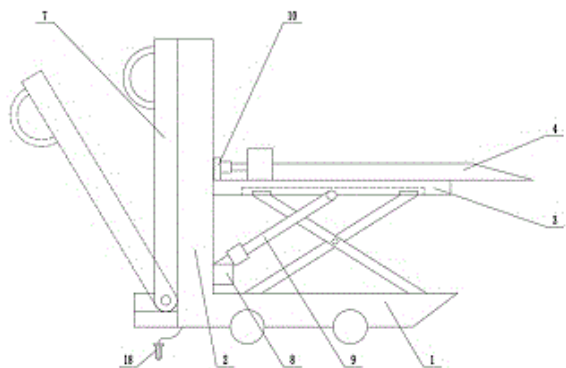
33: CN 31: 202111036599.0 32: 2021-09-06

54: HEIGHT-ADJUSTABLE FORKLIFT DEVICE

00: -

The present invention provides a height-adjustable forklift device, which, in the technical solution to the technical problem in the present invention, comprises an L-shaped body formed by a base board and a vertical board, wherein a movable board that is connected to be slidable reciprocally in the vertical direction of the vertical board is provided above the base board; a forking board that is connected to be slidable in the horizontal direction is provided on the upper part of the movable board, the top surface of a front forking end of the forking board is a bevel structure, and the top surface of the forking board is provided with an anti-slip pattern; two symmetrically arranged support blocks are provided on the lower part of a side of the vertical board away from the base board, a push board is hinged between the two support blocks and can be turned within a range from horizontal orientation to vertical orientation, and a positioning means for

limiting the position of the push board is provided between the push board and the support blocks. The forklift device in the technical solution can be used manually, can be adjusted to a desired height conveniently, and can be used in limited spaces.



21: 2021/09885. 22: 2021/12/02. 43: 2022/07/04

51: F16K

71: Hans Sasserath GmbH & Co. KG

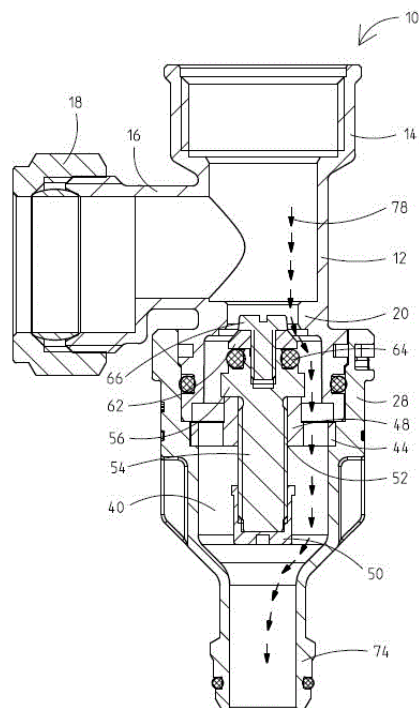
72: HECKING, Willi

33: DE 31: 20 2021 103 924.8 32: 2021-07-22

54: VALVE ASSEMBLY

00: -

Outlet valve assembly (10) for draining a water reservoir comprising a water containing housing; an outlet valve provided inside the housing with a valve seat and a valve closing body cooperating with the valve seat; a rotatable handle; and a valve spindle connected to the valve closing body, which carries out an axial movement upon rotation of the handle for opening and closing the valve, is characterized in that the valve closing body is provided with a valve sealing, which seals the valve closing body against the valve seat exclusively in a radial direction if the outlet valve is closed; and a stop is provided at the valve spindle, which cooperates with a component held in the handle, whereby the axial movement of the valve spindle in the closing direction is limited by the stop.



21: 2021/09905. 22: 2021/12/02. 43: 2022/07/20

51: F42B

71: RUAG AMMOTEC GMBH

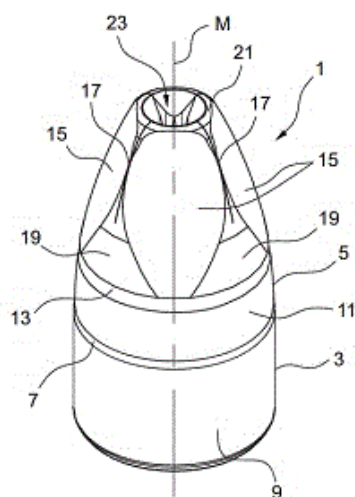
72: SPANNER, FLORIAN

33: DE 31: 10 2019 116 125.8 32: 2019-06-13

54: PROJECTILE, IN PARTICULAR DEFORMATION AND/OR PARTIAL FRAGMENTATION PROJECTILE, AND METHOD FOR PRODUCING A PROJECTILE

00: -

The invention relates to a projectile, in particular a deformation and/or partial fragmentation projectile, comprising a substantially cylindrical projectile tail; a nose-side projectile head which adjoins the projectile tail and comprises a substantially central opening that opens into a cavity extending axially from the projectile head in the direction of the projectile tail, preferably into the projectile tail, said cavity having a cavity base and being delimited by a wall; and a tear-off groove which is introduced into the wall and at least partly encircles the cavity and which is arranged at a distance of at least 10% of the longitudinal extension of the cavity from the cavity base and has a radial depth of at least 10% of the caliber diameter and/or at least 30% of the radial wall thickness of the wall surrounding the cavity.



21: 2021/09909. 22: 2021/12/02. 43: 2022/07/04

51: B29C; B29K; B29L

71: AlphaMAC S.r.l.

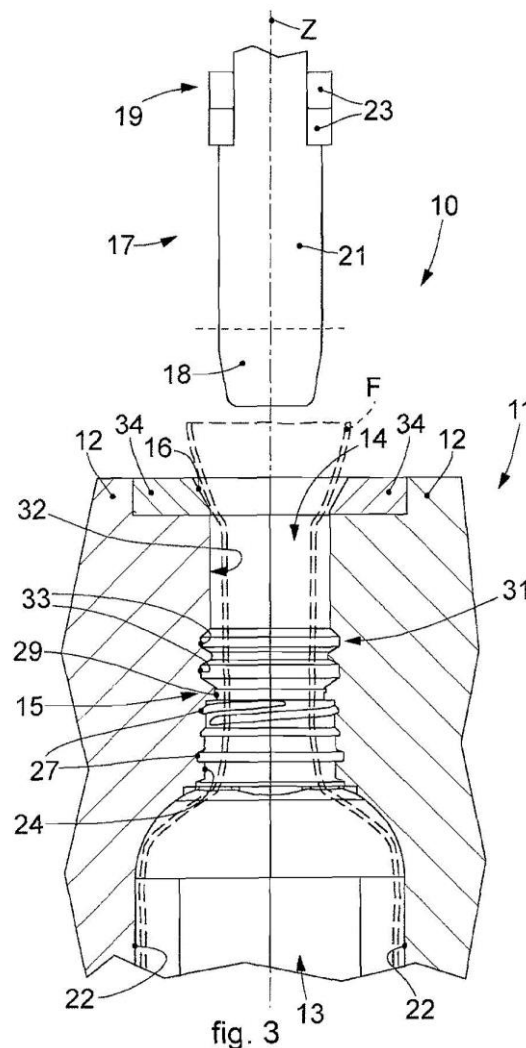
72: MINGHETTI, Moreno, MENTINI, Roberto, MARTINA, Antonio

33: IT 31: 102019000007764 32: 2019-05-31

54: APPARATUS AND METHOD TO FORM HOLLOW CONTAINERS

00: -

Apparatus for forming hollow containers (110), suitable to contain in particular one or more liquid or semi-liquid food products, starting from parisons (F) made of thermoplastic material. The apparatus comprises a matrix (11) defined by a pair of molds (12) cooperating with each other to define a cavity (13) shaped like the container (110) to be formed, and to define a support channel (14), configured to define an additional portion (112) of said container (110). The apparatus also comprises a forming punch (17), operatively mobile through said support channel (14) to enter into/exit from said cavity (13) so as to thrust and blow one of said parisons (F) against the walls of said cavity (13) to form at least said container (110).



21: 2021/09946. 22: 2021/12/03. 43: 2022/07/04

51: A47H

71: JORDAAN, Johannes, Jacobus

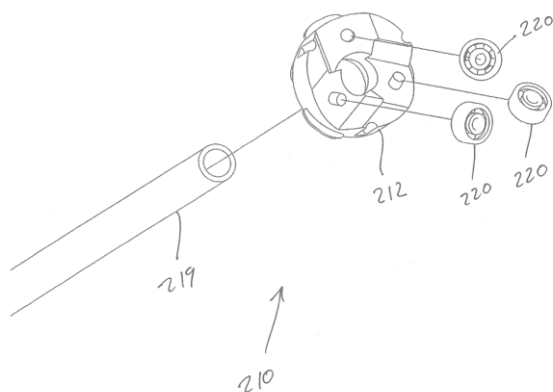
72: JORDAAN, Jarryd, Kyle, JORDAAN, Johannes, Jacobus

33: ZA 31: 2018/03342 32: 2018-05-21

54: DRAPERY SUSPENSION SYSTEM

00: -

According to a first aspect of the invention there is provided a drapery suspension system which includes a rail, a connector for interconnecting an upper end portion of a drapery type item with the rail, wherein the connector is shaped and configured to inhibit rotation and /or transversal displacement of the connector relative the rail when displacing the connector along the said rail.



21: 2021/09947. 22: 2021/12/03. 43: 2022/09/02
51: E04H; F03D

71: ZHOU LIANHUI

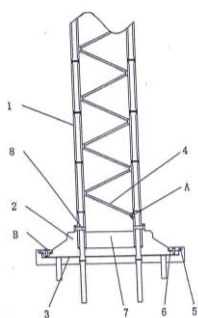
72: Tian Ze su, Gong Mao

33: CN 31: 2021208428287 32: 2021-04-22

54: WINDMILL TOWER WITH COMPOSITE MATERIAL BY AVIAN BIONIC STRUCTURE

00: -

The utility discloses Windmill Tower With Composite Material By Avian Bionic Structure, comprising the main body, tower drum body wall has said a bamboo tube, and said bamboo tube is hollow structure, a connection between bamboo tube, and the shape of the connecting block match the shape of bamboo tube, said connecting piece is inserted between mao bamboo tube fixed connection, and the mao bamboo tube is distributed in an annular position on the inner wall of the tower tube, the wool bamboo tube is provided with a cylinder mold, and the cylinder mold is provided with a support frame, the support frame is distributed in an inclined dislocation structure on the inner wall of the cylinder mold.



21: 2021/09950. 22: 2021/12/03. 43: 2022/09/02
51: C09K; E03B; F03D; F28F

71: ZHOU LIANHUI

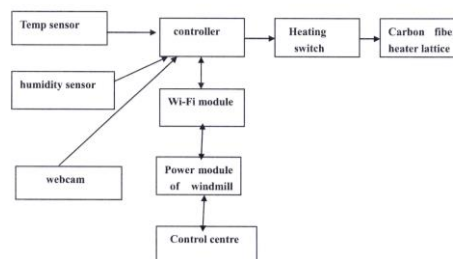
72: Gong Mao

33: CN 31: 2021204636929 32: 2021-03-03

54: CARBON FIBER HEATING SYSTEM FOR ANTI-FREEZING AND SNOW-MELTING OF WINDMILL BLADE

00: -

The utility discloses a carbon fiber heating system for anti-freezing and snow-melting upon Windmill blade, comprising a carbon fiber heating lattice, a carbon fiber heating control device on the windmill blades, heating controller includes temperature sensor, humidity sensor and switch control circuit, wireless communication module; the output of temperature sensor and of humidity sensor are connected to the controller, which is connected to the heating switch control circuit, to the wireless communication module. Once the threshold temperature of the windmill blades overriding, the carbon fiber heating control device or the remote control center is triggering for automatic heating blade, preventing for the windmill blades from be frozen in sleet and snow weather, and of windmill blades defunct rotation.



21: 2021/09951. 22: 2021/12/03. 43: 2022/09/02
51: B65D

71: ZHOU LIANHUI

72: Qu Jiafa

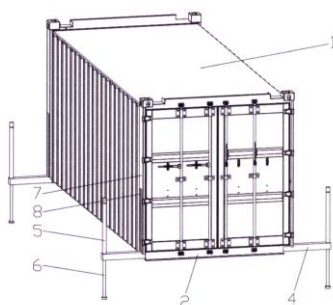
33: CN 31: 2021212987734 32: 2021-06-10

54: SELF-HOISTING CONTAINER

00: -

A self-hoisting container comprises a container body proper, a hollow beam is arranged at both ends of the bottom of the container body, a telescopic device is provided with a telescopic boom at both ends of the telescopic device, in which a jacking device is fixed; the utility provides a self-hoisting container, which can automatically load and unload out of and onto vehicle without other auxiliary machinery,

increasing neither the container's volume or reducing its capacity, lowering operative cost and facilitating the usefulness.



21: 2021/09952. 22: 2021/12/03. 43: 2022/09/02

51: H02K

71: ZHOU LIANHUI

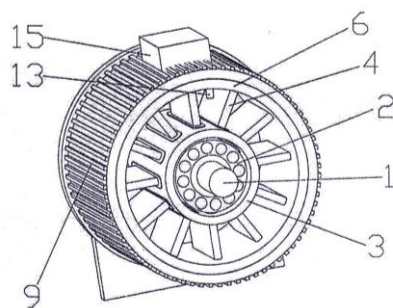
72: Qu Jiafa

33: CN 31: 2021106491011 32: 2021-06-10

54: ASYNCHRONOUS MOTOR STRUCTURE

00: -

An asynchronous motor structure comprises a rotating shaft, the rotating shaft is provided with a plurality of groups of motor units, the motor unit comprises a rotor fixed on the rotating shaft, the outer sleeve of the rotor is provided with an inner ring, there is a gap between the inner ring and the rotor; the inner ring is provided with a slot for inserting the silicon steel sheet, the outer side of the silicon steel sheet is provided with an outer magnetic ring, the outer end of the silicon steel sheet is in contact with the inner wall of the outer magnetic ring but not connected, and the outer coil of the silicon steel sheet is wound; the inventive asynchronous motor structure simplifies the structure, improves the power and facilitates maintenance.



21: 2021/09969. 22: 2021/12/03. 43: 2022/07/22

51: E21B; G01B

71: MTI GROUP PTY LTD

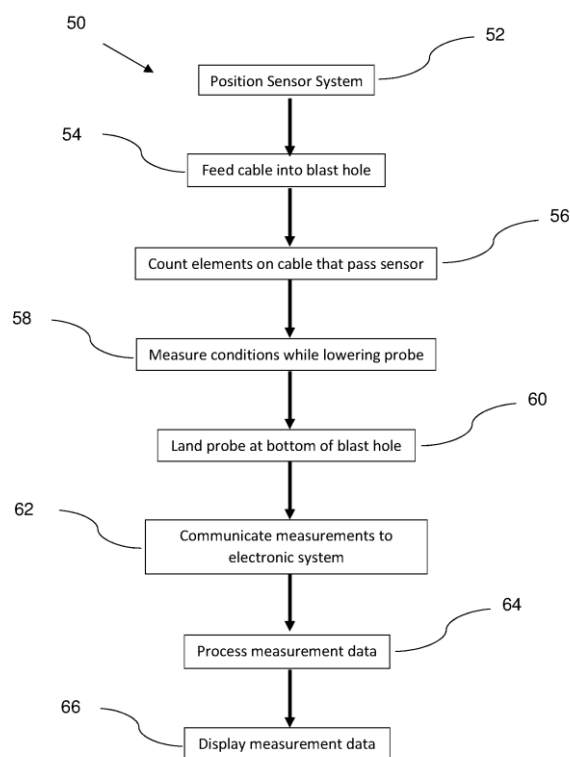
72: BODLEY, Nicholas

33: AU 31: 2019901972 32: 2019-06-06

54: DOWN HOLE MEASUREMENT SYSTEM

00: -

A bore hole measurement system comprises a cable comprising spaced apart embedded elements along a length of the cable; a sensor for detection of the elements as they move relatively past the sensor; and a processor for determining the distance that the cable has travelled based on the detections of elements that have moved past the sensor. A method comprises detecting the elements moving past a sensor; and determining the distance that the cable has travelled based on the detections of elements that have moved past the sensor.



21: 2021/09977. 22: 2021/12/03. 43: 2022/07/04

51: H04N

71: Huawei Technologies Co., Ltd.

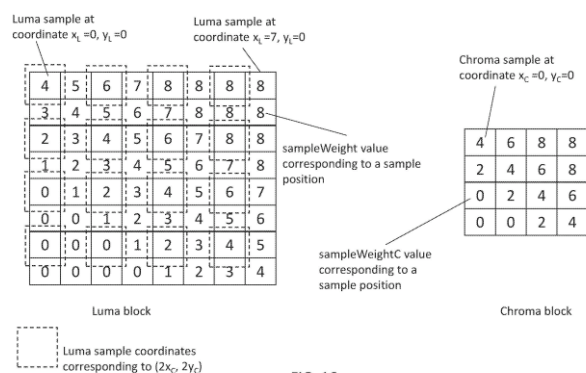
72: ESENLIK, Semih, BLAESER, Max, ZHAO, Zhijie, GAO, Han, KOTRA, Anand Meher, WANG, Biao, ALSHINA, Elena Alexandrovna

33: PCT/EP(DE) 31: 2019/066516 32: 2019-06-21

54: CHROMA SAMPLE WEIGHT DERIVATION FOR GEOMETRIC PARTITION MODE

00: -

A method of coding implemented by a decoding device, comprising obtaining a value of a parameter for a current block, the value of the parameter indicating a partition mode for the current block; obtaining a first prediction mode for the current block; obtaining a second prediction mode for the current block; generate a first prediction value for a chroma sample in the current block according to the first prediction mode; generate a second prediction value for a chroma sample in the current block according to the second prediction mode; obtaining a combined value of prediction samples by combining the first prediction value and the second prediction value.



21: 2021/09985. 22: 2021/12/03. 43: 2022/07/04
51: E21D

71: HOLFELD, Barry Graeme

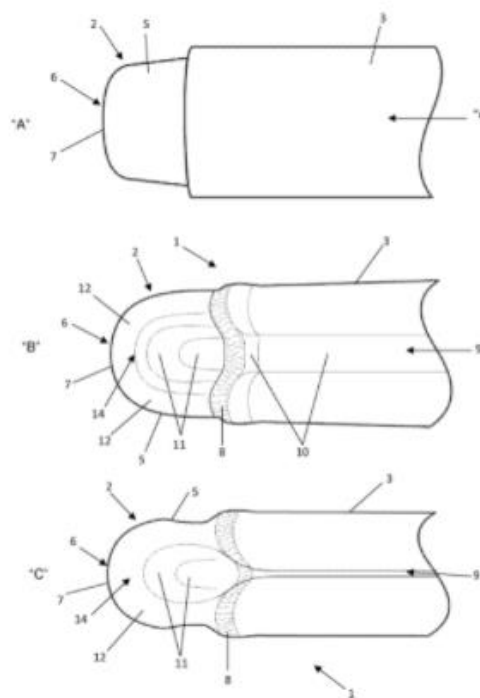
72: HOLFELD, Barry Graeme

33: ZA 31: 2019/02816 32: 2019-05-06

54: AN INFLATABLE ROCK BOLT

00: -

The invention relates to an inflatable rock bolt (1) and a method of manufacture. A cap (2) is welded onto an end of the pipe (3). A fold (9) is formed from a first side of the rock bolt (1), extending along a length of the pipe (3). A bottom (10) of the fold (9) is formed to extend from the pipe (3) into a sidewall (5) of the cap (2) and outwardly towards the first side to a position separated by a ridge (12) from a first portion (13) of the end wall that remains outside the fold (9), with a second portion (14) of the end wall drawn into the fold (9).



21: 2021/10046. 22: 2021/12/06. 43: 2022/07/04
51: A61K; A61Q; C11B

71: Givaudan SA

72: BRIERE, Thomas, BROOKS, Julia, KONTARIS, Ioannis, MAGEE, Kristopher George, PLEYDELL-PEARCE, Christopher

33: GB 31: 1909221.2 32: 2019-06-27

54: IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS

00: -

A method of assessing the impact of a test perfume composition on the well-being of human subjects is provided, as well as a method of preparing or optimizing a perfume composition for enhancing the well-being of a human subject, perfume compositions that enhance the well-being, and consumer products containing them.

21: 2021/10050. 22: 2021/12/06. 43: 2022/07/04
51: C10L

71: Mazoil Technologies Limited

72: WACHTEL, Peter, FOOTE, Arthur R.

33: US 31: 62/852,779 32: 2019-05-24

54: ADDITIVE FORMULATION AND METHOD OF USING SAME

00: -

A fuel additive formulation, method of use, and method of producing the fuel additive formulation are

described. The fuel additive of the present disclosure comprises a mixture of nitroparaffins comprising nitropropane and nitromethane, a lubricant, and an aromatic hydrocarbon. The fuel additive formulation is substantially free of nitroethane. The combustion in an internal combustion engine of a fuel containing the additive results in reduced emissions relative to the combustion of a fuel not containing the additive.

21: 2021/10097. 22: 2021/12/07. 43: 2022/07/07
 51: E03B; F24D
 71: LTZ - Zentrum Für Luft- Und Trinkwasserhygiene GmbH

72: BAWEY, Roberto, OPITZ, Patric, HEINECKE, Olaf

33: PCT/EP(DE) 31: 2019/062547 32: 2019-05-15

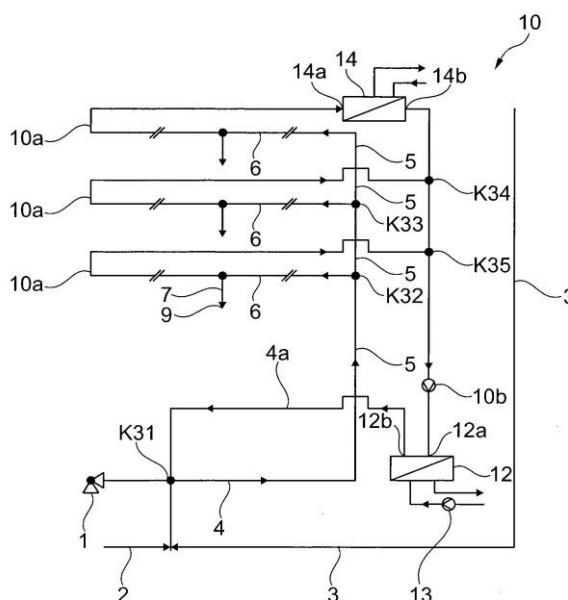
54: METHOD FOR OPERATING A TEMPERATURE-CONTROLLED CIRCULATION SYSTEM AND TEMPERATURE-CONTROLLED CIRCULATION SYSTEM

00: -

The invention relates to a method for operating a circulation system (10) comprising a heating device having an inlet port and an outlet port for controlling the temperature of water, and comprising a pipe system having a plurality of strings which include one or more sections of a given thermal coupling to the surroundings and are connected by means of nodes, one or more of the pipes of the pipe system being designed as a supply pipe (4, 5, 6), at least one individual delivery pipe (7) connected to a removal point (9) and at least one pipe designed as a circulation pipe (10a) being connected to the supply pipe(s) (4, 5, 6), said method comprising the steps: - setting a water temperature at the outlet port to a value T_a by means of the heating device; - setting a volumetric flow rate at the inlet port to a value V_z , and comprising the following steps: - determining, in particular calculating, a temperature change of the water between the start region and the end region according to a model of the axial temperature change for the first section connected to the outlet port, starting from a temperature start value TMA^* and a volumetric flow rate start value Vz^* ; - determining, in particular calculating, a temperature change of the water between the start region and the end region for each further given section according to the model of the temperature change, subject to the boundary condition that the water temperature in the start region of the given

section is the same as the water temperature in the end region of the section to which the given section is connected; and - selecting the value T_a of the water temperature and the value V_z of the volumetric flow rate at the outlet port in such a way that in the end region of each section the water temperature TME is in a specified temperature range around T_{soll} , in particular at the inlet port (12a, 14b) the water temperature $T_b < T_{soll}$ is set with $T_{soll} - T_b < T$, where $T > 0$ is a specified value.

Furthermore, the invention also relates to a circulation system for carrying out the method.



21: 2021/10101. 22: 2021/12/07. 43: 2022/07/04
 51: A61J; B67C; G16H

71: Catalent U.K. Swindon Zydis Limited
 72: WADDINGTON, David, WORT, Matthew, ARNEIL, Katherine

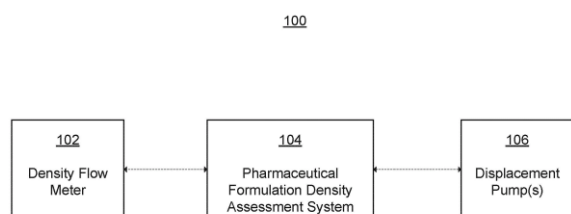
33: US 31: 62/881,145 32: 2019-07-31

54: DENSITY FLOW METER FOR PHARMACEUTICAL FORMULATION DOSING

00: -

Provided are systems and method for dosing a pharmaceutical formulation. These methods and systems can displace the pharmaceutical formulation through a density flow meter, wherein the density flow meter is configured to measure a density of the pharmaceutical formulation. Next, the pharmaceutical formulation can be dosed into preformed molds and the dosing process can be stopped when the density of the pharmaceutical

formulation measured by the density flow meter is below a predetermined threshold.

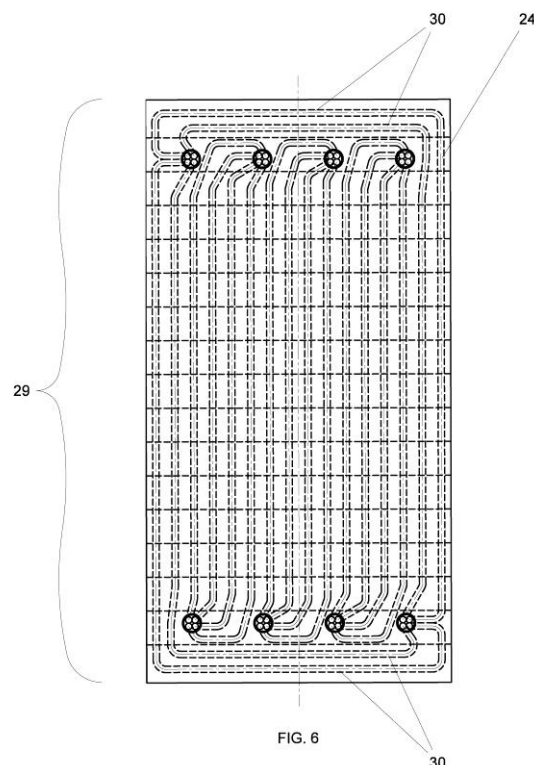


21: 2021/10117. 22: 2021/12/07. 43: 2022/07/07
 51: C21B; F27B; F28F
 71: CECAL TECNO INDÚSTRIA E COMÉRCIO DE EQUIPAMENTOS SOB ENCOMENDA LTDA.
 72: GERONIMI, Carlo Lorenzo

54: MULTI-CHANNEL COOLED PANEL FOR BLAST FURNACES AND OTHER INDUSTRIAL FURNACES

00: -

This present invention is a cooled panel (23) used on the walls of blast furnaces (1) and other industrial furnaces consisting of a body (25) of copper, cast iron or other metal alloy, independent internal cooling channels (24) and protection sleeves (26) attached to the panel body and the pipes (27) that link the couplings to the internal cooling channels (24). The cooled panel (23) features the amount of internal cooling channels (24) greater than the number of coupling sets (31), which are connected to the furnace water system feeding and return (35).



21: 2021/10183. 22: 2021/12/09. 43: 2022/09/06
 51: C22C
 71: SHANDONG JIAOTONG UNIVERSITY
 72: YUEJUN SUN, LI ZHONG, NA SU, LEI WANG, YAN JING, GUANGHUA YAN
54: MULTI-PHASE REINFORCED HIGH-STRENGTH ALUMINIUM ALLOY MATERIAL AND PREPARATION METHOD THEREOF

00: -

A multi-phase reinforced high-strength aluminum alloy material and a preparation method thereof. The aluminum alloy includes the following components in percentage by mass: 1.25 to 1.65% of Mg, 4.20 to 4.65% of Si, 0.07 to 0.15% of Fe, 0.25 to 0.45% of Mn, 4.30 to 4.62% of Zn, 0.15 to 0.30% of Cr, and 0.61-0.83% of Ti, 0.01-0.75% of B, 0.09-0.15% of Cu and the Al being the balance. The preparation method includes the following steps of: melting the alloy, casting and molding, carrying out heat treatment, and carrying out hot extrusion. The invention has the advantages of good flowability of the alloy, high strength, simple forming process and the like.

21: 2021/10218. 22: 2021/12/09. 43: 2022/07/27

51: A61H

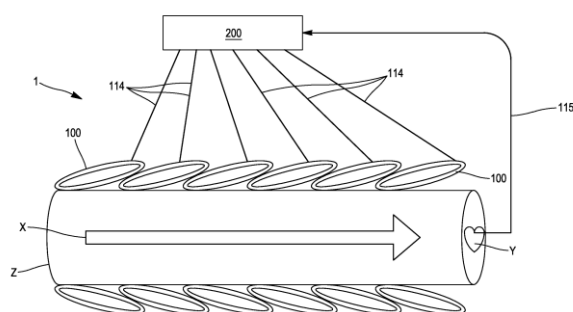
71: CARDIO INNOVATIVE SYSTEMS

72: LE BLE, Renan, DIXMIER, Michel,
CHASTANIER, Pierre, BAILLIART, Olivier

54: NON-INVASIVE PULSATILE DEVICE FOR CIRCULATORY ASSISTANCE

00: -

The invention relates to a non-invasive, pulsatile circulatory assistance device (1) designed to promote a circulation of a blood volume in at least one portion (Z) of the body of a subject, the device comprising: - a flexible structure (100) arranged so as to be applied to at least the portion of the body of the subject, comprising a series of paired adjacent pockets (100) extending along one another; and - means for generating (200) a physiologically synchronized pulsation, fluidly connected to the flexible structure in a sealed manner and arranged so as to create pulsation waves in the series of pockets between the internal and external layers, one of the paired adjacent pockets at least partially covering the other of the paired adjacent pockets (fish-scale mounting).



21: 2021/10394. 22: 2021/12/14. 43: 2022/07/07

51: B66F

71: MANITOU ITALIA S.R.L.

72: IOTTI, MARCO

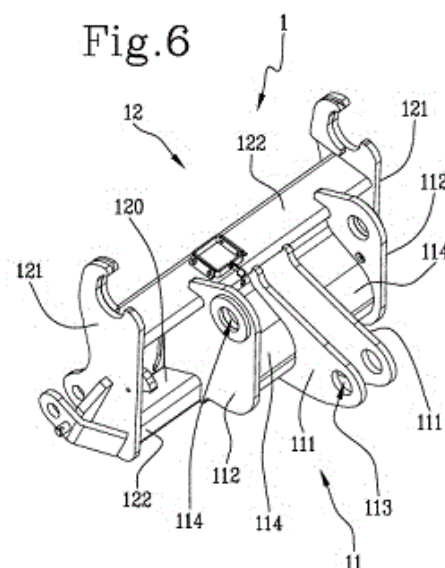
33: IT 31: 102020000031643 32: 2020-12-21

54: QUICK COUPLING WITH IMPROVED VISIBILITY

00: -

Described is an attachment device (1) for telehandlers (100) designed to be connected to an operating arm (101) and comprising a front frame (12) designed for removably attaching an accessory (102) for engaging a load, such as a fork, a side shift carriage, a winch or a loading platform. The frame comprises two lateral sides (121) and two

crosspieces (122), of which one upper and one lower, which join the side elements (121) to each other. One or more crosspieces (122) have an oblique inner side (120) relative to a horizontal plane.



21: 2021/10424. 22: 2021/12/14. 43: 2022/07/07

51: H04B H04L

71: ST ENGINEERING IDIRECT (EUROPE) CY NV

72: ROLLE, Alain, DELBEKE, Philippe

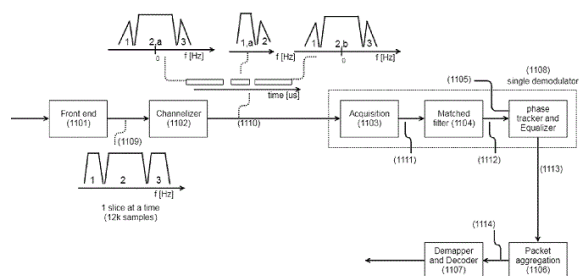
33: EP 31: 19188950.0 32: 2019-07-29

54: SATELLITE COMMUNICATION SYSTEM

00: -

The present invention relates to a system (100) for communication via satellite (102) between a gateway (101) and a plurality of terminals (103). The system comprises : - a controller device (106) to calculate a time-frequency plan of burst signals from a terminal and to transmit transmit, based on the time-frequency plan, to the terminal information comprising configuration information on transmit burst signals - a multi-carrier demodulator structure (107) arranged to receive a resulting signal (104) comprising one or more receive signals and arranged to receive receive information for the receive signals, said multi-carrier demodulator structure comprising one or more multi-carrier demodulator devices, each with - a channelizer (1002) to serialize the receive signals, yielding a serialized stream of sample segments corresponding to the receive signals, - a processing block to receive that stream of sample segments and to

perform * demodulation of the sample segments based on the sample segment content, on a state indicative of the receive signal to which the sample segment belongs and on said receive information, * pre-FEC word aggregation, * demapping and decoding.



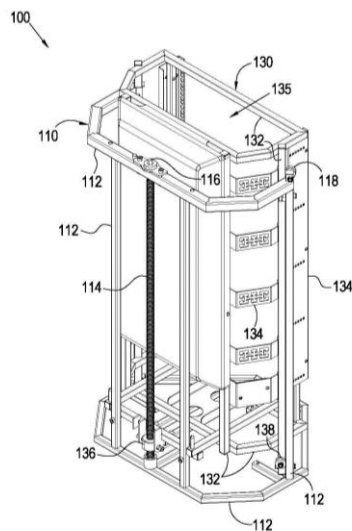
21: 2021/10439. 22: 2021/12/14. 43: 2022/07/07
51: H02G; H05K

71: SMART LOCKING LOGIC (PTY) LTD
72: OLIVIER, Johan, VAN ASWEGEN, Marlene
33: ZA 31: 2019/05179 32: 2019-08-06

54: A CABLE MANAGEMENT SYSTEM AND ASSEMBLY

00: -

A cable management system for an enclosed chamber includes a fixed member which has attachment formations associated therewith for attachment to the enclosed chamber and a displaceable member which is displaceable relative to the fixed member between at least an extended condition and a retracted condition and which has cable fixing formations. The cable management system includes a guide mechanism for guiding the relative displacement of the displaceable member relative to the fixed member, wherein the cable fixing formations are configured to fix at least one cable at a first point to the displaceable member, such that displacement of the displaceable member causes the cable to be displaced therewith. The cable management system may also form part of a cable management assembly which includes an enclosed chamber to which the fixed member is attached or attachable.



21: 2021/10444. 22: 2021/12/15. 43: 2022/07/07
51: A61K; C08B; A61P

71: INSTITUTE OF FRUIT TREE RESEARCH,
GUANGDONG ACADEMY OF AGRICULTURAL
SCIENCES

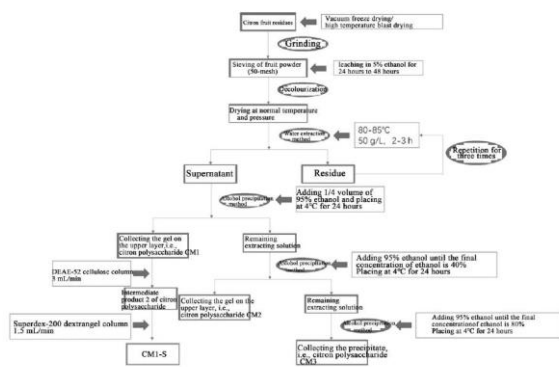
72: FAN, Ruiyi

33: CN 31: 202011644426.2 32: 2020-12-30

54: CITRON POLYSACCHARIDE, EXTRACTION METHOD AND APPLICATION THEREOF

00: -

This disclosure disclosed a citron polysaccharide, an extraction method and application thereof. A structural formula of such citron polysaccharide is shown in formula I. The extraction and purification methods comprises: leaching citron fruits to remove pigments and other small molecule impurities, carrying out a water extraction on the citron fruits obtained in the step (1) at 80°C to 85°C to obtain a water extract, and carrying out an ethanol extraction to obtain the citron polysaccharide. Such novel citron polysaccharide can stimulate the increase production of nitric oxide (NO) in both time- and dose-dependent ways in macrophages through the promotion of immune response, and also stimulate the secretion of pro-inflammatory cytokines TNF- α and IL-6, which therefore enhance the immunity of the organism. The extraction and purification method of this disclosure is simple and efficient.



21: 2021/10570. 22: 2021/12/17. 43: 2022/07/28

51: C05C; C05G; C09D

71: Glaze Coatings Limited

72: ZANDER, Murray Selwin, ZANDER, Regan James

33: NZ 31: 756188 32: 2019-08-08

33: NZ 31: 760305 32: 2019-12-24

54: IMPROVEMENTS IN AND RELATING TO FERTILISER COMPOSITIONS

00: -

An aqueous urease inhibitor and/or nitrification inhibitor formulation including: i) an aqueous wax dispersion comprising: substantially 10-50% by weight high melting point emulsifying wax; water to make up to 100%; ii) at least one inhibitor active; wherein the amount of inhibitor active(s) is/are: 1wt% -30wt% of the aqueous wax dispersion at i); iii) a dispersing clay; wherein the amount of dispersing clay is 5wt% -50wt% of the aqueous wax dispersion at i).

21: 2021/10612. 22: 2021/12/17. 43: 2022/07/07

51: B01F

71: YOO, Young Ho

72: YOO, Young Ho, YOO, Tae Geun, YOO, A Ram

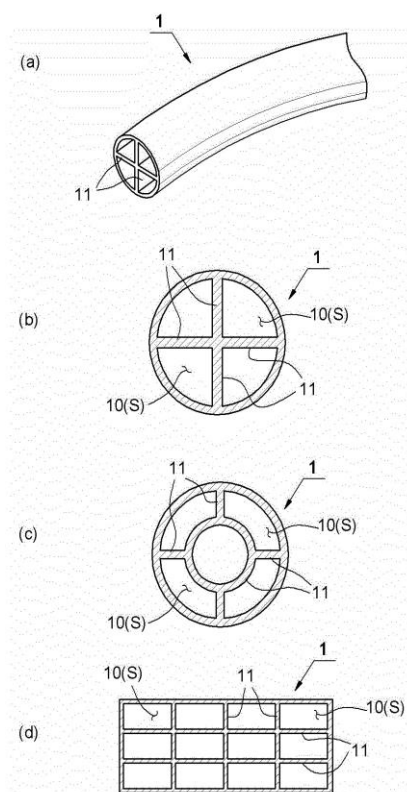
33: KR 31: 10-2019-0064273 32: 2019-05-31

54: FLOW PATH MEMBER FOR GENERATING NANO-BUBBLES, AND INTEGRATED FLOW PATH UNIT AND NANO-BUBBLE GENERATOR USING SAME

00: -

The present invention relates to a flow path member for generating nano-bubbles, and an integrated flow path unit and a nano-bubble generator using the flow path member, wherein, in the flow path member, the frictional area per volume of a fluid is maximized by increasing the circumference of a cross-section of a flow path with respect to a cross-sectional area of

the flow path, the length of a single flow path can be continuously formed to tens of meters or greater without connection, and high-density integration is possible, so as to remarkably improve the ability to generate nano-bubbles. To implement this, the flow path member for generating nano-bubbles according to the present invention has a body formed as a single tube which is bendable, and one or more partition walls for partitioning a flow path space, which are integrally and successively formed in the flow path in the flow direction in order to expand the surface area and the frictional area of the fluid. The body is formed of any one having excellent ductility from among silicon, rubber material, and soft resin material to be freely bent and wound, and is manufactured by extrusion molding such that the partition walls are successively formed in the lengthwise direction of the body.



21: 2021/10621. 22: 2021/12/20. 43: 2022/07/07

51: H02N

71: ROSSI, Andrea

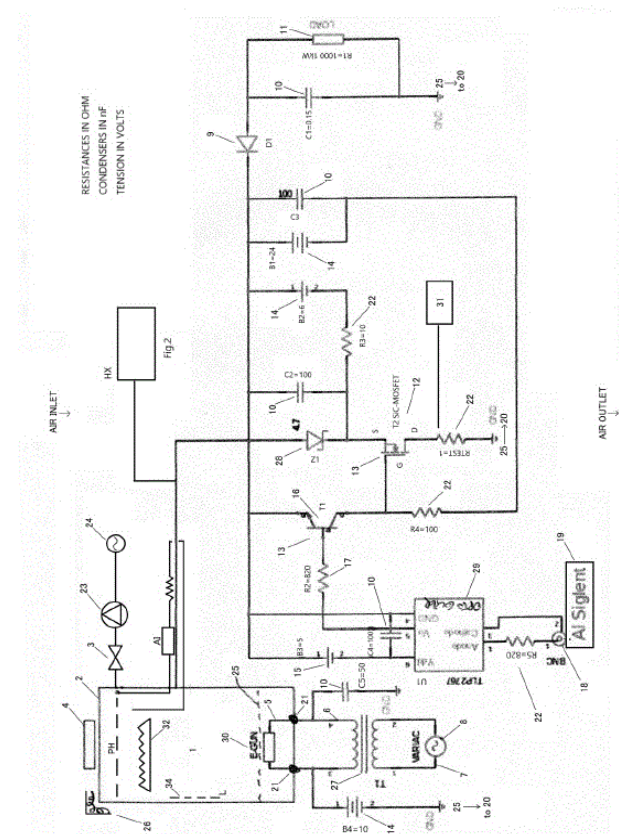
72: ROSSI, Andrea

33: JP 31: 2021-096283 32: 2021-06-09

54: ELECTRIC ENERGY GENERATOR AND ELECTRIC ENERGY GENERATION METHOD

00: -

An electricity generator set made by a conductive hollow enclosure, made by metals or quartz containing conductors, connected with a power source that powers an electron gun made by a tungsten-hafnium alloy, upon which is a grid, so that the electrons hit a target at the opposite side, while a magnet forces the electrons to run in straight line toward the target, and the enclosure is grounded until its hollow is saturated, so that when it is saturated MOSFET impedes the electrons to go to ground, and a diode has to allow the electrons to go to a capacitor and from the capacitor to a load.

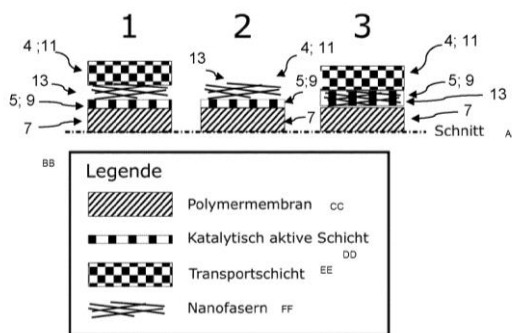


21: 2021/10680. 22: 2021/12/20. 43: 2022/07/07
 51: C25B
 71: HAHN-SCHICKARD-GESELLSCHAFT FÜR ANGEWANDTE FORSCHUNG E.V.
 72: HEGGE, Friedemann, BREITWIESER, Matthias, LOMBECK, Florian, VIERRATH, Severin
 33: DE 31: 10 2019 115 469.3 32: 2019-06-07
 33: EP 31: 19194885.0 32: 2019-09-02
54: ELECTRICALLY CONDUCTIVE NANOFIBRES FOR POLYMER MEMBRANE-BASED ELECTROLYSIS

00: -

The invention relates to an electrolysis cell for generating hydrogen and oxygen, with a layer system comprising at least one pair of catalytically active layers between which a polymer membrane is arranged, the layer system comprising electrically conductive ceramic or metallic nanofibres. The layer system comprises a pair of catalytically active layers, and transport layers close to the anode and/or cathode, wherein the pair of catalytically active layers comprises catalytically active nanoparticles and wherein an intermediate layer comprising ceramic or metallic nanofibres is present between one of the catalytically active layers and one of the transport layers, or metallic or ceramic nanofibres are present within one of the catalytically active layers in addition to the catalytically active nanoparticles, to increase transversal conductivity or contacting of the catalytically active nanoparticles. The nanofibres here can be catalytically active themselves, or catalytically inactive.

Abb. 3

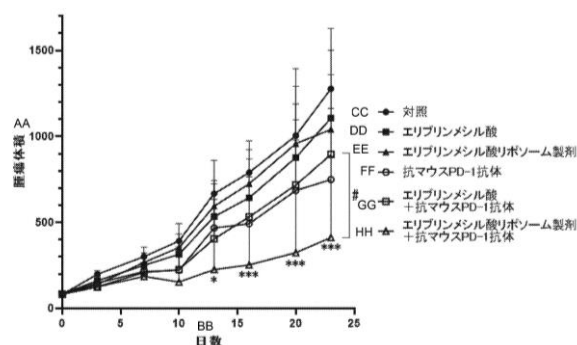


AA Section
 BB Key
 CC Polymer membrane
 DD Catalytically active layer
 EE Transport layer
 FF Nanofibres

21: 2021/10686. 22: 2021/12/20. 43: 2022/07/08
 51: A61K; A61P
 71: Eisai R&D Management Co., Ltd., Ono Pharmaceutical Co., Ltd.
 72: SEMBA, Taro, FUNAHASHI, Yasuhiro, SUZUKI, Takuya
 33: JP 31: 2019-138041 32: 2019-07-26
54: PHARMACEUTICAL COMPOSITION FOR TREATING TUMOR

00: -

In the present invention, the combined administration of a liposome composition containing eribulin or a pharmaceutically acceptable salt thereof and a PD-1 antagonist exhibits an unexpected anti-tumor effect.



AA Tumor volume
BB Number of days
CC Control
DD Eribulin mesylate
EE Eribulin mesylate liposome pharmaceutical preparation
FF Anti-mouse PD-1 antibody
GG Eribulin mesylate + anti-mouse PD-1 antibody
HH Eribulin mesylate liposome pharmaceutical preparation + anti-mouse PD-1 antibody

21: 2021/10687. 22: 2021/12/20. 43: 2022/07/07

51: C08K; C09D; C09F

71: Akzo Nobel Coatings International B.V.

72: BOOTSMA, Johan, DE BRUIN, Bas, FLAPPER, Jitte

33: EP(NL) 31: 19184519.7 32: 2019-07-04

54: COATING COMPOSITION COMPRISING AN AUTOXIDIZABLE RESIN AND AN IRON-LIGAND COMPLEX, SUBSTRATE COATED WITH SUCH COATING COMPOSITION, AND USE OF SUCH IRON-LIGAND COMPLEX

00: -

The invention relates to a coating composition comprising an autoxidizable binder and an iron-ligand complex as drier, wherein the iron-ligand complex comprises an iron cation and an optionally substituted cyclopentadienyl group as ligand, and a further ligand other than a cyclopentadienyl group, wherein the molar ratio of iron cation to cyclopentadienyl group is 1:1. The invention further relates to a substrate coated with a coating deposited from such coating composition and to use of such iron-ligand complex in a coating composition comprising an autoxidizable resin to enhance drying of the coating composition.

21: 2021/10720. 22: 2021/12/21. 43: 2022/07/18
51: C09K

71: STEERLIFE INDIA PRIVATE LIMITED

72: BHUSHAN, Indu, RAO, Vinay, SHETTY, Rakshith

33: IN 31: 201841048298 32: 2018-12-20

54: A PROCESS FOR PREPARING CHEMICALLY MODIFIED BICARBONATE SALT PARTICLES

00: -

The present disclosure relates to a method for chemically modifying particles of a bicarbonate salt in a co-rotating twin-screw extruder and chemically modified bicarbonate particles prepared therefrom. The present disclosure also relates to a method for controlling an amount of carbonate salt formed during chemical modification of bicarbonate salt particles.

21: 2021/10732. 22: 2021/12/21. 43: 2022/07/06

51: A61K; C07D; A61P

71: BEIGENE, LTD.

72: LI, Jing, WANG, Zhiwei, XU, Sanjia

33: CN 31: PCT/CN2019/094749 32: 2019-07-04

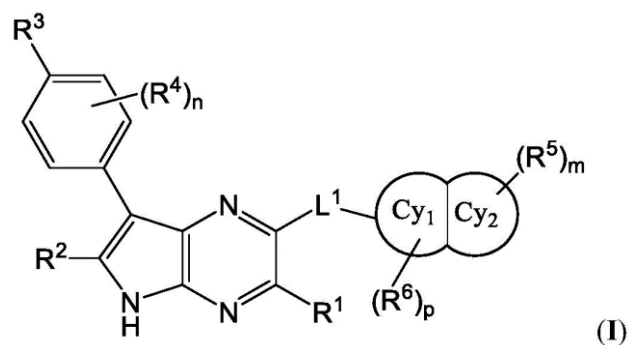
33: CN 31: PCT/CN2019/123268 32: 2019-12-05

33: CN 31: PCT/CN2020/089498 32: 2020-05-09

54: PYRROLO [2, 3-B] PYRAZINES AS HPK1 INHIBITOR AND THE USE THEREOF

00: -

Disclosed herein is a compound of Formula (I), or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof, and pharmaceutical compositions comprising thereof. Also disclosed is a method of treating HPK1 related disorders or diseases by using the compound disclosed herein.



21: 2021/10760. 22: 2021/12/22. 43: 2022/09/06

51: C12N

71: ZHANGYE YINONG AGRICULTURAL TECHNOLOGY CO., LTD., ZHANGYE ACADEMY OF AGRICULTURAL SCIENCES

72: ZHAO, Xiangtian, WANG, Chan, ZHAO, Limei, LIANG, Shuangling, ZHANG, Yu, MA, Haiyuan, WANG, Yong

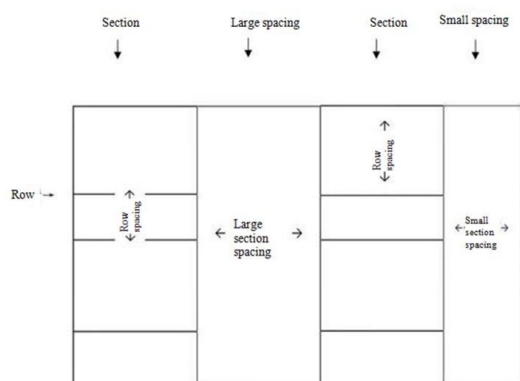
33: CN 31: 202110898030.9 32: 2021-08-05

54: PLANTING METHOD FOR IDENTIFYING COMBINING ABILITIES OF MAIZE DH LINES

00: -

Disclosed is a planting method for identifying combining abilities of maize DH lines including:

dividing to-be-identified maize DH lines into three types of early, ripening and late ripening according to ripe stages based on leaf numbers of the DH lines; dividing each type of the DH lines into an NSS and an SS group according to heterotic groups; after the types are divided, planting the DH lines in planting regions of corresponding ripe stages and consanguinities. 5-8 planting holes are in each line planting land. Pollination is conducted according to a section direction; the same pollen can be pollinated to female ears of different DH lines; the pollen is difficult to be polluted; errors are easily avoided; The maize is harvested according to a row direction; different combinations of the same DH line may be harvested into the same group; the groups are clear during subsequent combining ability identification.



21: 2021/10762. 22: 2021/12/22. 43: 2022/07/06
51: A61K

71: PHARMATHEN S.A.

72: KARAVAS, Evangelos, KOUTRIS, Efthymios, SAMARA, Vasiliki, KOUTRI, Ioanna, KALASKANI, Anastasia, KAKOURIS, Andreas, FOUSTERIS, Manolis, KAPETANAKIS, Antonis

54: PROLONGED RELEASE TABLETS COMPRISING RANOLAZINE AND METHOD OF PREPARATION THEREOF

00: -

The present invention relates to a prolonged release solid dosage form comprising Ranolazine or a pharmaceutically acceptable salt thereof and a method of preparation thereof. The preferred dosage form of the present invention is a tablet. The solid dosage form of the present invention is shown to exhibit a prolonged drug release profile in an aqueous medium.

21: 2021/10803. 22: 2021/12/22. 43: 2022/07/07
51: A61K; A61P

71: Hangzhou DAC Biotech Co., Ltd

72: ZHAO, Robert Yongxin, YANG, Qingliang, ZHAO, Linyao, HUANG, Yuanyuan, YE, Hangbo, GAI, Shun, JIA, Junxiang, BAI, Lu, LI, Wenjun, GUO, Zhixiang, LIN, Chen, ZHENG, Jun, GUO, Huihui, CAO, Minjun, KONG, Xiangfei, DU, Yong, XU, Yifang, ZHOU, Xiaomai, XIE, Hongsheng, ZHANG, Xiuzhen, CHEN, Miaomiao, LIU, Xiaolei, CAI, Xiang, CHEN, Binbin, YANG, Yanlei, ZHANG, Lingli

54: A CONJUGATE OF A CYTOTOXIC AGENT TO A CELL BINDING MOLECULE WITH BRANCHED LINKERS

00: -

Provided is a conjugation of cytotoxic drug to a cell-binding molecule with a side-chain linker. It provides side-chain linkage methods of making a conjugate of a cytotoxic molecule to a cell-binding ligand, as well as methods of using the conjugate in targeted treatment of cancer, infection and immunological disorders.

21: 2021/10875. 22: 2021/12/23. 43: 2022/07/07
51: H04N

71: Huawei Technologies Co., Ltd.

72: SETHURAMAN, Sriram, KOTECHA, Sagar, A, Jeeva Raj, ESENLIK, Semih

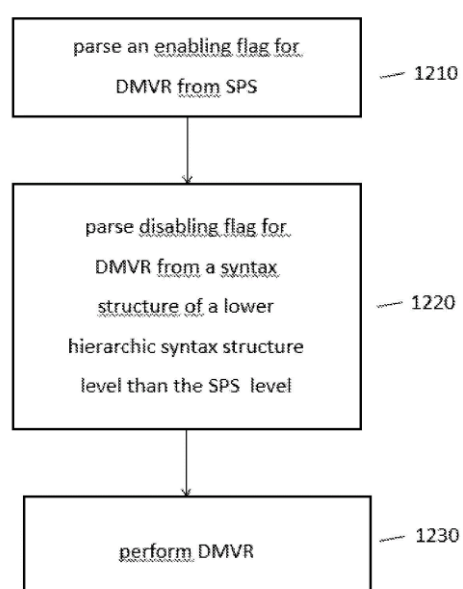
33: IN 31: 201931024825 32: 2019-06-21

54: AN ENCODER, A DECODER AND CORRESPONDING METHODS

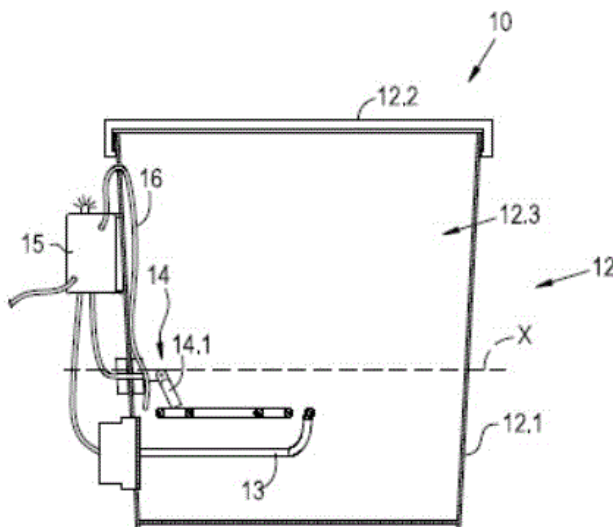
00: -

It is provided a method of decoding a video bitstream implemented by a decoding device, the video bitstream including coded data for a plurality of pictures, wherein it is indicated by a flag whether or not decoder motion vector refinement processing or bi-directional optical flow processing is enabled or not. The decoding method comprises: parsing an enabling flag for decoder motion vector refinement, DMVR, from a sequence parameter set of the video bitstream, wherein the enabling flag for DMVR specifies whether or not DMVR based inter bi-prediction is enabled for the plurality of pictures associated with the sequence parameter set; parsing a disabling flag for DMVR from a syntax structure of a lower hierarchic syntax structure level than the sequence parameter set, SPS, level of the video bitstream, wherein the disabling flag for DMVR specifies whether or not DMVR based inter bi-

prediction is disabled for at least one region of a current picture associated with the syntax structure, wherein the current picture belongs to the plurality of pictures; and performing DMVR based inter bi-prediction for a current block within at least one region of the current picture to obtain predicted sample values of the current block when at least one pre-defined condition is fulfilled, and wherein the at least one pre-defined condition comprises that the parsed value of the disabling flag specifies that DMVR based inter bi-prediction is enabled for at least one region of the current picture.



is configured to open and thus interrupt power supply to the heating element when a water level falls below the switch. The water heater also includes a thermostat 16 coupled to the controller for regulating temperature of the water.



21: 2022/00136. 22: 2022/01/03. 43: 2022/08/01
51: C11B

71: Guiyang Xinqi Microwave Industry Limited Liability Company

72: WU, Qi, WU, Jing

33: CN 31: 202110162712.3 32: 2021-02-05

54: DEVICE AND METHOD FOR COLLECTING AROMATIC WATER OF FLOWERS THROUGH LOW-TEMPERATURE MICROWAVE HEATING CONDENSATION

00: -

The invention discloses a device for collecting aromatic water of flowers through low-temperature microwave heating condensation, comprising a microwave vacuum drying device and fresh flower drying trays placed in the microwave vacuum drying device; the top of the microwave vacuum drying device is connected to a condenser through evaporating water outlets; the upper part of the condenser is connected to a buffer tank through vacuum pipelines and valves; the lower part of the condenser is connected to an aromatic water collection tank through an aromatic water collection pipe; the middle part of the buffer tank is connected to a vacuum pump through a one-way valve. The invention utilizes the evaporating vapor to increase in volume, and the volume is restored by condensing the vapor into water. The original vacuum degree in

21: 2021/10918. 22: 2021/12/24. 43: 2022/07/06
51: F24H; H05B

71: FEUKEU, Etienne Alain

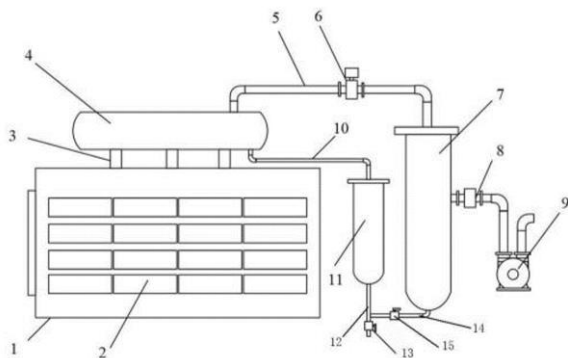
72: FEUKEU, Etienne Alain

54: A water heater

00: -

This invention relates to a water heater 10 which includes a water bucket 12 defining an inner cavity 12.3 for holding water. The water heater 10 further includes a controller 15 which is connected to mains power and is configured to control power supply to an electrical heating element 13 disposed within the inner cavity 12.3. To prevent burnout of the heating element 13 when there is no water in the bucket 12, the water heater 10 includes a water sensor in the form of a Reed float switch 14 which is coupled as an input to the controller 15. The float switch is provided marginally above the heating element and

the device is basically maintained to extract aromatic water, so that the entire process of drying, condensation, and collection is in a vacuum state. At the same time, the aromatic water is collected in a closed container. As a result, there is almost no loss of floral fragrance, and the collected pure floral perfume reaches more than 98%.



21: 2022/00160. 22: 2022/01/03. 43: 2022/08/01
51: A61J; A61L; B32B
71: CEVA SANTE ANIMALE
72: LACOSTE, Sandrine, GUIMBERTEAU, Florence
33: FR 31: 1906965 32: 2019-06-26

54: POLYMER PACKAGING AND USE THEREOF FOR PRESERVING A PHARMACEUTICAL COMPOSITION

00: -

The present invention concerns packaging for preserving a sterile pharmaceutical composition, comprising at least an inner layer of polypropylene having a thickness of between 200 and 800 μm and an outer layer made from polyethylene, the outer layer being in contact with the environment and having a thickness of between 300 and 1000 μm . The invention also concerns a method for the sterile preservation of a pharmaceutical composition using such packaging.

21: 2022/00168. 22: 2022/01/03. 43: 2022/08/01
51: A01N; C12N; C12R; A01P
71: Institute of Medicinal Biotechnology, Chinese Academy of Medical Sciences
72: Yuqin, ZHANG, Yang, DENG, Hongyu, LIU, Liyan, YU
33: WO 31: PCT/CN2021/078612 32: 2021-03-02
33: CN 31: 202010150659.0 32: 2020-03-06

54: NEW SPECIES OF STENOTROPHOMONAS AND APPLICATION THEREOF

00: -

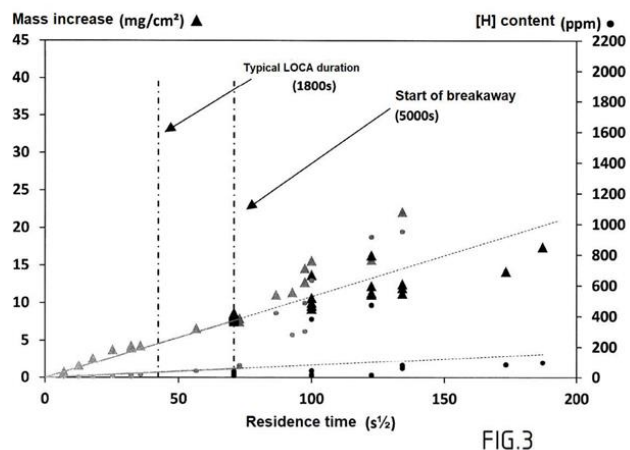
The present invention discloses a new species of stenotrophomonas and its application. The new species of stenotrophomonas claimed by the present invention is specifically nematode endophytic *Stenotrophomonas nematodicola* W5, with a preservation number of CGMCC No.19401 in China General Microbiological Culture Collection Center. The nematode endophytic *Stenotrophomonas nematodicola* W5 provided by the present invention has a nematode probiotic function. In a soil environment particularly, an appropriate amount of nematodes helps maintain the stability of the soil ecological system. People can make full use of the nematodes probiotic function of strain W5. When excessive multiplication of nematodes causes forestry disasters, the strain W5 can be used as a target to prepare a preparation for attracting and killing nematodes when disinfecting and killing harmful nematodes. The present invention will have a wide application prospect in the agriculture and forestry biocontrol.

21: 2022/00222. 22: 2022/01/04. 43: 2022/08/01
51: C22C; G21C
71: FRAMATOME
72: BARBERIS, Pierre, LEGRAND, Philippe
33: FR 31: 1907524 32: 2019-07-05

54: TUBULAR COMPONENT OF PRESSURISED WATER NUCLEAR REACTOR, AND METHOD FOR MANUFACTURING SAID COMPONENT

00: -

Tubular component for a pressurised-water nuclear reactor, having the following composition by weight:
- $0.8\% \leq \text{Nb} \leq 2.8\%$; - traces $\leq \text{Sn} \leq 0.65\%$;
- $0.015\% \leq \text{Fe} \leq 0.40\%$; preferably $0.020\% \leq \text{Fe} \leq 0.35\%$; - traces $\leq \text{C} \leq 100 \text{ ppm}$; - $600 \text{ ppm} \leq \text{O} \leq 2300 \text{ ppm}$; preferably $900 \text{ ppm} \leq \text{O} \leq 1800 \text{ ppm}$;
- $5 \text{ ppm} \leq \text{S} \leq 100 \text{ ppm}$; preferably $8 \text{ ppm} \leq \text{S} \leq 35 \text{ ppm}$; - traces $\leq \text{Cr} + \text{V} + \text{Mo} + \text{Cu} \leq 0.35\%$;
- traces $\leq \text{Hf} \leq 100 \text{ ppm}$; - $\text{F} \leq 1 \text{ ppm}$; the remainder being zirconium and impurities resulting from production, and has an outer surface with a roughness R_a less than or equal to $0.5 \mu\text{m}$, obtained following a final mechanical polishing step, characterised in that its outer surface has a roughness $R_{sk} \leq 1$ in absolute value and a roughness $R_{ku} \leq 10$. A method for obtaining said component



21: 2022/00284. 22: 2022/01/05. 43: 2022/08/04
 51: C12Q
 71: SAFEGUARD BIOSYSTEMS HOLDINGS LTD.
 72: Holger KLAPPROTH, Sonja BEDNAR
 33: US 31: 62/876,413 32: 2019-07-19
 33: US 31: 63/004,664 32: 2020-04-03

54: DETECTION OF GENOMIC SEQUENCES USING COMBINATIONS OF PROBES, PROBE MOLECULES AND ARRAYS COMPRISING THE PROBES FOR THE SPECIFIC DETECTION OF ORGANISMS

00: -
 Methods of identifying homologous genomic sequences that may be present in a sample utilizing combinations of probes binding differently to genomic sequences from different organisms, arrays for distinguishing homologous genomic sequences, systems for distinguishing homologous genomic sequences, and bacteria binding probe molecules useful in the methods, arrays, and systems.

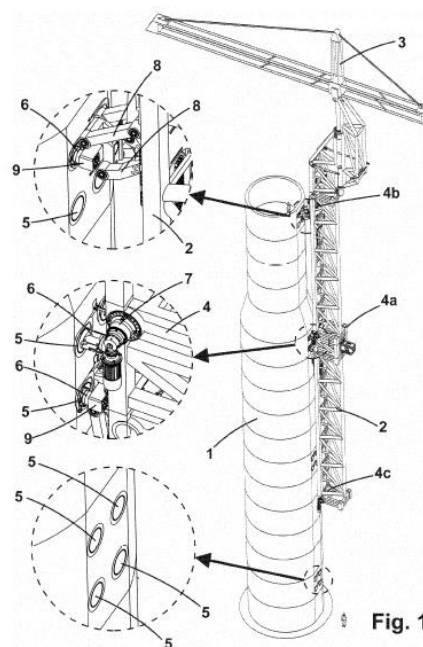
21: 2022/00286. 22: 2022/01/05. 43: 2022/08/01
 51: E04G
 71: HWS CONCRETE TOWERS, S.L.
 72: Jesús MONTANER FRAGÜET, Mariano PÉREZ ABADÍA, José Manuel SORAZU ECHAVE, Amaia MARTINEZ MARTINEZ, Sergio SAIZ GARCÍA, Ricardo DIEGO GARAMENDI

33: ES 31: P201930707 32: 2019-07-30

54: ANCHOR FOR A SELF-CLIMBING STRUCTURE

00: -
 The invention relates to an anchor for the type of self-climbing structure used on vertical and near-vertical concrete surfaces, which uses metal inserts in a prefabricated concrete tower and interlocking

spikes in the self-climbing structure that are provided with rotary and rocking movement. The invention provides the main advantage of minimizing tensile and shear loads on the concrete of the tower, with maximum contact and optimum load distribution, while also achieving self-correction of possible coupling positioning and alignment errors. All this results in improved delivery and distribution of the loads from the climbing device to the concrete wall and general structure, which allows larger sized loads to be lifted and withstood than existing devices.



21: 2022/00287. 22: 2022/01/05. 43: 2022/08/04
 51: B60N
 71: NEXTER SYSTEMS
 72: Angèle REYMOND, Jean-Claude DRESSY, Mathias VON EUW
 33: FR 31: 1906662 32: 2019-06-24

54: SEAT FOR A VEHICLE

00: -
 The invention relates to a seat (1) which comprises a backrest (2) designed to be rigidly connected to a vehicle at an upper end by means of at least one hook and which comprises a seat portion (3) pivoting between a horizontal unfolded position and a vertical folded position. The backrest (2) comprises at least two panels (2a, 2b), including a top panel (2a) and a

bottom panel (2b), which are designed to support the back of an occupant. The panels (2a, 2b) are interconnected by a textile strip (2c) and one of the panels (2a) is rigidly connected to the textile strip (2c) by a hook-and-loop fastening (15) such that the distance between the panels (2a, 2b) and therefore the height of the backrest (2) can be adjusted and, moreover, the panels (2a, 2b) can be folded.

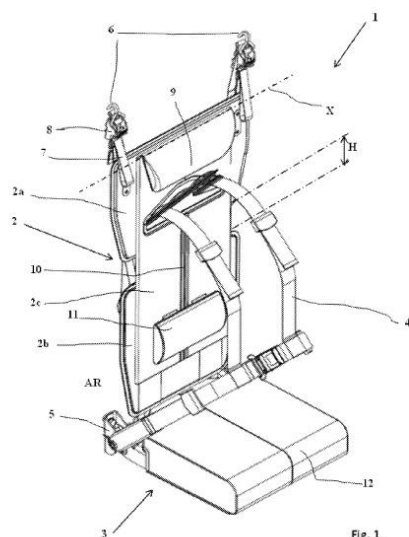


Fig. 1

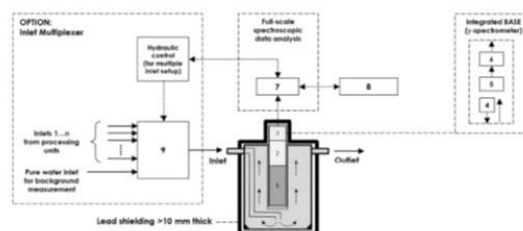
21: 2022/00288. 22: 2022/01/05. 43: 2022/08/01
51: G01T
71: UMWELT- UND INGENIEURTECHNIK GMBH DRESDEN

72: Gottfried Horst MAERTEN, Jens SCHUBERT
33: EP 31: 19202751.4 32: 2019-10-11

54: METHOD AND DEVICE FOR THE QUANTIFICATION OF RADIONUCLIDES IN LIQUID MEDIA

00: -

The present invention relates to a method for the quantification of radionuclides in liquid media comprising measuring a gamma-ray spectrum, a device for the quantification of radionuclides in liquid media and the use for the quantification of radionuclide concentrations in hydrometallurgical processing media, especially the quantification of uranium and/or radioactive uranium decay product concentrations in uranium mining solutions or in uranium recovery solutions or the quantification of thorium and/or radioactive ^{232}Th decay products in rare-earth element processing solutions.



21: 2022/00317. 22: 2022/01/06. 43: 2022/08/04

51: E21C; E21D

71: DDT MECHANISED MINING SERVICES (PTY) LTD

72: VAN NIEKERK, Dennis

33: ZA 31: 2020/06454 32: 2020-10-08

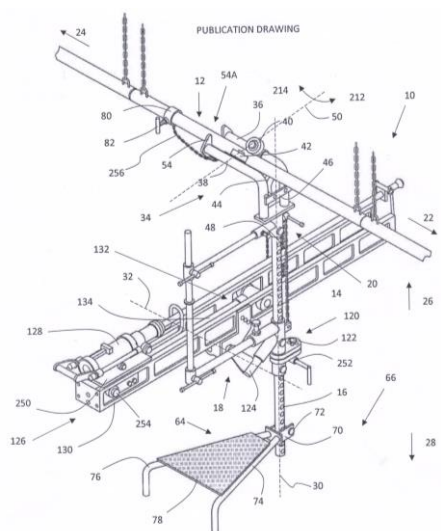
33: ZA 31: 2021/04089 32: 2021-06-09

33: ZA 31: 2021/09663 32: 2021-11-18

54: ROCK DRILL SUPPORT

00: -

A rock drill support for use with a rock drill during drilling of a borehole into a rockface, wherein the rock drill support includes an elongate member which is fixed to and spaced from a hanging wall, an elongate body which extends at least partly between the hanging wall and a foot wall and which is mounted to the elongate member, and a support structure which is connected to the elongate body and which is configured to support the rock drill during drilling, wherein the elongate body is movable along a length of the elongate member, and the support structure is movable along a length of the elongate body and is pivotable about a first axis which is parallel to the elongate body, and about a second axis which is transverse to the first axis thereby to allow adjusting of a location of the borehole on the rockface



21: 2022/00326. 22: 2022/01/06. 43: 2022/08/03

51: A01N; A01P

71: BELCHIM CROP PROTECTION NV

72: DE SAEGHER, Johan, RUELENS, Paul, CAUCHY, Patrice

33: EP 31: 19180366.7 32: 2019-06-14

54: SYNERGISTICALLY EFFECTIVE FUNGICIDE COMPOSITION COMPRISING CHOLINE PHOSPHONATE AND AT LEAST ONE ADDITIONAL FUNGICIDE

00: -

The current invention concerns a synergistically effective fungicide composition comprising as component (A) a fungicidally active amount of choline phosphonate and as component (B) at least one additional fungicide selected from the group comprising quinone fungicides, succinate dehydrogenase inhibitors, benzamide fungicides, sulphur fungicides, carboxylic acid amide fungicides, demethylation inhibitor fungicides, phenylamide fungicides, copper fungicides, piperidinyl thiazole isoxazoline fungicides and sugar alcohols, wherein a weight ratio of components (A) and (B) is in a range from 1:1000 to 1000:1. The invention further concerns a kit a use of a fungicide composition according to the invention in an amount effective for controlling one or more types of fungal infections by applying the fungicide composition to the fungal infections.

21: 2022/00389. 22: 2022/01/07. 43: 2022/08/02

51: C21D

71: ARCELORMITTAL

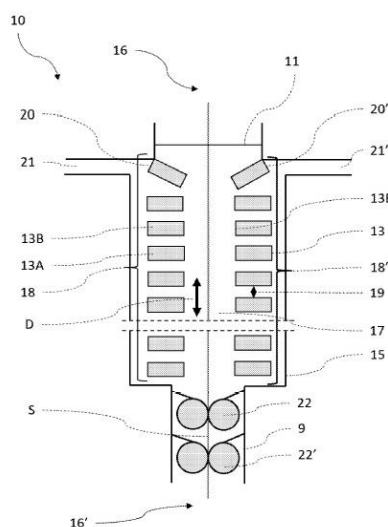
72: Makhlof HAMIDE

33: IB 31: PCT/IB2019/056684 32: 2019-08-06

54: DEVICE FOR COOLING A STEEL STRIP

00: -

This invention relates to a cooling device for a cooling operation of a flat metallic product, said cooling device being located in an essentially vertical path comprising: - a tank filled with a coolant bath defining a coolant surface, - said tank comprising at least two openings, one on the upper surface and one on the bottom surface wherein said flat metallic product can pass through, - said opening on the bottom surface being equipped with a sealing mean, - two series of projecting devices, oriented essentially horizontally, on two opposite tank sides, - said projecting devices being immersed in said coolant bath, - each series of projecting devices having an uppermost projecting device being defined as the closest projecting device to the coolant surface, - at least the uppermost projecting device on both sides being downwardly inclined of an angle of 20° to 40° compared to the horizontal.



21: 2022/00394. 22: 2022/01/07. 43: 2022/08/02

51: C12M; C12P

71: DELFT ADVANCED BIOFUELS B.V.

72: OUDSHOORN, Arjan, STEINBUSCH, Kirsten Johanna Josephine, KERSTE, Robbie Wouter Hendrikus, WOOLNER, David James Relph

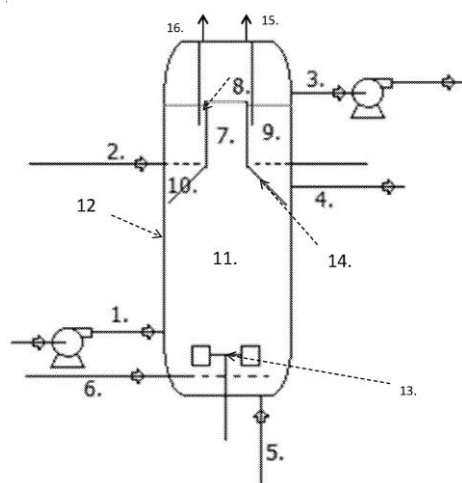
33: EP 31: 19187100.3 32: 2019-07-18

54: INTEGRATED SYSTEM FOR BIOCATALYTICALLY PRODUCING AND RECOVERING AN ORGANIC SUBSTANCE

00: -

The invention relates to a method for recovering a biocatalytically produced organic substance from a

reaction mixture, comprising - providing a reaction mixture, wherein the organic substance is produced using a biocatalyst, which reaction mixture comprises a substrate for the biocatalyst in a continuous aqueous phase, and wherein further a product recovery phase is present into which the organic substance migrates or onto which the organic substance absorbs or adsorbs; and - separating the product recovery phase comprising the produced substance from the aqueous phase and the biocatalyst. The invention further relates to a bioreactor system for biocatalytically producing a substance, comprising an apparatus, said apparatus comprising a reaction compartment (11) situated in a lower part of the apparatus and a separator compartment (9).



21: 2022/00408. 22: 2022/01/07. 43: 2022/08/02

51: C10B; C10G

71: DIXIT, Suhas

72: DIXIT, Suhas

33: IN 31: 201921023312 32: 2019-06-12

54: AN IMPROVED CLOG-FREE CONDENSATION SYSTEM FOR PYROLYSIS VAPOUR OF PET CONTAINING POLYMER

00: -

The present invention provides an improved clog-free condensation system for preventing clogging of pyrolysis apparatus and smooth running of thermal degradation waste plastic comprising PET component comprising of a conduit (2) carrying vapor stream received from pyrolysis reactor, condenser (3) with inlet (4) 5 for oil-immiscible solvent stream and liquid outlet (5) for stripping of

condensed pyrolysis oil as well as Benzoic-acid and its derivatives dissolved in oil-immiscible solvent and vapour outlet (6) to pass uncondensed vapours, and liquid-liquid phase separator (7) connected to outlet (5) of condenser (3) having outlets (8 and 9) for separating two immiscible phases. The present invention also relates to method for 10 condensing pyrolysis vapour of PET polymer without formation of clog in apparatus and continuous recovery of benzoic acid and other condensable hydrocarbons as a value added products.

21: 2022/00424. 22: 2022/01/10. 43: 2022/08/01

51: G06F; H04W

71: VOSLOO, Rochelle Mahon, VOSLOO, Gideon Andries

72: VOSLOO, Rochelle Mahon, VOSLOO, Gideon Andries

33: ZA 31: 2021/00733 32: 2021-02-03

54: DATA VERIFICATION SYSTEM

00: -

The present invention relates to a data verification system, and more specifically to a data verification system for assessing and validating transactions against card brand and Payment System Operator's ("PSOs") Transaction Processing Standards and Data Integrity Rules and Standards ("TPDIRS"). The system includes a data stream containing transaction approval data, the data stream being formatted and transmitted between card issuers, acquirers, ATM processors, system operators and third-party payment processors. The data stream is also further forwarded from the acquirer or issuer to a Data Security Standards Compliance Verification (DSSCV) component for performing the verification operations on the data stream, the DSSCV component having a pre-defined configurable ruleset for this purpose.

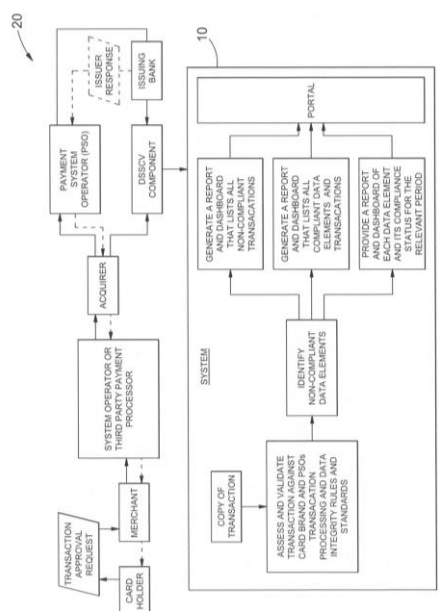


FIGURE 1

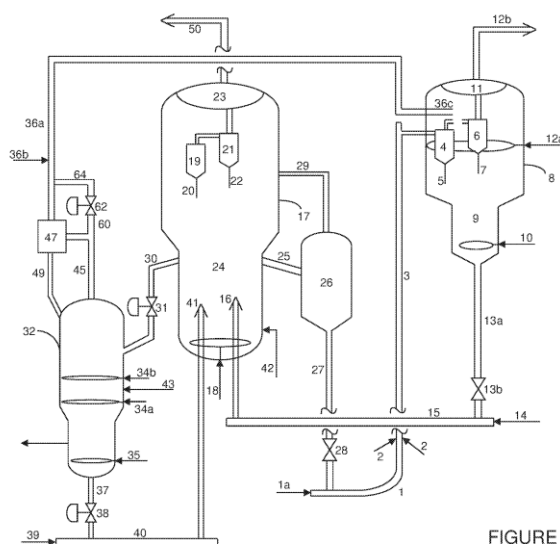


FIGURE 1

21: 2022/00657. 22: 2022/01/13. 43: 2022/07/27
51: B01J; C10G
71: LUMMUS TECHNOLOGY LLC
72: CHEN, Liang, LOEZOS, Peter, MARRI, Rama Rao, TOMSULA, Bryan, HOOD, Jon A., SINGH, Hardik, DORSEY, Michael, BRECKENRIDGE, Justin
33: US 31: 16/511,645 32: 2019-07-15

54: FLUID CATALYTIC CRACKING PROCESS AND APPARATUS FOR MAXIMIZING LIGHT OLEFIN YIELD AND OTHER APPLICATIONS

00: -
Apparatus and processes herein provide for converting hydrocarbon feeds to light olefins and other hydrocarbons. The processes and apparatus include, in some embodiments, feeding a hydrocarbon, a first catalyst and a second catalyst to a reactor, wherein the first catalyst has a smaller average particle size and is less dense than the second catalyst. A first portion of the second catalyst may be recovered as a bottoms product from the reactor, and a cracked hydrocarbon effluent, a second portion of the second catalyst, and the first catalyst may be recovered as an overhead product from the reactor. The second portion of the second catalyst may be separated from the overhead product, providing a first stream comprising the first catalyst and the hydrocarbon effluent and a second stream comprising the separated second catalyst, allowing return of the separated second catalyst in the second stream to the reactor.

21: 2022/00668. 22: 2022/01/13. 43: 2022/08/04
51: A61M

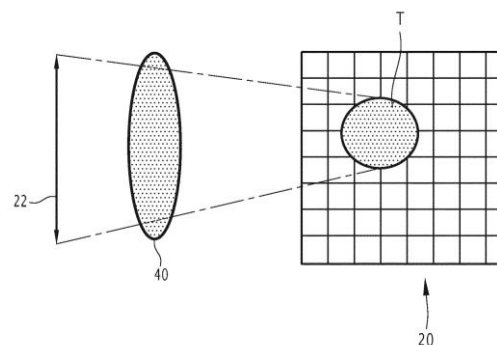
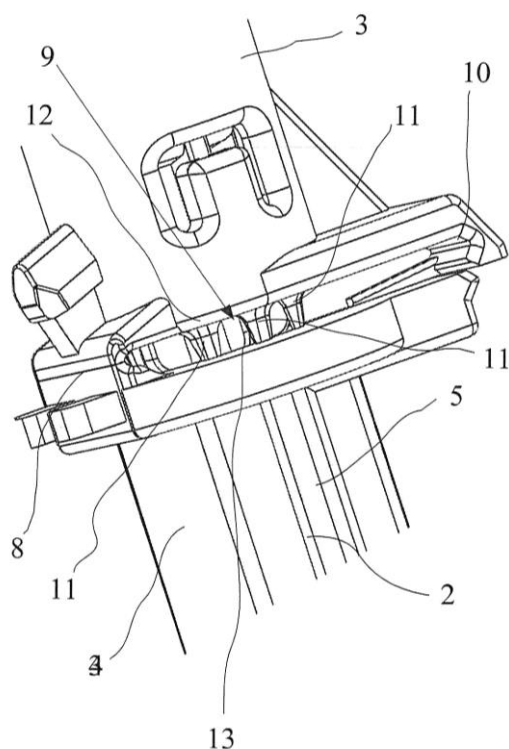
71: FISCHER, Stephan, WILKE, Tobias, MOHR, Bernd

72: FISCHER, Stephan, WILKE, Tobias, MOHR, Bernd

33: DE 31: 20 2019 103 876.4 32: 2019-07-15

54: PROTECTIVE DEVICE FOR THE NEEDLE TUBE OF A SYRINGE

00: -
The invention relates to a protective device (1) for the needle tube (2) of a syringe, comprising a housing (4), which is designed to be pivotable on a carrier element (3) and has an open housing side (5) in the pivot plane, such that the needle tube (2) can be pivoted into the housing (4) after being used for injection, and a holding device (6) for the pivoted-in needle tube (2) being provided on the housing side. According to the invention the carrier element (3) and the pivotable housing (4) are also connected to one another via a predefined breaking point (9) in order to form a pivot axis alongside the connection of a film hinge (8), and after being used for injection the housing (4) being able to be pivoted back via the destroyed predefined breaking point (9).



21: 2022/00720. 22: 2022/01/14. 43: 2022/08/04
 51: G01J
 71: THALES
 72: PERRUCHOT, Ludovic, MIDAVAIN, Thierry,
 BLOOM, Guillaume, ACHART, Jérôme, THILLOT,
 Marc, PERROT, Tugdual, LIGERET, Vincent
 33: FR 31: 19 07909 32: 2019-07-15
54: DEVICE FOR DETECTING OPTICAL PULSES
 00: -

The present invention relates to an optical pulse detection device, the device comprising a sensor (20) having a plurality of pixels, each pixel comprising: - a receiver configured to receive optical pulses and generate an electrical signal, - an event detection unit comprising a frequency filter having an adjustable cut-off frequency defining a passband for the event detection unit, the adjustable cut-off frequency being such that the upper bound of the passband is greater than or equal to 1 Megahertz, the detection unit being configured to detect variations in the electrical signal generated by the receiver only when the frequency in the frequency domain of said variations is within the passband of the event detection unit, and - a timing unit configured to date each change in the electrical signal detected by the event detection unit.

21: 2022/00731. 22: 2022/01/14. 43: 2022/07/27
 51: A61K; A61P
 71: ETHERNA IMMUNOTHERAPIES NV
 72: COOLS, Marina, VAN ASSCHE, Tim, DE
 KEERSMAECKER, Brenda
 33: EP 31: 19182813.6 32: 2019-06-27
54: COMBINATION THERAPY
 00: -

The present invention in general relates to combinations of mRNA molecules encoding CD40, caTLR4 and CD70 with mRNA molecules encoding tumor-associated antigens for use as therapeutic vaccine in the treatment of metastatic cancer patients primarily with stable malignant melanoma disease, but also extending into other cancer types and to patient whose disease has shown partial response on prior therapy. Said uses may further encompass the administration of checkpoint inhibitors. The present invention further provides administration schemes for such therapies focusing on administration of the therapeutic into lymph nodes, so called intra-nodal therapy.

21: 2022/00821. 22: 2022/01/18. 43: 2022/07/27
 51: B29C; E04F
 71: I4F LICENSING NV
 72: BOUCKÉ, Eddy Alberic
 33: NL 31: 2023587 32: 2019-07-29
54: DECORATIVE PANEL AND METHOD OF PRODUCING SUCH A PANEL
 00: -

The invention relates to a decorative panel, in particular a floor panel, ceiling panel or wall panel. The invention also relates to a decorative covering, in particular a decorative floor covering, decorative ceiling covering, or decorative wall covering, comprising a plurality of mutually coupled decorative panels according to the invention. The invention further relates to a core for use in a panel according

to the invention. The invention additionally relates to a method of producing a decorative panel, in particular a decorative panel according to the invention. The invention also relates to an extruded for use in said method according to the invention.

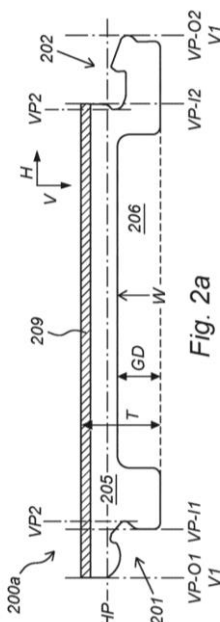
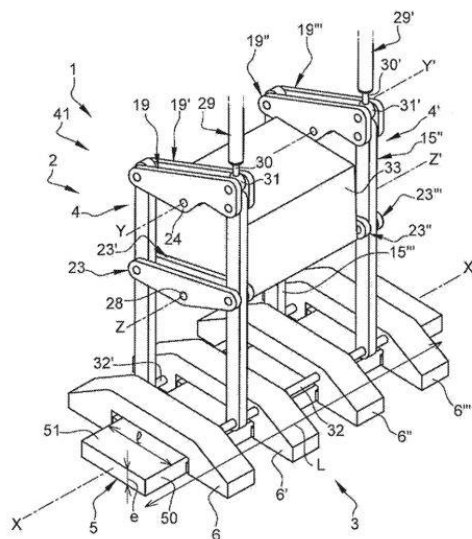


Fig. 2a



21: 2022/00903. 22: 2022/01/19. 43: 2022/08/03
51: F03B

71: TYAGLIN, Denis Valentinovich

72: TYAGLIN, Denis Valentinovich

33: RU 31: 2019126771 32: 2019-08-26

54: POWER GENERATOR

00: -

The technical solution relates to the field of power engineering, specifically, to hydroelectric power plants. The power generator contains a body in the form of a vertical vessel filled with liquid, in which a platform with an opening in the upper part, the inner part of which has the shape of a bell, is placed, as well as a means to impart positive buoyancy to the platform by accumulating air, located on the lower side of the platform, a channel connected to the opening in the upper part of the platform, windows connected to the channel, valves installed between the channel and the means for imparting positive buoyancy to the platform; a turbine installed on the platform, designed so as to be able to rotate under the action of liquid flowing through the channel, and equipped with means for transmitting the generated electric power; means for preventing the platform from rotating. According to the claimed technical solution, the turbine is also designed so as to be able to rotate under the action of air released through the valves from the means for imparting positive buoyancy to the platform. The generator may contain additional valves installed in the windows connected to the channel. The platform may have a cross-sectional shape that follows the cross-sectional shape of the inner surface of the

21: 2022/00833. 22: 2022/01/18. 43: 2022/08/04

51: B66C

71: ARCELORMITTAL

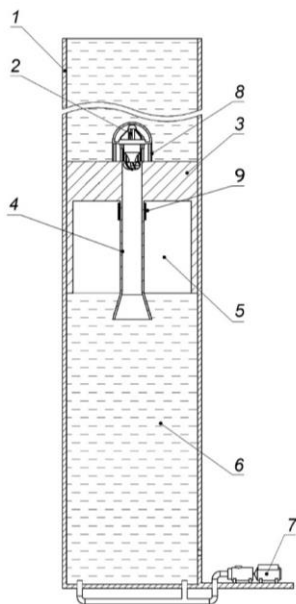
72: Akshay BANSAL, Benjamin BOISSIERE, Gérard GRIFFAY, Pierre GEORGES

54: SYSTEM AND METHOD FOR HANDLING SEMI-FINISHED METAL PRODUCTS

00: -

The invention relates to a system (1) for handling semi-finished metal products (5) comprising at least gripping means (3) suitable to grasp at least one semi-finished product (5) laid on a surface (40), movement means configured to lift said gripping means (3) from a low position towards a high position, and tilting means (2) configured to rotate said gripping means (3) in their high position around a rotation axis (X-X').

body. The means for preventing the platform from rotating can be embodied in the form of a protrusion on the platform, located in the corresponding recess on the inner surface of the body. The technical result of the claimed technical solution is manifested in an increased performance efficiency of the power generator.



21: 2022/00940. 22: 2022/01/20. 43: 2022/08/03
51: E04B

71: Elvir PACARADA, Ernest PACARADA

72: Elvir PACARADA

33: DE 31: 10 2019 210 175.5 32: 2019-07-10

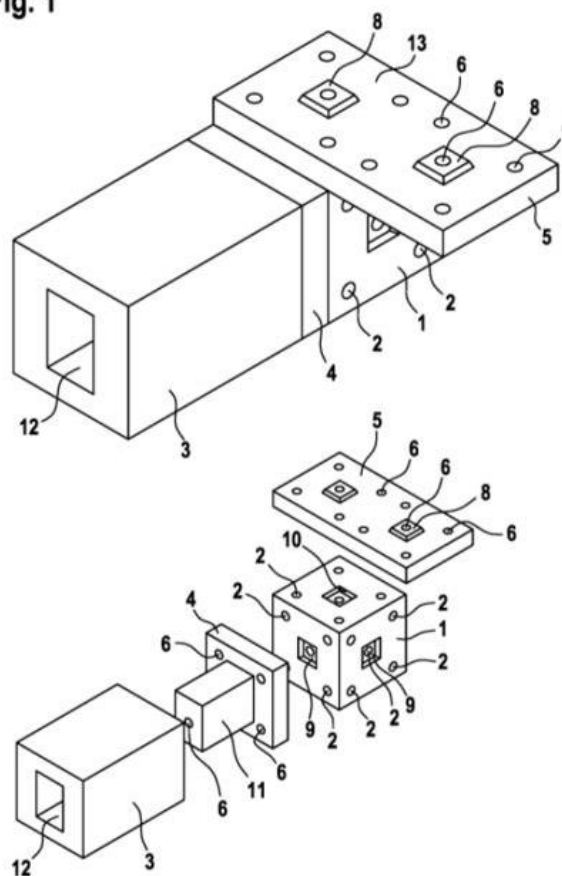
54: COUPLING DEVICE FOR THE MODULAR CONSTRUCTION OF STRUCTURES OR OBJECTS

00: -

The invention relates to a coupling device for the modular construction of structures or objects, comprising a main body (1) which has at least one through-opening (2) or at least one recess and which can be coupled to at least one component (3) of a structure or object, wherein the at least one through-opening (2) or the at least one recess is designed for cooperating with a coupling means for coupling the at least one component (3) to the main body (1), wherein, with a view to a simple and safe construction of structures or objects, said coupling device is provided with constructionally simple means and developed in such a way that the main

body is designed as a corner element or edge element of a module (16) of the structure or object.

Fig. 1



21: 2022/00956. 22: 2022/01/20. 43: 2022/08/02
51: G01N

71: THE UNIVERSITY OF BIRMINGHAM

72: ALBERINI, Federico, HEFFT, Daniel Ingo, FORTE, Giuseppe

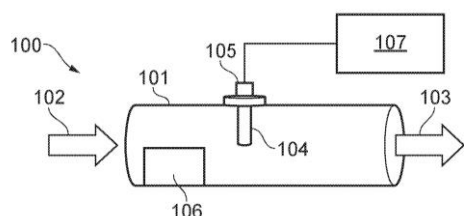
33: GB 31: 1909291.5 32: 2019-06-28

54: IDENTIFYING LIQUID RHEOLOGICAL PROPERTIES FROM ACOUSTIC SIGNALS

00: -

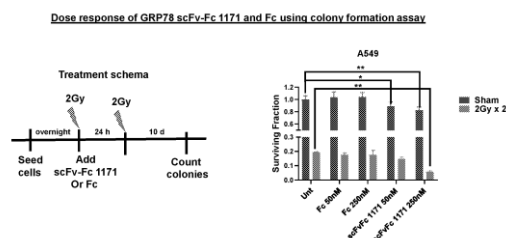
The disclosure relates to methods and apparatus for identifying rheological properties of liquids from acoustic signals generated by liquid flow through a pipe. Example embodiments include a method of identifying a rheological property of a liquid flowing in a pipe (101), the method comprising: detecting an acoustic signal generated by the liquid flowing in the pipe using a sensor (105) attached to a rod (104) extending from a wall of the pipe (101) into the liquid; sampling the acoustic signal to provide a sampled acoustic signal; transforming the sampled

acoustic signal to generate a sampled frequency spectrum; correlating the sampled frequency spectrum with a stored frequency spectrum from a database of stored frequency spectra of liquids having predetermined rheological properties; and identifying a rheological property of the liquid based on the stored frequency spectrum.



21: 2022/01160. 22: 2022/01/25. 43: 2022/08/03
51: A61N; C07K; A61P
71: WASHINGTON UNIVERSITY
72: HALLAHAN, Dennis, KAPOOR, Vaishali, SINGH, Abhay Kumar
33: US 31: 62/874,791 32: 2019-07-16
54: ANTI-GRP78 ANTIBODIES AND METHOD OF USE THEREOF

00: -
The present invention is directed towards isolated antibodies that bind to GRP78. Specifically, compositions comprising anti-GRP78 antigen binding proteins useful in recognition of cancer or tumor cells. Moreover, in some aspects, the anti-GRP78 antigen binding proteins are useful for tumor/cancer-specific delivery of drugs and therapies. In another aspect, the disclosed antigen binding proteins are useful for enhancing radiotherapy in a subject having or suspected of having cancer or a tumor where the antigen binding protein is conjugated to a payload, for example, a therapeutic agent, an imaging agent, or a combination thereof.



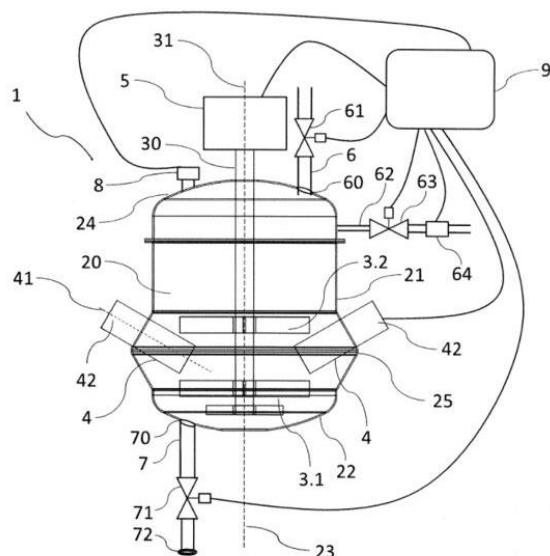
21: 2022/01239. 22: 2022/01/26. 43: 2022/08/03
51: A61K; C07C; C07D; A61P

71: ADVANCED BIODESIGN
72: CEYLAN, Ismail, MARTIN, Guillaume, PEREZ, Mileidys, BERROU, Axelle
33: EP 31: 19305989.6 32: 2019-07-31
54: AMINOTHIOLESTER COMPOUNDS AND USES THEREOF

00: -
The present invention relates to novel aminoesters compounds or its pharmaceutically acceptable salts or optical isomers, racemates, diastereoisomers, enantiomers or tautomers. The present invention also relates to their process of preparation and to these compounds for use as a medicament, in particular for the treatment or the prevention of cancer. The present invention further relates to an antibody drug conjugate comprising such compounds.

21: 2022/01255. 22: 2022/01/26. 43: 2022/08/03
51: B01F; B28C; C04B
71: SONOCRETE GMBH
72: Dr. Christiane RÖSSLER, Ricardo REMUS
33: DE 31: 10 2019 120 939.0 32: 2019-08-02
54: CEMENT PREMIXER, DEVICE FOR PRODUCING A CONCRETE MIXTURE AND METHOD FOR PRODUCING A CEMENT SUSPENSION

00: -
The invention relates to a cement premixer (1) comprising: a treatment container (2) having a treatment space (20), the treatment container (2) having a side wall (21) and a bottom (22); at least one stirring unit (3; 3.1, 3.2), which extends at least partially into the treatment space (20), the stirring unit (3; 3.1, 3.2) being connected to a shaft (30) having an axis of rotation (31); at least one ultrasonic probe (4), which extends at least partially into the treatment space (20); and at least one ultrasonic oscillator (42), which applies ultrasound to the at least one ultrasonic probe (4), the cement premixer (1) having at least one first introduction opening (60) for supplying cement and an outlet (70) to the flow feed line (7) for feeding a cement suspension provided by the cement premixer (1) into a concrete-mixing device.



21: 2022/01353. 22: 2022/01/28. 43: 2022/08/01
51: E02D; E04B; E04H; F03D

71: SHANGHAI FENGLING RENEWABLES CO.,LTD.

72: Wei YANG, Mengyuan LI, Bing ZHANG, Jiangyi SONG, Yong YAN, Binyi CHEN

33: CN 31: 202111210407.3 32: 2021-10-18

33: CN 31: 202111212275.8 32: 2021-10-18

33: CN 31: 202111224239.3 32: 2021-10-18

33: CN 31: 202111212278.1 32: 2021-10-18

33: CN 31: 202111212247.6 32: 2021-10-18

33: CN 31: 202111212282.8 32: 2021-10-18

33: CN 31: 202111212262.0 32: 2021-10-18

54: TUBULAR SECTION FOR WIND TURBINE TOWER AND CONSTRUCTION METHOD FOR WIND TURBINE TOWER

00: -

The present disclosure provides a tubular section for a wind turbine tower and a construction method for the wind turbine tower.. The tubular section includes a plurality of prefabricated concrete formworks (11) in a closed connection to form a regular polygonal structure, each prefabricated concrete formwork (11) comprising two prefabricated wall panels (111) spaced apart from each other and a connecting piece (113) connecting the two prefabricated wall panels (111), an accommodation cavity (112) being defined between the two prefabricated wall panels (111), the accommodation cavities (112) of the plurality of prefabricated concrete formworks (11) being in communication with each other, all the accommodation cavities (112) being filled with concrete (16), and the concrete (16) in all the

accommodation cavities (112) being solidified to be integral as a whole. The tubular section of the present disclosure fully combines the prefabricated wall panel with the cast-in-situ concrete by using the prefabricated concrete formwork, ensures the continuity of the stress of the tubular section, and the structure of the tower is more safe and reliable.

21: 2022/01363. 22: 2022/01/28. 43: 2022/08/03

51: A01G; G05B

71: VALMONT INDUSTRIES, INC.

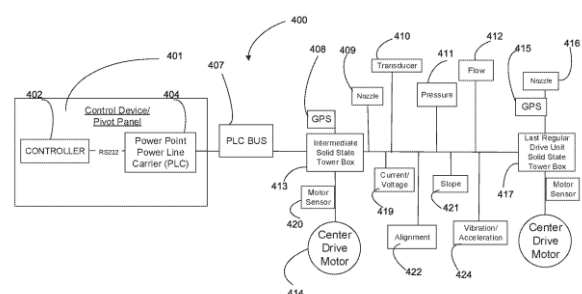
72: THATCHER, Tracy A.

33: US 31: 62/899,174 32: 2019-09-12

54: SYSTEM AND METHOD FOR ANALYSIS OF CURRENT AND VOLTAGE LEVELS WITHIN A CENTER PIVOT IRRIGATION SYSTEM

00: -

The present invention provides a system and method for analyzing drive tower current and voltage levels to determine drive wheel status. In accordance with a first preferred embodiment, the system of the present invention includes a machine analysis module which analyzes data from electrical sensing systems, GPS sensors, and gyroscopic sensors. According to a further preferred embodiment, the machine analysis module applies a current/voltage sensing algorithm which analyzes the status of the first and second drive wheels based on detected operating currents/voltages of selected motors.



21: 2022/01366. 22: 2022/01/28. 43: 2022/08/03

51: A61B

71: ORTHOFIX S.R.L.

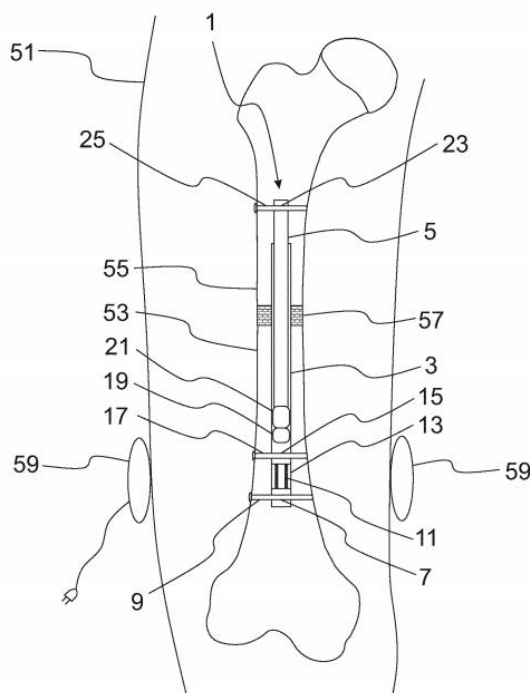
72: STAUCH, Roman, MÜLLER, Martina, HAMMEL, Sebastian

33: DE 31: 10 2019 122 354.7 32: 2019-08-20

54: INTRAMEDULLARY NAIL FOR DISTRACTING A LONG BONE

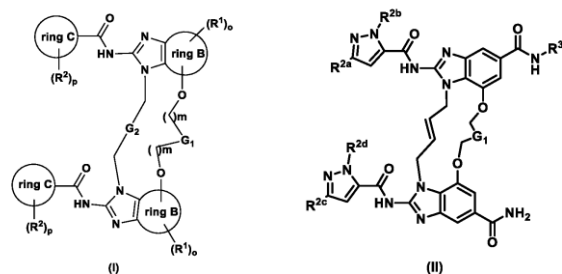
00: -

An intramedullary nail (1) for distracting a long bone, comprising a first tube (3) extending in an axial direction of the intramedullary nail (1), a second tube (5) extending in an axial direction of the intramedullary nail (1), which is coupled with the first tube (3) to be axially displaceable within one another, a first locking opening (7) in an end area of the first tube (3) facing away from the second tube (5), and a coil (11), which is disposed in a coil area of the first tube (3) between the first locking opening (7) and the second tube (5).



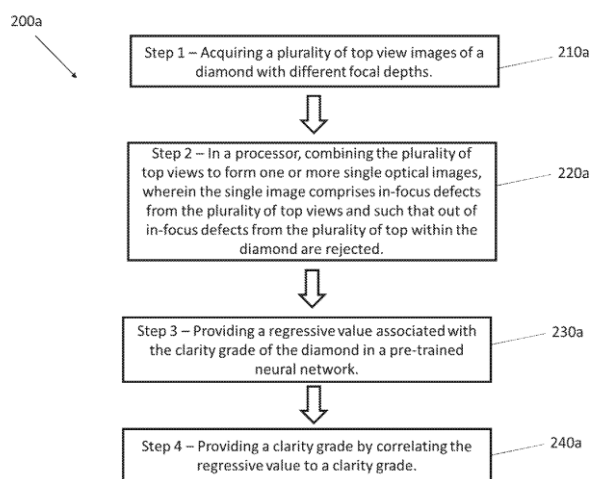
21: 2022/01375. 22: 2022/01/28. 43: 2022/08/03
51: A61K; C07D; A61P
71: LUPIN LIMITED
72: KARCHE, Navnath Popat, BANERJEE, Moloy, GUPTA, Nishant Ramnivasji, JADHAV, Ganesh Rajaram, VYAVAHARE, Vinod Popatrao, DAS, Amit Kumar, WALKER, Deepak Sahebrao, KALHAPURE, Vaibhav Madhukar, BHOSKAR, Smita Aditya, RAMDAS, Vidya, PALLE, Venkata P., KAMBOJ, Rajender Kumar
33: IN 31: 201921029556 32: 2019-07-22
33: IN 31: 201921051086 32: 2019-12-10
33: IN 31: 202021003961 32: 2020-01-29
54: MACROCYCLIC COMPOUNDS AS STING AGONISTS AND METHODS AND USES THEREOF
00: -

Disclosed are macrocyclic compounds having the general Formula (I) or (II) and their tautomeric forms, stereoisomers, pharmaceutically acceptable salts, hydrates, solvates and prodrugs thereof, and their combination with suitable medicament, corresponding processes for the synthesis and pharmaceutical compositions and uses of compounds disclosed herein.



21: 2022/01376. 22: 2022/01/28. 43: 2022/08/03
51: G01N
71: GOLDWAY TECHNOLOGY LIMITED
72: HUI, Koon Chung, CHENG, Ka Wing, TANG, Wing Chi
33: HK 31: 19127404.2 32: 2019-07-29
54: PROCESS AND SYSTEM FOR DIAMOND CLARITY MEASUREMENT
00: -
A process (200a) operable using a computerized system (100) for grading the clarity of a diamond (115), the computerized system (100) including an optical image acquisition device (110), a processor (130), a pre-trained neural network (120) and an output module (340) operably interconnected together, the process (200a) including the steps of (i) acquiring via an optical image acquisition device (110) one or more plurality of axial view images of a diamond (115) with different focus depths (210a), wherein the focal depths are determined by the height of the diamond (115) and the plurality of axial view images are acquired in an environment having a predetermined constant light level, and wherein the axial view is defined as a view towards the diamond (115) in a direction of a central axis normal to the table (310) of the diamond (115) and passing through the apex of the pavilion of the diamond (115), and the height of the diamond (115) is defined as the length of a central axis normal to the table (310) of the diamond (115) and passing through the apex of the pavilion of the diamond (115); (ii) in a

processor (130), combining the plurality of axial views to form one or more single optical images, wherein the single image comprises in-focus defects from the plurality of axial views and such that out of in-focus defects from the plurality of axial within the diamond (115) are rejected (220a); (iii) in a pre-trained neural network (120), providing a regressive value associated with the clarity grade of the diamond (115) based on the one or more single images acquired during step (i); wherein the pre-trained neural network (120) has been pre-trained utilising one or more single optical images acquired from a plurality of diamonds (115) each having a pre-assigned clarity grade assigned thereto and wherein the one or more single optical images acquired from a plurality of diamonds (115) are provided by the same process of step (i), and acquired in an environment having a predetermined constant light level the same as that as (i) (230a); and (iv) from an output module (340), providing a clarity grade to the diamond (115) of (i) by correlating the regression value from (ii) to a clarity grade (240a).



21: 2022/01448. 22: 2022/02/01. 43: 2022/08/22
 51: G01N
 71: TODOS MEDICAL LTD.
 72: BROWNELL, Elise, TRZEPACZ, Paula, COMMISSIONG, Gerald, WEISS, Herman, ARENDT, Thomas
 33: US 31: 62/872,567 32: 2019-07-10
54: A BIOMARKER FOR ALZHEIMER'S DISEASE USING BLOOD SAMPLES FROM CLINICALLY DIAGNOSED ALZHEIMER'S DISEASE SUBJECTS
 00: -

The current invention discloses a method for diagnosing Alzheimer disease by using biomarkers, and multivariate analysis which gives a more reliable, minimally- or non-invasive method of detection. The invention discloses simultaneous detection of CD69 protein in mitogenic lymphocytes, tau and phosphorylated tau proteins, and amyloid-Beta peptides in cerebrospinal fluid, which can replace or supplement conventional methods of detection of Alzheimer's disease such as cognitive testing and amyloid-positron emission tomography.

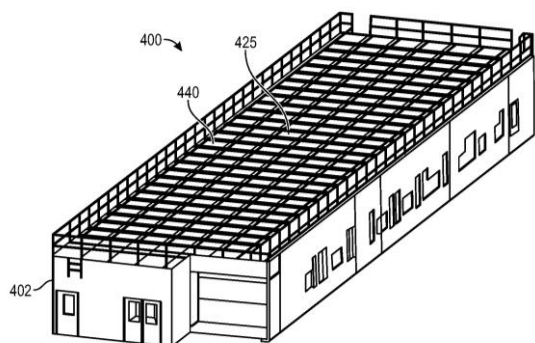
21: 2022/01449. 22: 2022/02/01. 43: 2022/08/22
 51: A61K; A61P
 71: CEVA SANTE ANIMALE
 72: BESCHE, Béatrice, JIMENEZ, Catherine
 33: EP 31: 19305996.1 32: 2019-08-01
54: VETERINARY COMPOSITIONS FOR THE PREVENTION AND/OR TREATMENT OF CRYPTOSPORIDIOSIS
 00: -

The invention relates to a veterinary composition comprising paromomycin or a pharmaceutically acceptable salt thereof for use in the prevention and/or treatment of cryptosporidiosis in a non-human mammal, wherein the composition is administered to said non-human mammal at a paromomycin dose of 80 to 140 mg/kg/day for 3 to 6 days.

21: 2022/01507. 22: 2022/02/02. 43: 2022/08/25
 51: B01L; E04B; E04H; F24F
 71: G-CON MANUFACTURING, INC.
 72: WILLIAMS, R. Blake, POUNDERS, A. Colt, HEATH, Billy Joe T.
 33: US 31: 62/887,303 32: 2019-08-15
54: REMOVABLE PANEL ROOF FOR MODULAR, SELF-CONTAINED, MOBILE CLEAN ROOM
 00: -

Modular building cleanrooms having integrated mechanical rooms with removable, walkable floor panels above their ceilings are disclosed. The attic area above the sealed cleanroom ceiling and below joists of the modular building's frame provides an interstitial volume through which ducts, piping, electrical conduit, etc. run from the mechanical room to dampers, valves, and junctions boxes. The walkable floor panels can be bar grating through which maintenance people can see components below. The floor panels can have individual sections that may be removed for access to the components.

Along with walkable floor panels, the modular building roofs can have foldable electrical panelboards that are pre-wired at the factory and then rotated upright once delivered to their destination.



21: 2022/01529. 22: 2022/02/03. 43: 2022/08/25

51: A23K; A61K

71: CHEMVET AUSTRALIA PTY LTD

72: GRANT, Murray Graham

33: AU 31: 2019902471 32: 2019-07-12

54: INJECTABLE NUTRITIONAL SUPPLEMENT

00: -

An aqueous injectable nutritional supplement composition for livestock, comprising: an EDTA complex of one or more trace elements; vitamin B₁₂; and a water-soluble liquid selected from glycols, glycol ethers and mixtures thereof.

21: 2022/01609. 22: 2022/02/07. 43: 2022/08/25

51: A61L; F24F

71: RICKARD AIR DIFFUSION (PTY) LTD

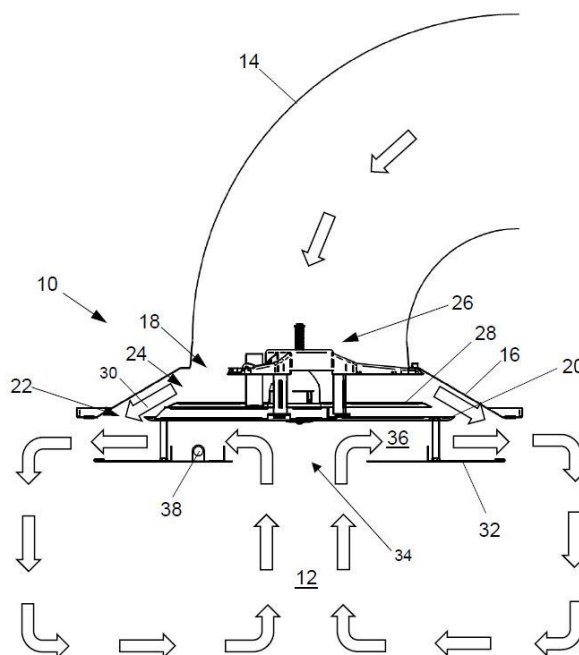
72: RICKARD, Mark Gareth

33: ZA 31: 2021/01710 32: 2021-03-15

54: GERMICIDAL AIR DIFFUSER

00: -

An air diffuser (10) includes a casing (16) with an inlet (18) connected to a supply of air, and an outlet (22) defining a diffusion flow passage extending in a diffusion direction (30). A cover (32) is disposed adjacent the diffusion flow passage to define an induction flow passage (36) that is in flow communication with the diffusion flow passage and is oriented such that air from the induction flow passage (36) is drawn into the diffusion flow passage to be discharged into a room (12). A germicidal light source (38) is provided to irradiate the induction flow passage (36) and kill airborne pathogens.



21: 2022/01662. 22: 2022/02/08. 43: 2022/08/23

51: G06K

71: AUTHENTIC VISION GMBH

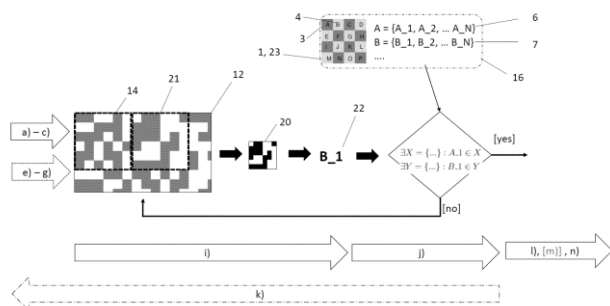
72: BERGMÜLLER, Thomas, WEISS, Thomas

33: EP 31: 19194679.7 32: 2019-08-30

54: OBJECT MARKING, PRODUCTION AND AUTHENTICATION METHOD

00: -

Object marking (9) comprising a first security element (3) and at least a second security element (4), wherein each security element (3, 4) is associated with a set of data segments (6, 7) and each security element (3, 4) exhibits depending on the capturing conditions, in particular the viewing angle (10) and/or the direction of illumination, a code segment which is an optoelectronically readable representation of one of the data segments (5) of the set associated with the respective security element (3, 4), wherein different distinct data segments are represented by different code segments (5) and that the set associated with the first security element (3) and the set associated with the second security element (4) differ in at least one data segment; method for producing and method for authenticating the same.



21: 2022/01665. 22: 2022/02/08. 43: 2022/08/23

51: A01C; B64D

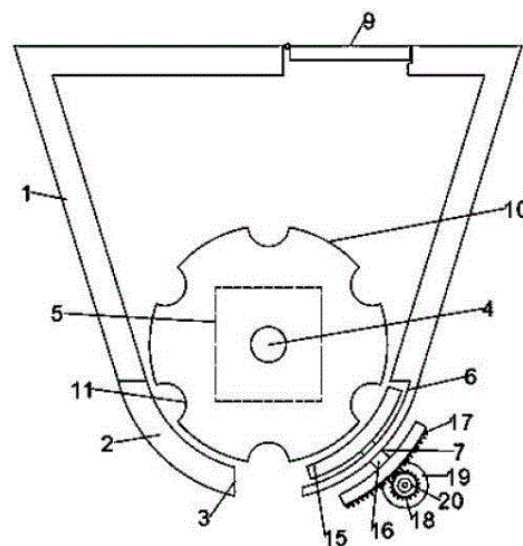
71: ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY

72: LI, Xinwei, ZHU, Yongji, TAO, Xinyu, SU, Xiangxiang, ZHU, Yan

54: UNMANNED AERIAL VEHICLE VARIABLE RATE FERTILIZATION DEVICE AND METHOD

00: -

The present disclosure discloses an unmanned aerial vehicle variable rate fertilization device includes a storage box for storing fertilizers, where a cylindrical fertilization tube is disposed at the bottom of the storage box, a fertilization tank is disposed at the bottom of the fertilization tube, a fertilization assembly is movably disposed above the fertilization tank, a driving assembly for driving the fertilization assembly to fertilize is in transmission connection with the fertilization assembly, an adjustment installation groove is disposed on the right side of the fertilization tank, and an adjustment assembly for adjusting the fertilization amount is installed in the adjustment installation groove.



21: 2022/01799. 22: 2022/02/10. 43: 2022/08/31

51: B08B; F26B

71: HANGZHOU RISHE MACHINERY CO., LTD

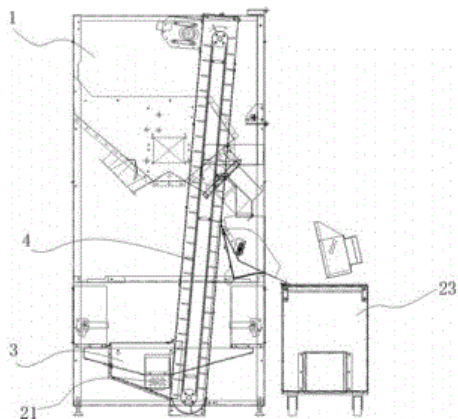
72: XU, Zhengfang

33: CN 31: 202110678665.8 32: 2021-06-18

54: COIN CLEANING MACHINE AND IMPLEMENTATION METHOD THEREFOR

00: -

The present invention relates to a cleaning apparatus, in particular to a coin cleaning machine and an implementation method therefor, and belongs to the field of cleaning apparatuses. The coin cleaning machine includes a rack and coins, a coin collection tank, a lifting assembly, and a cleaning and wipe-drying assembly being arranged in the rack, and after the coins entering the coin collection tank, the coins in the coin collection tank being lifted by the lifting assembly, and entering the cleaning and wipe-drying assembly, to be cleaned and wipe-dried. The machine is highly automatic, and integrates three functions of coin cleaning, disinfecting, and wipe-drying.



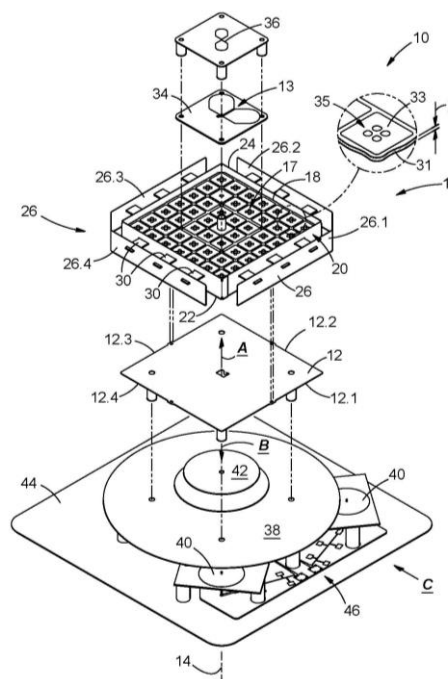
21: 2022/01876. 22: 2022/02/14. 43: 2022/08/31
51: C08K; C08L
71: DEHUA TB NEW DECORATION MATERIAL CO., LTD.
72: ZHAN, Xianxu, ZHANG, Wenbiao, ZHANG, Xiaowei, WU, Yungang, LIU, Xueyu, ZHANG, Liping
33: CN 31: 202110533857X 32: 2021-05-17
54: BIOMASS CARBON-BASED LIGHTWEIGHT ENVIRONMENTALLY FRIENDLY COMPOSITE MATERIAL

00: -
A biomass carbon-based lightweight environmentally friendly composite material obtained by a preparation process including the steps of: S1: immersing biochar in water to obtain water-saturated biochar; S2: mixing and stirring the water-saturated biochar with water glass, water-resistant agent, and coupling agent to obtain a mixture; S3: heating and curing the mixture to obtain a cured material; S4: cooling the cured material to obtain the biomass carbon-based lightweight environmentally friendly composite material. The invention can obtain a fire-resistant, water-resistant, high-strength, lightweight and environmentally friendly composite material through the process of mixing biochar, water glass, water-resistant agent, and coupling agent and then curing, which can not only replace ordinary furniture panels but also absorb harmful gases such as formaldehyde, benzene and the like in the environment, such that it has good application prospects.

21: 2022/01995. 22: 2022/02/16. 43: 2022/08/23
51: H01Q
71: POYNTING ANTENNAS (PTY) LIMITED
72: FOURIE, Andries, Petrus, Cronje, NITCH, Derek, Colin

33: ZA 31: 2019/05605 32: 2019-08-26
54: BROAD BAND DIRECTIONAL ANTENNA
00: -

The invention provides for a broad band directional antenna (10) comprising a ground plane (12) having an axis (14) extending perpendicularly to the ground plane, an active radiator (13) which is axially spaced from the ground plane, a metamaterial ground plane assembly (16) and a conductive pillar (28.1) between the first conductive wall and the ground plane. The metamaterial ground plane assembly comprises a metamaterial ground plane (17), a first conductive wall (20) adjacent a periphery of the metamaterial ground plane, the first conductive wall having a bottom (22) and a top (24) and a second wall (26) comprising two mutually insulated conductive wall parts (26.1, 26.2) located spaced from and outside of the first conductive wall. The bottom of the first conductive wall is located between the ground plane and the metamaterial ground plane and the top of the first conductive wall is located beyond the active radiator.

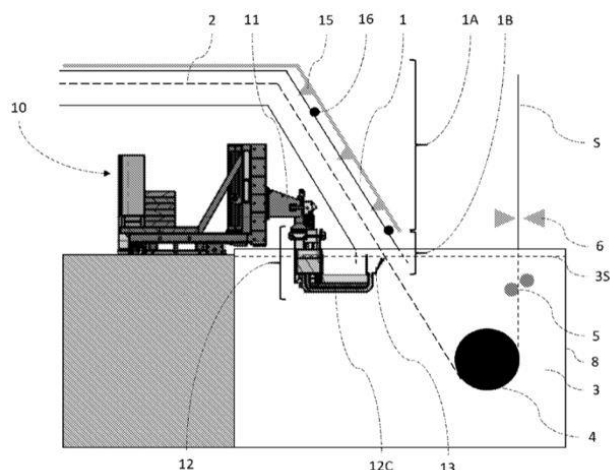


21: 2022/02172. 22: 2022/02/21. 43: 2022/08/29
51: C23C
71: ARCELORMITTAL
72: Hubert SAINT-RAYMOND, Amico SETTEFRATI, Bert VAN NIEUWENHUYZE, Kristof VAN DYCK, Freddy KREPS, Woudhouh MEMNI, Jose VEG
33: IB 31: PCT/IB2019/057602 32: 2019-09-10

54: MOVEABLE OVERFLOW

00: -

The invention relates to an equipment for the continuous hot dip-coating of a metallic strip comprising: - an annealing furnace, - a tank containing a liquid metal bath, - a snout connecting the annealing furnace and said bath, through which the metallic strip runs in a protective atmosphere and the lower part of said snout, the snout tip, is at least partly immersed in the liquid metal bath in order to define with the surface of the bath, and inside this snout, a liquid seal, - a moveable support system, on at least one tank side, comprising connecting means, - an overflow connected to said moveable support system through said connecting means, comprising at least one vat and at a least one pump.



21: 2022/02184. 22: 2022/02/21. 43: 2022/09/01

51: A61L; B33Y

71: POLBIONICA SP. Z O. O.

72: WSZOLA, Michał, KŁAK, Marta, BERMAN, Andrzej, KOSOWSKA, Katarzyna, BRYNIARSKI, Tomasz, DOBRZANSKI, Tomasz, TYMICKI, Grzegorz, GOMOLKA, Magdalena, KOWALSKA, Patrycja, CYWONIUK, Piotr, TUROWSKI, Paweł, ZAMORA, Igor, OLENDER, Ewa, OLKOWSKI, Radosław, KAMINSKI, Artur

33: EP 31: 19461559.7 32: 2019-07-22

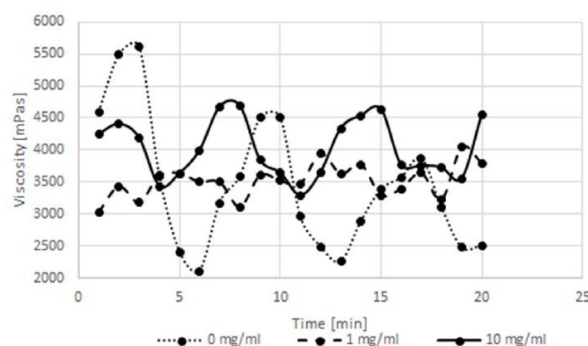
33: EP 31: 19218191.5 32: 2019-12-19

54: DETERGENT-FREE DECELLULARIZED EXTRACELLULAR MATRIX PREPARATION METHOD AND BIOINKS FOR 3D PRINTING

00: -

The invention concerns a detergent-free decellularized ECM preparation method, a

de detergent-free decellularized ECM in a powder form and in a liquid form, a method of preparation of a primary bioink, the primary bioink, a method of preparation of a vascular bioink, the vascular bioink, a three dimensional structure comprising the primary bioink and/or the vascular bioink and a method of preparation of the three-dimensional structure.



21: 2022/02225. 22: 2022/02/22. 43: 2022/09/16

51: G07C

71: KARFORMA, Dr. Sunil, NANDI, Subhadip, ROY, Dr. Sandip, BOSE, Dr. Rajesh, KUMARI, Anchal, SAHA, Debasmita, ROY, Rintu, SINHA, Rishi, GUPTA, Sanjana, NAG, Soham

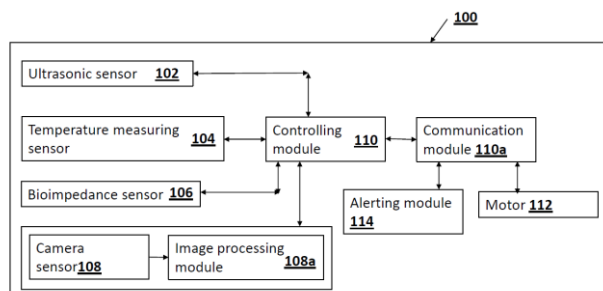
72: KARFORMA, Dr. Sunil, NANDI, Subhadip, ROY, Dr. Sandip, BOSE, Dr. Rajesh, KUMARI, Anchal, SAHA, Debasmita, ROY, Rintu, SINHA, Rishi, GUPTA, Sanjana, NAG, Soham

54: AN IOT BASED SMART ENTRANCE SYSTEMS AND A METHOD THEREOF

00: -

A system for smart entrance, comprises of: an ultrasonic sensor for measuring distance between consecutive users; a temperature measuring sensor for measuring temperature of atleast a user from a safe distance; a bioimpedance sensor for contactless measuring a plurality of health parameters associated with the user; a camera sensor for detecting face of the user using image processing module, wherein the image of the user with and without a face mask is identified using the image processing module; a controlling module generates a first command signal when the temperature of the user exceeds a threshold value, a second command signal when the plurality of health parameters exceeds and a third command signal is generated when the user is detected without the face mask, wherein when the first command signal and the third command signal is generated the

entrance is locked prohibiting entry of the user inside the premises, else the entrance remains unlocks.



21: 2022/02294. 22: 2022/02/23. 43: 2022/08/11

51: B01J

71: SPCM SA

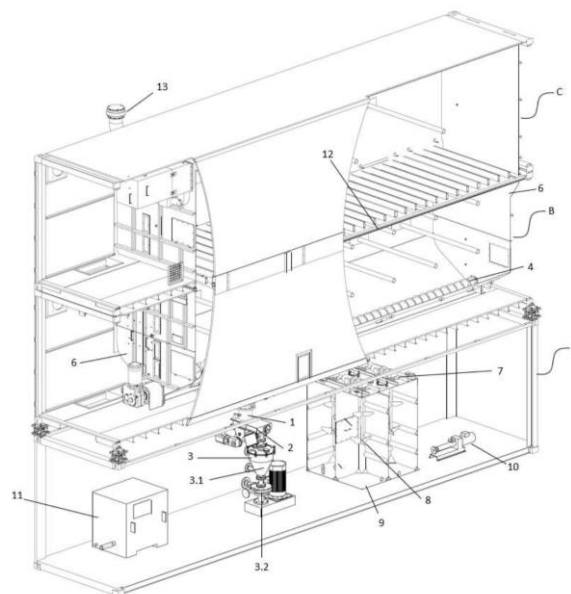
72: RIVAS, Christophe, CHALIEUX, Nicolas

33: FR 31: 2200495 32: 2022-01-20

54: INSTALLATION FOR THE STORAGE AND USE OF WATER-SOLUBLE POLYMERS

00: -

Installation for storing, metering, and dissolving water-soluble polymer particles, in particular for enhanced oil and/or gas recovery operations comprising a so-called "polymer dissolution" container A, characterized in that it further comprises at least one so-called "polymer storage and distribution" container B positioned upon container A, and in that the bottom of container B and the roof of container A each have an opening facing one another allowing the passage of the polymer from container B into the supply means of container A, and in that the installation further comprises a means of connection able to work with the polymer supply means.



21: 2022/02334. 22: 2022/02/23. 43: 2022/08/23

51: E04H

71: RTS TRUST

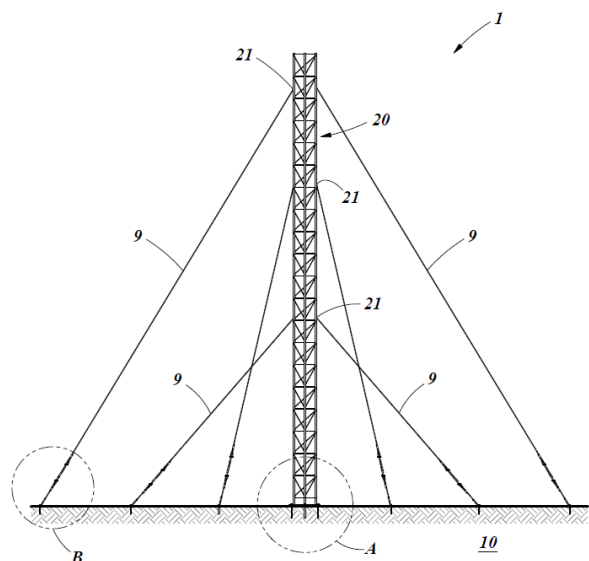
72: DIRK VAN DER BANK BOTHMA

33: ZA 31: 2021/01194 32: 2021-02-23

54: TOWER STRUCTURE

00: -

This invention relates to a tower structure and more particularly, but not exclusively, to a lattice tower structure that does not employ heavy concrete anchor or foundation blocks. The tower structure consists of an upright tower and at least one anchor extending into an adhesive in a borehole in the ground.

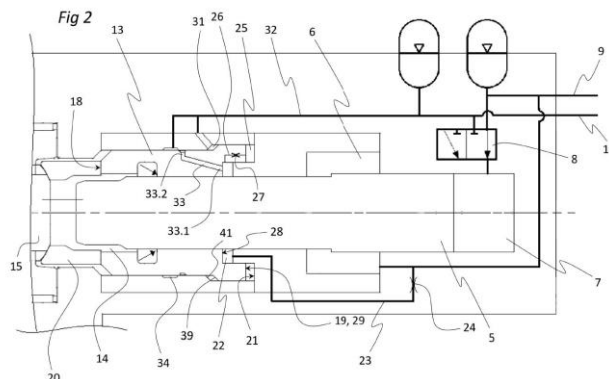


21: 2022/02360. 22: 2022/02/24. 43: 2022/08/29
51: B25D; E21B
71: MONTABERT
72: CHEYLUS, François-Xavier, ESCOLLE, Michel
33: FR 31: 21/01949 32: 2021-03-01

54: HYDRAULIC ROTARY-PERCUSSIVE HAMMER DRILL PROVIDED WITH A STOP PISTON

00: -

The hydraulic rotary-percussive hammer drill comprises a body; a shank (15); a striking piston (5) configured to hit the shank (15); a stop piston (13) configured to position the shank (15) in a predetermined balanced position, the body and the stop piston (13) delimiting a first control chamber (22) permanently connected to a high-pressure fluid feed-in conduit (9) and configured to urge the stop piston (13) forwards, and a second control chamber (25) configured to urge the stop piston (13) forwards. The hydraulic rotary-percussive hammer drill (2) comprises a fluidic communication channel (26) opening into the second control chamber (25), configured to supply the second control chamber (25) with high-pressure fluid and provided with a calibrated orifice (27).



21: 2022/02362. 22: 2022/02/24. 43: 2022/08/23
51: A61K; C07D
71: MIRATI THERAPEUTICS, INC., ARRAY BIOPHARMA INC
72: WANG, Xiaolun, BURNS, Aaron Craig, CHRISTENSEN, James Gail, KETCHAM, John Michael, LAWSON, John David, MARX, Matthew Arnold, SMITH, Christopher Ronald, ALLEN, Shelley, BLAKE, James Francis, CHICARELLI, Mark Joseph, DAHLKE, Joshua Ryan, DAI, Donghua, FELL, Jay Bradford, FISCHER, John Peter, MEJIA, Macedonio J., NEWHOUSE, Brad, NGUYEN, Phong, O'LEARY, Jacob Matthew, PAJK, Spencer, RODRIGUEZ, Martha E., SAVECHENKOV, Pavel, TANG, Tony P., VIGERS, Guy P.A., ZHAO, Qian, KAHN, Dean Russell, GAUDINO, John, HILTON, Michael Christopher
33: US 31: 62/893,604 32: 2019-08-29
33: US 31: 63/052,840 32: 2020-07-16
33: US 31: 63/058,188 32: 2020-07-29

54: KRAS G12D INHIBITORS

00: -

The present invention relates to compounds that inhibit KRas G12D. In particular, the present invention relates to compounds that inhibit the activity of KRas G12D, pharmaceutical compositions comprising the compounds and methods of use therefor.

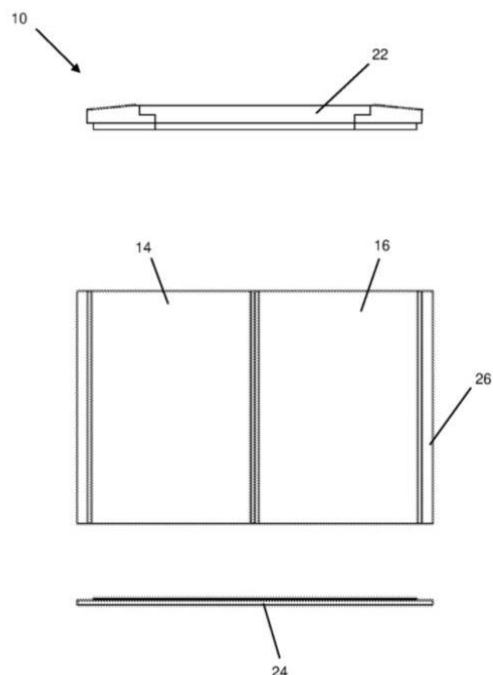
21: 2022/02418. 22: 2022/02/25. 43: 2022/08/30
51: E02D; E03F
71: Luke Stanton RADEMAN
72: Luke Stanton RADEMAN
33: ZA 31: 2019/05806 32: 2019-09-03

54: UNDERGROUND CHAMBER ARRANGEMENT

00: -

The invention discloses an underground chamber arrangement, which includes at least two panels without stiffening ribs and being adapted to form a cylinder when joined together. The arrangement

includes a top slab or coping adapted to be located on top of the cylinder and to close off the cylinder. The arrangement includes a base on which the cylinder is adapted to be supported. The arrangement may be manufactured from Fiber reinforced Concrete and/or Polymer Concrete and/or Fiber Cement.



21: 2022/02487. 22: 2022/02/28. 43: 2022/08/23

51: A01N; C05G; A01P

71: CHINTHALA, Venkat Reddy

72: CHINTHALA, Venkat Reddy

33: IN 31: 201941031393 32: 2019-08-02

54: COMPOSITION TO ENHANCE NUTRIENT CONTENT IN PLANTS

00: -

The current disclosure relates to a chemical-free composition that increases the nutritive value of crops, by increasing vitamin levels in the crop produce. The composition disclosed in the current invention also increases crop yield. The composition does not contain any chemicals and can increase vitamin levels in the crop produce by non-transgenic means, which can help to alleviate deficiency diseases due to malnutrition in an inexpensive and sustainable manner.

21: 2022/02924. 22: 2022/03/10. 43: 2022/09/08

51: B01D; B09B; C02F; C11B

71: HYTECH CARBON COMPOSITES (NANJING) CO.,LTD.

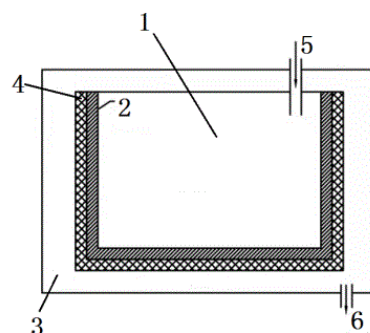
72: ZHANG, Wanhui, LI, Fangli, LI, Xianqiang, SUN, Wenqi, ZHANG, Zhaoyang

33: CN 31: 202111299263.3 32: 2021-11-04

54: OIL-WATER SEPARATION APPARATUS AND OIL-WATER SEPARATION METHOD

00: -

The disclosure provides an oil-water separation apparatus and an oil-water separation method, and relates to the technical field of waste water treatment apparatuses. A water phase can be drained out of a separation chamber and an oil phase can be blocked in the separation chamber by an environment-friendly functional membrane material, so that oil and water are completely separated; and water flowing out of the separation chamber is recycled by the clean water chamber. The oil-water separation apparatus provided by the disclosure is simple and easy to operate and high in oil-water separation efficiency, and the 100% separation effect on the oil-water mixture can be achieved.



21: 2022/02925. 22: 2022/03/10. 43: 2022/09/08

51: C02F; C08J

71: SHAOXING CHORAY COMPOSITES CO., LTD.

72: LI, Fangli, ZHANG, Wanhui, LI, Xianqiang, SUN, Wenqi, ZHANG, Zhaoyang

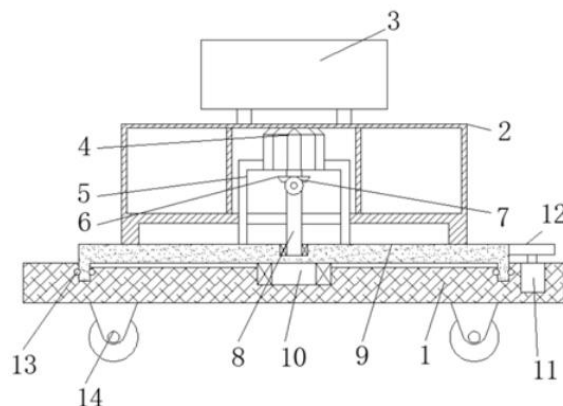
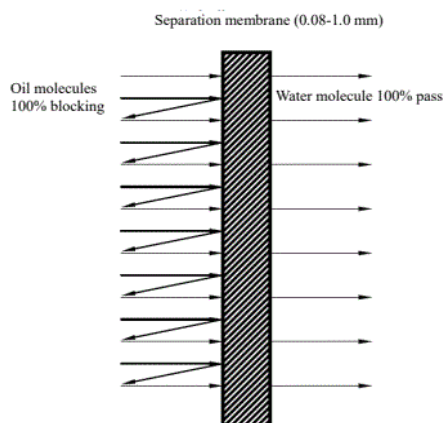
33: CN 31: 202111299878.6 32: 2021-11-04

54: ENVIRONMENT-FRIENDLY FUNCTIONAL MEMBRANE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The disclosure provides an environment-friendly functional membrane material and a preparation method and application thereof, and relates to the technical field of membrane materials. The environment-friendly functional membrane material provided by the disclosure comprises the following preparation raw materials in parts by mass: 80-91

parts of cassava starch, 9-20 parts of polyvinyl alcohol resin, 20-28 parts of plastifying modifier, 5-10 parts of water-based lubricant, 5-10 parts of nucleating modifier, 5-10 parts of heat stabilizer and 0.3-0.8 part of antioxidant. The environment-friendly functional membrane material provided by the disclosure can completely separate an oil-water mixture, has complete biodegradability, and is more environmentally friendly.



21: 2022/03101. 22: 2022/03/15. 43: 2022/09/08
51: A23P

71: SHANXI AGRICULTURAL UNIVERSITY
SHANXI FUNCTIONAL FOOD RESEARCH
INSTITUTE

72: ZHANG, Jiangning, YANG, Chun, YE, Zheng,
DING, Weiying, HAN, Jiming, LI, Qi, ZHANG, Ling,
MAO, Kai

54: FRUIT AND VEGETABLE ENZYME FERMENTATION EQUIPMENT CAPABLE OF MAINTAINING BIOLOGICAL ACTIVITY

00: -

A fruit and vegetable enzyme fermentation equipment capable of maintaining biological activity, comprising a fermentation tank. The equipment comprises a fermentation tank, wherein feeding ports are formed in one side of the top of the fermentation tank and connected with a cold sterilization device; a discharge port is formed in one side of the bottom of the fermentation tank, the bottom of the fermentation tank is mounted on a bottom plate, and a stirrer is further mounted in the middle in the fermentation tank and can stir materials; a partition plate is further mounted in the fermentation tank, an air inlet chamber is formed between the partition plate and the bottom of the fermentation tank, a plurality of air nozzles are arranged on the partition plate, an air inlet is formed in the air inlet chamber and connected with an air supply device through an air inlet pipe.

21: 2022/02961. 22: 2022/03/11. 43: 2022/09/14
51: G06F

71: Dezhou University

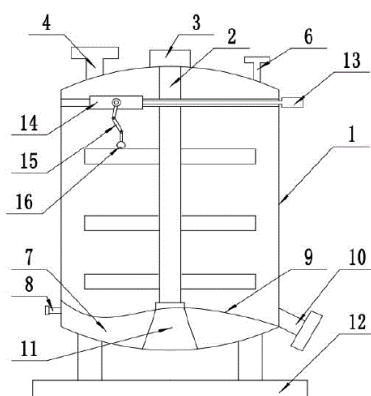
72: GAO, Xiulian, GUO, Changyou, YIN, Xiuling

33: CN 31: 202110269659.7 32: 2021-03-12

54: ANALYSIS DEVICE FOR NETWORK BIG DATA

00: -

Disclosed is an analysis device for network big data. The device includes a base with a rotary plate, the rotary plate is provided with a frame body, each corner of the base is provided with a roller, the frame body is fixedly connected to a display screen and provided with a recess, the recess is provided with an electric motor, the electric motor are fixedly connected to sliding rods, an output shaft of the electric motor is connected to a lead screw, the lead screw is inserted into the rotary plate, a connection bearing is arranged between the lead screw and the rotary plate, and the sliding rods are connected to the rotary plate. Only heat of the device is dissipated in a process of increasing a height. The device can be adjusted well and keep stable in an adjustment process, thereby greatly improving operating efficiency of workers.



21: 2022/03235. 22: 2022/03/18. 43: 2022/09/06
51: A23B

71: HEBEI NORMAL UNIVERSITY OF SCIENCE & TECHNOLOGY

72: ZHAO, Yuhua, WU, Jiaxiu, GUO, Haoning, CHANG, Xuedong

54: GREEN ASPARAGUS PRESERVATION METHOD

00: -

The present invention provides a green asparagus preservation method. The method includes: bundling green asparagus; pre-cooling the green asparagus in a refrigeration house; stepwise cooling the green asparagus during pre-cooling; maintaining relative humidity of the refrigeration house at 85%-90%; and after pre-cooling, maintaining the lowest temperature of the refrigeration house to be higher than a freezing temperature of the green asparagus by 0.5-1 $^{\circ}$ C, and maintaining the relative humidity at 90% or higher.

21: 2022/03239. 22: 2022/03/18. 43: 2022/09/06
51: A23K

71: SHANDONG NONGWEI BIOLOGICAL TECHNOLOGY CO., LTD.

72: FENG, Yanzhong, HE, Lanbao, WANG, Zhaoshan, LIU, Jianhe

54: FEED ADDITIVE FOR PROMOTING LIVESTOCK GROWTH AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention discloses a feed additive for promoting livestock growth and enhancing disease resistance as well as a preparation method and an application thereof. The feed additive includes the following components: a Bifidobacterium microbial

agent, a Lactobacillus curvatus microbial agent and a Bacillus cereus microbial agent. The present invention further discloses a preparation method of the feed additive. The preparation method includes: (1) respectively mixing the Bifidobacterium microbial agent, the Lactobacillus curvatus microbial agent and the Bacillus cereus microbial agent with ingredients to prepare a Bifidobacterium microbial agent premix, a Lactobacillus curvatus microbial agent premix and a Bacillus cereus microbial agent premix; and (2) uniformly mixing the above microbial agent premixes.

21: 2022/03343. 22: 2022/03/22. 43: 2022/07/06
51: C13K

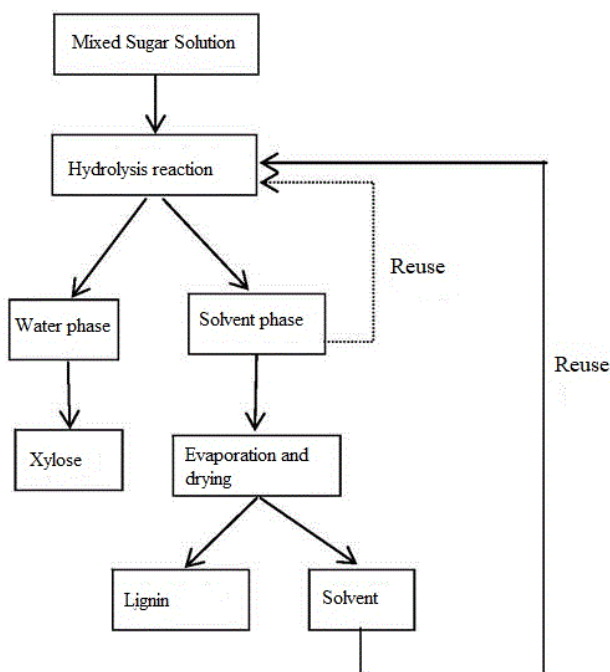
71: HEALTANG BIOTECH CO., LTD.

72: JIANG, Chengzhen, GAO, Shaofeng, SHI, Feng
33: CN 31: 201910779821.2 32: 2019-08-22

54: METHOD FOR SEPARATING XYLOSE AND LIGNIN FROM MIXED SUGAR SOLUTION

00: -

The present invention relates to a method for separating hemicellulose and lignin from a mixed sugar solution, in particular to a method for separating xylose and lignin from a mixed sugar solution. The method of the present invention solves the problem of lignin carbonization and fouling in the hydrolysis reaction process of the mixed sugar solution mixed solution. By adding an organic solvent, the lignin separated out in the hydrolysis reaction process is dissolved in the organic solvent component, so the situation that the carbonization and fouling of lignin in a reactor generates substances unfavorable for actual production is avoided. Moreover, the lignin is well protected in the organic solvent, and the lignin obtained in a later period has high reaction activity and excellent performance.



21: 2022/03375. 22: 2022/03/23. 43: 2022/07/13
51: G01V

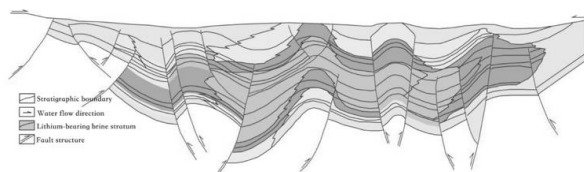
71: THE THIRD GEOLOGICAL EXPLORATION
INSTITUTE OF QINGHAI PROVINCE

72: Junhai Meng, Zhonghong Yu, Mingfeng Zhong,
Fengting Li, Guoqiang Xue, Yong Li, Xuefeng Ling

**54: GEOPHYSICAL EXPLORATION METHOD
AND GEOPHYSICAL EXPLORATION SYSTEM
FOR LITHIUM DEPOSITS IN SALT LAKES**

00: -

The present invention provides a geophysical exploration method and a geophysical exploration system for lithium deposits in salt lakes. The electromagnetic method combined with the seismic method could detect the deep lithium deposit in favorable regions of anticlines in salt lakes. First, a low-resistance region is located by electromagnetic method, and the position and physical structure of the deep lithium deposit in salt lakes are preliminarily determined. Then, an anticline region is detected by using the seismic method. Finally, the position and the stratigraphic interface structure of the deep lithium deposit in salt lakes are precisely determined.



21: 2022/03376. 22: 2022/03/23. 43: 2022/09/05

51: A23K; A23L; C12N; C12R

71: ANIMAL HUSBANDRY AND VETERINARY
BRANCH, HEILONGJIANG ACADEMY OF
AGRICULTURAL SCIENCES

72: LI, Xuye, YOU, Haiyang, DONG, Yang, BAI,
Changsheng, GUO, Wenkai, LI, Li, WANG, Min, LIU,
Zedong, WANG, Jia, GUO, Chunhui

**54: MICROBIAL PREPARATION FOR REDUCING
CONTENT OF AFLATOXIN IN CORN SILAGE
FODDER**

00: -

The present application provides a microbial preparation for reducing a content of aflatoxin in corn silage fodder, which contains microorganisms selected from *Lactobacillus plantarum*, *Bifidobacterium bifidum*, *Lactobacillus rhamnosus* and *Botrytis cinerea*. The microbial preparation of the present application not only reduces the content of aflatoxin in silage products, but also can inhibit the increasing speed of the aflatoxin content during aerobic exposure.

21: 2022/03445. 22: 2022/03/24. 43: 2022/07/27

51: A61K; C07K

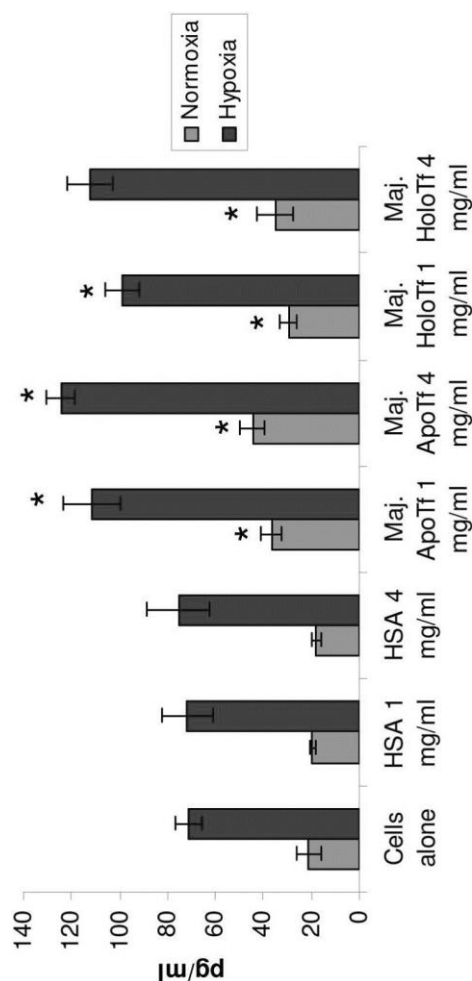
71: GRIFOLS WORLDWIDE OPERATIONS
LIMITED

72: ROSS, David A., CRUMRINE, Ralph Christian
33: US 31: 62/023446 32: 2014-07-11

**54: COMPOSITIONS FOR USE IN TREATING
HYPOXIA INDUCIBLE FACTOR (HIF)-RELATED
CONDITIONS**

00: -

The present invention relates to compositions for use in methods of treatment of Hypoxia Inducible Factor (HIF)-related conditions, and in particular to compositions comprising transferrins.



21: 2022/03759. 22: 2022/04/01. 43: 2022/09/01
51: F24D; F24S

71: FOURIE, JAMES ROGER

72: FOURIE, JAMES ROGER

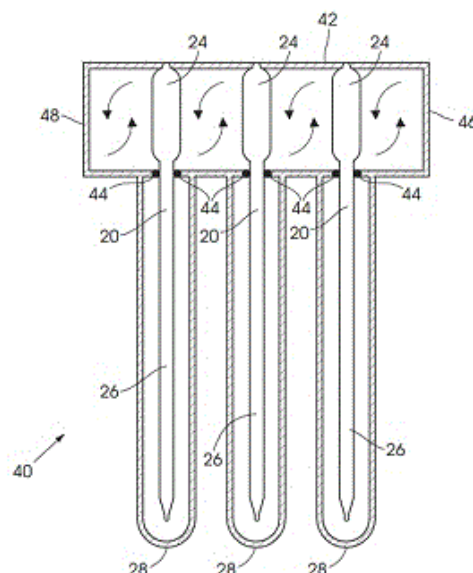
33: ZA 31: 2021/02212 32: 2021-04-01

54: A SOLAR WATER HEATING SYSTEM

00: -

This invention relates to a solar fluid heating system 40. The system includes a container 42 for receiving fluid, and a plurality of longitudinal heat collectors 20 each having a condenser section 24 at one end, and a heat collecting portion 26 connected to an aperture 44 on the container 42 by welding, and extending from the condenser section 24 an opposite end of the heat collector 20. The individual heat collectors 20 are directly connected to and extends through an aperture 44 on the container 42, such that, at least a portion of the condenser section 24 is in direct communication with the fluid in the container 42. In use, heating the heat collecting portion 26 results in the transfer of heat to the condenser section 24 by

conduction to directly heat the fluid in the container 42.



21: 2022/03855. 22: 2022/04/05. 43: 2022/08/26
51: A01K

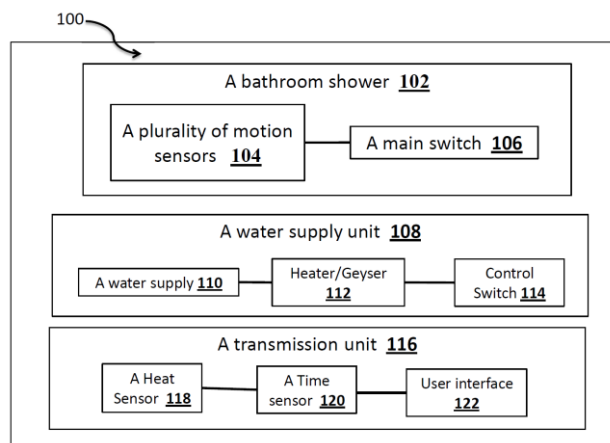
71: DINESH SINGH, SHALU SINGH, PURNENDU BIKASH ACHARJEE, SUSHIL BHARDWAJ, ABINASH RATH, TRIPTI RANI BORAH, BHUPAESH GHAI, INDU SHARMA, SURBHI SHARMA, RAMESH CHANDRA PANDA
72: DINESH SINGH, SHALU SINGH, PURNENDU BIKASH ACHARJEE, SUSHIL BHARDWAJ, ABINASH RATH, TRIPTI RANI BORAH, BHUPAESH GHAI, INDU SHARMA, SURBHI SHARMA, RAMESH CHANDRA PANDA

54: AN IOT BASED SWIRLING BATH SHOWER SYSTEM

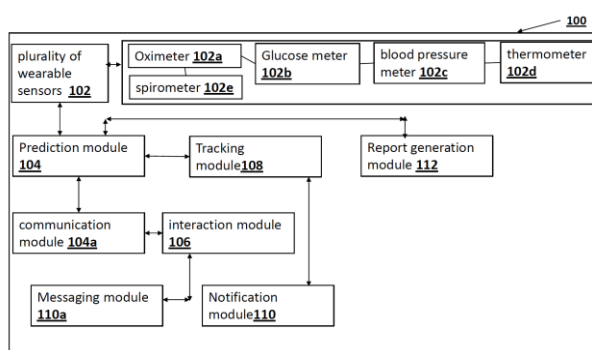
00: -

The present disclosure relates to an IoT based swirling bath shower system. The proposed system mainly includes a bathroom shower which is embedded with plurality of motion sensors which detects the motion of the person under the shower and according to that the bathroom shower performs the swirling action. In the proposed system a user can turn on the heater/geyser remotely with the help of a wireless channel and once he is notified about the water being heated on the user interface, wherein the signal is transmitted by the heat sensor and time sensor, the person then enters the bathroom can take shower where the bathroom shower will perform the swirling action. The present

disclosure aims to make the shower experience better and effortless.



21: 2022/03856. 22: 2022/04/05. 43: 2022/08/19
 51: A61B
 71: BHUPINDER SINGH MAVI, BALJIT SINGH KHEHRA, ARJAN SINGH, HARMANDEEP SINGH GILL, HARNOOR KAUR KHEHRA
 72: BHUPINDER SINGH MAVI, BALJIT SINGH KHEHRA, ARJAN SINGH, HARMANDEEP SINGH GILL, HARNOOR KAUR KHEHRA
54: A CHRONIC CARE MANAGEMENT SYSTEM AND A METHOD THEREOF
 00: -
 A Chronic Care Management system for monitoring a user, wherein comprises of: a plurality of wearable sensors for measuring a plurality of health parameter of the user and stored in a cloud storage module; a prediction module for predicting a disease based on the plurality of health parameter measured, wherein an interaction module establishes interaction between a medical professional and the user via a communication module, to diagnose the predicted disease; a plurality of tracking module for tracking a real time status of a medication prescribed based on the predicted disease as well as track availability of bed in nearby hospital and appointments with the medical professional, and are set as reminder; and a notification module for generating alerts when the plurality of health parameters exceed beyond a threshold value, wherein if the user responds within a defined interval of time, then the generated alerts are normalized.



21: 2022/03921. 22: 2022/04/06. 43: 2022/07/12
 51: E02D
 71: CHINA HARBOUR ENGINEERING COMPANY LTD.

72: HE, JUNBIAO
 33: CN 31: 202110886728.9 32: 2021-08-03

54: METHOD FOR PILE FOUNDATION CONSTRUCTION OF OFFSHORE PLATFORM

00: -
 Disclosed is a method for pile foundation construction of an offshore platform, comprising the following steps of: S1: manufacturing a steel truss of a bearing platform, wherein the steel truss of the bearing platform is provided with a plurality of pile holes distributed in rows and columns; S2: according to positions of drill holes and a water depth of an offshore construction site, determining a length of a pile foundation; S3: pulling the steel truss of the bearing platform to the offshore construction site, making the pile holes correspond to the positions of the drill holes one by one, lifting and inserting the pile foundation into the pile holes and lowering to the drill holes, and piling to a predetermined depth with a vibrating hammer; and S4: fixing the steel truss of the bearing platform with the pile foundation to a designed height, and welding a panel above the steel truss of the bearing platform to form an offshore platform. The method has a simple structure and a strong construction adaptability, is suitable for offshore drilling, engineering investigation and other engineering operations, and can implement horizontal and vertical extension according to engineering requirements to increase an application range.

21: 2022/04127. 22: 2022/04/12. 43: 2022/09/16
 51: G06F
 71: CHAUDHARI, Anagha, RAUT, Roshani, JADHAV, Anuja, PATIL, Sonali, JHAVERI, Rutvij,

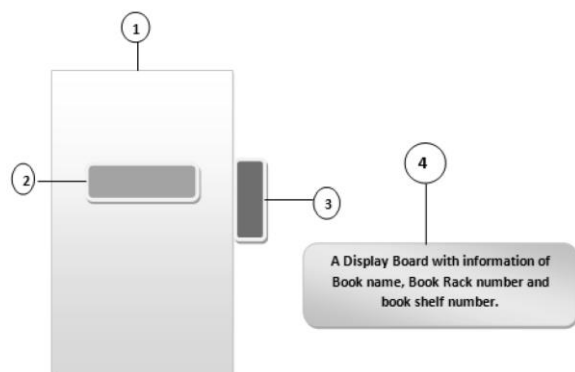
JAISWAL, Swati, SURYAWANSHI, Kavita, MANE, Deepak

72: CHAUDHARI, Anagha, RAUT, Roshani, JADHAV, Anuja, PATIL, Sonali, JHAVERI, Rutvij, JAISWAL, Swati, SURYAWANSHI, Kavita, MANE, Deepak

54: A RAPID BOOK ACCESS DEVICE

00: -

The present invention relates a rapid book access device. Our system aims to reduce the human efforts in searching the book in a huge library system and attempts to break through the conventional system of remote and manual book access. The device enabled with a LED, sensor and display board with all provisions. And the mobile app system provided with the Drop-Down list of the specific organization database, from which the user can choose the required book to be accessed. It also indicates the book status information display screen which will display the status of file search.



21: 2022/04128. 22: 2022/04/12. 43: 2022/09/16
51: H04L

71: ARUN KUMAR RANA, SOUVIK GANGULI, RAJU KUMAR SWAMI, NIRAV KARELIA, SUSHOVAN CHAUDHURY, VIPIN CHANDRA PAL

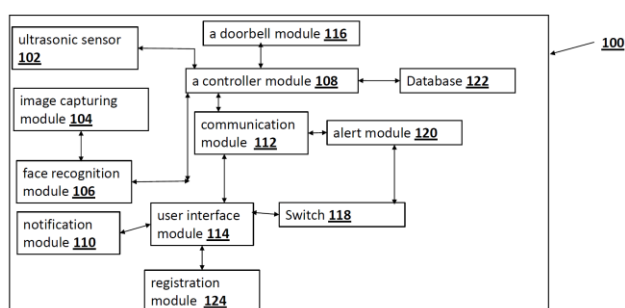
72: ARUN KUMAR RANA, SOUVIK GANGULI, RAJU KUMAR SWAMI, NIRAV KARELIA, SUSHOVAN CHAUDHURY, VIPIN CHANDRA PAL

54: AN IOT BASED CONTACTLESS DOOR BUZZER AND HOME SECURITY SYSTEM AND A METHOD THEREOF

00: -

A system (100) for developing an IoT based contactless Door Buzzer & Home Security, comprises of: an ultrasonic sensor (102) for detecting moment of an individual or any object in close proximity of a door; an image capturing module (104) for recording image or video of

individuals; a face recognition module (106) for detecting the individual to be a known individual or an unknown individual; a controller module (108) for generating a first command signal to produce a welcome signal upon identification of the known individual, and a second command signal for producing an alert/alarm at the door if the owner detects a problem/break-in attempt; and a notification module (110) for sending an alert signal with an image of the known individual to a user interface module (114), wherein if the individual is unknown, an image is displayed and question or response is posted for the unknown individual.



21: 2022/04581. 22: 2022/04/25. 43: 2022/09/02
51: G08B

71: Chongqing University of Science and Technology

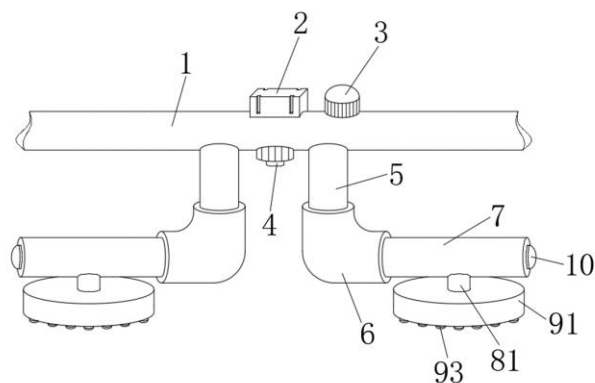
72: Mi, Hongfu, Wang, Wenhe, Zhang, Xiaomei, Peng, Chong, Niu, Yihui, Wang, Lili, Yang, Xue
33: CN 31: 202123307980.4 32: 2021-12-27

54: AUTOMATIC FIRE ALARM DEVICE FOR UNDERGROUND PIPE GALLERY CABLE CABIN

00: -

The present invention discloses an automatic fire alarm device used in an underground pipe gallery cable cabin, which including a main pipe whose top is fixed with a controller. An alertor is fixedly mounted at the bottom of the main pipe and located on the side where the controller is located. A heat sensing fire detector is fixedly mounted at the bottom of the main pipe and right below the controller. A first connecting pipe is fixedly mounted at the bottom of the main pipe and on both sides where the heat sensing fire detectors are located. Beneficial effects of the present invention: the present invention has a compact structure and is highly practical, the plurality of sub-pipelines provided in the bottom of the main pipe and the rotatable tube with a transmission blade provided inside the sub-pipeline

and the stream guidance mechanism provided in the bottom of the rotatable tube can enable the equipment to drive the rotatable tube and the stream guidance mechanism to rotate through the combination of the hydraulic pressure and the transmission blade during extinguishing the fire, thereby enlarging the range of the water mist sprayed by the equipment, thereby further improving the fire control effect.



21: 2022/04582. 22: 2022/04/25. 43: 2022/09/09
51: G01N

71: TIAN, Mingde

72: TIAN, Mingde, LIU, Lu, CHENG, Bin

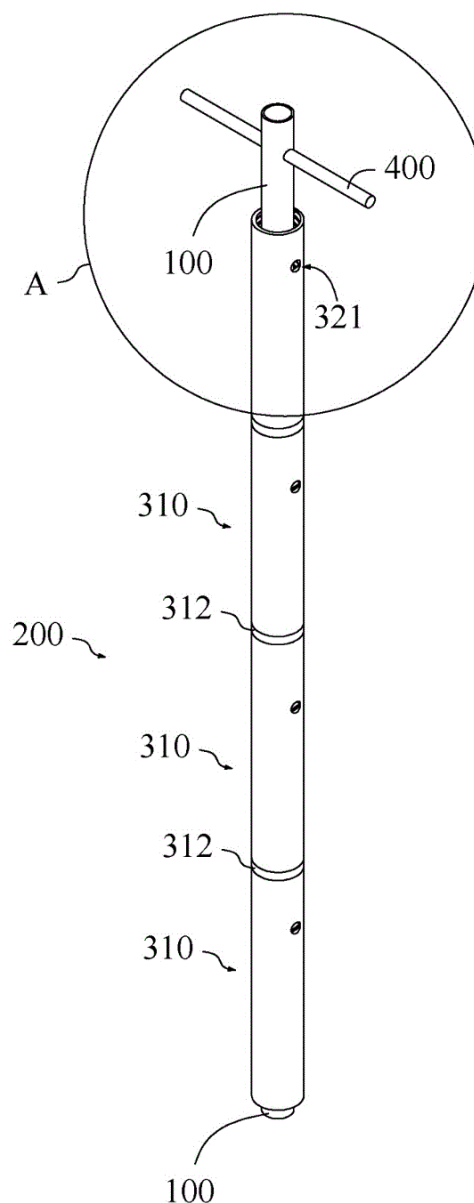
33: CN 31: 202210383430.0 32: 2022-04-13

54: SAMPLING DEVICE FOR GEOLOGICAL INVESTIGATION

00: -

The invention relates to the technical field of geological exploration, and discloses a sampling device for geotechnical investigation, which including a sampling tube and a fixing tube, the sampling tube being fitted in the fixing tube to perform soil sampling, the fixing tube including a plurality of inner tubes and a plurality of outer tubes that are connected to each other, the inner tube including an inner tube body and a retainer ring, the retainer ring being fixedly connected to a middle part of an outer side wall of the inner tube body, two outer tubes being respectively connected to the outer side wall of the inner tube body on two sides of the retainer ring, the outer tubes abutting against the retainer ring. The invention also provides a sampling device for geotechnical investigation, which including a sampling tube and a fixing tube, the sampling tube being fitted in the fixing tube to perform soil sampling, the fixing tube including a head tube, a variable-length tube assembly and a tail tube that

are connected in sequence, the variable-length tube assembly including a plurality of inner tubes and a plurality of outer tubes that are connected to each other, the head tube being provided with a cutting part forming a sawtooth structure near a sampling direction. The present invention is beneficial to improving the adaptability and sampling efficiency of soil sampling for geotechnical investigation.



21: 2022/04662. 22: 2022/04/26. 43: 2022/09/09
51: F26B

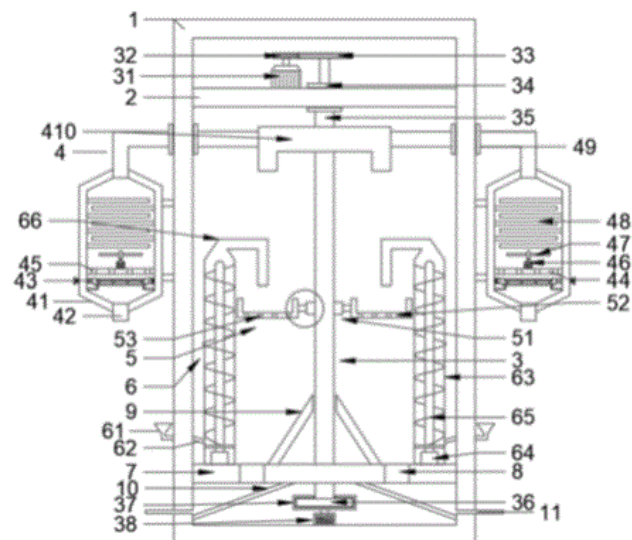
71: SUZHOU XUNNENG OPTOELECTRONICS TECHNOLOGY CO., LTD.

72: ZHOU, Fuzhen

33: CN 31: 202011312719.0 32: 2020-11-21

54: SPIRAL DISPERSION DRYER FOR LED SHELL MATERIAL COLOR MASTER BATCH
00: -

The present invention relates to the field of LED production, in particular to a spiral dispersion dryer for LED shell material color master batch which comprises a case, wherein a transverse plate is fixed to inner walls of a left portion and a right portion of an upper side of the case, a middle portion of the transverse plate penetrates through and is rotatably connected with a rotating device, the rotating device penetrates through a drying device, a middle portion of the rotating device is fixed with material receiving devices, upper sides of the material receiving devices are provided with feeding devices, lower portions of the feeding devices are fixed with a supporting plate, a left portion and a right portion of the support plate are fixed with inner walls of a left portion and a right portion of the case, the support plate is provided with feed openings, upper sides of the feed openings are provided with first stock guides, lower portions of the first stock guides are fixed with an upper surface of the supporting plate, lower portions of the supporting plate are fixed with second stock guides, and the two second stock guides are provided at left and right portions and discharging plates are provided with at both ends thereof. The present invention can not only dry the color master batch, but also realize integrated operation of feeding and blanking, which is convenient to use and highly practical.



21: 2022/04663. 22: 2022/04/26. 43: 2022/09/09

51: F21K

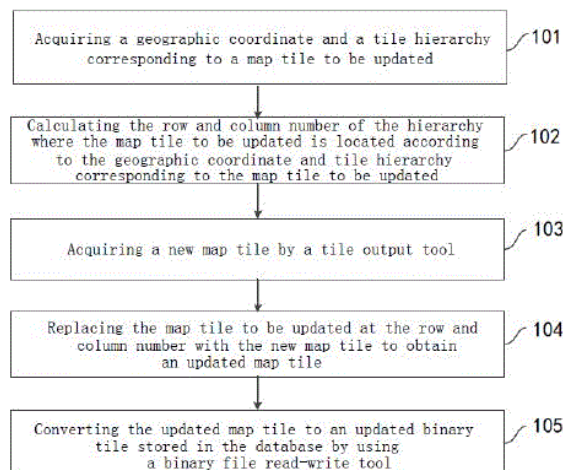
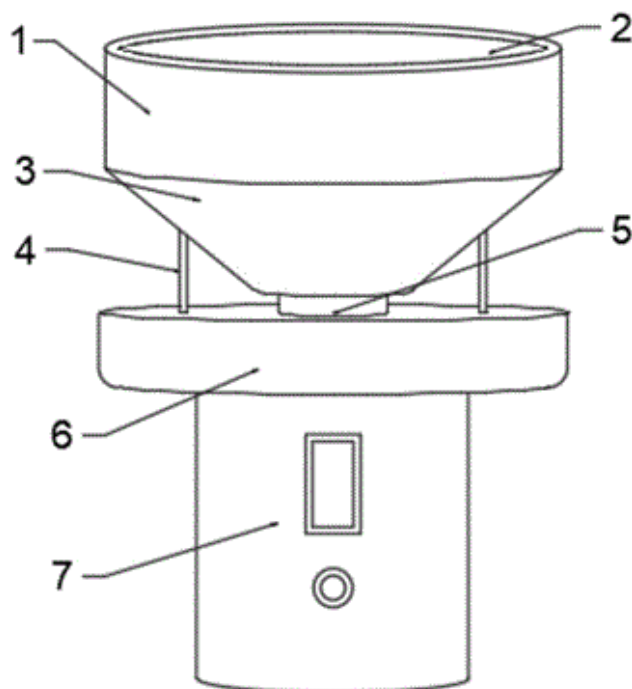
71: SUZHOU XUNNENG OPTOELECTRONICS TECHNOLOGY CO., LTD.

72: ZHOU, Fuzhen

33: CN 31: 202011312720.3 32: 2020-11-21

54: LED LAMP WITH AN ADJUSTABLE LUMINOUS RANGE
00: -

The present invention discloses a kind of LED lamp with adjustable luminous ranges, which comprises an adjusting cylinder, a lamp holder and a rod for fixing the lamp holder; a control box is arranged at a top portion of the adjusting cylinder; a mounting shell is communicated with the control box through a first fixing pipe; fixing frames are arranged between the mounting shell and the control box; an adjusting cover is provided on a top portion of the mounting shell; a condenser is provided on the adjusting cover; the rod for fixing the lamp holder is provided at a bottom end of the lamp holder; a plurality of LED lamps are provided at a top end of the lamp holder; the bottom end of the rod for fixing the lamp holder extends into the adjusting cylinder; an adjusting mechanism is arranged in the adjusting cylinder corresponding to the rod for fixing the lamp holder; the adjusting cover and the mounting shell are communicated to form an angle adjusting cavity; and a reflector adjusting mechanism is provided on the angle adjusting cavity. The present invention is convenient to adjust, and has a good effect on adjusting the luminous ranges of the LED.



21: 2022/04843. 22: 2022/05/03. 43: 2022/08/25

51: G06F

71: Chinese Academy of Surveying and Mapping

72: LU, Wenjuan, MA, Zhaoting, YIN, Jie, YIN, Yong, WU, Zheng, YANG, Xiao

33: CN 31: 202111578584.7 32: 2021-12-22

54: MAP TILE PARTIAL UPDATE METHOD AND SYSTEM

00: -

The invention relates to a map tile partial update method and system. The method includes acquiring a geographic coordinate and a tile hierarchy corresponding to a map tile to be updated; calculating the row and column number of the hierarchy where the map tile to be updated is located according to the geographic coordinate and tile hierarchy corresponding to the map tile to be updated; acquiring a new map tile by a tile output tool; replacing the map tile to be updated at the row and column number with the new map tile to obtain an updated map tile; and converting the updated map tile to an updated binary tile stored in the database by using a binary file read-write tool. The present invention updates a corresponding tile in a database by directly updating a single or multiple map tile files in map tiles.

21: 2022/04844. 22: 2022/05/03. 43: 2022/08/25

51: H01B

71: Henan leshan cable Co., LTD

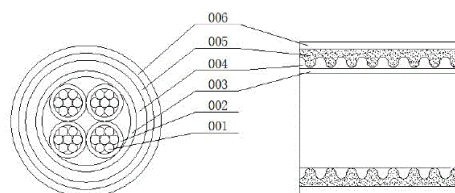
72: HU, Gaosong, HUANG, Yongchang, LAN, Guoqing, FAN, Cong, YANG, Xing, JIANG, Xiaohong, CHEN, Jisheng

33: CN 31: 202210276185.3 32: 2022-03-21

54: RATS AND ANTS PREVENTING MINERAL-INSULATED FIRE-PROOF CABLE AND PREPARATION METHOD THEREOF

00: -

The present invention relates to the technical field of cables, and in particular to a rats and termites-preventing mineral-insulated fire-proof cable and a preparation method thereof, wherein the fire-proof cable comprises a cable core formed by twisting a plurality of wire cores, each wire core comprises a conductor arranged at the center and an insulation layer coated on the outside of the conductor, a layer of cpp band is provided outside the cable core, the cpp band is coated with a layer of copper metal tape, the copper metal band is coated with a layer of fire-proofing mud, and the fire-proofing mud is coated with an outer protective layer. The present invention has the function of preventing rats and termites, and expands the scope of application of the cable.



21: 2022/04978. 22: 2022/05/06. 43: 2022/07/13

51: A61K; A61P; C07K

71: Eli Lilly and Company

72: DEMAREST, Stephen John, KOESTER, Anja, MEHTA, Payal, POTTER, Scott Charles, RUIZ, Diana Isabel, WITCHER, Derrick Ryan, WU, Xiufeng

33: US 31: 62/731,204 32: 2018-09-14

54: CD200R AGONIST ANTIBODIES AND USES THEREOF

00: -

The present invention relates to anti-human CD200R agonist antibodies, and uses thereof for treating diseases such as atopic dermatitis, chronic spontaneous urticaria, allergy, asthma, scleroderma, IBD, SLE, MS, RA, GvHD, or psoriasis.

21: 2022/04979. 22: 2022/05/06. 43: 2022/07/13

51: A61K

71: Zoetis Services LLC

72: DE FREITAS, Carla Maria Batista, DOS SANTOS, Maria Carolina Ferreira, DOMINOWSKI, Paul Joseph, GEERLIGS, Harmen Jacob

33: US 31: 62/344,598 32: 2016-06-02

54: VACCINE AGAINST INFECTIOUS BRONCHITIS

00: -

Poultry vaccines against infectious bronchitis and Turkey Rhinotracheitis are provided. The vaccines are adjuvanted with oil emulsion containing an immunostimulatory oligonucleotide. The methods of using the vaccines are also provided.

21: 2022/04980. 22: 2022/05/06. 43: 2022/07/13

51: A61K

71: Zoetis Services LLC

72: DE FREITAS, Carla Maria Batista, DOS SANTOS, Maria Carolina Ferreira, DOMINOWSKI, Paul Joseph, GEERLIGS, Harmen Jacob

33: US 31: 62/344,598 32: 2016-06-02

54: VACCINE AGAINST INFECTIOUS BRONCHITIS

00: -

Poultry vaccines against infectious bronchitis and Turkey Rhinotracheitis are provided. The vaccines are adjuvanted with oil emulsion containing an immunostimulatory oligonucleotide. The methods of using the vaccines are also provided.

21: 2022/05085. 22: 2022/05/09. 43: 2022/07/14

51: C08L

71: SICHUAN UNIVERSITY OF LIGHT CHEMICAL TECHNOLOGY, SICHUAN ZHIXIANGYI

TECHNOLOGY CO., LTD, SICHUAN ZHIRENFA BIOTECHNOLOGY CO., LTD.

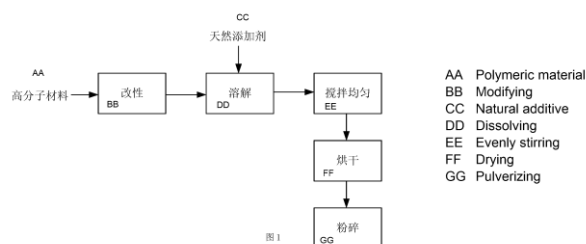
72: WANG, CHEN YU, TSOU, CHIH-YUAN (CHINA), Luo Xin, TSOU, CHI-HUI, LIN LI, CHEN SHUANG, MANUEL REYES DE GUZMAN (CHINA), PRANUT POTIYARAJ (THAILAND), WILFRED EMORI (CHINA), BIN LIAO (CHINA), SUN, YA-LI (CHINA), PI, LIN (CHINA), CHEN XINGYOU (CHINA), HU, XUE-FEI (CHINA), WEI XIAOMEI (CHINA), YA LING LI (CHINA), FEIFAN GE (CHINA), YANG, Tao

33: CN 31: 202011100828.6 32: 2020-10-15

54: PREPARATION METHOD AND APPLICATION OF LONG-ACTING NATURAL MULTIFUNCTIONAL ADDITIVE

00: -

This invention provides preparation method and application of long-acting natural multifunctional additive that uses modified polymer for coating the natural filler, the modified polymer is any one or more than two of biodegradable polymer, water-soluble polymer, polyvinyl chloride, polyamide, polyphenylene sulfide, melamine resin, polyolefin, polyhydroxy fatty acid ester, styrene block copolymer, chlorinated polyvinyl chloride, urea formaldehyde resin, polyurethane and chitosan. The natural filler is shell powder or eggshell calcined at high temperature, any one or more than two of calcium oxide, calcium hydroxide, magnesium oxide, magnesium hydroxide and purified *Hermetia illucens* pupariums powder, or composite of nanoparticles and calcined shell powder or eggshell powder. The preparation method adopted by invention has low cost because that part of raw materials belong to waste recycle, and the antibacterial property of the natural filler is more durable and easy to store, which can be applied to various processing techniques or the addition or adjustment of skin care products.



21: 2022/05121. 22: 2022/05/10. 43: 2022/08/18

51: F26B

71: Hainan University

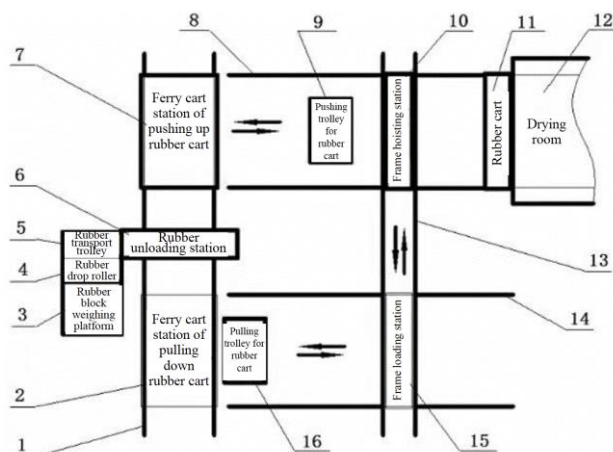
72: Junqing FAN, Wen WANG, Gaoping WANG,
 Baozhen ZHANG, Qingfen MA

33: CN 31: 202110515974.3 32: 2021-05-12

**54: INTEGRATED MACHINE FOR FRAME
 HOISTING, FRAME LOADING AND RUBBER
 UNLOADING IN NATURAL RUBBER DRYING
 PRODUCTION LINE**

00: -

The present disclosure provides an integrated machine for frame hoisting, frame loading and rubber unloading in a natural rubber drying production line. The integrated machine is provided with guide rails (8) for a heavy rubber cart, guide rails (1) for a ferry cart and guide rails (14) for an empty rubber cart. A frame hoisting station (10) is arranged above the guide rails (8) for the heavy rubber cart, and a pushing trolley (9) for the rubber cart is arranged between the guide rails (8) for the heavy rubber cart. A ferry cart station (7) of pushing up the rubber cart is arranged at one end of the guide rails (1) for the ferry cart, a ferry cart station (2) of pulling down the rubber cart is arranged at the other end of the guide rails (1) for the ferry cart, and a rubber unloading station (6) is arranged between the guide rails (1) for the ferry cart. A rubber unloading robot is arranged at the rubber unloading station (6), a rubber transport trolley (5) is arranged in the rubber unloading robot, and a rubber drop roller (4) and a rubber block weighing platform (3) are arranged on a left side of the rubber unloading robot. A frame loading station (15) is arranged above the guide rails (14) for the empty rubber cart, and a pulling trolley (16) for the rubber cart is arranged between the guide rails (14) for the empty rubber cart. Guide rails (13) for a frame hoisting robot are arranged between the frame hoisting station (10) and the frame loading station (15). The present disclosure has the beneficial effect of automating frame hoisting, frame loading and rubber unloading operation in the natural rubber drying production line from manual operation.



21: 2022/05143. 22: 2022/05/10. 43: 2022/08/18
 51: F16M

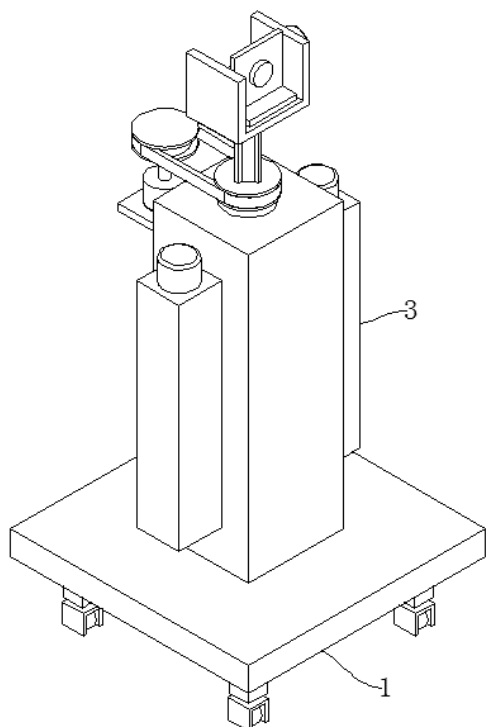
71: Zhengzhou Railway Vocational And Technical
 College

72: DONG Dandan, WU Lin, LIU Shuang, ZHU
 Yihui, WANG Lingyun, ZHANG Kaixuan, CHANG
 Luoluo, HOU Binbin, CHEN Bin

**54: TRACKING DEVICE BRACKET FOR LIVE
 BROADCAST OF ONLINE CLASS**

00: -

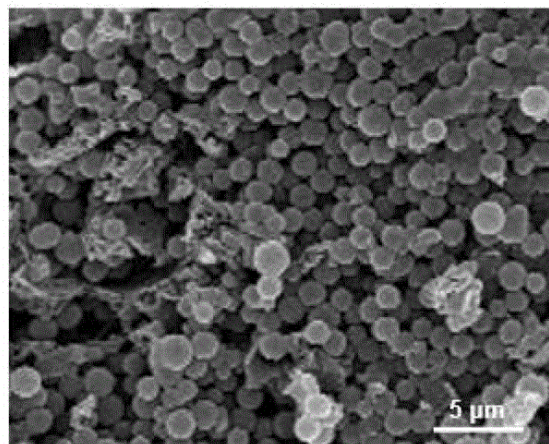
The disclosure provides a tracking device bracket for live broadcast of online class, wherein the tracking device bracket comprises a moving mechanism for driving the tracking device bracket to move, a control mechanism fixed on the moving mechanism to control an operation of the tracking device bracket, and an adjustment mechanism fixed above the moving mechanism to adjust a camera height and a camera angle of a mobile phone. According to the disclosure, by providing the adjustment mechanism, the components such as the first motor, the second motor and the third motor work together to adjust the camera height and camera angle of the mobile phone, and the adjustment process is convenient and fast, improving the use effect of the device.



21: 2022/05180. 22: 2022/05/11. 43: 2022/08/25
51: H01M
71: Guangdong Polytechnic Normal University
72: ZENG, Shuaibo, XU, Wei, HONG, Jinying, LI, Yongyi, GAO, Qun, PENG, Jing, ZHENG, Haorong, DENG, Yuning, LUO, Shiha, WU, Qiang
33: CN 31: 202210301137.5 32: 2022-03-24
54: PREPARATION METHOD OF DOUBLE-DOPED HOLLOW SPHERE MATERIAL AND APPLICATION THEREOF IN LITHIUM-SULFUR BATTERY

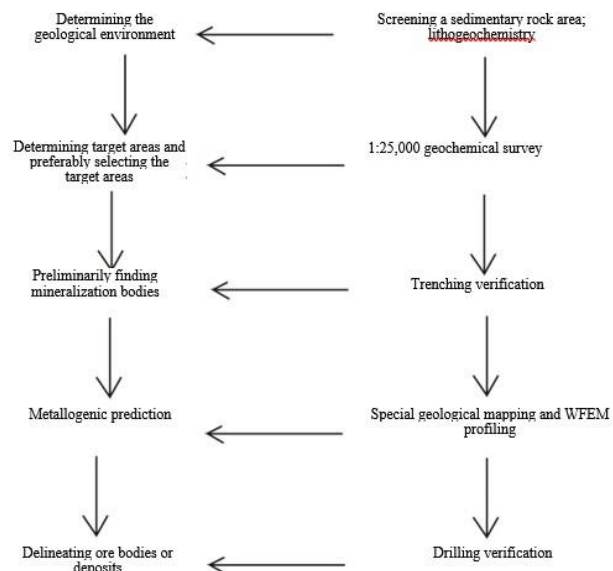
00: -
Disclosed are preparation method of double-doped hollow sphere material and application thereof in lithium-sulfur battery, which belong to the technical field of lithium sulfur batteries. The preparation method includes the following steps: S1: blending a sulphate metallic oxide, an acid solvent, commercial aluminum powder, and deionized water evenly at a molar ratio of 1:2-10:2-5:5-50; S2: filtering solution with stirring, and washing a sample; S3: placing the washed sample into a drying oven for drying, placing the dried sample in a tube furnace with an upper end that a nitrogen-bearing and sulfur-bearing organic matter is placed on; and S4: introducing gas, heating for insulating, cooling, and obtaining double-doped hollow sphere material. The double-doped hollow

sphere material improves cycling stability and electrode rate property of lithium sulfur batteries as additives for sulfur electrodes of lithium sulfur batteries, which solves the problem of "shuttle effect" of lithium polysulfide.



21: 2022/05181. 22: 2022/05/11. 43: 2022/09/06
51: G01V
71: QINGHAI THIRD GEOLOGICAL SURVEY INSTITUTE
72: LIU, Yongle, ZHAO, Jingchun, ZHANG, Daming, ZHANG, Aikui, DAI, Wei, LIU, Zhigang, XIA, Youhe, HE, Shuyue, ZHANG, Jianping, SUN, Feifei, CHEN, Xiaoning
33: CN 31: 202210038044.8 32: 2022-01-13
54: EXPLORATION METHOD FOR MARINE SEDIMENTARY MANGANESE ORE
00: -
This invention provides for exploration method for marine sedimentary manganese ore, specifically comprising the following steps: selecting sedimentary strata exposed in an exploration area and determining an abyssal sedimentary rock area through analysis of mineralogy and chemical characteristics of a rock area; carrying out 1:25,000 geochemical survey according to the determined abyssal sedimentary rock area, and preliminarily screening out prospecting target areas of the manganese ore; carrying out geological survey according to the target areas, so as to determine clues of mineral resources of the manganese ore, and preliminarily positioning ore bodies or mineralization bodies through trenching; carrying out special geological mapping, constructing control characteristics according to the distribution characteristics of strata of manganese-containing

rock series in the area, and determining the distribution situation of the manganese-containing rock series; and predicting metallogenic positions; and delineating the ore bodies or deposits.



21: 2022/05203. 22: 2022/05/11. 43: 2022/08/30
51: G06F

71: Suganya Devi Kothandapani, Satish Kumar Satti, Srinivasan Padmanabhan, Sekar Karuppannan, Naga Venu Vishnumurthy Ravipati

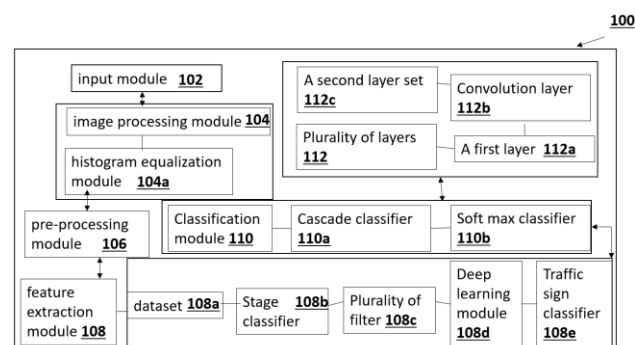
72: Suganya Devi Kothandapani, Satish Kumar Satti, Srinivasan Padmanabhan, Sekar Karuppannan, Naga Venu Vishnumurthy Ravipati

54: A SYSTEM TO RECOGNIZE CAUTIONARY TRAFFIC SIGNS IN REAL-TIME USING AN OPTIMIZED ADAPTIVE BOOSTING CASCADE CLASSIFIER AND A METHOD THEREOF

00: -

A system (100) for recognizing Indian cautionary traffic signs (ICTs) in real-time, comprises of: an input module (102) for acquiring atleast a digital image of the traffic sign and stored in a dataset (108a); an image processing module (104) for recognizing the cautionary traffic sign in real-time, comprises of: a pre-processing module (106) for improving quality of the acquired digital image by suppressing inadvertent distortions, wherein the pre-processing module (106) performs an image enhancement and a data augmentation; a feature extraction module (108) for extracting atleast a bounding box containing the traffic signs, wherein a dataset (108a) is created with the plurality of traffic

signs and atleast a non-traffic sign to optimize a stage classifier (108b); and a classification module (110) for predicting probabilities of a located traffic sign object of a specific category of the ICTs.



21: 2022/05260. 22: 2022/05/12. 43: 2022/08/17
51: E04B

71: Henan Capital Construction Science Experiment Institute Co., Ltd, Guangzhou University, Guangzhou City Construction College

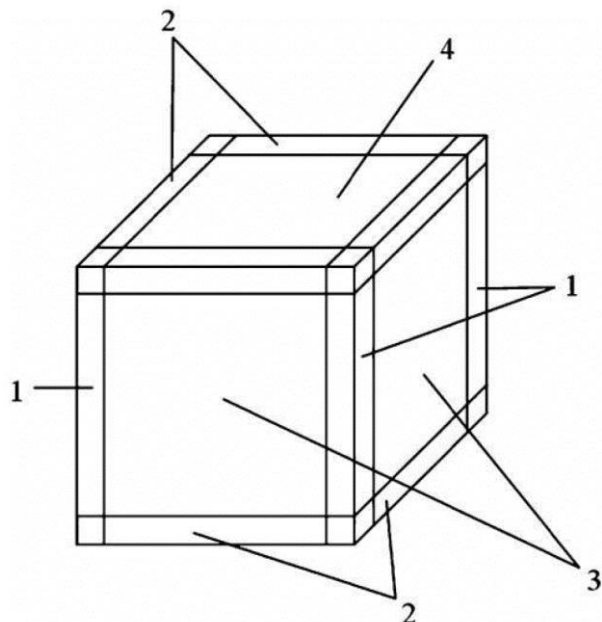
72: Fang JinGang, Wang KeYi, Zhao XinRan, Lin YiBiao, Xu Yong, Huang XuPeng, Bao Wei, Guo YaXun, Zhang Yan, Luo Jing, Zhang JiChao, Wu HuiJun, Du ZhaoDi, Tan Ping

54: AEROGEL COMPOSITE THERMAL INSULATION MODULAR BUILDING UNIT

00: -

This invention provides aerogel composite thermal insulation modular building unit, which comprises prefabricated columns, prefabricated beams, prefabricated walls and prefabricated floors, wherein the prefabricated beams and prefabricated columns are vertically connected with each other; the prefabricated beams and prefabricated columns are integrally poured to form a cuboid frame; the prefabricated floors are arranged on the upper and lower sides of the cuboid frame; and the prefabricated walls are arranged on the other sides of the cuboid frame; the prefabricated column, the prefabricated beam and the prefabricated wall are respectively provided with a first aerogel heat insulation layer, a second aerogel heat insulation layer and a third aerogel heat insulation layer, and the first aerogel heat insulation layer, the second aerogel heat insulation layer and the third aerogel heat insulation layer are communicated with each other to connect the whole modular building unit into a whole. The aerogel composite thermal insulation modular building unit of the invention can effectively avoid the cold bridge phenomenon at the building

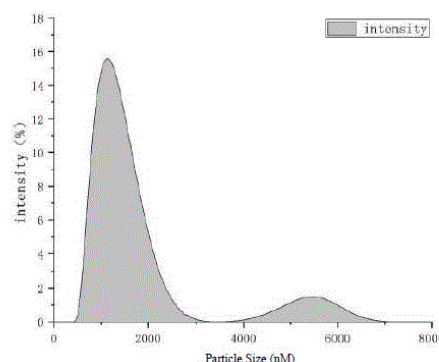
beam and column, the corner of the outer wall, the corner of the inner wall and the outer wall, etc., and moreover, it can effectively improve the flame retardant performance and waterproof performance of the modular building.



21: 2022/05264. 22: 2022/05/12. 43: 2022/08/18
51: C04B
71: Hebei University of Architecture
72: LI, Zhiqiang, YU, Yong, ZHANG, Xuanshuo, ZHU, Fan, LI, Yanjiang, BU, Narui, ZHANG, Hongjia, SUN, Yujie
33: CN 31: 202110872139.5 32: 2021-07-30
54: MONTMORILLONITE RECYCLED CONCRETE AND PREPARATION METHOD THEREOF
00: -

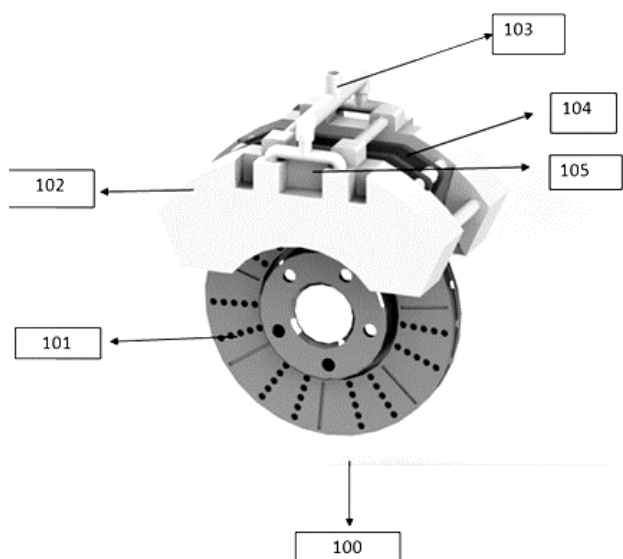
The present disclosure provides montmorillonite recycled concrete and a preparation method thereof. The method comprises the following steps: S1, pre-wetting recycled coarse aggregates; S2, mixing and stirring montmorillonite and mixing water, wherein the using amount of the mixing water is greater than that of the montmorillonite, to obtain a stirred montmorillonite suspension; S3, mixing and stirring recycled coarse aggregates A, natural coarse aggregates, natural river sand and cement, to obtain a first mixture; S4, mixing and stirring the first mixture and the montmorillonite suspension, to obtain a second mixture; S5, continuously mixing and stirring the cement and the second mixture, to obtain a third mixture; and S6, adding the mixing

water into the third mixture, continuously stirring for 120 s, after stirring well, pouring out, and forming, to obtain the montmorillonite recycled concrete.



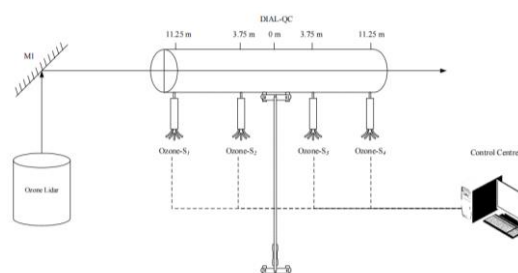
21: 2022/05271. 22: 2022/05/12. 43: 2022/08/30
51: B60W
71: Dr. Vishwanath Karad MIT World Peace University, PATIL, Chetan Kishor, SHRIGANDHI, Ganesh, NARWADE, Gautam, PATIL, Manjushri Vivek, MALI, Arun, NAIKWADI, Vivek
72: PATIL, Chetan Kishor, SHRIGANDHI, Ganesh, NARWADE, Gautam, PATIL, Manjushri Vivek, MALI, Arun, NAIKWADI, Vivek
54: RELIABILITY INDICATOR DEVICE FOR DISK BRAKE IN MODERN VEHICLES
00: -

The present invention relates to a reliability indicator device for disk brake in modern vehicles. This invention discloses a unique technique that highlights the temperature of disk pad at each braking instance and cooling system associated with disc pad, as every iteration of the brake amplified the temperature inside the caliper and disc pad rise in tremendous amounts due to friction of the caliper and disc pad, the present disclosure provides a unique temperature indicating device that measures the exact allowable temperature limit of disc pad during the long run of the vehicle, thus giving an alarm warning to the driver in case of failure.



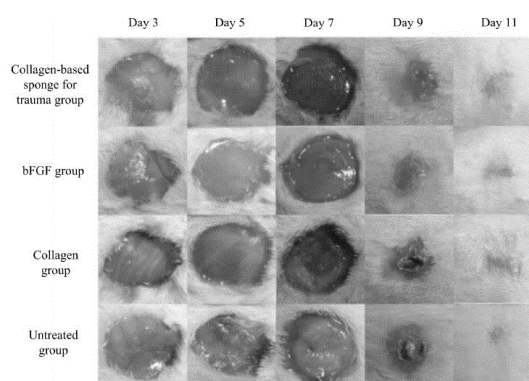
21: 2022/05314. 22: 2022/05/13. 43: 2022/08/18
 51: G01N; G01S
 71: Anhui University
 72: WANG, Jie, LIU, Wenqing, ZHANG, Tianshu, LIU, Cheng
 33: CN 31: 202110549451.0 32: 2021-05-20
54: LIDAR QUALITY CONTROL DEVICE

00: -
 Disclosed is a lidar quality control device, including an ozone lidar system configured to determine the concentration of ozone on a common path of pulsed light, and further including: an ozone lidar light path folding mirror disposed on one side of the ozone lidar system, the ozone lidar light path folding mirror configured to facilitate observations in a horizontal direction by an ozone lidar; a path check module disposed in an area more than 500 m on an ozone lidar transmitting and receiving light path, the path check module configured to measure the concentration of ozone; and a check module adjustment bracket disposed on one side of the path check module, the check module adjustment bracket configured to support the path check module. The device has the advantage of higher precision.



21: 2022/05323. 22: 2022/05/13. 43: 2022/08/18
 51: A61L
 71: Wenzhou Medical University
 72: DRING, James Curtis, ZHOU, Rui
 33: CN 31: 202210326732.4 32: 2022-03-30
54: COLLAGEN-BASED SPONGE FOR TRAUMA, PREPARATION METHOD THEREOF, USE THEREOF IN PREPARATION OF MEDICAMENT FOR REDUCING SCAR FORMATION IN SKIN REPAIR

00: -
 The present disclosure provides a collagen-based sponge for trauma, a preparation method thereof, and use thereof in the preparation of a medicament for reducing scar formation in skin repair, and belongs to the technical field of biological pharmaceuticals. In the present disclosure, a collagen-based sponge for trauma used in skin repair is prepared by using collagen as a carrier and bFGF as a main active ingredient. Not only can the collagen-based sponge for trauma repair damaged skin, but also can avoid scar formation. Compared with similar wound repair products, the collagen-based sponge for trauma has a strong market competitiveness.



21: 2022/05324. 22: 2022/05/13. 43: 2022/08/18
 51: G01N
 71: Institute of Coastal Agriculture, Hebei Academy of Agriculture and Forestry Sciences

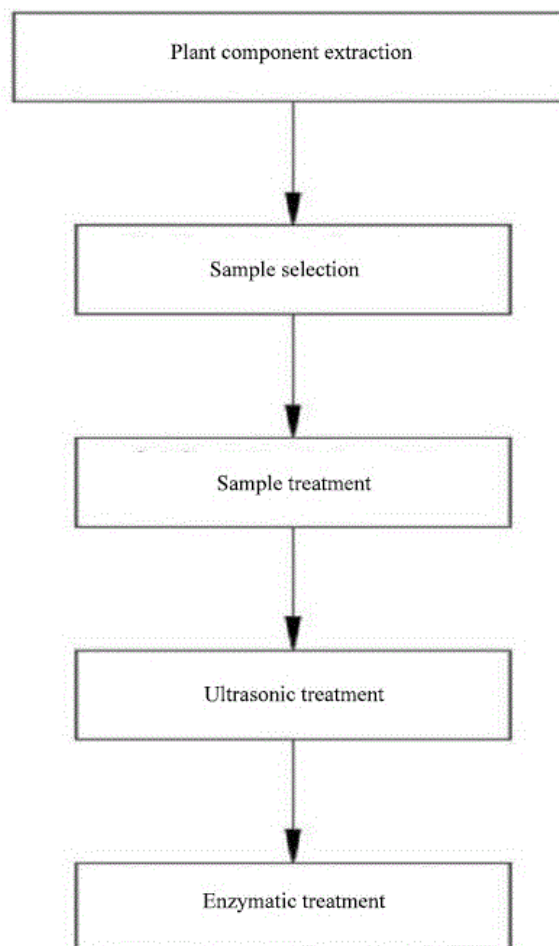
72: WU, Zhe, WANG, Xiuping, LI, Zhaojia, LU, Xuelin, FENG, Wei, MENG, Ran

33: CN 31: 202111043089.6 32: 2021-09-07

54: METHOD FOR PLANT EXTRACTION AND DETECTION

00: -

The present disclosure discloses a method for plant extraction and detection, comprising plant component extraction and sample component detection; wherein the plant component extraction comprises sample selection, sample treatment, ultrasonic treatment and enzymatic treatment; the sample component detection comprises sample grouping, reagent observation and classification test; and the sample selection is to select a plurality of Taraxacum mongolicum Hand.-Mazz with the same plant size and growth state as detection samples. The sample treatment comprises the steps of: drying selected Taraxacum mongolicum Hand.-Mazz, grinding and sieving, and selecting an appropriate amount of Taraxacum mongolicum Hand.-Mazz powder. The reagent observation comprises the steps of: adding the sample that is subjected to enzymolysis into a test tube, adding various reaction reagents into the test tube for mixing reaction, and observing the test tube in a chromatographic analyzer.



21: 2022/05325. 22: 2022/05/13. 43: 2022/08/18

51: B01F; B32B; C08K; C08L; F04D

71: Shanxi Anrui Fan Electric Co.,Ltd.

72: DUANMU, Fengqing, GUO, Defu, DU, Wenyan, WEN, Junqiang, WANG, Xiangqian, WEI, Bo, GUO, Qinglong, ZHANG, Jiangang, DU, Chongheng

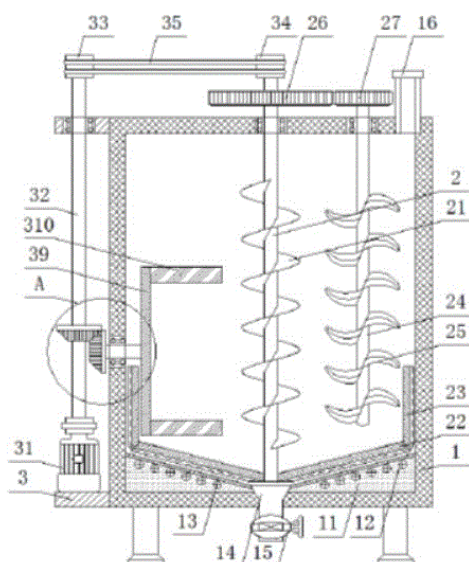
33: CN 31: 202111231931.9 32: 2021-10-22

54: SHAPE MEMORY ELASTIC COMPOSITE MATERIAL FOR FAN IMPELLERS, AND MANUFACTURING DEVICE THEREOF

00: -

The present invention discloses a shape memory elastic composite material for fan impellers, comprising a cover material and a base material. The cover material and the base material are integrally formed by heat quenching, the cover material is made from a combination of polyphenylene sulfide, thermoplastic polyimide, liquid crystal polymer, and graphite, and the base material is made from a combination of spring steel. The present invention also provides a manufacturing

device for the shape memory elastic composite material for fan impellers, comprising a kettle body, wherein a spiral shaft is inserted in the middle of a top surface of the kettle body, a plurality of spiral vanes are provided on the spiral shaft in the kettle body, and a scraping wall assembly is provided on a bottom end of the spiral shaft.



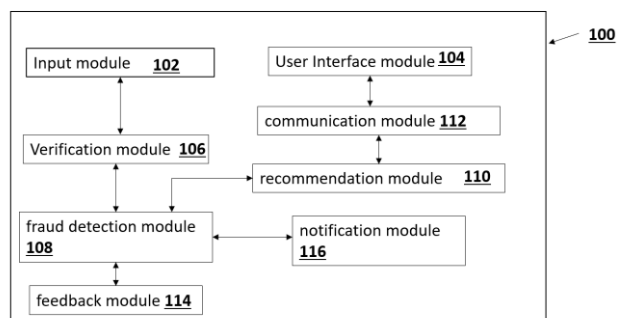
21: 2022/05331. 22: 2022/05/13. 43: 2022/08/30
51: G06Q
71: Dr. Tanu Dang, Dr. Namita Mishra, Dr. Divya J Thakur, Dr. Samriti Mahajan, Prof. Dr. Rashmi Gujrati, Dr. Hayri Uygün, Dr. Anukrati Sharma, Dr. M Shivalinge Gowda, Dr. Kishori Jagdish Bhagat, Dr. Pritesh Pradeep Somani, Dr. Anaya Aditya Markandeya, Ms. Aishwarya Saxena, Mr. Sachin Sharma, Dr. Ankur Goel
72: Dr. Tanu Dang, Dr. Namita Mishra, Dr. Divya J Thakur, Dr. Samriti Mahajan, Prof. Dr. Rashmi Gujrati, Dr. Hayri Uygün, Dr. Anukrati Sharma, Dr. M Shivalinge Gowda, Dr. Kishori Jagdish Bhagat, Dr. Pritesh Pradeep Somani, Dr. Anaya Aditya Markandeya, Ms. Aishwarya Saxena, Mr. Sachin Sharma, Dr. Ankur Goel

54: A SYSTEM AND A METHOD FOR REGULATING ADVERTISEMENT

00: -

A system (100) for regulating advertisement, comprises of: an input module (102) for collecting details of a plurality of advertisement; a user interface module (104) for collecting demographic details and preference from atleast a user; a verification module (106) for verifying the plurality of

input advertisement, and checks if the input details of the advertisement adhere to a plurality of criterias required for detecting a fraud; a fraud detection module (108) for detecting the fraud based on the verification of the plurality of criterias, wherein if any of the plurality of criterias deviate for the input details provided, then the advertisement is suspicious; a categorization module (108a) for classifying the suspicious marked advertisement as blacklisted and remaining as whitelisted; and a blocking module (108b) for blocking the blacklisted advertisement; and a recommendation module (110) for recommending the whitelisted advertisements based on the demographics and preference of the user.



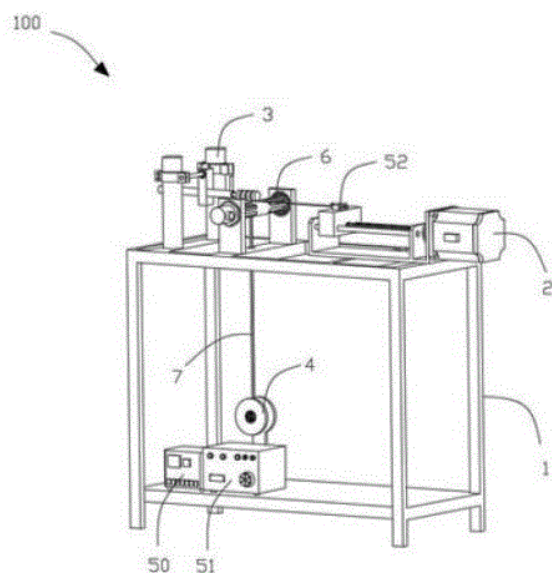
21: 2022/05355. 22: 2022/05/16. 43: 2022/09/09
51: G01N

71: YANCHENG INSTITUTE OF TECHNOLOGY
72: XIA, Jiansheng, ZHAO, Jun, DOU, Shasha, ZHU, Shaohua, SHEN, Xing, XIA, Suhang, LIU, Rongtao, SUN, Sujie, TAO, Le, HAN, Chuande
33: CN 31: 202111014306.9 32: 2021-08-31
54: **TESTER FOR MEASURING FRICTION COEFFICIENT**

00: -

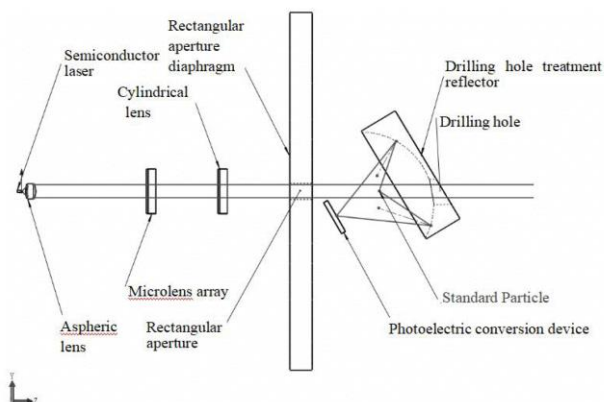
The present application relates to the technical field of measurement, and in particular to a tester for measuring a friction coefficient. The tester for measuring a friction coefficient provided by the present application includes a supporting frame, a driving mechanism mounted on the supporting frame, a winding mechanism configured to wind a workpiece to be measured, a heating mechanism, a loading mechanism and a control device, and a computer terminal computes a friction coefficient of the workpiece to be measured according to a measured tension parameter and a preset vertical force. With the control device, the heating

mechanism, the driving mechanism and the loading mechanism arranged, a friction coefficient of a certain material at a certain temperature can be measured, and the tester has advantages of a simple structure and low manufacturing cost.



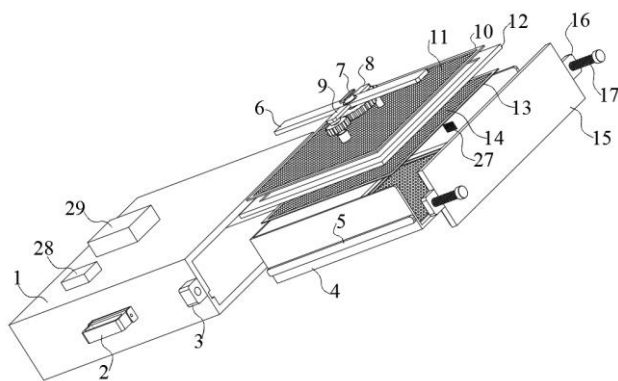
21: 2022/05356. 22: 2022/05/16. 43: 2022/09/09
51: G01N
71: Anhui Polytechnic University
72: ZHENG Yanchang, CHEN Yesheng, LU Yuelin, ZHANG Zhen, CHEN Yu
54: OPTICAL PATH SYSTEM OF PARTICLE COUNTER SENSOR

00: -
The invention discloses an optical path system of a particle counter sensor. The system is provided with a laser, and an aspheric lens, a microlens array, a cylindrical lens, a rectangular aperture diaphragm, a photosensitive area and a reflector are sequentially arranged along the optical path of the laser; the intersection position of a sampling air flow and the optical path is the photosensitive area; the reflector is an obliquely arranged concave mirror; the focal point of the reflector is located at a photoelectric conversion device near the optical path; and the irradiation area of the optical path on the reflector is a drilling hole for the optical path to pass through. The optical path system can obtain stronger and more stable electrical signals, which improves the signal-to-noise ratio and sensitivity of the sensor. At the same time, the structure of rectangular diaphragm greatly reduces the optical background noise of the sensor.



21: 2022/05357. 22: 2022/05/16. 43: 2022/09/09
51: A47B
71: Xuzhou College of Industrial Technology
72: Li Ying, Ning Junsheng, Wang Hongyu, Tao Yun, Tao Weili
54: MOISTURE-PROOFING AND DUST-PROOFING STORAGE DEVICE FOR BLUEPRINT
00: -

This invention provides moisture-proofing and dust-proofing storage device for blueprint, which comprises an outer box body, in which a storage box is movably inserted, the bottom wall of the inner cavity of the storage box is provided with a frame groove, the bottom wall of the inner cavity of the frame groove is provided with a placing groove, the placing groove is filled with desiccant particles, a lower frame is arranged in the frame groove, each side fixing seat is provided with a guide hole penetrating through, a transverse threaded rod is inserted into each guide hole, the end of the transverse threaded rod is connected with a rotating seat, and the front and rear sides of the outer box body are fixedly connected with bases, and each base is provided with a transverse screw rod. When the invention is put to use, the drawing storage and storage device can effectively prevent the moisture and dust in the environment from entering the outer box, and it can absorb the moisture in the outer box, so that the inner part of the outer box can be kept in a dry state, thus effectively preventing the architectural engineering blueprints stored and stored in the outer box from being mildewed and damaged due to moisture



21: 2022/05358. 22: 2022/05/16. 43: 2022/09/09
51: B08B: B31B

71: Shandong Wodda Heavy Machinery Co., Ltd.

72: DU, Jifu, LIU, Jiacheng, LI, Wencao, LIU,

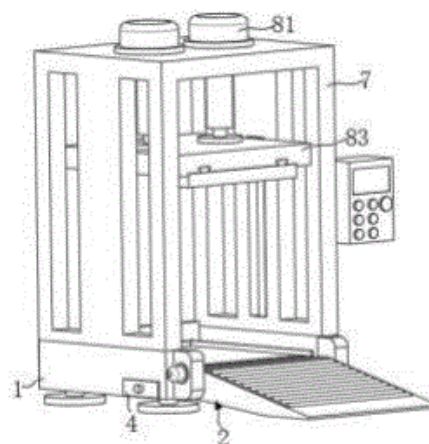
Weidong, ZHANG, Jianling, WANG, Yuanyuan

33: CN 31: 202111238791.8 32: 2021-10-25

54: MULTIFUNCTIONAL PP HONEYCOMB PANEL COAMING BOX ONLINE SYNCHRONOUS INDENTATION FRAME HYDRAULIC MACHINE

00: -

The present invention provides a multifunctional polypropylene (PP) honeycomb panel coaming box online synchronous indentation frame hydraulic machine. The multifunctional PP honeycomb panel coaming box online synchronous indentation frame hydraulic machine includes: a substrate; an auxiliary support structure, wherein the auxiliary support structure is arranged on the substrate. According to the multifunctional PP honeycomb panel coaming box online synchronous indentation frame hydraulic machine provided by the present invention, by arranging the auxiliary support structure, while a PP honeycomb panel is placed on a top portion of the substrate, it is used as a movement path of the PP honeycomb panel, and by arranging a roller on a support plate, a friction force on the surface of the support plate may be effectively improved, so that it is easier and labor-saving while people push the PP honeycomb panel to move.



21: 2022/05359. 22: 2022/05/16. 43: 2022/09/09
51: G09B

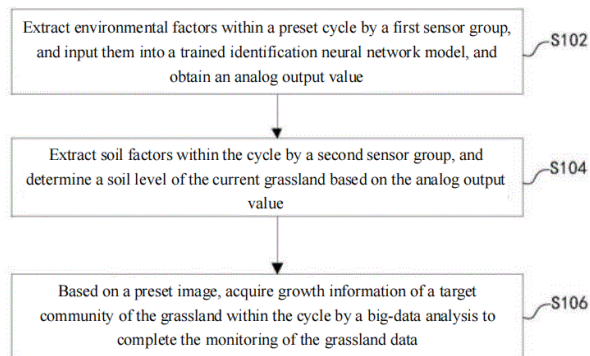
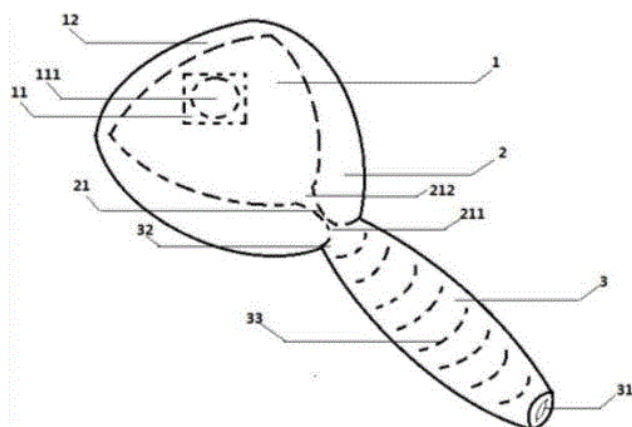
71: Zhejiang University

72: Rao Jinpeng, Jin Min, Feng Chun, Tian Shen,
Wang Xiaoyun, Yu Ya

54: AN EMBRYO TRANSFER MODEL AND TEACHING METHOD

00: -

This invention provides an embryo transfer model and teaching method, according to the proportion of the normal female reproductive system, the length, width, thickness, volume and diameter of each part of the model (uterine cavity, cervix and vagina) are specifically and quantitatively designed, combining with the length of the inner and outer catheters, this invention enables experimenters and clinicians to have a more intuitive and accurate understanding of the relative distance and space of the transplantation path, resulting in a better control of the position of embryo transfer. The invention also provides a teaching method that makes clinicians fully aware of the main difficulties in the process of transfer, and provides a repeatable practice method to overcome these difficulties in the formal transfer operation, in order to achieve a smooth intubation.



21: 2022/05360. 22: 2022/05/16. 43: 2022/09/09
51: G06F; G06N

71: Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences

72: YU, Chengqun, TIAN, Yuan, SHI, Lei

33: CN 31: 202111197982.4 32: 2021-10-14

54: BIG DATA-BASED MONITORING METHOD AND MONITORING SYSTEM OF GRASSLAND DATA AND READABLE STORAGE MEDIUM

00: -

Disclosed is big data-based monitoring method and monitoring system of grassland data and readable storage medium. The method includes: extracting environmental factors within preset cycle by first sensor group, and inputting them into trained identification neural network model to obtain analog output value; extracting soil factors within cycle by second sensor group, and determining soil level of current grassland based on analog output value; and obtaining growing information of target community of grass within cycle by big data analysis based on preset image for monitoring grass data. Various collected sensing data is acquired by different sensors, and collected environmental data on ground is subjected to analog analysis based on CNN neural network model and is compared with data collected by sensors under earth surface to obtain grass soil information; and meanwhile, community growth data of grass is also acquired based on collected image information.

21: 2022/05361. 22: 2022/05/16. 43: 2022/09/09
51: C21D

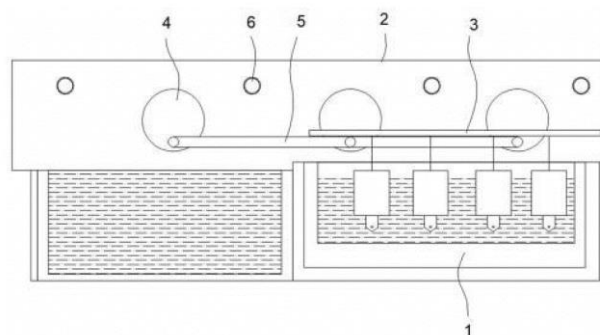
71: Hebei Normal University of science and technology

72: Chen Lidong, Ren Xiaoguang, Cheng Hui, Guo Guangliang

54: ISOTHERMAL HEAT TREATMENT METHOD OF STEEL SHOVEL

00: -

This invention relates to the technical field of farm implement production, particularly relates to isothermal heat treatment method of steel shovel that comprises heating the steel shovel to austenitize the internal structure of the steel shovel, placing the steel shovel upside down in a salt bath furnace for isothermal quenching, repeatedly exposing the cutting edge part of the steel shovel to the quenching medium during the isothermal quenching process, tempering the cutting edge part to obtain higher hardness, and continuously isothermal accelerating the neck part to obtain better toughness. The isothermal heat treatment method of the invention performs different heat treatments on different parts of the steel shovel, and the method is simple and easy to realize.



21: 2022/05362. 22: 2022/05/16. 43: 2022/09/09

51: B31B

71: Shandong Wodda Heavy Machinery Co., Ltd.

72: DU, Jifu, LIU, Jiacheng, LI, Wencao, LIU,

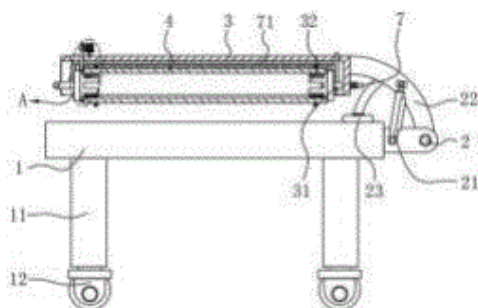
Weidong, ZHANG, Jianling, WANG, Yuanyuan

33: CN 31: 202111238693.4 32: 2021-10-25

**54: PP HONEYCOMB PANEL COAMING BOX
ONLINE SYNCHRONOUS INDENTATION FRAME
HYDRAULIC MACHINE**

00: -

The present invention provides a polypropylene (PP) honeycomb panel coaming box online synchronous indentation frame hydraulic machine. The PP honeycomb panel coaming box online synchronous indentation frame hydraulic machine includes: a support frame; and a connecting frame, wherein one side of the connecting frame is fixedly installed on an outer surface of the support frame. The PP honeycomb panel coaming box online synchronous indentation frame hydraulic machine provided by the present invention incorporates an indentation process into a PP honeycomb panel forming process, and completes indentation with the help of residual heat of honeycomb panel forming.



21: 2022/05363. 22: 2022/05/16. 43: 2022/09/09

51: A01C; A01G

71: Qingdao Agricultural University

72: YANG Hongbing, DONG Chunhai, FENG Tao, YI Xiaohua, YANG Hongguo

**54: METHOD FOR SUPPLEMENTING NUTRIENTS
AFTER SOIL IS IRRIGATED WITH OZONE
WATER**

00: -

The invention provides a method for supplementing nutrients after soil is irrigated with ozone water. The method performs ozone water irrigation treatment on the soil, and the killing rate of pathogenic bacteria in the soil reaches about 85%, but the content of organic matter and trace elements boron (B) and manganese (Mn) in the soil are obviously reduced,

and the nutrient components of the soil are obviously reduced, which affects the growth and development of crops. According to the invention, organic fertilizer, borax and manganese sulfate are used as base fertilizers in each mu of land after being irrigated by ozone water, so that the organic matter content and trace elements B and Mn content in the soil can be restored to normal levels, thus not only giving full play to the advantages of ozone water, but also eliminating the negative effects of ozone water irrigation, which is beneficial to realize the green prevention and control of organic agricultural production.

21: 2022/05364. 22: 2022/05/16. 43: 2022/09/09

51: A61K

71: The Affiliated Hospital of Qingdao University

72: ZHOU Jie, QI Shubin, CHEN Yongjun, MAO Yuquan, LIU Hui

**54: PHARMACEUTICAL COMPOSITION FOR
TREATING CHRONIC ALLERGIC RHINITIS AND
PREPARATION METHOD THEREOF**

00: -

The invention discloses a pharmaceutical composition for treating chronic allergic rhinitis and a preparation method thereof, which comprises the following components: ephedra 6g, Radix Aconiti Praeparata 12g, asarum 3g, Zingiber officinale 20g, mume fructus 12g, magnolia flower 12g and fried licorice root 10g. It is suitable for chronic allergic rhinitis, and the ephedra has strong property of warming and dispersing, open pores to get rid of wind and cold invading muscle surface and can relieve the symptoms of stuffy nose or runny nose of nasosinusitis and chronic rhinitis, and can relieve the pathogenic. Radix Aconiti Praeparata and Zingiber officinale are combined to strengthen its effect of warming yang, expelling cold and relieving pain; asarum has the effects of expelling wind, dispelling cold, promoting diuresis, inducing resuscitation, and treating wind-cold headache and nasosinusitis. Mume fructus have the effects of astringing lung, astringing intestine, promoting fluid production and astringing virtual fire; magnolia flower has property of warming, moves into the lungs, which can help clear yang in the stomach and move upward to head. Therefore, it can warm the stomach and treat head, face and nose diseases, and is suitable for relieving the symptoms of stuffy nose or runny nose

of nasosinusitis and chronic rhinitis. Fried licorice root can slow down the middle energizer and relieve the pharmaceutical properties.

Classification standard of chronic allergic rhinitis: and intermittent alternate rhinitis and nasal itching	Total number of cases:	Display criteria: nasal congestion and itching disappear	Valid criteria: alleviate nasal congestion and itching	Invalid criteria: symptoms of nasal congestion and itching persist
Number of cases	467	248 (accounting for 53.1% of the total cases)	212 (accounting for 45.4% of the total cases)	7 (accounting for 1.5% of the total cases)
Total effective rate	98.5%			

21: 2022/05365. 22: 2022/05/16. 43: 2022/09/09

51: G06T

71: Shanghai Ocean University

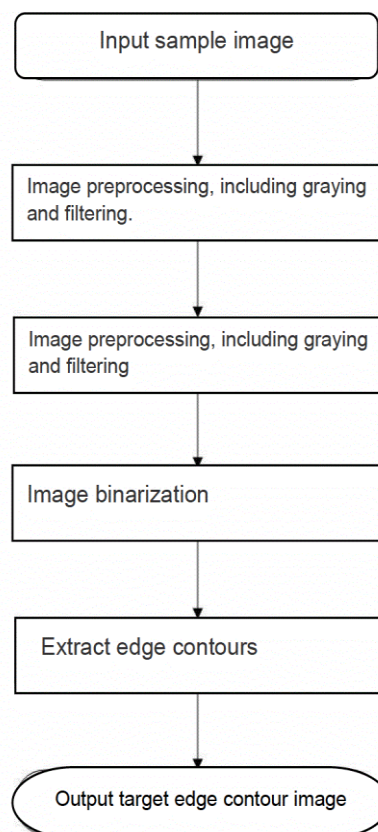
72: Liu Bi Lin, Wang Bing Yan, Ou Li Guo, Gu Xin Yu

33: CN 31: 202210408191.X 32: 2022-04-19

54: AN EDGE DETECTION METHOD BASED ON BINARY IMAGE PROCESSING

00: -

This invention provides an edge detection method based on binary image processing, relates to the technical field of image processing algorithms based on computer vision. The edge detection method based on binary image processing includes the following steps: step 1: graying the image; step 2: filtering and denoising; step 3: binarizing the image; step 4: constructing a target connected domain; step 4.1: detecting all contour information in the binary image; step 4.2: custom denoising; step 4.3: constructing a target connected domain; step 5: extracting the edge contour. On the basis of processing the image into a binary image, morphological processing is adopted, and the convolution kernel is iteratively increased in a suitable range to realize the connection of the target contour, and the pixel value that contains the target is filled as the threshold upper limit, thus improving the accuracy of target selection, effectively distinguishing the signal and noise, basically realizing the complete separation of the target from the background, moreover, ensuring the integrity of the contour within the allowable range of error.



21: 2022/05366. 22: 2022/05/16. 43: 2022/09/09

51: G06Q

71: Jilin Jianzhu University

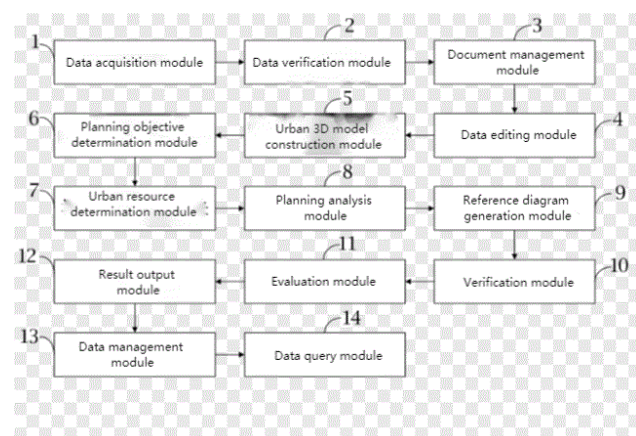
72: Wang Yi, Man Yanchen, Lu Hai

54: A DECISION SUPPORT SYSTEM OF INTEGRATED URBAN PLANNING BASED ON INTELLIGENT URBAN PLANNING

00: -

The invention belongs to the technical field of urban planning and discloses an integrated urban planning decision support system based on smart urban planning, which includes: data acquisition module, data verification module, file management module, data editing module, urban three-dimensional model construction module, planning target determination module, urban resource determination module, planning analysis module, reference map generation module, verification module, evaluation module, result output module, data management module and data query module. The invention makes full use of advanced technology and combined with the actual needs of the urban planning department for urban planning to make urban planning decisions. At the same time, the comprehensive evaluation of urban

planning decisions is carried out from the perspectives of the completion of planning objectives, the consumption of urban resources, urban intelligence and convenience, which can ensure the reliability of decision-making. It provides a powerful tool for urban planning authorities and design units to manage urban geospatial objects in the process of urban planning and design.



21: 2022/05367. 22: 2022/05/16. 43: 2022/09/09
51: G01N

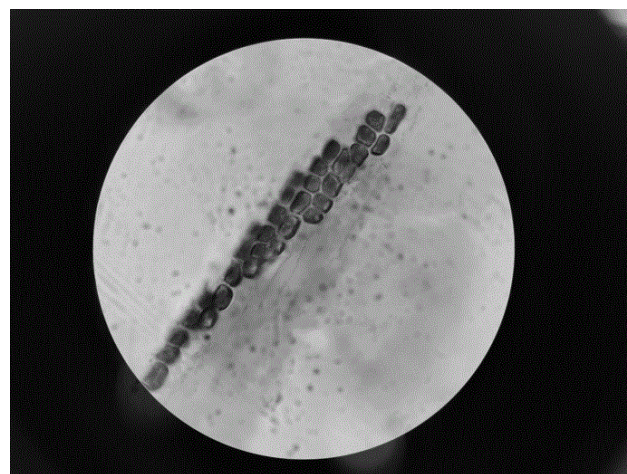
71: Heilongjiang University

72: GUO Zhipeng, HUANG Wentao, LIU Liping

54: METHOD FOR FAST MAKING ULTRA-THIN SECTIONS OF MOSSES WITH NORMAL HEPTANE

00: -

The application discloses a method for fast making ultra-thin sections of mosses with normal heptane, relates to the field of paraffin sectioning technology and whole-tissue clearing technique. which comprises the following steps of: washing and fixing fresh bryophytes, and sequentially dehydrating, transparentizing, waxing, embedding, sectioning, pasting, dewaxing, staining, and sealing, the bryophyte paraffin sections of mosses is obtained; where, the transparent agent used in the transparentizing process is a normal heptane solution. The application finds that for bryophytes, the transparency effect of normal heptane is better than that of xylene, so the application selects the normal heptane as the transparency agent of the paraffin slicing technology and the whole-tissue clearing technique and develops a method for fast making ultra-thin sections of mosses with normal heptane.



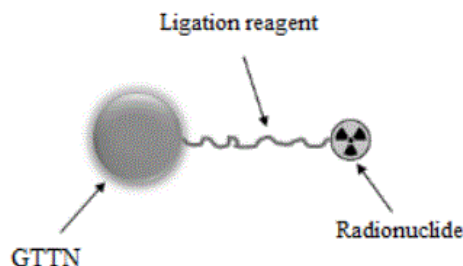
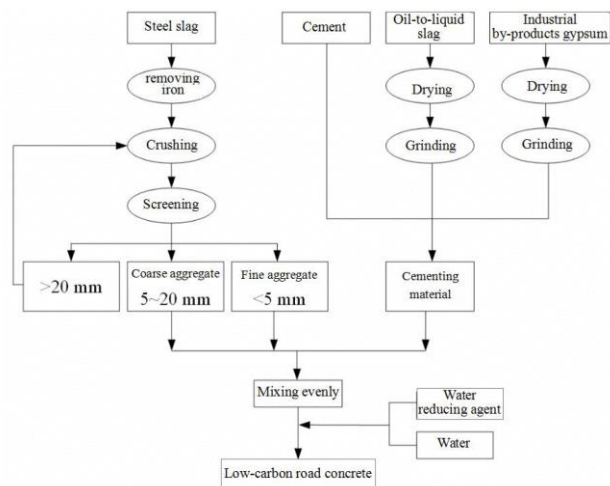
21: 2022/05368. 22: 2022/05/16. 43: 2022/09/09
51: C04B; E01C

71: University of Science and Technology Beijing
72: MU Xinli, YU Yang, LEI Bolan, BA Haojing, ZHANG Siqi, NI Wen

54: LOW-CARBON ROAD CONCRETE AND ITS PREPARATION METHOD USING COAL-TO-LIQUID SLAG, DESULFURIZED GYPSUM AND STEEL SLAG IN COOPERATION

00: -

The application belongs to the fields of green and low-carbon development of building materials, solid waste resource utilization, and relates to a low-carbon road concrete prepared by synergistically utilizing coal-to-liquid slag, desulfurized gypsum and steel slag in cooperation and preparation method thereof. By using coal-to-liquid slag and desulfurized gypsum as mineral admixtures and steel slag as aggregate in road concrete, the synthetic cooperation of coal-to-liquid slag, desulfurized gypsum and steel slag is realized, and hydration products with calcium-silicon ratio less than 1.2 which contribute more to the strength of concrete is generated, and the wear resistance of concrete is relatively high. The application has remarkable economic and environmental benefits, which not only effectively improves the comprehensive utilization rate of coal-to-liquid slag and desulfurized gypsum steel slag, but also reduces the cement consumption and carbon emission, and at the same time, it ensures that the strength and durability of concrete meet the requirements while realizing the objective of "two carbon" (achieving carbon peaking by 2030 and carbon neutrality by 2060).



21: 2022/05369. 22: 2022/05/16. 43: 2022/09/09
 51: A61K; A61P
 71: The First Affiliated Hospital of Hainan Medical University
 72: WANG, Yanli, ZHANG, Junfeng, LI, Chenchen
54: PREPARATION METHOD AND APPLICATION OF RADIONUCLIDE-LABELED SPECIFIC TARGETED THERANOSTIC AGENT
 00: -

The present invention provides a preparation method and an application of a radionuclide-labeled specific targeted theranostic agent, and belongs to the technical fields of nanomedicine and molecular imaging. In the present invention, by using graphene-based tumor cell nuclear targeting fluorescent nanoprobe (GTTN) as a cell nuclear targeting molecular marker radionuclide, bimodal imaging can be achieved by the marker through fluorescence imaging of GTTN as well as single-photon emission computed tomography (SPECT) imaging or positron emission computed tomography (PET) imaging of radionuclides, and radionuclide treatment can be performed; at the same time, side effects of radionuclides on normal tissues are minimized. The theranostic agent features excellent clinical application prospect.

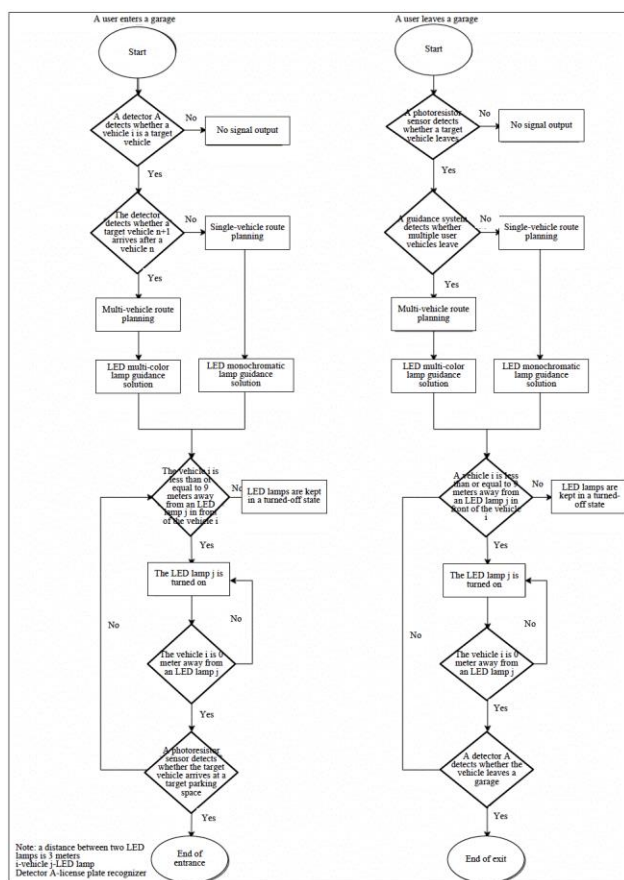
21: 2022/05370. 22: 2022/05/16. 43: 2022/09/09
 51: G08G

71: Henan University of Urban Construction
 72: LIU, Lihua, CUI, Yingying, LI, Rongrong, SUN, Zhaoyu, LIU, Xinzhong, XIAO, Song, SONG, Baoshun, LI, Yaheng, HOU, Yu, FU, Jin, ZHAO, Yue, ZHAO, Jian

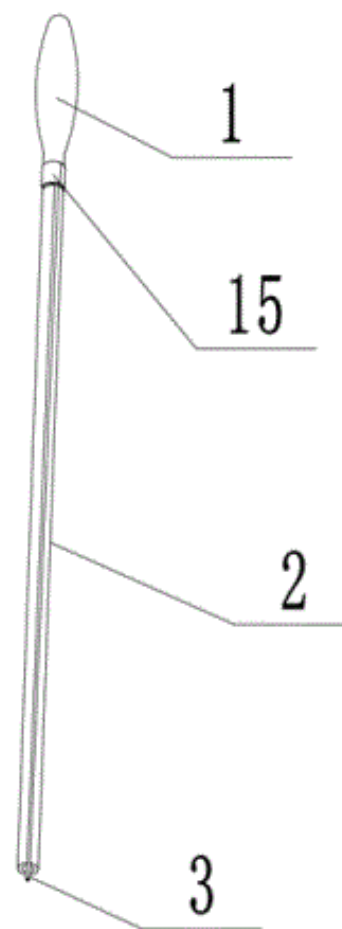
54: PHOTOELECTRIC SWITCH BASED PARKING SYSTEM FOR SHARED PARKING GUIDANCE

00: -

Provided is a photoelectric switch based parking system for shared parking guidance. The parking system can recognize a license plate when detecting a target vehicle, a stm32 single chip microcomputer based recognition system recognizer lifts a barrier gate up, and light emitting diode (LED) lamps are gradually turned on to guide the target vehicle. In a traveling process of the target vehicle, a photoelectric switch detects a position of the target vehicle and transmits the position to a 51 single chip microcomputer, and the 51 single chip microcomputer controls lamps to be turned on. When the target vehicle travels to a parking space, a photoresistor senses the target vehicle and transmits a signal to the 51 single chip microcomputer. The parking system is started anew to guide the target vehicle to travel out of the parking lot when the photoresistor detects that the vehicle leaves the parking space.



water into the water injection cavity, and the catheter is provided with a water injection tube in communication with the water injection port.



21: 2022/05371. 22: 2022/05/16. 43: 2022/09/09

51: A61M

71: Seventh People's Hospital of Shanghai

72: GE, Xiahui, BAI, Chong, ZHANG, Wei, HOU, Jia, XIAO, Hua, BAI, Bin, XU, Jing, CHEN, Mingwu, LIU, Ping

54: A DETACHABLE BALLOON DILATATION CATHETER

00: -

The invention discloses a detachable balloon dilatation catheter, comprising a balloon, a catheter, a guide wire located in the catheter and a rubber conductor fixed at the end of the guide wire; wherein the balloon comprises an inner layer water bladder which can form a rubber conductor insertion cavity and an outer layer water bladder, a water injection cavity having an annular insertion port being formed between the outer layer water bladder and the inner layer water bladder; an end portion of the catheter is provided with an annular insertion portion, wherein the annular insertion portion is sealingly plugged with the annular insertion port and is pressed by a locking mechanism; the annular insertion portion is provided with a water injection port for injecting

21: 2022/05372. 22: 2022/05/16. 43: 2022/09/09

51: A01G

71: Hangzhou Haolin Agricultural Development Co., Ltd., Tonglu Agricultural Technology Extension Center

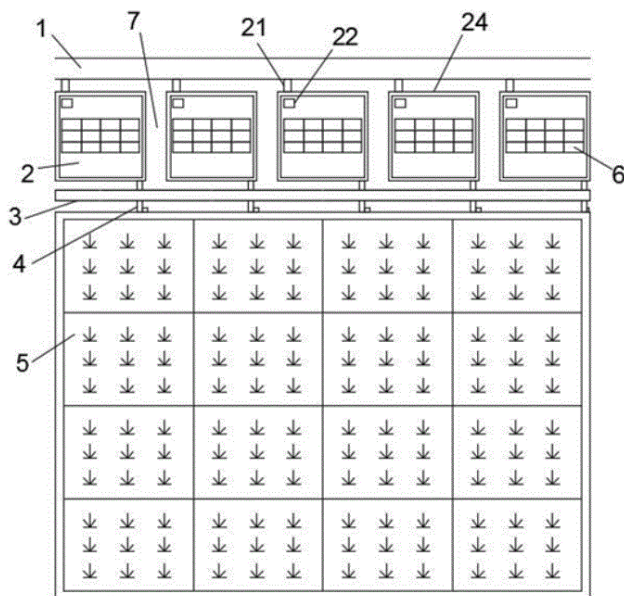
72: JIN, Jianrong, XU, Lijun, WANG, Jie, SHI, Yijun, ZHU, Xiaolan, LIU, Wenhui, JIN, Hao, YIN, Wei, HONG, Meiping

54: FLOATING BED TYPE RICE-TURTLE SYMBIOTIC BREEDING SYSTEM AND BREEDING METHOD THEREOF

00: -

The present invention relates to a floating bed type rice-turtle symbiotic breeding system and a breeding method thereof, and in order to solve the problem of eutrophication pollution of breeding water in the prior art, a technical solution is proposed as follows: a floating bed type rice-turtle symbiotic breeding

system comprises a water channel, a rice-turtle symbiotic block and several overwintering ponds; several overwintering ponds are arranged along the direction of the water channel; an agricultural machinery passage is provided between two adjacent overwintering ponds; a deep trench is provided between the overwintering pond and the rice-turtle symbiotic block; the depth of the deep trench is greater than that of the overwintering pond.



21: 2022/05376. 22: 2022/05/16. 43: 2022/09/09
51: A01C

71: Lingnan Normal University

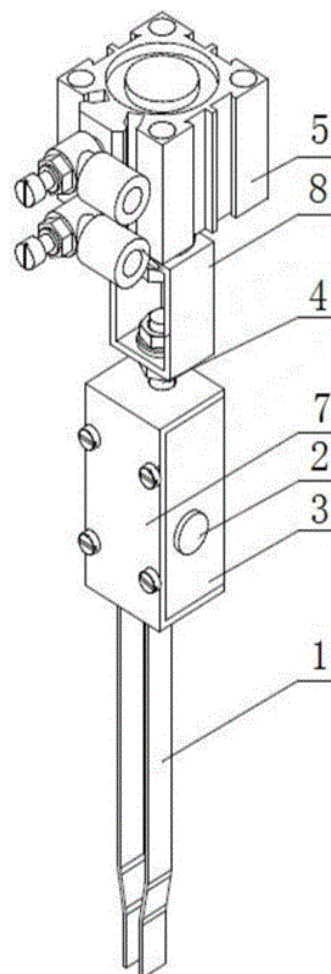
72: Hua Li, Zhipeng Qiu, Liuping Chen, Weiming Zheng, Fuchang Wu, Jinlong Feng, Qichao Li

54: AUTOMATIC SEEDLING CLAMPING MECHANISM OF PLUG SEEDLING TRANSPLANTER

00: -

The utility model relates to an automatic seedling clamping mechanism of a plug seedling transplanter. The automatic seedling clamping mechanism comprises seedling clamping pieces, seedling clamping piece frames, a slide way, a push rod, an air cylinder and a slide block, the slide way is arranged below the air cylinder, the push rod is connected to the lower portion of the air cylinder, the sliding block is connected to the lower portion of the push rod, the sliding block is connected into the slide way in a sliding mode, and round holes matched with the seedling clamping piece frame are formed in

the two opposite side faces of the slide way. And the seedling clamping piece frame is arranged on the round hole and is movably connected with the round hole, through grooves which are inclined and are matched with the seedling clamping piece frame are symmetrically formed in the two opposite side faces of the sliding block, one end of each seedling clamping piece is fixed to the seedling clamping piece frame, and the other end of each seedling clamping piece is arranged outside the sliding way. The automatic seedling clamping mechanism of the plug seedling transplanter is simple and compact in structure, and can avoid damage to stalks of plug seedlings in use, greatly reduce labor intensity and effectively reduce operation cost.



21: 2022/05420. 22: 2022/05/17. 43: 2022/07/19
51: C07K; C12N

71: Krystal Biotech, Inc.

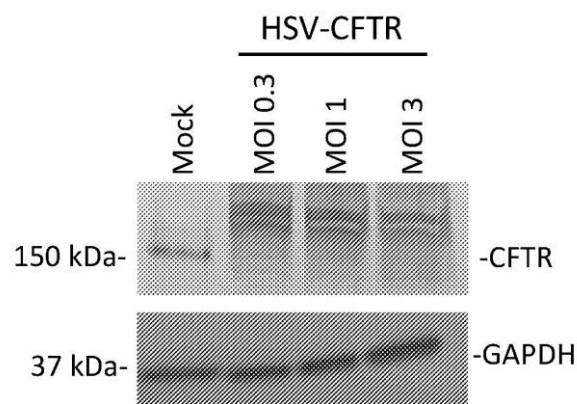
72: PARRY, Trevor, KRISHNAN, Suma, AGARWAL, Pooja

33: US 31: 62/802,871 32: 2019-02-08

54: COMPOSITIONS AND METHODS FOR DELIVERING CFTR POLYPEPTIDES

00: -

The present disclosure provides recombinant nucleic acids comprising one or more polynucleotides encoding a cystic fibrosis transmembrane conductance regulator (CFTR) polypeptide (e.g., a human CFTR polypeptide); viruses comprising the recombinant nucleic acids; compositions and formulations comprising the recombinant nucleic acids and/or viruses; methods of their use (e.g., for the treatment of a chronic lung disease, such as cystic fibrosis); and articles of manufacture or kits thereof.



21: 2022/05492. 22: 2022/05/18. 43: 2022/08/17

51: B01D; C02F

71: MEMBION GMBH

72: VOSSENKAUL, Klaus, VOLMERING, Dirk

33: DE 31: 10 2019 129 074.0 32: 2019-10-28

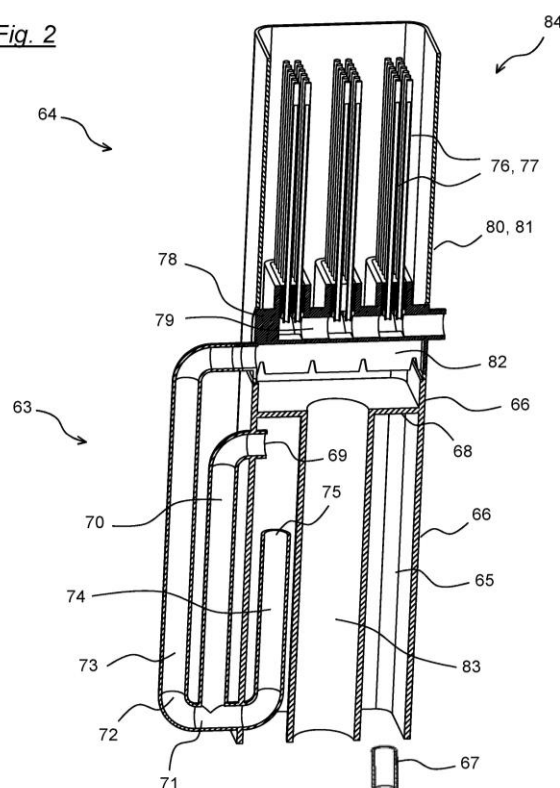
54: METHOD FOR FILTERING A LIQUID, AND FILTER DEVICE

00: -

The invention relates to a method for filtering a liquid in a membrane filter (64) immersed into the liquid by means of membranes (76). In order to clean the membranes (76), gas is introduced into the membrane filter (64) from below in successive pulses using a gassing device (63) in that for each pulse, a gas volume which is arranged below the surface of the liquid and is delimited at the bottom by a level of the liquid is first filled with the gas, said gas (1) simultaneously displacing the liquid from the top towards the bottom and out of a gas lifter channel (70) until the level falls below an inlet cross-section (72) of a gas outflow channel (73), and the gas then

flows out of the gas volume, in order, downwards through the gas lifter channel (70) and through a deflecting region (71) adjoining the gas lifter channel from below, upwards through the inlet cross-section (72) and through the gas outflow channel (73) adjoining said inlet cross-section from above, and then to the surface. The invention also relates to a filter device (84), which has a membrane filter (64) for filtering a liquid by means of membranes and a gassing device arranged below the membranes, for carrying out such a method. The aim of the invention is to improve the cleaning effect of the introduced air. This is achieved in that a housing (80) laterally surrounds the membranes (76) and adjoins the gassing device (63) at the top.

Fig. 2



21: 2022/05517. 22: 2022/05/19. 43: 2022/09/06

51: A01G

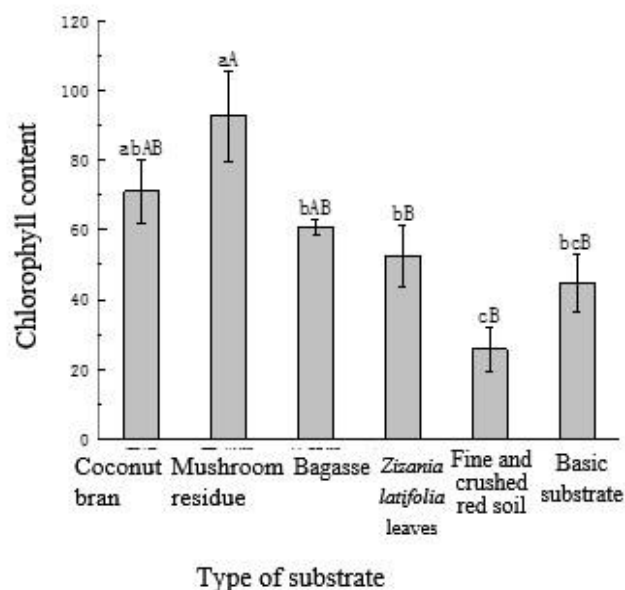
71: CITRUS RESEARCH INSTITUTE OF ZHEJIANG PROVINCE, ZHEJIANG HUALV AGRICULTURAL DEVELOPMENT CO., LTD.

72: HUANG, Xiu, KE, Fuzhi, LUO, Huaguo, NIE, Zhenpeng, SUN, Lifang, XU, Jianguo, SUN, Jianhua

54: PREPARATION METHOD AND APPLICATION OF CITRUS NUTRITION POT NURSERY SUBSTRATE

00: -

Disclosed is a preparation method and application of a citrus nutrition pot nursery substrate, and relates to the technical field of citrus production, nursery and cultivation. Mushroom residue is rich in various bacterial proteins, metabolites and nutrients required for plant growth and development, and provides good nutrition for plants after being thoroughly decomposed. The mushroom residue has strong water permeability and ventilation performance; the root system breathes smoothly. Components of bagasse and coconut bran include cellulose, lignin, etc., which can increase soil air permeability. However, the bagasse and coconut bran contain insufficient amounts of plant nutrients such as protein and starch. If the bagasse is used as the substrate, an appropriate amount of organic fertilizers should be added. In areas with abundant crop waste sources, the mushroom residue can be used as the substrate of nutrient soil for cultivating virus-free citrus seedlings as first, and bagasse as the second choice.



21: 2022/05518. 22: 2022/05/19. 43: 2022/09/06
 51: A01G
 71: CITRUS RESEARCH INSTITUTE OF ZHEJIANG PROVINCE
 72: KE, Fuzhi, HUANG, Xiu, SUN, Lifang, NIE, Zhenpeng, XU, Jianguo, SUN, Jianhua
54: METHOD FOR IMPROVING BREEDING EFFICIENCY OF SATSUMA ORANGE
 00: -

The present invention discloses a method for improving breeding efficiency of satsuma orange, and belongs to the technical field of breeding of new varieties. In the present application, the satsuma orange is pollinated by taking Citrus unshiu Yura variety as a female parent and taking cocktail grapefruit and Citrus grandis as a male parent; and the obtained offspring has the characteristics of highest total seed quantity, high seed quantity and high plumpness, thereby laying a foundation for accelerating the citrus breeding process.



21: 2022/05521. 22: 2022/05/19. 43: 2022/09/09
 51: E04B

71: Zhejiang Tongji Vocational College of Science and Technology

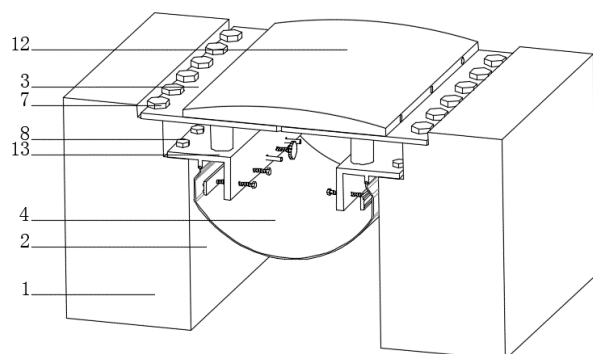
72: Bin Xiao, Ye Lu, Pengjian Teng, Liuyu Zhang, Jiahao Ye

54: A WATERPROOF STRUCTURE FOR CIVIL ENGINEERING EXPANSION JOINTS

00: -

The present invention relates to the field of expansion joint waterproofing technology, and discloses a civil engineering expansion joint waterproofing structure, which includes two concrete blocks, expansion joints, toothed plates and water stops inside the expansion joint. The expansion joint is provided with a first step groove and a second step groove, the first step groove is located above the second step groove, and the toothed plate is securely connected in the first step groove by means of a first screw. The inner part of the second step groove is securely connected with an mounting plate by a second screw, and the water stop belt is arranged on the lower surface of the two mounting plates; By clamping the clamps at both ends of the water stop on the clamping slot, then installing the mounting plate in the second step slot through the

second screw, and then turning the handle to drive the screw to rotate, the screw can drive the pressure plate to compress the water stop with the concrete block during the rotation process, so as to avoid breaking the water stop by bolting, and improve the waterproofness between the concrete block and the water stop.



21: 2022/05523. 22: 2022/05/19. 43: 2022/09/09
51: C07K

71: Tongji Hospital of Tongji Medical
College, Huazhong University of Science and
Technology

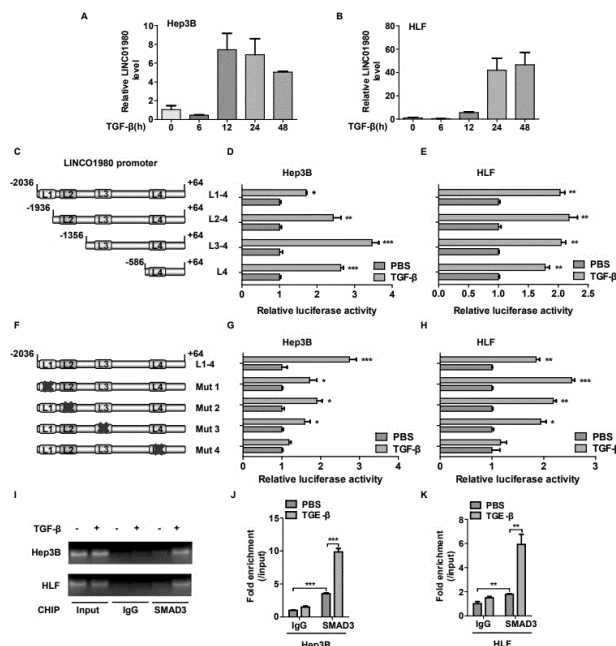
72: Sheng Jiaqi, Huang Wenjie

54: EFFECT OF TGF-BETA ON THE EXPRESSION OF LINC01980

00: -

This invention provides effect of TGF-beta on the expression of LINC01980, relating to the field of TGF-beta expression of LINC01980, the effect of TGF-beta on the expression of LINC01980 is as follows: Hep3B and HLF cells are stimulated by TGF-beta for 0,6,12,24 and 48h respectively, and then the relative expression level of LINC01980 in hepatocellular carcinoma cells treated with TGF-beta for different time is detected by qRT-PCR. Then four potential SMAD3/4 binding sites in LINC01980 promoter region, namely -1997/-1988 (L1), -1893/-1876 (L2), -1262/-1244 (L3) and -489/-472(L4) nucleotide sequences were cloned into pGL4.17 luciferase reporter plasmid and named L1-4 plasmid, then, the full length of LINC01980 promoter was truncated to form three luciferase reporter plasmids containing different binding sites of LINC01980 promoter of L4 respectively. The invention proves that TGF-beta activates the transcription of LINC01980 through the classical TGF-beta/SMAD

signal pathway, which will bring new hope for the early detection of LINC01980 and the research and development of targeted drugs for the diagnosis and treatment of lung metastasis of hepatocellular carcinoma.



21: 2022/05524. 22: 2022/05/19. 43: 2022/09/09
51: A01K

71: Qingdao Agricultural University, Qingdao Marine
Creature Museum, Shandong Tang Wang Carp
Agricultural Development Co., Ltd

72: WANG Feng, QI Jiguang, JIANG Shibo, WANG
Wei, WANG Jinye

54: HIGH-YIELD BREEDING METHOD OF PTEROPHYLLUM SCALARE

00: -

The invention discloses a high-yield breeding method of Pterophyllum scalare, which comprises the following steps: temporarily raising and domesticating the wild or commercially available Pterophyllum scalare to reach the parent fish standard, inducing spawn by frequently changing water and feeding fresh biological bait, keeping the gonad development of male and female fish synchronized, obtaining fertilized eggs, performing disinfection treatment, putting them into a sterilized incubator for hatching, removing bad eggs during hatching, and dispersing the larvae after hatching, which can greatly improve the hatching rate and emergence rate of Pterophyllum scalare. The method can obviously improve the yield of

Pterophyllum scalare, and has important significance for meeting the demand of people for ornamental fish and balancing the market supply and demand of angelfish.

21: 2022/05525. 22: 2022/05/19. 43: 2022/09/09
51: C04B

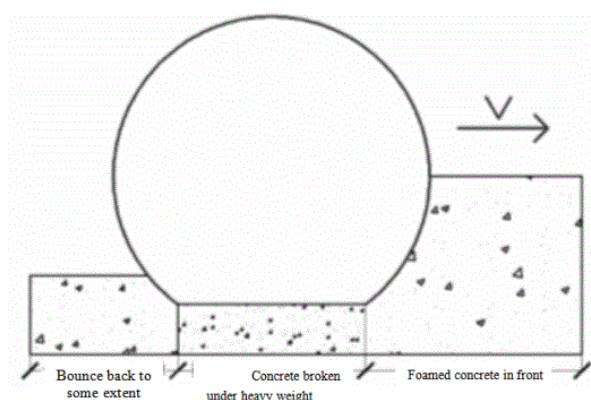
71: TONGJI UNIVERSITY

72: XIAO Jianzhuang, ZHANG Hanghua, DUAN Zhenhua, DING Tao

54: METHOD OF PREPARING RECYCLED FOAMED CONCRETE FOR ENGINEERED MATERIALS ARRESTING SYSTEM

00: -

The present application provides a method for preparing foam recycled concrete suitable for engineered materials arresting system, comprising the following steps: 1) Taking a foaming agent aqueous solution to be stirred and prepared into foam; 2) Taking a gelling material and uniformly stirring and mixing to obtain a dry material; 3) Adding the foam obtained in the step 1) into the dry material in step 2) for uniformly stirring, and simultaneously adding a solvent to obtain a uniform slurry; 4) Sequentially adding the fiber and the recycled fine aggregate into the uniform slurry obtained in the step 3) for stirring to obtain the required foamed recycled concrete. The method for preparing foam recycled concrete suitable for engineered materials arresting system, effectively solves the problems of long reconstruction time, waste of resources and environmental pollution of EMAS concrete, and is worthy of popularization and application in practical work.



21: 2022/05526. 22: 2022/05/19. 43: 2022/09/09
51: A23J

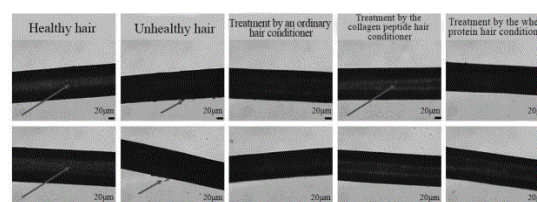
71: Shanghai Ocean University

72: XU, Changhua, TAO, Ningping, WANG, Xichang, LIU, Runhui, GAO, Minghui, TANG, Yuyi, TANG, Yiyang

54: FISH-DERIVED COLLAGEN PEPTIDE AND HAIR-CARE PRODUCTS AND APPLICATIONS THEREOF

00: -

The present invention relates to the fields of aquatic product processing and daily use chemicals, and discloses a method for extracting a fish-derived collagen peptide, including the following steps: (1) extracting fish skin of clean raw fish with water for 2.5-8 h at a constant temperature of 85-95 degrees Celsius; (2) adding a compound protease 0.5%-2% mass of the fish skin for enzymolysis for 1-4 h at 52-60 degrees Celsius under neutral conditions; (3) performing enzyme deactivation and cooling, then taking supernatant for decoloration and filtering. The prepared fish-derived collagen peptide has good adsorbability on hair, can permeate into the inside of damaged hair to interact with hair keratin to repair and improve the hair keratin, and has higher activity, can diffuse into the cortex of hair to help reducing the injury of hair.



21: 2022/05527. 22: 2022/05/19. 43: 2022/09/09
51: A01G; A61K; C05C; H04L

71: TOBACCO RESEARCH INSTITUTE OF CHINESE ACADEMY OF AGRICULTURAL SCIENCES

72: LI, Yiqiang, CHEN, Qianru, JING, Changliang, ZOU, Ping, YUAN, Yuan, MA, Siqi, LI, Zhen, YANG, Yingjie, CHU, Depeng

54: PREPARATION PROCESS OF SARGASSUM FUSIFORME OLIGOSACCHARIDE AND APPLICATION THEREOF IN CROP PLANTING

00: -

The present disclosure belongs to the field of crop planting, and relates to a preparation process of a sargassum fusiforme oligosaccharide and an application thereof in crop planting.

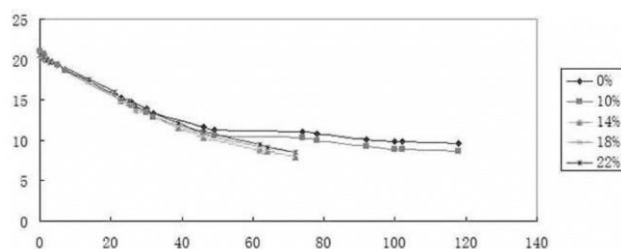
21: 2022/05528. 22: 2022/05/19. 43: 2022/09/09
51: C09K; E02D

71: Henan University of Urban Construction
72: ZHAI, Juyun, ZHU, Yingfan, LI, Guanpeng, ZHANG, Shuo, ZHAO, Jianbin, SONG, Weile, ZHANG, Huiping, LONG, Zhe, SONG, Jinhu, ZHU, Hanyu, DING, Jiakang

54: METHOD FOR IMPROVING SWELLING-SHRINKAGE CHARACTERISTICS OF EXPANSIVE SOIL BY FLY ASH

00: -

Disclosed is a method for improving swelling-shrinkage characteristics of expansive soil by fly ash. Fly ash is added into expansive soil; and a mass of the fly ash added into the expansive soil is 20% of that of the expansive soil. The fly ash is an additive that can effectively improve the expansive soil. The ion exchange and pozzolanic reaction that occur after the fly ash is added into the expansive soil can reduce the swelling-shrinkage effect of the expansive soil. After the fly ash is mixed with the expansive soil, the fly ash can interact with the soil under certain water content conditions to generate ion exchange. High-valent ions in the fly ash that can be used for ion exchange, such as Ca^{2+} , Al^{3+} and Fe^{3+} , can promote the flocculation of clay particles. A certain amount of amorphous SiO_2 and Al_2O_3 in the fly ash can generate pozzolanic reaction.



21: 2022/05532. 22: 2022/05/19. 43: 2022/09/09
51: E04G

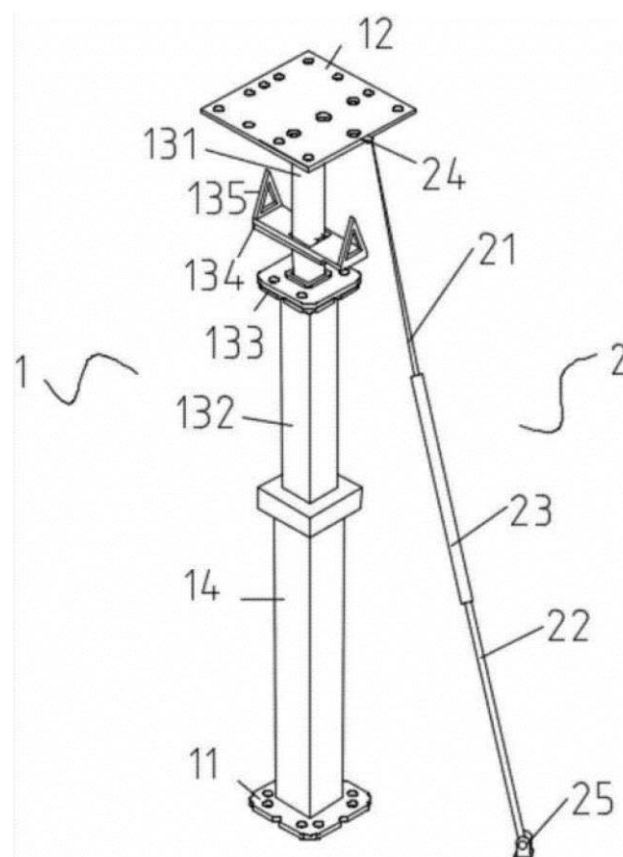
71: Jiuzhou Engineering Design Co., Ltd, Guangzhou University, Guangzhou City Construction College
72: Zhang JiChao, Shen GuangMing, Tan Ping, Wang KeYi, Mei Yan, Fan GuangTao, Xu Yong, Jiang YanFang, Peng DanDan, Yu ZhiWei, Liu YuanYuan, Bao Wei, Wu YaBo, Zhang Yan

54: BUILDING SUPPORT FRAME

00: -

The invention provides a building support frame which is installed on a base plane and comprises a first support assembly and a second support

assembly, wherein the first support assembly comprises a bottom plate, a first support member and a top plate, the bottom plate is fixedly connected to the base plane, the bottom end of the first support member is fixedly connected with the bottom plate, and the top end of the first support member is fixedly connected with the top plate; One end of the second support assembly is hinged with the top plate, so that the second support assembly has the degree of freedom to rotate around the first support assembly, and the other end of the second support assembly is hinged on the base plane. When the building support frame is used for auxiliary construction, the support frame can realize stable support and improve the safety; and the building support frame is simple in structure and convenient to disassemble and transport.



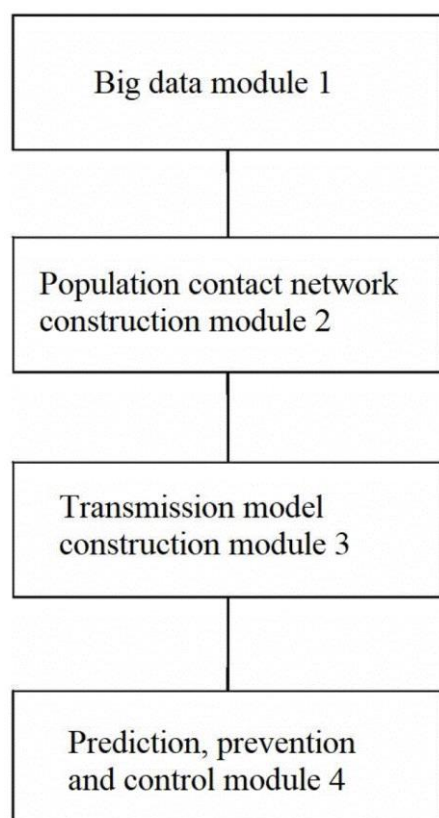
21: 2022/05533. 22: 2022/05/19. 43: 2022/09/09
51: G06Q

71: Shaanxi Normal University

72: CHEN, Li

54: PREDICTION, PREVENTION AND CONTROL SYSTEM FOR EPIDEMIC DISEASES

00: -
 Provided is a prediction, prevention and control system for epidemic diseases. The system includes a big data module connected with a population census database, a public transit information card system and a hospital information acquisition system and used for acquiring population census data, public transit information card data and crowd contact data in hospitals; a population contact network construction module used for constructing a population contact network; a transmission model construction module used for constructing transmission models for different epidemic diseases; and a prediction, prevention and control module used for predicting transmission and outbreak trends of the epidemic diseases and formulating prevention and control strategies for the epidemic diseases. The present invention constructs the population contact network on the basis of acquired big data, thereby improving reliability of the transmission models for the epidemic diseases and reliability and accuracy of prediction, prevention and control of the epidemic diseases.



21: 2022/05542. 22: 2022/05/19. 43: 2022/09/14

51: A23J; A23K; B02C; C12C

71: BioBo GmbH

72: GORDILOV, Oleg Grigorievich

33: RU 31: 2019133308 32: 2019-10-21

54: PROTEIN SUSPENSION FROM BREWER'S GRAINS, METHOD AND APPARATUS FOR OBTAINING SAME

00: -

The group of inventions relates to the food industry, and more particularly to a method and device for transforming brewer's spent grain (BSG). The invention makes it possible to increase the level of recovery of edible fractions from BSG to 90-95%, and to increase the amount of protein in an edible suspension to not less than 50 wt% dry solids. The underlying principle of the invention is a technique for preparing BSG for nutrient extraction and extracting said nutrients by mechanical processing on a proposed industrial processing line. The essence of the claimed method lies in loosening BSG on a vibratory sieve, grinding the BSG in a colloid mill with the addition of water or centrate in a ratio of from 0.5:1 to 1:1 relative to BSG to produce a paste-like homogeneous mass of BSG, and then processing said mass in a screw extractor for further grinding and separation into two fractions: an edible suspension having a 90-95% moisture content and containing all of the nutrients of BSG, including protein substances; and ground BSG husks having a 60-75% moisture content, suitable for subsequent industrial use. The edible suspension is then mechanically filtered to remove ground husk residue, and the suspension is pumped into a storage tank.



21: 2022/05556. 22: 2022/05/20. 43: 2022/08/26

51: A23K

71: South China Normal University

72: SONG, Fei, HE, Chaoqun, QIN, Yawen, GENG, Haoyu, WANG, Wenqiang, YANG, Peng

54: FEED FOR IMPROVING SILURUS MERIDIONALIS' QUALITY AND IMMUNITY AND APPLICATION OF SAME

00: -

The present invention belongs to the technical field of feed, in particular to a feed for improving silurus meridionalis' quality and immunity and application of same. The feed consists of fish meal, chicken meal, cottonseed protein, corn gluten meal, wheat flour, soybean oil, soybean phospholipid oil, calcium dihydrogen phosphate, multivitamins, compound minerals, and natural lutein. The feed with addition of natural lutein helps to increase the content of carotenoid in the silurus meridionalis' back and belly, and the yellowness and brightness of its body color, and improve the water-holding capacity of muscles, the content of collagen and the muscle quality, and the addition of natural lutein enables the obtained feed to increase the content of active oxygen in silurus meridionalis' blood cells, reduce the apoptosis rate of blood cells, and improve the immunity of body fluids and cells.



21: 2022/05557. 22: 2022/05/20. 43: 2022/08/26
51: E04B

71: Jiuzhou Engineering Design Co., Ltd,
Guangzhou University, Henan University of
Engineering

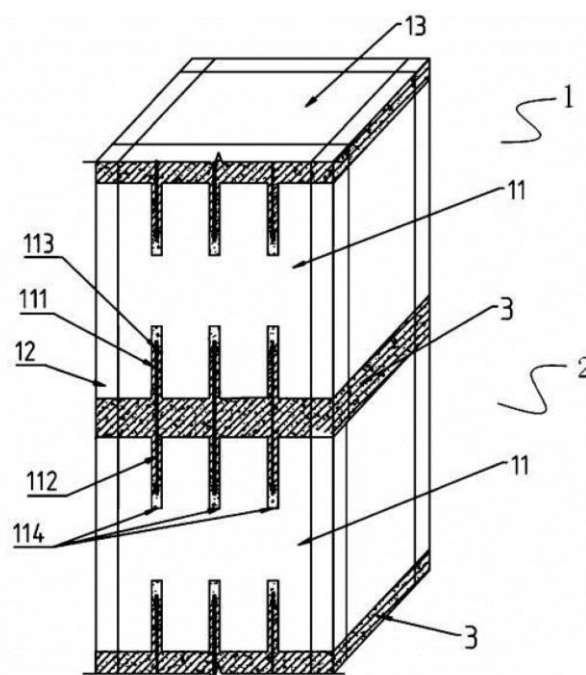
72: Zhang JiChao, Qu ZhaoWei, Xu Yong, Zhang
Yin, Tan Ping, Yang BeiSheng, Wang DaYang,
Huang Min, Yu ZhiWei, Bao Wei, Li JiaJia, Jian
WeiTong, Yan Lei

54: A VERTICAL CONNECTED STRUCTURE OF MODULAR BUILDING UNIT

00: -

This invention provides vertical connected structure of modular building unit that comprises an upper modular unit, a lower modular unit and a laminated beam arranged between the upper and lower modular units, wherein the laminated beam and the upper and lower modular units form a whole body by

cast-in-situ. The modular unit comprises prefabricated shear walls, and the upper and lower sides of the prefabricated shear walls which are vertically provided with a plurality of reinforcement grooves, and the lower reinforcement grooves of the upper prefabricated shear wall correspond to the upper reinforcement grooves of the lower prefabricated shear wall one by one. Prestressed steel bars are arranged in the steel bar grooves, which penetrate through two corresponding steel bar grooves of the upper and lower prefabricated shear walls, and both ends of the prestressed steel bars extend out of the steel bar grooves are anchored by special anchors for prestressed steel bars. The invention can avoid or reduce the occurrence of cracks at the vertical joint of the prefabricated modular building, which makes the construction more convenient and concise, and greatly improves the construction efficiency and ensures the engineering quality.



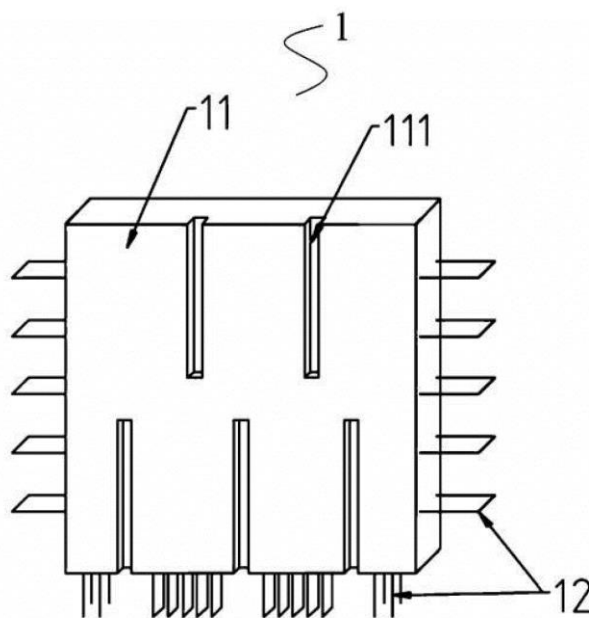
21: 2022/05558. 22: 2022/05/20. 43: 2022/08/26
51: E04B

71: Jiuzhou Engineering Design Co., Ltd,
Guangzhou University, Huanghuai University
72: Zhang JiChao, Li BingZhang, Wang KeYi, Yang
DeLei, Xu Yong, Ren FengMing, Song Can, Wang
DaYang, Hu ZhongMing, Bao Wei, Zhao Shuang,
Jian WeiTong, You YaJie

54: SHEAR WALL STRUCTURE SYSTEM

00: -

This invention provides shear wall structure system that comprises a plurality of prefabricated shear wall bodies which are arranged on the same vertical plane from bottom to top, and a superposed beam which is arranged between two adjacent prefabricated shear wall bodies, wherein the superposed beam and the two adjacent prefabricated shear wall bodies form a whole body by cast-in-place; the prefabricated shear wall body comprises a concrete wall body and a plurality of reinforcement grooves vertically arranged along the upper and lower sides of the concrete wall body; the lower reinforcement grooves of the upper prefabricated shear wall body are in one-to-one correspondence with the upper reinforcement grooves of the lower prefabricated shear wall body; prestressed steel bars are arranged in the reinforcement grooves; the prestressed steel bars run through two corresponding reinforcement grooves of the upper and lower adjacent prefabricated shear walls; and both ends of the prestressed steel bars extend out of the reinforcement grooves and are anchored by special anchors for prestressed steel bars. The invention can reduce the possibility of microcracks at the joint of the upper and lower nodes of the shear wall, and can make the construction more convenient and concise, and greatly improve the construction efficiency.



21: 2022/05559. 22: 2022/05/20. 43: 2022/08/26
51: G01C

71: Central South University of Forestry & Technology

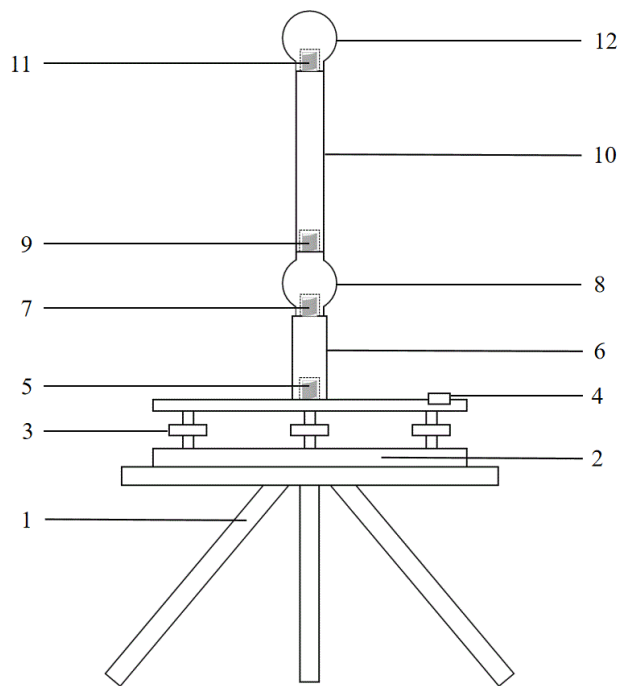
72: SUN Hua, MA Kaisen, JIANG Fugen, CHEN Song

54: AIRBORNE AND GROUND LASER SCANNING REGISTRATION TARGET COMBINATION

00: -

The invention discloses an airborne and ground laser scanning registration target combination device, which comprises a support, a lower connecting rod, a lower target ball, an upper connecting rod and an upper target ball which are vertically connected in sequence. The bottom of the support is placed at the target setting place, the top is connected to the bottom of the lower connecting rod, the top of the lower connecting rod is provided with a lower target ball, the top of the lower target ball is connected to the bottom of the upper connecting rod, and the top of the upper connecting rod is provided with an upper target ball. The invention has the technical effect that by combining the double target balls with the best number of connecting rods, the simultaneous observation of airborne and ground laser scanning in the forest environment of forestry investigation can be met, so that data fusion registration can be carried out. It avoids the technical problem of developing complex algorithms for data fusion, has convenient operation,

extremely low cost, and improves the efficiency and accuracy of data fusion. At the same time, the high-precision fusion of point cloud data further improves the accuracy of forestry investigation factors and achieves accurate monitoring of forest resources.



21: 2022/05560. 22: 2022/05/20. 43: 2022/08/26
51: E04B

71: Jiuzhou Engineering Design Co., Ltd,
Guangzhou University, Guangzhou Panyu
Polytechnic

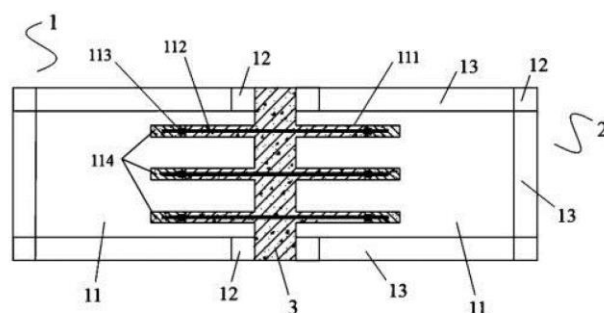
72: Zhang JiChao, Zhou LiGuang, Tan Ping, Ye
Wen, Li HaiGe, Xu Yong, Ren FengMing, Yang
ZhiWei, Wang DaYang, Bao Wei, Zhu YanFeng,
Zhang Yan, Dong KunLun

54: TRANSVERSE CONNECTION STRUCTURE OF MODULAR UNIT

00: -

This invention provides transverse connection structure of modular unit, which comprises transverse connection structure of modular unit, which comprises a left modular unit and a right modular unit, a cast-in-place belt is arranged between the left modular unit and the right modular unit, and the left modular unit and the right modular unit are connected into a whole through the cast-in-place belt; the modular unit comprises a prefabricated floor slab, one side of which is provided with a plurality of reinforcement grooves along the transverse direction, and the reinforcement

grooves on the left prefabricated floor slab and the right prefabricated floor slab are in one-to-one correspondence; the reinforcement grooves are internally provided with prestressed steel bars, which run through the two corresponding reinforcement grooves of the left and right prefabricated floors, and the two ends of the prestressed steel bars extend out of the reinforcement grooves and are anchored by special anchors for prestressed steel bars. The modular unit transverse connection structure of the invention connects the left and right modular units in a prestressed way, which can effectively prevent cracks at the connecting nodes and make the connection safer and more reliable.



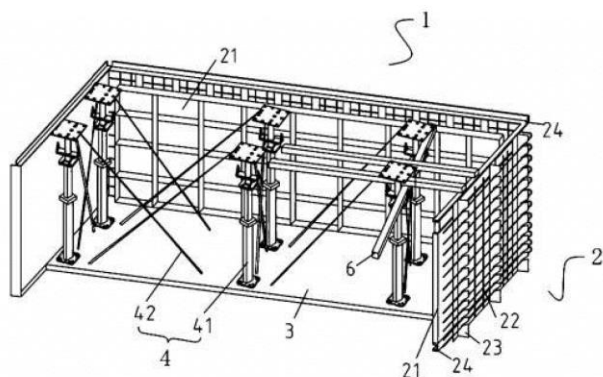
21: 2022/05561. 22: 2022/05/20. 43: 2022/09/09
51: E04B

71: Jiuzhou Engineering Design Co., Ltd,
Guangzhou University, Huanghuai University
72: Zhang JiChao, Wang HaiTao, Tan Ping, Yang
DeLei, Xu Yong, Zhao ZhongWei, Ren FengMing,
Wang DaYang, Xin YouYang, Yu ZhiWei, Jing
XiangYang, Jian WeiTong, Li JingJing

54: PREFABRICATED BUILDING SYSTEM

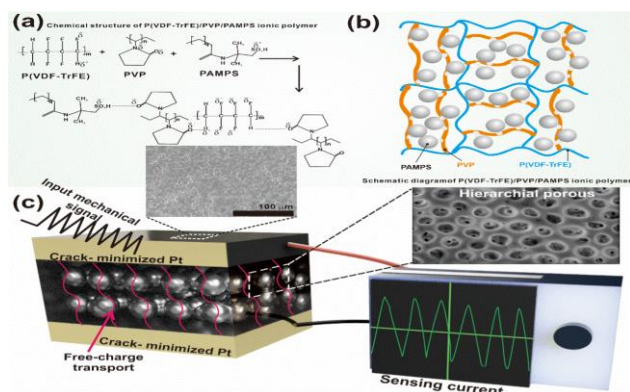
00: -

This invention provides prefabricated building system, which comprises at least one building unit that comprises a prefabricated wall and a prefabricated floor, wherein the prefabricated wall is connected with the prefabricated floor and two adjacent prefabricated walls by bolts, and the prefabricated wall is formed by concrete pouring. The invention also provides a construction technology of prefabricated building system. The invention can both effectively improve the vertical rigidity of the building system and the earthquake resistance, further realizes the installation of high-rise buildings.



21: 2022/05564. 22: 2022/05/20. 43: 2022/08/26
 51: B01D; C23C; H01M
 71: GRAPHIC ERA (DEEMED TO BE UNIVERSITY)
 72: Dr. VARIJ PANWAR
 33: IN 31: 202111037182 32: 2021-09-03
54: IONIC POLYMER METAL NANO-COMPOSITE SENSOR WITH VIA MINIMIZING CRACKS IN ELECTRODE

00: -
 The present invention relates to a porous ionic polymer metal nano-composite (IPMNC) sensor for minimizing cracks of a metal electrode comprising a membrane, wherein said membrane comprises a polymer blend of Poly(vinylidene fluoride-trifluoroethylene-) and Polyvinylpyrrolidone and a ionic polymer (poly(2-acrylamido-2-methyl-1-propane-sulfonic acid) (PAMPS)); wherein said ionic polymer is directly attached on said polymer blend; and wherein said metal electrode is made up of platinum nanoparticles which are penetrated on surfaces of said membrane. The ionic polymer metal nano-composite sensor of the present invention has sensing voltage 800 mV, sensing current density 2.5 mA/cm², and bending strain 0.009 mm/s at 0.2 Hz.



21: 2022/05565. 22: 2022/05/20. 43: 2022/08/26

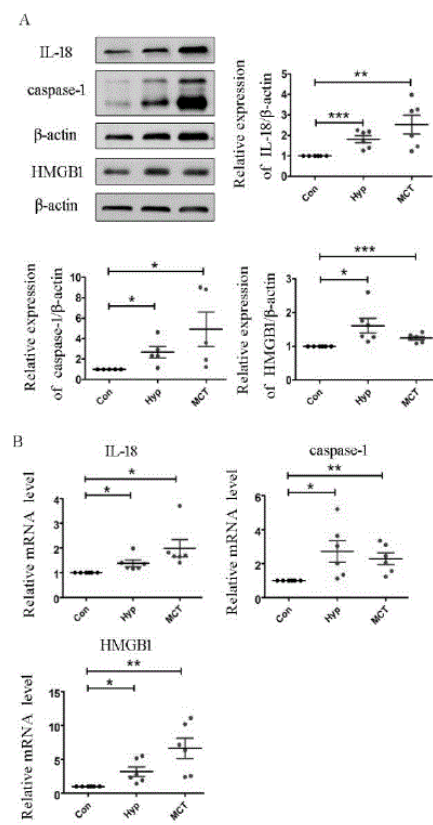
51: C08F
 71: Hainan Tropical Ocean University
 72: WAN Wubo, ZHOU Xinyu, ZHONG Shengkui, SHI Yaqin, WANG Lijuan, LIN Wenqiang
54: POLYMER KITCHEN AND BATHROOM BOARD AND PREPARATION METHOD THEREOF

00: -
 The invention discloses a preparation method of polymer kitchen and bathroom board, which comprises the following steps: mixing polymer raw materials in proportion to obtain a mixture; the raw materials include 30-40 parts of polyamide resin; 10-20 parts of polyester; 10-20 parts of ceramic powder; 10-20 parts of bamboo fiber powder; 1-5 parts of colorant; 5-10 parts of filler; 1-5 parts of curing agent; Heating the mixture with high-temperature microwave to obtain a flour dough-shaped rubber product; Filling the plastic products into the custom-made kitchen and bathroom molds, then putting the filled custom-made kitchen and bathroom molds into a thermoforming machine, and performing high-temperature heating molding to prepare semi-finished products; taking out the semi-finished product, cooling, trimming and polishing to obtain the finished product. According to the invention, polyamide resin, polyester resin and ceramic powder are combined, and the obtained polymer kitchen and bathroom board not only has high color fastness and good glossiness, but also has strong impact resistance, acid and alkali resistance and water resistance.

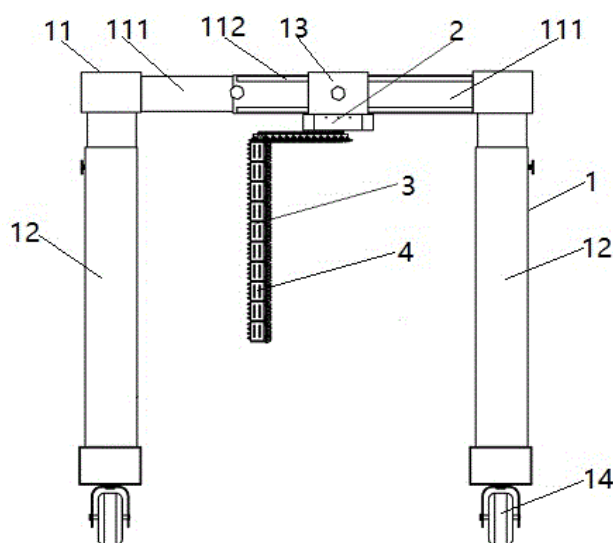
21: 2022/05566. 22: 2022/05/20. 43: 2022/09/09
 51: C12N
 71: HAINAN MEDICAL UNIVERSITY
 72: ZHANG Min
54: APPLICATION OF PD-L1 IN PREPARING DRUGS FOR TREATING PH

00: -
 The application discloses an application of programmed death-ligand 1 (PD-L1) in preparing drugs for treating pulmonary arterial hypertension (PH), belonging to the medical field. According to the experimental verification, the signal transducer and activator of transcription 1 (STAT1) promotes the abnormal expression of PD-L1 in smooth muscle cells (PASCs) and activates the pyroptosis of PASCs cells under anoxic condition, thereby promoting pulmonary vascular fibrosis and then accelerating the development process of PH. The

verification result of the application provides a new idea for in-depth understanding of pyroptosis and the influence of PH.



power modules. The hedge trimmer has the beneficial effects that the overall structural design is reasonable, the operation is convenient and flexible, the labor intensity of gardeners is reduced, the trimmer can adapt to various complicated pruning environments, the diameter and shape of seedlings can be adjusted according to the needs, and various gardening shapes can be constructed, which can better meet the current greening requirements and is suitable for popularization and application.



21: 2022/05567. 22: 2022/05/20. 43: 2022/08/26
51: A01G
71: Anhui Polytechnic University
72: ZHENG Yanchang, WU Guo, ZHANG Zhen, LU Yuelin, CHEN Yu

54: HEDGE TRIMMER WITH ADJUSTABLE PRUNING SHAPE FOR SEEDLINGS

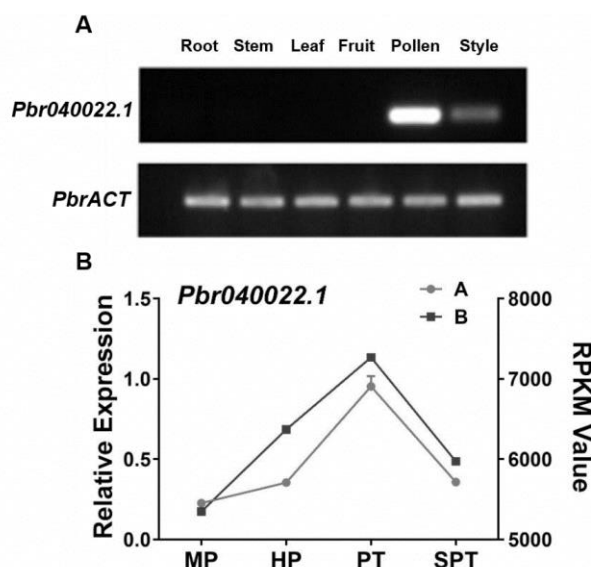
00: -
A hedge trimmer with adjustable pruning shape for seedlings belongs to the technical field of garden pruning equipment. The hedge trimmer comprises a mounting bracket, a rotary driving mechanism and a trimming mechanism, wherein the mounting bracket is connected with the rotary driving mechanism, and the rotary driving mechanism is fixedly connected with one end of the trimming mechanism and drives the trimming mechanism to do rotary motion; the trimming mechanism is formed by connecting a plurality of independently working trimming power modules in series, and the trimming power modules are provided with an angle adjusting unit for adjusting the connection angle between the trimming

21: 2022/05568. 22: 2022/05/20. 43: 2022/08/26
51: C12N
71: Shandong Institute of Pomology
72: JIAO Huijun, WANG Yue, HE Wenna, LI Meie, WEI Shuwei, RAN Kun

54: IDENTIFICATION AND FUNCTION OF PBRAGP1 FUNCTIONAL GENE IN PEAR

00: -
The invention belongs to the technical field of gene engineering, and particularly relates to a functional gene PbrAGP1 which is identified and cloned from pears, analyzed for tissue positioning, expression mode and subcellular positioning, and analyzed for regulating the growth of pear pollen tubes. The applicant clone a new gene PbrAGP1 from pears by use a plant gene cloning technology, and that nucleotide sequence is shown in SEQ ID NO:1 and comprises a 528bp open reading frame; Encoding 176 amino acids, and the encoded amino acid sequence is shown in sequence table SEQ ID No: 2. PbrAGP1 is a highly expressed gene in pollen, and it firstly increases and then decreases during the

growth and development of pollen tube, and it is mainly located on the cell membrane. PbrAGP1 recombinant protein could significantly promote the growth of pear pollen tube in vitro, and the application of antisense oligodeoxynucleotides also confirmed that it could promote the growth of pear pollen tube. The PbrAGP1 gene separated and identified in the invention participates in regulating and controlling the growth process of the pollen tube in the plant body and participates in the pear pollination and fertilization process, thereby having important theoretical significance for overcoming the self-incompatibility phenomenon of the pears and improving the pollination efficiency.



21: 2022/05569. 22: 2022/05/20. 43: 2022/08/26
51: G03F

71: Anhui Polytechnic University

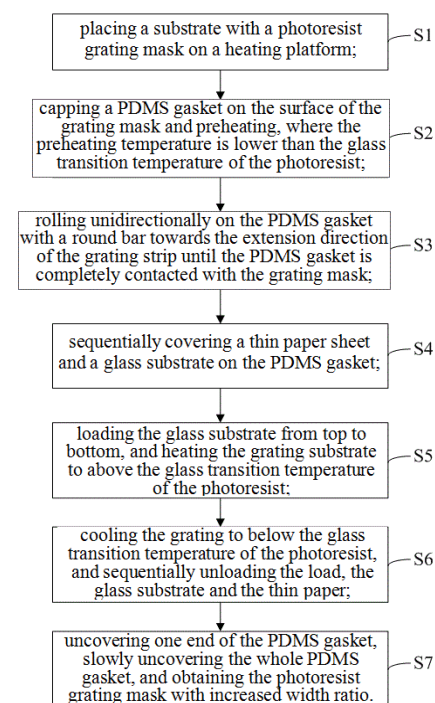
72: ZHENG Yanchang, LI Cheng, LU Yuelin,
ZHANG Zhen, CHEN Yu

54: PROCESSING METHOD FOR INCREASING WIDTH RATIO OF PHOTORESIST GRATING MASK

00: -

The invention is suitable for the technical field of grating processing, and provides a processing method for increasing width ratio of photoresist grating mask, which comprises the following steps: placing a substrate with a photoresist grating mask on a heating platform; a PDMS gasket is covered on the surface of the grating mask and preheated; rolling unidirectionally on the PDMS gasket towards the extension direction of the grating strip with a

round bar until the PDMS gasket is completely contacted with the grating mask; sequentially covering a thin paper sheet and a glass substrate on the PDMS gasket; applying load to the glass substrate from top to bottom to heat the grating substrate; cooling the grating to below the glass transition temperature of the photoresist, and sequentially unloading the load, the glass substrate and the thin paper; uncover one end of PDMS gasket and slowly peel off the whole PDMS gasket to obtain photoresist grating mask with increased width ratio. The width ratio of the grating mask obtained by the processing method is obviously increased, while the grating mask lines are uniform in thickness, flat in surface and steep in side walls.



21: 2022/05570. 22: 2022/05/20. 43: 2022/08/26
51: A63B; A63F; G06K

71: Anhui Polytechnic University

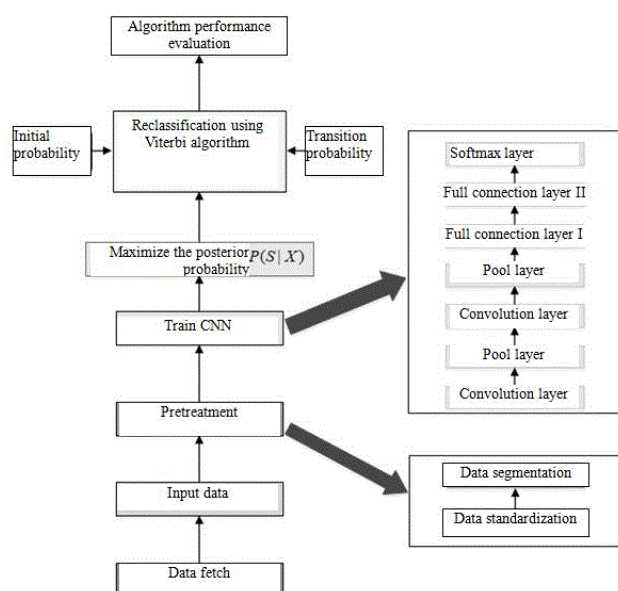
72: ZHANG Zhen, FANG Ming, WANG Anheng,
CHEN Yu, ZHENG Yanchang, XU Manman, LIU
Yongming, ZHAO Zhuanzhe

54: SQUAT ACTION RECOGNITION METHOD

00: -

The invention relates to the field of deep learning and pattern recognition, in particular to a squat action recognition method, which comprises S1, data extraction; S2, inputting data; S3, data preprocessing; S4, training a convolutional neural

network; S5, calculating the initial probability; S6, calculating the transition probability; S7, reclassifying by using Viterbi algorithm; S8, algorithm performance evaluation; According to the invention, the inertial navigation motion capture device is used to extract data, and the convolution neural network CNN is used for in-depth development. A new algorithm based on CNN is proposed, and the method is applied to the squat motion recognition experiment. Experimental results show that the method can correctly distinguish the standard squat posture from the non-standard squat posture in the squat motion. Compared with CNN, the method has higher recognition accuracy.

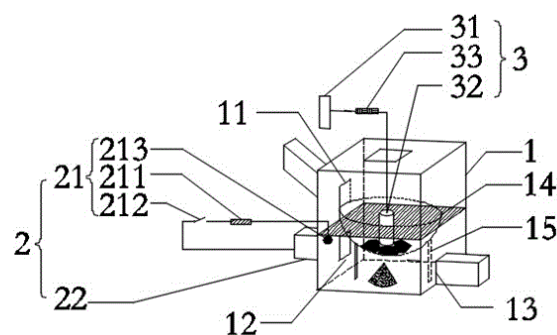


21: 2022/05571. 22: 2022/05/20. 43: 2022/08/26
 51: B28C
 71: TONGJI UNIVERSITY
 72: XIAO Jianzhuang, DING Tao, DUAN Zhenhua, ZHANG Qingtian
54: DEVICE FOR DECOMPOSING WASTE CONCRETE BY HIGH VOLTAGE PULSED POWER

00: -

The invention provide a device for decomposing waste concrete by high voltage pulsed power, which comprise that following components: a tank body, wherein waste concrete is input into the tank body; the liquid feeding mechanism is communicated with the tank body and used for conveying liquid into the tank body; the decomposition mechanism comprises a pulse current generating unit and at least one input electrode, the input electrode is externally connected

with the pulse current generating unit, the input electrode is located in the liquid in the tank body and contacts with the waste concrete, and the decomposition mechanism is used for discharging the pulse current generated by the pulse current generating unit in the liquid in the tank body through the input electrode so as to decompose the waste concrete. The invention further provides a method for discharging and decomposing waste concrete by high voltage pulsed power provided by the invention, the regenerated products are easy to clean and separate, there is no cross-contamination in the production process, the processing efficiency is improved, the energy consumption is reduced, 100% full utilization of waste concrete can be realized, and the greening of the construction industry can be promoted.



21: 2022/05572. 22: 2022/05/20. 43: 2022/08/26
 51: B09B

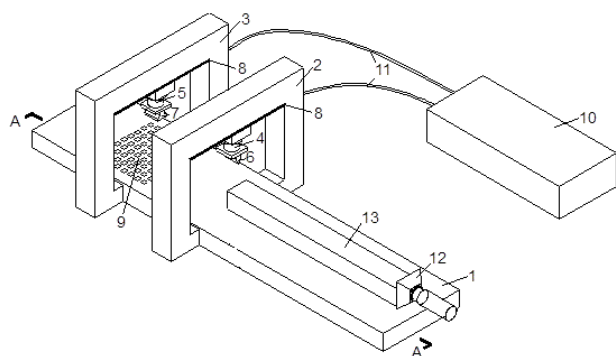
71: TONGJI UNIVERSITY, Shanghai Youhong Environmental Protection Technology Co., Ltd.
 72: XIAO Jianzhuang, XIA Bing, FANG Hongping, DUAN Zhenhua

54: HYDRAULIC DISINTEGRATION DEVICE AND DISINTEGRATION METHOD THEREOF FOR WASTE CONCRETE WITH HIGH REINFORCEMENT AMOUNT

00: -

The application relates to a hydraulic disintegration device for waste concrete with high reinforcement amount comprises a workbench, a steel bar cutting mechanism and a concrete crushing mechanism which are sequentially arranged on the workbench, where the steel bar cutting mechanism comprises a steel bar cutting Counterforce frame and a steel bar cutting pressure head movably arranged on the steel bar cutting Counterforce frame; the concrete crushing mechanism comprises a concrete crushing

Counterforce frame and a flat pressure head movably arranged on the concrete crushing Counterforce frame; the workbench at the lower part of the flat pressure head is provided with a steel leakage net; the lower part of the steel leakage net is provided with a conveying crawler; the steel bar cutting pressure head and the flat pressure head can be replaced, and the shape and size can be selected according to the specifications of the components to be disassembled. Compared with the prior art, the application has the advantages of low noise, no vibration, no flying stones and controllable dust, the influence on the environment is small, with high safety; the operation efficiency in the disintegration process is high, the pressure head is convenient to be replaced with a wide applicability; the degree of separation of rebars and concretes is high, and concrete fragments directly used for recycling can be formed.



21: 2022/05573. 22: 2022/05/20. 43: 2022/08/26
51: A01F; A61K

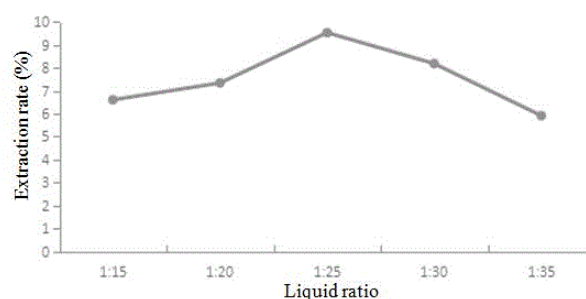
71: QINGDAO AGRICULTURAL UNIVERSITY
72: LIU Zhihai, GAO Fei, MA Ce, CUI Yanli, FAN Xiao, ZHANG Yaru, HOU Ranran, TIAN Huiying, GAO Mengting

54: OPTIMIZATION OF ULTRASONIC-ASSISTED EXTRACTION PROCESS OF SOLIDAGO DECURRENS LOUR BY RESPONSE SURFACE METHODOLOGY

00: -

The response surface method of the invention optimizes the ultrasonic-assisted extraction process of Solidago decurrens Lour, which comprises the following steps: step 1, Solidago decurrens Lour powder is heated and refluxed twice by 80 percent ethanol, degreased, decolorized, oligosaccharide and micromolecule impurities are removed, and

finally the solvent is volatilized to obtain a treated sample; On the basis of single factor experiment, Box-Behnken Design (BBD) central composite design was used, and the PPs extraction yield Y(percent) was taken as the response value to investigate the influence of three independent variables on the extraction yield. The invention takes Solidago decurrens Lour as raw material, and adopts ultrasonic extraction method to extract Solidago decurrens Lour polysaccharide. On the basis of single factor experiment, the ultrasonic extraction conditions of Solidago decurrens Lour were optimized by response surface methodology, so as to determine the best extraction conditions of Solidago decurrens Lour.



21: 2022/05574. 22: 2022/05/20. 43: 2022/08/26
51: C07F; C09K

71: Hengyang Normal University

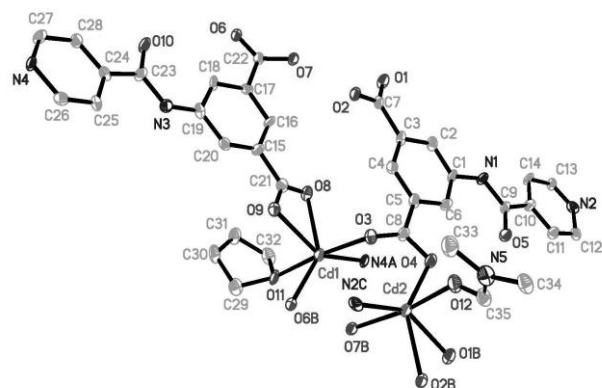
72: CHEN Mansheng, ZHANG Chunhua, DENG Yifang, SHENG Liangbing, SUN Junbin, LU Weihong

54: PREPARATION METHOD AND APPLICATION OF THE CADMIUM COMPLEX WITH 5-ISONICOTINAMIDE PYRIDYL ISOTITANIC ACID

00: -

The invention discloses cadmium complex with 5-isonicotinamide pyridyl isotitanic acid and a preparation method and application thereof, belonging to the technical field of porous layered materials. The porous complex has a two-dimensional double-layer net-structure, and the chemical expression is $[Cd_2(L)_2DMFTHF] \cdot 2DMF \cdot THF$; where L is 5-isonicotinamide pyridyl isotitanic ion; the preparation method comprises the following steps: performing solvothermal reaction on 5-isonicotinamide pyridyl isotitanic acid and cadmium salt, washing and drying to obtain a novel porous cadmium complex with stable structure. The preparation method has simple

process, convenient operation and high yield; the prepared complexes of 5-isonicotinamide pyridyl isotitanic acid and cadmium can selectively catalyze Knoevenagel condensation reaction between p-tolualdehyde and malononitrile. The catalyst has the characteristics of good selectivity and high catalytic activity, and can be used as a fluorescent probe for dichromate ions and permanganate ions.



21: 2022/05575. 22: 2022/05/20. 43: 2022/08/26
51: G06F; G09B

71: Anhui Polytechnic University

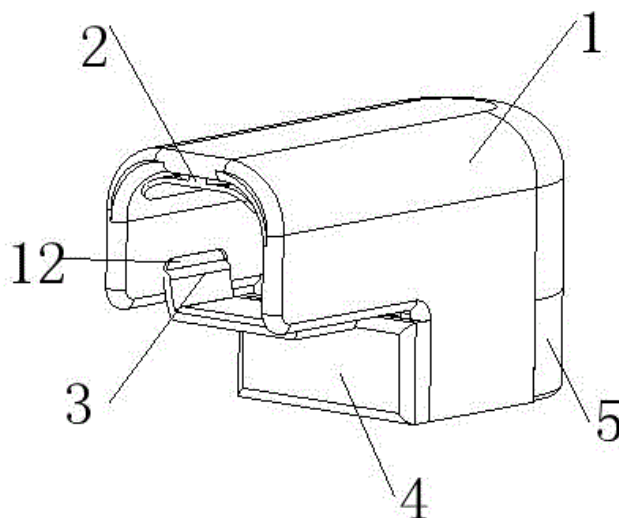
72: ZHANG Zhen, WANG Anheng, FANG Ming, CHEN Yu, XU Manman, ZHENG Yanchang, LIU Yongming, ZHAO Zhuangzhe

54: FINGERTIP WEARABLE DUAL-CHANNEL INTERACTIVE DEVICE

00: -

The invention relates to the field of intelligent equipment for blind people, in particular to a fingertip wearable dual-channel interactive device, which comprises a shell used for supporting parts, a side cover plate, a movable finger belt matched with the shell to facilitate the user to put his finger in; The camera information processing module is connected with the side cover plate and used for capturing and identifying information and feeding back information to the superior; The left and right vibration units are arranged at the two sides of the shell and used for vibration prompting when the device is about to collide; The sensing mechanism is connected with the inner wall of the shell and used for transmitting the signal processed by the camera information processing module, driving the Braille contact and displaying Braille; The height adjusting mechanism, which is matched with the sensing mechanism, is

used to adjust the distance between the sensing mechanism and the fingertip, so as to realize the fine adjustment of the upper and lower heights. Through the highly integrated camera information processing module and the sensing mechanism, the device is lighter in weight, smaller in size and simpler in appearance.



21: 2022/05576. 22: 2022/05/20. 43: 2022/08/26
51: A61K

71: China Tobacco Guangxi Industrial Co., Ltd., Guangxi University, Guangdong Golden Leaf Technology Development Co., Ltd.

72: WEI, Jianyu, LI, Xiaofeng, ZHANG, Jili, WANG, Jun, HUANG, Chongjun, ZHOU, Zhaofeng, CHENG, Yi, HUANG, Hui, ZHAO, Chuang, WANG, Lei, ZHANG, Xuewei, GUAN, Chuanli, ZHENG, Ronghao, JI, Hao, YANG, Xin, CHEN, Zepeng

54: EMULSIFIED SQUALENE DISPERSION AND PREPARATION METHOD THEREOF, AND TOBACCO COATING LIQUID

00: -

The present invention provides an emulsified squalene dispersion and a preparation method thereof, and a tobacco coating liquid. The emulsified squalene dispersion of the present invention is obtained by mixing and combining an oil-phase substance with an aqueous-phase substance, and squalene emulsified with an emulsifier can be uniformly dispersed in water. Moreover, the emulsified squalene dispersion is stable, and is uniform without delamination for a long time. In addition, a uniformly dispersed tobacco coating liquid can be obtained by applying the emulsified squalene dispersion to the preparation of a tobacco

coating liquid, and the tobacco coating liquid has a good coating effect.

21: 2022/05577. 22: 2022/05/20. 43: 2022/08/26
51: C05G

71: China Tobacco Guangxi Industrial Co.,Ltd.,
Guangxi University

72: WEI, Jianyu, LI, Xiaofeng, LIANG, Yongjin,
HUANG, Chongjun, SHI, Baofeng, LING, Guizhi,
CAI, Xiaoqin, SHOU, Anfa, ZHANG, Jili, SHEN,
Fangke, CHENG, Yi, HUANG, Hui, HE, Yuanlan

54: DEDICATED ORGANIC FERTILIZER FOR TOBACCO

00: -

The present invention provides a dedicated organic fertilizer for tobacco, and falls within the technical field of organic fertilizers. The dedicated organic fertilizer for tobacco of the present invention uses agaric fungus residue rich in organic matter and low in nitrogen and chlorine content as a main raw material, cooperating with bran meals of quick-acting, efficient and high-quality decomposition, such as peanut bran, etc., and other raw materials to prepare the dedicated organic fertilizer for tobacco, which may effectively utilize the waste agaric fungus residue of cultivation of agaric fungus, so that the organic fertilizer obtained has a reasonable nutrient composition, and has a fast and short-acting fertilizer effect, which may meet the unique nutritional needs of tobacco growth and realize the increase in yield and quality of flue-cured tobacco.

21: 2022/05578. 22: 2022/05/20. 43: 2022/08/26
51: A61K

71: China Tobacco Guangxi Industrial Co.,Ltd.,
Guangxi University

72: WEI, Jianyu, LI, Xiaofeng, JIN, Yabo, ZHANG,
Jili, ZHOU, Zhaofeng, SUN, Jiansheng, HUANG,
Chongjun, QIN, Shangzhong, LIANG, Yongjin, JIA,
Haijiang, CHENG, Yi, HUANG, Hui, LI, Zhi, ZHAO,
Dongjie

54: MULTIVESICULAR LIPOSOME CONTAINING A SQUALENE AND ASTAXANTHIN COMPOSITION, AND PREPARATION METHOD AND USE THEREOF IN THE REDUCTION OF FREE RADICAL AND HARM

00: -

The present invention provides a multivesicular liposome containing a squalene and astaxanthin composition, a preparation method and use thereof in the reduction of free radicals and harm. According

to the present invention, the stability of a mixed squalene and astaxanthin synergistic composition is improved by microencapsulation of the mixed squalene and astaxanthin synergistic composition.

21: 2022/05579. 22: 2022/05/20. 43: 2022/08/26
51: G01N

71: Bozhou University

72: LU Ning, ZHANG Huimin, PU Shunchang,
ZHANG Yu

54: A RAPID DETECTION METHOD FOR BROAD-SPECTRUM IDENTIFICATION OF ARISTOLOCHIC ACID AND ITS APPLICATION

00: -

The invention discloses a rapid detection method and application for broad-spectrum identification of aristolochic acid, and relates to the technical field of aristolochic acid detection. The method comprises the following steps: step 1, carrying out dispersed solid phase extraction on a sample to be detected by using an extraction solvent, and dehydrating the extracted extraction solvent; step 2, detecting the dehydrated extract by liquid chromatography-tandem mass spectrometry. Through the selection of extraction solvent and solid adsorbent and the optimization of operation conditions, the invention greatly saves the pretreatment time, improves the purification efficiency, recovery rate and sensitivity, greatly improves the overall detection efficiency, and solves the problems of long pretreatment time and low detection accuracy in the existing trace aristolochic acid detection. The detection method provided by the invention has the characteristics of simplicity, rapidness, high sensitivity, high precision and accuracy, strong applicability, less organic solvent consumption, environmental friendliness, low detection limit and quantitative limit, and strong reproducibility.

21: 2022/05580. 22: 2022/05/20. 43: 2022/08/26
51: A01G

71: Citrus Research Institute of Zhejiang Province

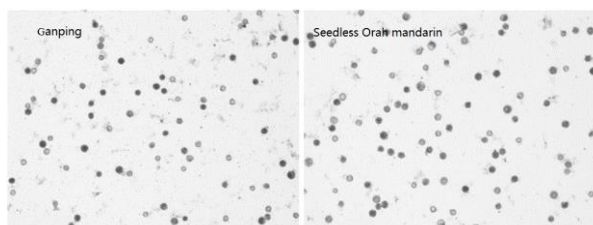
72: KE Fuzhi, HUANG Xiu, SUN Lifang, NIE
Zhenpeng, XU Jianguo, SUN Jianhua

54: METHOD FOR IMPROVING FRUIT SETTING RATE OF HYBRID FRUIT OF HYBRID CITRUS VARIETY HONGMEIREN

00: -

The invention provides a method for improving the fruit setting rate of hybrid fruit of hybrid citrus variety

Hongmeiren, belonging to the technical field of hybrid breeding. According to the invention, hybrid breeding is carried out by using a hybrid citrus variety Hongmeiren as a female parent, and 50mg/kg gibberellin is sprayed within 1-2 hours after pollination for fruit preservation. This method can significantly improve the fruit setting rate of hybrid fruit by 94.07 percent, thus improving the cross-breeding efficiency, saving the cost and labor, and providing a reference for solving the problem of low fruit setting rate of hybrid fruit in the traditional cross breeding process of citrus.



21: 2022/05581. 22: 2022/05/20. 43: 2022/08/26
51: C12M

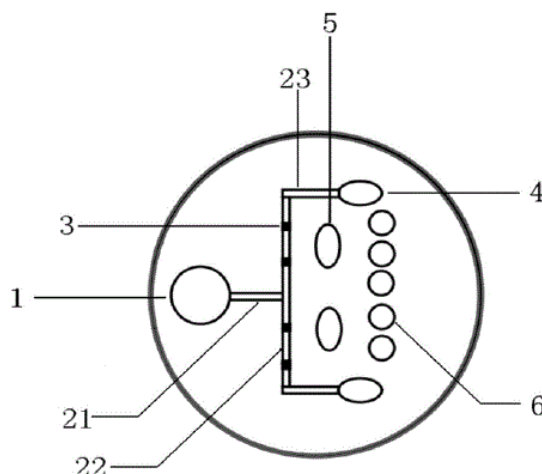
71: Zhejiang University

72: Yamei Xue, Kun Li, Songying Zhang

54: A SPERM SELECTION DEVICE FOR INTRACITOPLASMIC SPERM INJECTION AND METHOD

00: -

The invention discloses a device for intracytoplasmic sperm injection and methods for selecting high-quality sperm. The device includes a sample pool, selection channels, a collection zone, a zone for sperm immobilization, and a microinjection zone. The second channel contains a plurality of induction chambers. The third channel is designed to have an inclined surface. The invention also discloses methods for selecting sperm by combing Annexin V selection and inducer selection. The invention provides an easy-to-use, efficient, and fast approach to prepare high-quality sperm for intracytoplasmic sperm injection in a simple, directly accessible form.



21: 2022/05585. 22: 2022/05/20. 43: 2022/08/26
51: A01N; A01P

71: HUAIYIN INSTITUTE OF AGRICULTURAL SCIENCES OF THE XUHUAI DISTRICT OF JIANGSU PROVINCE, HUAIYIN NORMAL UNIVERSITY

72: GU, Dalu, WANG, Weizhong, QIAN, Xinmin, SUN, Aixia, YANG, Wenfei, DU, Xiaofeng, WEN, Tinggang, JIA, Yanyan, WU, Xuefen, YANG, Wei, XU, Yonggang

33: CN 31: 202010557908.8 32: 2020-06-18

54: RICE SEED DRESSING AGENT, AND PREPARATION METHOD THEREFOR AND USE THEREOF

00: -

Provided are a rice seed dressing agent, and a preparation method therefor and the use thereof. The rice seed dressing agent comprises the following components, in parts by mass: 1-4 parts of dimethyl sulfoxide, 1-4 parts of zinc sulfate, 0.01-0.04 part of thidiazuron, 5-8 parts of betaine, 0.5-2 parts of a microbicide and 31.96-42.49 parts of attapulgit. By means of compounding the thidiazuron, dimethyl sulfoxide, zinc sulfate, betaine and microbicide for use, the rice seed dressing agent can not only activate the activity of active substances and enzymes in rice, resist the effects of adversity and enhance the frost resistance of seedlings, but can also improve germination potential, promote root development, improve root activity, improve the disease prevention and disease resistance of the seedlings, and promote the robust growth of the seedlings.

21: 2022/05620. 22: 2022/05/23. 43: 2022/08/25

51: F16F; H02G

71: Inner Mongolia Bingyu Power Equipment Co., Ltd.

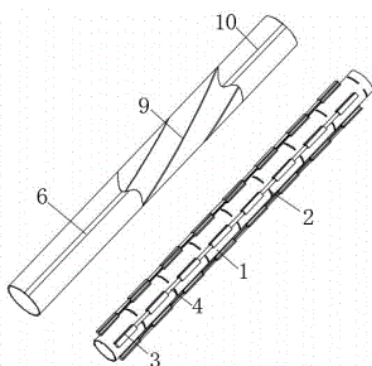
72: WANG, Liping, LV, Yanbing, LI, Weidong, HAN, Tao, BAI, Lijun

33: CN 31: 202110711755.2 32: 2021-06-25

54: ANTI-BENDING CABLE TUBE

00: -

The present invention provides an anti-bending cable tube, including: an inner tube and four groups of connecting blocks. Four groups of deformed grooves are provided circumferentially on an outer wall of the inner tube at equal intervals. A plurality of groups of deformed grooves among the four groups of deformed grooves are arrayed in an axial direction of the inner tube. The connecting blocks are distributed circumferentially on the outer wall of the inner tube at equal intervals and are provided on a central line of the two circumferentially adjacent groups of deformed grooves. The connecting blocks are elastic blocks. By means of four groups of deformed grooves provided at equal intervals, an inner tube extrudes the deformed grooves to bend when being bent transversely and longitudinally. Connecting blocks may enhance connecting strength between the inner tube and an outer tube.



21: 2022/05621. 22: 2022/05/23. 43: 2022/08/25

51: G02B

71: Zhengzhou University of Aeronautics

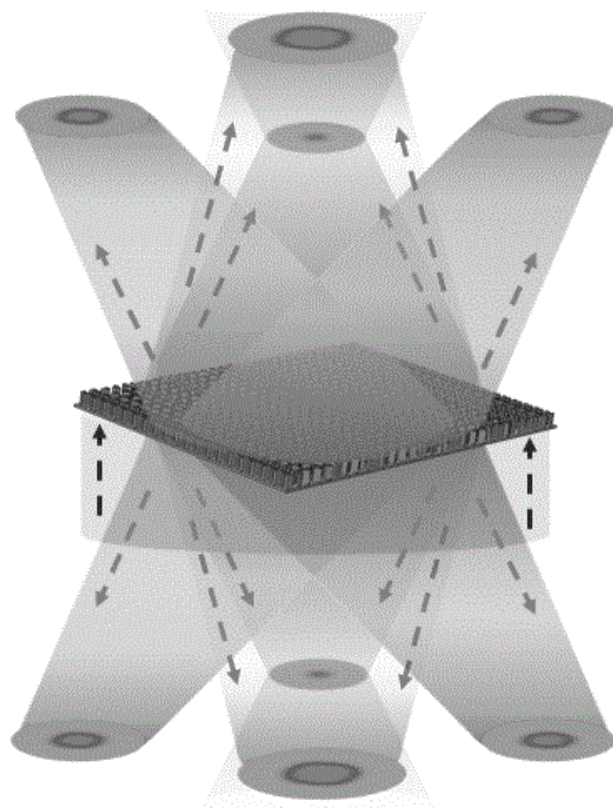
72: Tian Ximin, Xu Junwei, Zheng Chunrui, Ding Pei, Yang Peng, Duan Xiangyang, Ma Xiaolong

54: TRANSMISSION-REFLECTION MODE SWITCHABLE SPIN-DECOUPLED METALENSES BASED ON GE₂SE₂SE₄TE₁

00: -

This invention provides transmission-reflection mode switchable spin-decoupled metalenses that comprise

CaF₂ substrate layer and metasurface layer that is made of phase change material Ge₂Sb₂Se₄Te₁ for geometric phase modulation, the metasurface layer is formed by two Ge₂Sb₂Se₄Te₁ rectangular nano-antenna pairs with different sizes that are arranged in a rectangular nano-pillar array with a period p along the x-y plane with different rotation angles, the metalens of this invention can realize transmission-reflection mode switchable spin-decoupled focusing performance, moreover, it can realize the dual-wavelength focusing performance of "ON" and "OFF" can be switched dynamically, which is more practical at the designed working wavelengths λ_0 (4400nm) and λ_5 (6250nm) by regulating and controlling the phase state of the phase change material Ge₂Sb₂Se₄Te₁.



21: 2022/05622. 22: 2022/05/23. 43: 2022/08/25

51: A61K

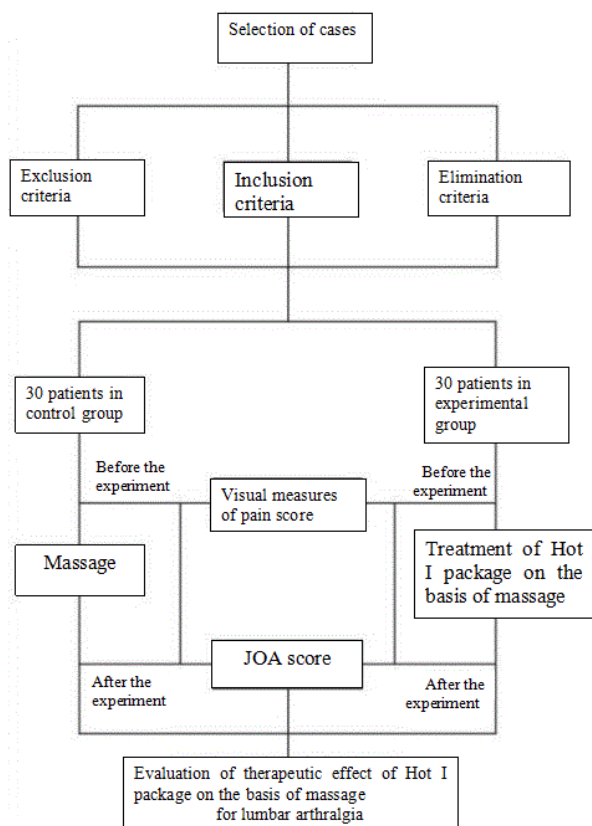
71: Hainan Medical University, The First Affiliated Hospital, Hainan Medical University

72: LIU Hongbo, JING Chunying, HAN Ping, LIAO Xingfu

54: A CHINESE TRADITIONAL MEDICINE COMPOSITION FOR TREATING LUMBAR DISC HERNIATION

00: -

The application discloses a traditional chinese medicine composition for treating lumbar disc herniation; the composition of hot I package: 20g of *Eucommia ulmoides*, 20g of *morinda officinalis*, 30g of beautiful *milletia roots*, 20g of *rhizoma cibotii*, 30g of *flemingia philippinensis*, 30g of *caulis spatholobi*, 20g of *Adhatoda ventricosa*, 20g of *cortex acanthopanacis*, 20g of *rhizoma corydalis*, 30g of *herba speranskiae tuberculatae* and 30 g of common clubmoss herb, grinding the above materials into powder, packaging into a cotton cloth bag, heating with high fire in microwave oven for 3-4 min to 70°C, or steaming in steamer for 20 min, and then wrapping with towel. In the research process, based on the clinical efficacy and the purpose of preventive treatment for disease, the theoretical guidance of traditional Chinese medicine is underlined and the relationship between the therapeutic principle-drug pair-syndrome-disease is emphasized. In addition, the traditional Chinese medicine theory that the principle of internal treatment is the method of external treatment is followed, and the characteristics of traditional Chinese medicine is highlighted.



21: 2022/05623. 22: 2022/05/23. 43: 2022/08/25

51: A01G

71: Qinghai university, Qinghai Shuiqingyuan Agricultural Technology Co., Ltd.

72: LIU, Ying

54: METHOD FOR FACILITATING IMPROVEMENT OF CARBON SINK FUNCTION OF "BLACK-SOIL BEACH" TYPE ARTIFICIAL GRASSLAND

00: -

A method for facilitating improvement of carbon sink function of black-soil beach type artificial grassland, including: S1, rodent control; S2, rest grazing at reviving stage; S3, increasing soil fertility; S4, moderate grazing in winter. The method of the present invention can significantly improve utilization of grassland resources and increase per capita income of local herdsmen.

21: 2022/05624. 22: 2022/05/23. 43: 2022/08/25

51: G01B

71: Qinghai university, Qinghai Shuiqingyuan Agricultural Technology Co., Ltd.

72: LIU, Ying

54: METHOD FOR MEASURING PLANT BLADE AREA

00: -

A method suitable for field measurement of plant blade area is provided. In this present invention, a blade to be measured is placed on a standard scale paper for scanning to measure and calculate an area of the blade to be measured by a Dizimizer image processing software in a pixel calculation mode. The present invention can achieve rapid acquisition of leaf area images of long and thin blades of a plant in the field and is suitable for field operation. The present invention has a simple operation process and a comparatively accurate measurement result obtained and thus, provides a convenient and accurate measurement and calculation method for the measurement of plant blade area in the field.

21: 2022/05625. 22: 2022/05/23. 43: 2022/08/25
51: E21B

71: Beijing University of Technology, Beijing
Municipal Road and Bridge Co., Ltd.

72: LI Xiaoshuai, GAO Wenxue, GUO Mingyang, SU
Liping, GE Chenyu, ZHANG Xiaojun, HU Yu

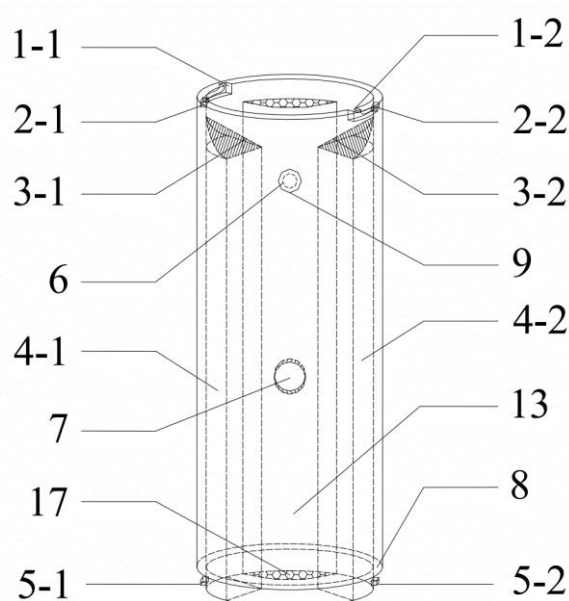
33: CN 31: 202110588726.1 32: 2021-05-28

**54: ASSEMBLY-TYPE SHAPED CHARGE
HYDRAULIC BLASTING DEVICE AND
APPLICATION METHOD THEREOF**

00: -

An assembly-type shaped charge hydraulic blasting device and its application method, belonging to the technical field of blasting. The charging pipe is a double-layer tube, the inner layer is a hollow cylinder, and an energy absorbing layer and an concentrated energy groove are arranged along the axial direction, and the top of the concentrated energy groove is provided with a triangular pointed cone; the outer layer is a closed cavity, and the outer layer pipe wall is provided with a water inlet hole and a hole plug; the middle part of the charging pipe is provided with a detonator hole, the inner side of the tube mouth is provided with a chute and a clamping groove, and the outer side of the tube bottom is provided with a buckle. The water sealing pipe is a hollow cylinder closed pipe, with a concave section at the upper part and a convex section at the lower part. The pipe mouth is provided with a chute and a clamping groove, the bottom of the pipe is provided with a buckle, and the wall of the pipe is provided with a water inlet hole and a hole plug. When assembling, screw the buckle into the clamping groove, and the docking between the charging

section and the water sealing section can be completed. The invention can improve the effects of presplitting and smooth blasting, is beneficial to reducing the number of drilling holes and explosive consumption, and effectively reduces the amount of dust produced by blasting. The energy-absorbing layer can effectively reduce the damage of explosion energy to surrounding rock, and can improve the problem of overbreak and increase the half hole rate.



21: 2022/05626. 22: 2022/05/23. 43: 2022/08/25
51: F16M

71: Anhui Medical College

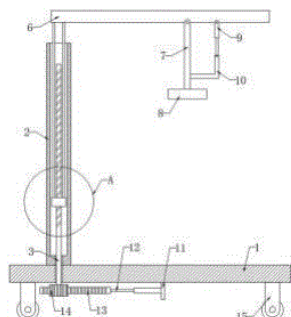
72: FANG, Peifei, YU, Furong, JI, Yan, MA, Rujun,
FANG, Yonghong, ZHANG, Min, SONG, Xianbing

**54: MULTI-ANGLE ANATOMICAL IMAGE
ACQUISITION DEVICE FOR LABORATORY**

00: -

Disclosed is a multi-angle anatomical image acquisition device for laboratory, including a base, wherein a fixed cylinder is fixed at an upper end of the base, a lead screw is rotationally connected at an inner bottom of the fixed cylinder, a sliding block is in threaded connection at a side wall of the lead screw, a transverse plate is fixed at an upper end of the sliding block through a fixed rod, a rotating rod is rotationally connected at a lower end of the transverse plate, a camera is fixed at a lower end of the rotating rod, and a first driving mechanism is arranged on the transverse plate. The lead screw

rotates to enable the sliding block to slide up and down on the side wall of the lead screw, and a photographing height of the camera is adjusted. The operation is easy and the practicability is high.



21: 2022/05627. 22: 2022/05/23. 43: 2022/08/25
51: G06F

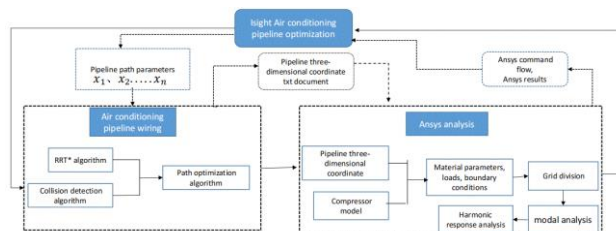
71: South China University of Technology

72: Zhou Chi, Peng Zengwen

54: A SIMULATION AND OPTIMIZATION METHOD FOR AIR-CONDITIONING PIPELINE SYSTEM

00: -

This invention provides simulation and optimization method for air-conditioning pipeline system that comprises the following steps: According to the starting point and end point of the air-conditioning pipeline system, the RRT* algorithm is adopted to generate the pipeline path in the space feasible domain, and the space three-dimensional coordinates of the pipeline path are obtained; building an air-conditioning pipeline model, which is used to obtain the deformation diagram and stress diagram of the air-conditioning pipeline system; Getting the deformation diagram and stress diagram, and optimizing through Isight to get the optimal air-conditioning path; the whole simulation and optimization process of the invention is a process of repeated execution after Isight integration, which saves frequent and complicated preprocessing, solves operations in the finite element simulation process, and frees engineers from repeated modeling work.



21: 2022/05628. 22: 2022/05/23. 43: 2022/08/25

51: A61K; C12Q

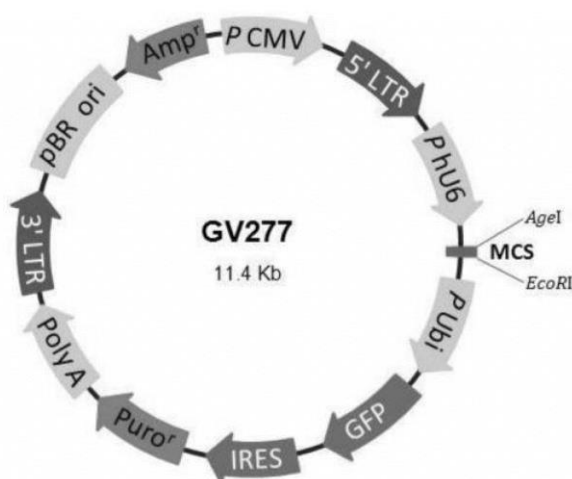
71: Changzhou No.2 People's Hospital, Affiliated to Nanjing Medical University

72: ZHANG Lifeng, MI Yuanyuan, ZUO Li, ZHANG Li, GAO Shenglin, LU Chao, SHI Xiaokai

54: USE OF NUPR1 INHIBITOR IN PREPARATION OF DRUGS FOR TREATING BLADDER CANCER

00: -

The invention provides an application of NUPR1 inhibitor in the preparation of bladder cancer treatment drugs, belonging to the field of biomedical research. According to the present invention, by studying the expression level of NUPR1 in muscle invasive bladder cancer, it is found that it is closely related to the growth, proliferation, differentiation and metastasis of muscle invasive bladder cancer tumor cells. The silent expression of NUPR1 gene can significantly inhibit the growth of myometrial invasive bladder cancer cells. According to the invention, a specific shRNA sequence is obtained through sequence design and a large number of experiments, and the expression of NUPR1 is reduced by 95 percent -99 percent after lentivirus packaging.



21: 2022/05629. 22: 2022/05/23. 43: 2022/08/25

51: A23L

71: Yancheng Teachers University

72: Yu Fan, Geng Rongqing, Shi Xiaojing

54: METHOD FOR PREPARING LONG CIRCULATION LIPOSOME PREPARATION BY REPLACING CHOLESTEROL WITH STEROL

00: -

This invention provides a method for preparing long circulation liposome preparation by replacing cholesterol with sterol, which can modify small molecule beta-sitosterol with polyethylene glycol, avoid the modification of large molecular weight phospholipids, simplify the synthesis process; and the invention also makes the separation much easier, and greatly improves the yield. Furthermore, compared with that of common phospholipid polyethylene glycol modified long circulation liposomes, the cost of this invention is lower which makes wide industrial application feasible.

21: 2022/05630. 22: 2022/05/23. 43: 2022/08/25

51: B60K

71: Zhengzhou Railway Vocational & Technical College

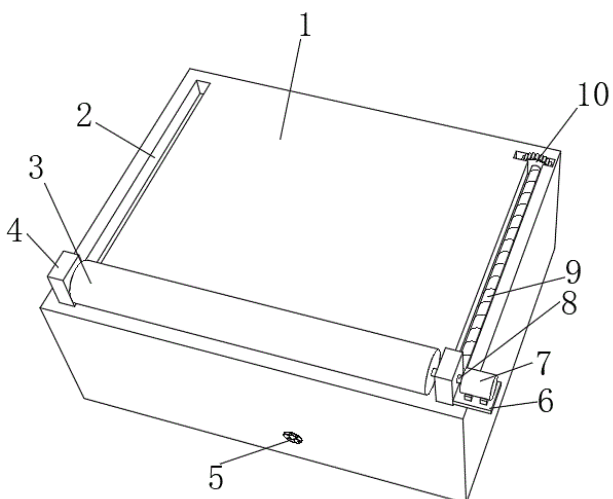
72: Jin Bingying, Li Yong, Liu Xianfang, Zhang Meng, Wang Xin, Cui Ni, Zhang Yongge, Zhang Haiying, Sun Yang, Zhang Ruihua, Zhang Ying, Nie Tianxia

54: ELECTRIC VEHICLE MOTOR CONTROLLER BASED ON INTERNET

00: -

The invention relates to the field of motor controllers, and discloses an Internet-based controller for an electric vehicle motor, which comprises a shell, wherein the left side and the right side of the top end of the shell are provided with sliding chutes; the interiors of the sliding chutes are connected with sliding blocks in a sliding manner; the bottom side of the right end of each sliding block on the right side is fixedly connected with a base; and the top end of each base is fixedly connected with a first motor, the output end of the first motor is fixedly connected with a rotating shaft. In the invention, the right end of a right-side sliding block is fixedly connected with a base, a first motor is fixed above the base, an output shaft of the first motor is fixedly connected with a rotating shaft, the left end of the rotating shaft penetrates through the right-side sliding block and is rotatably connected to the right end of a left-side sliding block, a roller brush is fixedly connected outside the rotating shaft, the second motor rotates

to drive the roller brush to move back and forth at the top end of the shell, and then the first motor drives the roller brush to rotate, so as to realize the function of cleaning dust at the top end of the shell.



21: 2022/05631. 22: 2022/05/23. 43: 2022/08/25

51: A01D

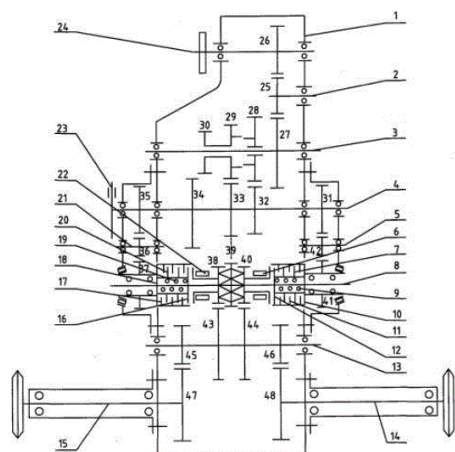
71: Jinhua Polytechnic

72: WANG, Jinshuang, XIONG, Yongsen, HU, Huadong, XIE, Xiaobing, WANG, Zhiming, LI, Hongyang, JIN, Rendiao

54: GEARBOX FOR TRAVELING AND IN-SITU STEERING

00: -

Disclosed is a gearbox for traveling and in-situ steering. The gearbox includes a shifting mechanism, a steering mechanism and a reducing mechanism in a gearbox body, the shifting mechanism drives the steering mechanism, the steering mechanism realizes traveling of a combine harvester by means of the reducing mechanism, the steering mechanism includes a steering shaft, and a central transmission gear with teeth embedded on two sides is arranged on the steering shaft. The present invention can realize in-situ steering of the combine harvester, and can further realize conventional steering of the combine harvester, so as to improve maneuverability of the combine harvester and reduce an idle stroke and energy consumption of the combine harvester. Moreover, damage to soil is prevented.



21: 2022/05632. 22: 2022/05/23. 43: 2022/08/25

51: C12Q

71: Rice Research Institute, Guangdong Academy of Agricultural Sciences

72: Ma Xiaozhi, Zhu Manshan, Fu Chongyun, Wang Feng, Liu Wuge, Liu Dilin, Liao Yilong, Li Jinhua, Zeng Xueqin, Huo Xing

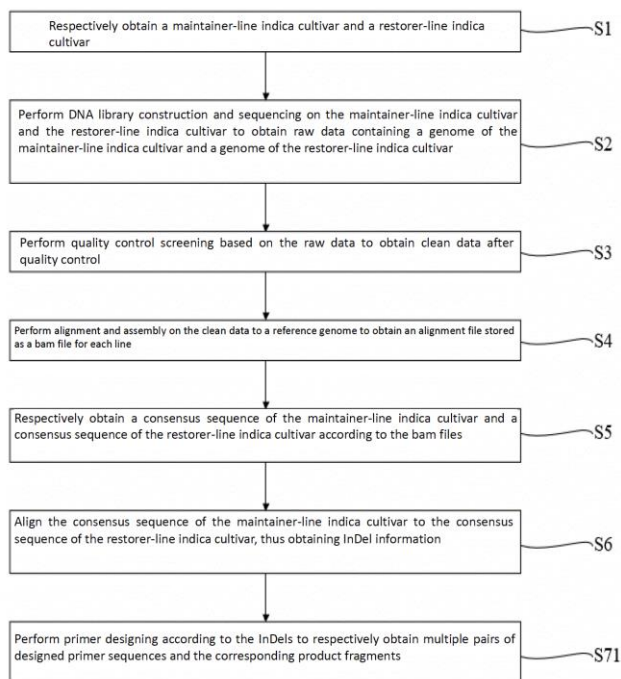
33: CN 31: 202210041402.0 32: 2022-01-13

54: POLYMORPHIC MOLECULAR MARKER BASED ON WHOLE GENOME SEQUENCING, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present application relates to the technical field of bioinformation, and in particular to a polymorphic molecular marker based on whole genome sequencing, a preparation method and an application thereof. The molecular marker includes 81 primer pairs; the primer pairs have sequences as shown in SEQ ID NO.1 to SEQ ID NO.162; the method includes the following steps: performing DNA database construction and sequencing on genomes of Wufeng B and Guanghui 308 to obtain primary data; performing quality control screening to obtain effective data; performing alignment and assembly on the effective data to a reference genome to obtain a reference file; obtaining consensus sequences of the Wufeng B and the Guanghui 308; aligning the consensus sequences to obtain loci InDel; obtaining a design primer sequence according to the loci InDel; performing retrieval and alignment on the design primer sequence in the genomes to obtain a marked primer; performing PCR amplification and electrophoresis detection to obtain an electrophoresis result diagram; judging whether the marked primer is the

polymorphic molecular marker according to the electrophoresis result diagram; the application includes: use of the molecular marker in genetic map construction, QTL location, molecular mark assisted breeding and genetic diversity analysis of rice.



21: 2022/05633. 22: 2022/05/23. 43: 2022/09/09

51: A61B

71: Dr. Samriti Mahajan, Prof. (Dr.) Jaskiran Kaur, Dr. Aarti Saini, Dr. Shikha Agarwal, Dr. Narinder Kumar, Sumedha Agarwal, Rohan Bhalla, Priya Diwan, Mahima Mishr, Dr. Kiran Nair, Dr. Vikas Garg, Prof. Ramesh Chandra Panda

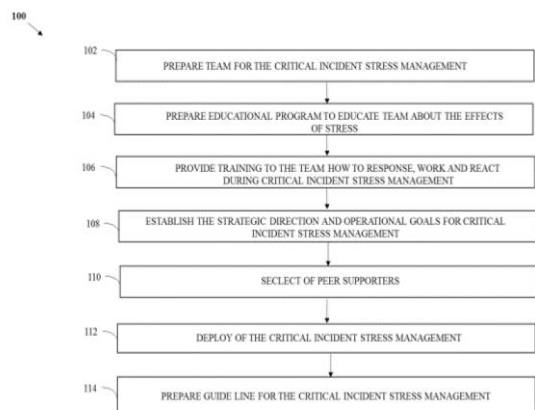
72: Dr. Samriti Mahajan, Prof. (Dr.) Jaskiran Kaur, Dr. Aarti Saini, Dr. Shikha Agarwal, Dr. Narinder Kumar, Sumedha Agarwal, Rohan Bhalla, Priya Diwan, Mahima Mishr, Dr. Kiran Nair, Dr. Vikas Garg, Prof. Ramesh Chandra Panda

54: A METHOD FOR CRITICAL INCIDENT STRESS MANAGEMENT

00: -

The present invention relates to a method (100) for critical incident stress management. The method (100) includes steps of prepare (102) team for the critical incident stress management; prepare (104) an educational program to educate the team about the effects of stress; provide (106) training to the team how to respond, work, and react during critical incident stress management; establish (108) the strategic direction and operational goals for critical

incident stress management; select of peer supporters; deploy (110) of the critical incident stress management; prepare (112) a guideline for the critical incident stress management. The present invention provides a method (100) for critical incident stress management that deals with pre-crisis, acute crisis, and post-crisis phases.



21: 2022/05634. 22: 2022/05/23. 43: 2022/08/25
 51: A23C
 71: Anhui Science And Technology University
 72: ZHENG, Haibo, ZHEN, Zongyuan, HU, Pengli, DU, Chuanlai, WU, Xiaowei
 33: CN 31: 202110756415.1 32: 2021-07-05
54: NON-FERMENTED SET-STYLE MILK WITH SWEET WINE FLAVOR AND ITS PRODUCTION METHOD

00: -
 The disclosure provides non-fermented set-style milk with a sweet wine flavor and its production method, and relates to the technical field of milk processing. The non-fermented setstyle milk with the sweet wine flavor is prepared from raw materials such as milk powder, drinking water, acidic fruits, sweet wine, white sugar, xylitol, gluconate-delta-lactone, milk lactone, sodium citrate and sodium carboxymethyl cellulose through the steps such as treatment of the acidic fruits, raw material mixing, initial setting treatment, bottling and steaming, and cooling and freshness retaining. The disclosure overcomes the defects in the prior art, the setstyle dairy product is prepared from multiple materials such as the sweet wine and the lactone without fermentation, and it is tender and smooth in surface, mellow and tasty, special in taste, convenient to process, balanced in nutrition and capable of meeting the requirements of market sales and production.

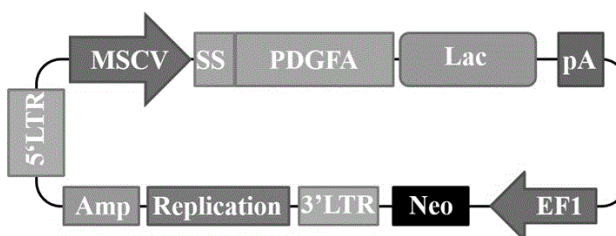


21: 2022/05635. 22: 2022/05/23. 43: 2022/08/25
 51: C12N

71: Shaanxi Normal University
 72: Xing Li, Zhuo Hua Zhao, Yuan Zhang, Jin He, Jia Qi Wang, Meng Yuan Gao

54: AN EXTRACELLULAR VESICLE THERAPEUTIC VECTOR TARGETING THE CENTRAL NERVOUS SYSTEM AND ITS PREPARATION METHOD AND APPLICATION

00: -
 The invention relates to the technical field of biopharmaceutical carrier preparation, in particular to an extracellular vesicle therapeutic vector targeting the central nervous system and its preparation method and application. LV-Lac-PDGFA fusion expression lentiviral vector is constructed to infect neural stem cells, and stable cell line NSC-LV-Lac-PDGFA is constructed, in order to locate the expressed exogenous ligand PDGFA on the surface of extracellular vesicle membrane, thereby improving the targeting ability of extracellular vesicle to oligodendrocyte lineage cells. The extracellular vesicle of PDGFA small peptide expressed on the membrane surface obtained by the invention has characteristic of high targeting, and can be used as a drug carrier, and has a good therapeutic effect on demyelinating diseases.



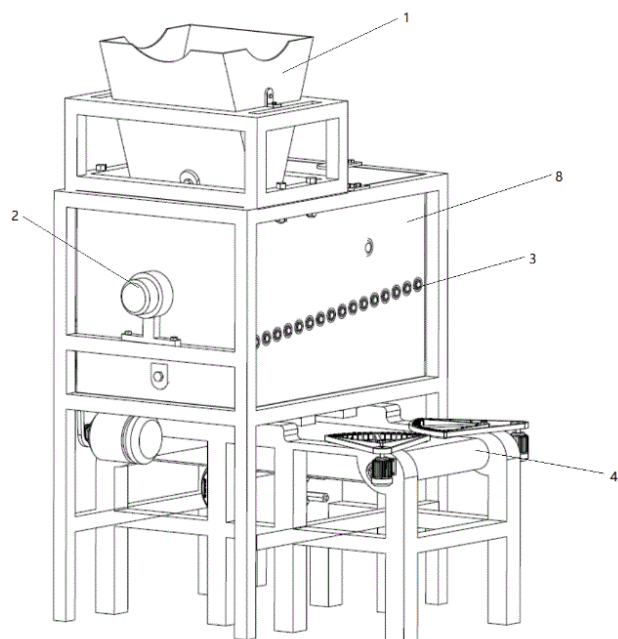
21: 2022/05636. 22: 2022/05/23. 43: 2022/08/25
 51: A23L; B07B

71: Shanghai Ocean University
 72: CHEN Chengming, HUA Chuanxiang, SHANGGUAN Chunxia, TENG Da, REN Xuejun, WEI Renjie, ZENG Ruiqi

54: SMALL-SIZED SEPARATING AND GUIDING DEVICE FOR COLOLABIS SAIRA

00: -

The invention discloses a small-sized separating and guiding device for Cololabis saira, comprising a box, a feeding device, a quantitative feeding device, a separating cylinder device and a guiding device; among them, the feeding device is used for fixing and feeding the whole device, and the quantitative feeding device quantitatively supplies a large number of Cololabis saira thrown from the upper feeding port; the separating cylinder device separates and preliminarily guides the quantified small group of Cololabis saira; the guiding device guides the separated Cololabis saira again, so that each Cololabis saira can keep a certain distance and enter the sorting mechanism in a regular manner, thus reducing the loss of fish due to irregular sorting. Compared with the prior art, the small-sized separating and guiding device for Cololabis saira provided by the invention can obviously reduce the dependence on manual operation and labor cost, and improve the production efficiency and automation level by automatically separating and guiding Cololabis saira.



21: 2022/05637. 22: 2022/05/23. 43: 2022/08/25

51: A23L

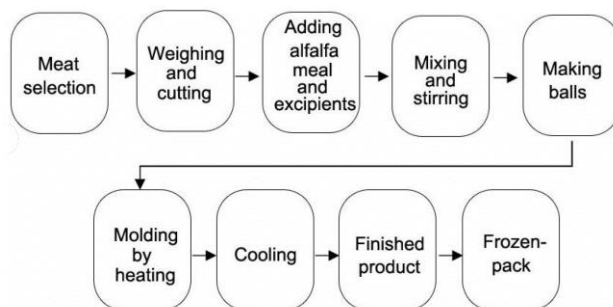
71: Henan Agricultural University

72: Cui Yalei, Shi Yinghua, Li Defeng, Xu Zhifeng, Zhu Xiaoyan, Wang Zhichang

54: PORK MEATBALL CONTAINING ALFALFA MEAL AND ITS PREPARATION METHOD

00: -

This invention provides pork meatball containing alfalfa meal and its preparation method, relating to the field of meatball, the formula of the raw materials comprises a main material and an auxiliary material, wherein the main material is pork, and based on the total mass of the main material, the auxiliary material comprises the following components in percentage by mass: 0.5% ~ 2% of alfalfa meal or 0.5% ~ 2% of extruded alfalfa meal, 15% of starch, 5% of soybean protein isolate, 2.3% of salt, 0.5% of chicken essence, 0.1% of five spice powder, 0.1% of zanthoxylum bungeanum maxim, 0.2% of black pepper powder, 2% of chopped scallion, 1% of chopped ginger, 10% of egg, 30% of water, 0.4% of meat flexible powder, 0.3% of fresh flavor powder, 0.6%-1% of sesame oil, 1.4%-1.8% of soy sauce and 1.4%-1.8% of edible soybean oil. According to the invention, the combination of alfalfa and pork meatballs is displayed in the form of alfalfa pork balls, 2it can not only ensure its original flavor as a meat product, but also obtain a more balanced nutritional structure. Moreover, alfalfa has the advantages of easy growth and low cost, if it is processed into powder and added into meat products, the consumption of meat products can be reduced, thus saving economic costs.



21: 2022/05638. 22: 2022/05/23. 43: 2022/08/25

51: G06T

71: SHENYANG UNIVERSITY OF TECHNOLOGY

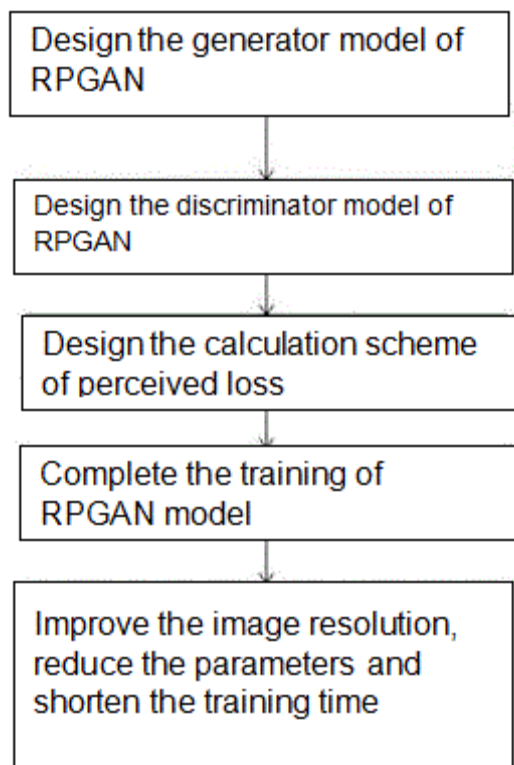
72: Zhong Ling, Meng Yanhong, Zhao Ransheng, Yan Chuting, Liu Xinyue, Wang Yuhang

54: RPGAN IMAGE SUPER-RESOLUTION RECONSTRUCTION METHOD BASED ON GENERATIVE ADVERSARIAL NETWORK

00: -

This invention provides RPGAN image super-resolution reconstruction method based on generative adversarial network, which comprises

1) design the generator model of RPGAN; 2) design the discriminator model of RPGAN; 3) design the calculation scheme of perceived loss; 4) complete the training of RPGAN model; 5) improve the image resolution, reduce the parameters and shorten the training time. The RPGAN model is proposed to improve the problems of insufficient details, huge parameters and high hardware requirements of reconstructed images. This model uses the generator based on recursive block, which makes better use of the shallow features in the network, improves the utilization rate of parameters, achieves better reconstruction effect with less parameters, and realizes the lightweight of the generator. The discriminator based on the idea of image block can distinguish large-size super-resolution images from real images more accurately, thus improving the learning efficiency of the whole model, and making the model converge faster.



21: 2022/05639. 22: 2022/05/23. 43: 2022/08/25
 51: A01G
 71: Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences
 72: TANG, Gangliang, ZHANG, Bo, LV, Changliang, ZHANG, Zhihao, ZENG, Fanjiang, GUI, Dongwei,

XUE, Jie, LV, Guoyin, WANG, Lei, MA, Tengfei, WANG, Fei, WANG, Jinxin

54: METHOD FOR GROWING MULBERRY WITH FIVE HARVESTS IN TWO YEARS IN INLAND ARID REGION OF XINJIANG

00: -

A method for growing mulberry with five harvests in two years in an arid inland region of Xinjiang. The first maturing period of mulberry fruits is from the middle ten days of March to the middle ten days of April; the second maturing period of mulberry fruits is from the middle ten days of June to the last ten days of July; the third maturing period of mulberry fruits is from the middle ten days of December to the last ten days of January of the next year; the fourth maturing period of mulberry fruits is from the middle ten days of April of the next year to the last ten days of May of the next year; and the fifth maturing period of mulberry fruits is from the middle ten days of October of the next year to the last ten days of November of the next year.

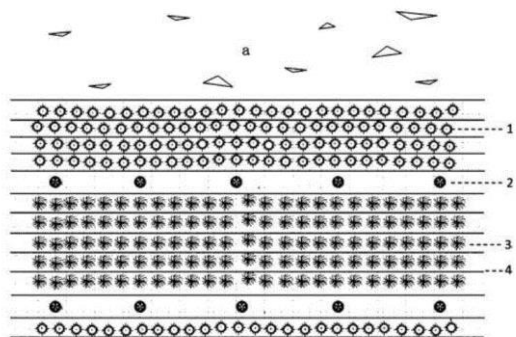
21: 2022/05640. 22: 2022/05/23. 43: 2022/08/25
 51: A01G

71: Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences
 72: ZHANG, Bo, TANG, Gangliang, LV, Changliang, ZHANG, Zhihao, ZENG, Fanjiang, GUI, Dongwei, WANG, Peng, LV, Guoyin, YU, Qiang, MA, Tengfei, WANG, Fei, WANG, Jinxin

54: METHOD FOR CONSTRUCTING WINDBREAK

00: -

The present disclosure provides a method for constructing a windbreak and belongs to the technical field of agricultural planting. The method comprises the steps of planting sorghum, mulberries and sorghum sequentially at the outermost periphery of a desert, wherein the mulberries are planted in adjacent two rows, and alfalfa is planted between every two rows of mulberries. In the present disclosure, the characteristics of barren resistance and rapid growth of the sorghum are used as a barrier to protect mulberry seedlings; nitrogen provided by an alfalfa biological nitrogen fixation effect can also be used for promoting the growth of the sorghum and the mulberries, promoting the yield increase of the sorghum and the mulberries and reducing influences on plants caused by nitrogen deficiency of soiling.



21: 2022/05653. 22: 2022/05/23. 43: 2022/08/25
51: B08B

71: SUZHOU ODIHUA ELECTRONIC CO., LTD.

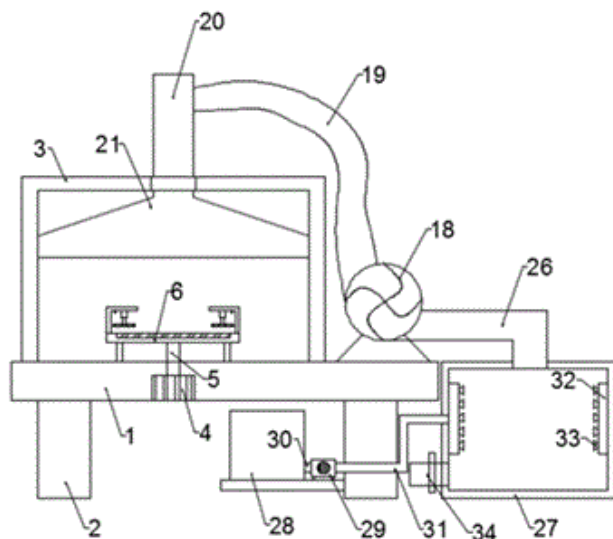
72: FEI, Cheng

33: CN 31: 202011108984.7 32: 2020-10-16

54: AUTOMATIC AIR EXHAUST AND DUST REMOVAL DEVICE FOR ELECTRONIC PRODUCTION

00: -

The present invention is applicable to the technical field of electronic production, and provides an automatic air exhaust and dust removal device for electronic production. The automatic air exhaust and dust removal device comprises an operating table, support legs fixed at bottom portions of the operating table, and a rotating mechanism mounted on an upper surface of the operating table. An auxiliary rotating mechanism is arranged at a bottom portion of the rotating mechanism and connected with the upper surface of the operating table, and a controllable positioning mechanism is installed on the rotating mechanism. A dust cover is installed outside the rotating mechanism, a dust removing and falling mechanism is arranged outside the dust cover, the dust removing and falling mechanism comprises a dust inlet pipe and a dust suction cover which are connected, the dust suction cover is installed on inner walls of the dust cover through an automatic lifting mechanism, and a dust removing mechanism is installed inside the dust inlet pipe. In the present invention, the dust removing and falling mechanism is arranged to remove dust and ensure quality of electronic products, and the dust removing mechanism is arranged to dredge dust, so that a good dust removing effect is guaranteed, and positions of electronic products can be adjusted.



21: 2022/05656. 22: 2022/05/23. 43: 2022/08/25
51: B25H

71: SUZHOU ANTWEIER AUTOMATION TECHNOLOGY CO., LTD.

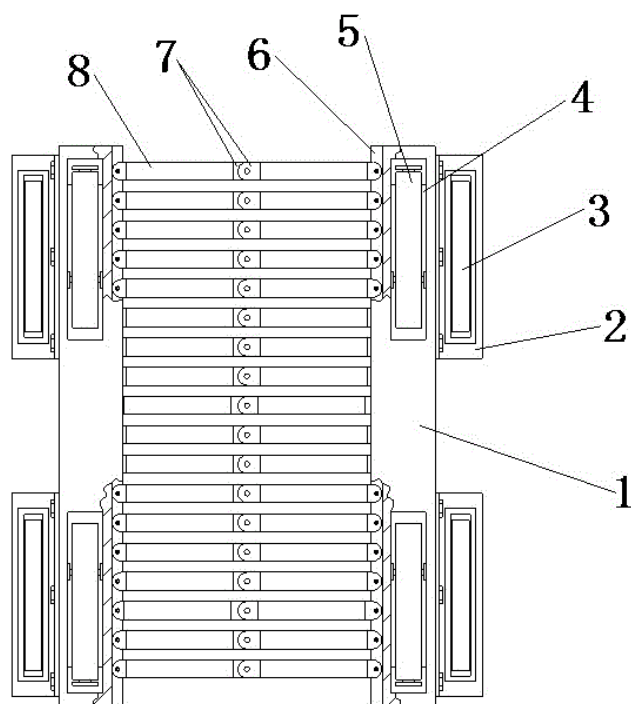
72: MA, Weiqing

33: CN 31: 201911148584.6 32: 2019-11-21

54: MECHANICAL MAINTENANCE AUTOMATION PLATFORM EASY TO CARRY AND TRANSPORT

00: -

The present invention discloses a mechanical maintenance automation platform easy to carry and transport, comprising side blocks, side frames, rollers, rectangular strip holes, jacks, strip grooves, backing plates, leather sleeves and connecting strip grooves. The present invention is ingenious and reasonable in design. The automatic platform forms an operation table capable of lying flat, and is moved to the bottom of a vehicle through the rollers, so that a maintenance personnel can lie down and look up to operate conveniently; by vertically placing the four jacks distributed in a matrix, the bottom of the vehicle can be lifted upwards, the field of view of the operation is enlarged, and the corresponding parts can be disassembled and replaced conveniently.



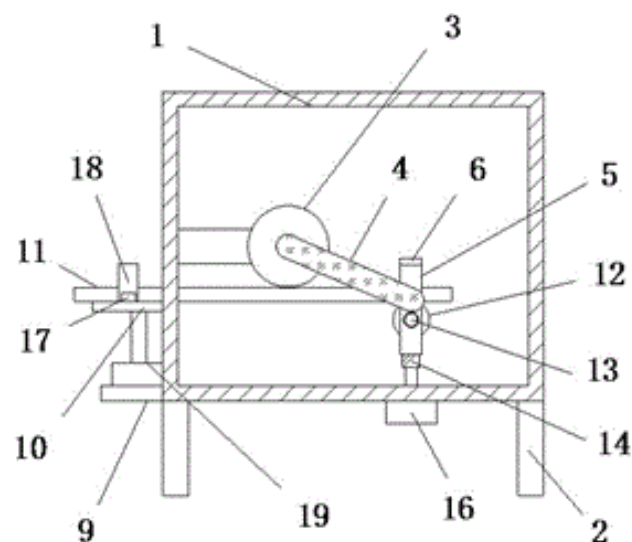
51: B21F

72: MA, Weiqing

**54: STEEL BAR BENDING AUTOMATIC DEVICE
HAVING HIGH WORKING EFFICIENCY**

Disclosed is a steel bar bending automatic device having high working efficiency, comprising a placement housing (1), supporting legs (2), a roller (3), connection plates (4), limiting plates (5), a fixed plate (6), first electric push rods (7), first clamping plates (8), a mounting plate (9), a placement plate (10), a steel bar body (11), a rotating roller (12), a fixed shaft (13), bearing plates (14), a rotating barrel (15), a second electric push rod (16), third electric push rods (17), second clamping plates (18), and a fourth electric push rod.(19). The steel bar bending automatic device having high working efficiency is simple in structure, novel in design, convenient to stably adjust a steel bar body, and convenient to stably clamp the steel bar body, guarantees that a steel bar is stably used during bending, improves the bending quality of the steel bar body, is convenient to operate, convenient to improve the quality of a bent steel bar body under the action of a provided bending mechanism, and convenient to evenly and

stably bend the steel bar body, improves the bending effect of the steel bar body, and is high in practical value and suitable to popularize and use.

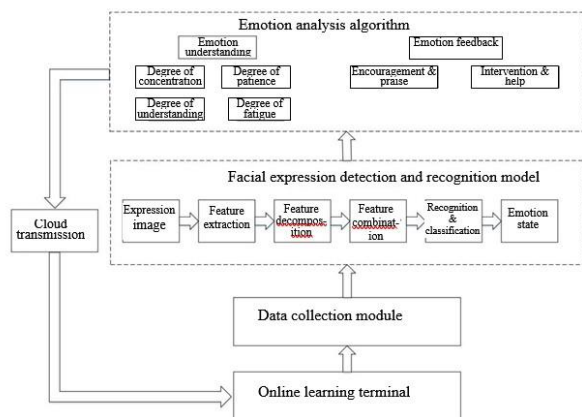


51: G06F

72: WANG, Jianhua, SONG, Wenyu, DING,
Yunhong, MIN, Xiaocui, WEI, Yuhua, YE, Chuntao,
LI, Renhe, CAI, Wenqin, WANG, Lanfeng, WANG,
Yulin, HU, Wen, ZHONG, Ming, LI, JINGHUA

00: -

The present invention discloses an online learning method and system based on CNNs (Convolutional Neural Networks). Feature extraction, classification and recognition are carried out by utilizing the CNNs, samples are learned in an online learning scenario, and a database is established, so as to be applied to large-scale recognition; and through a combined model, the expression recognition accuracy is improved, and the accurate feedback of online learning is realized. The grasping degree of knowledge and contents learned by students in a classroom is better understood through classifications of different expressions and emotions of the online learning students, and the feedback is given to teachers in real time through dynamic analysis on the neural works, so as to be conducive to improvement of the learning efficiency of the students.



21: 2022/05709. 22: 2022/05/24. 43: 2022/09/06

51: A61K

71: INNER MONGOLIA OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES

72: LIU, Bin, WU, Tiecheng, HOU, Yongyue, ZHAO, Ruoyang, HE, Yunmei, MA, Yuejun, GAO, Yulin, WANG, Tao, XU, Fuxun, LI, Yurong, YAN, Xingang

54: METHOD FOR PROMOTING KIDDING OF CASHMERE GOATS FOR THREE TIMES WITHIN TWO YEARS BY UTILIZING CHINESE HERBAL MEDICINE COMPOSITION

00: -

The present invention belongs to the field of traditional Chinese medicine compositions, and particularly relates to a composition for promoting concentrated estrus of cashmere goats as well as a preparation and application method. The composition for promoting concentrated estrus of cashmere goats includes the following components: Epimedium herb, Rehmannia glutinosa, sweet potato, Rhizoma dioscoreae, Poria cocos, Rhizoma alismatis, Cynomorium songaricum, Anemarrhena asphodeloides, Polygonum multiflorum, Leonurus japonicas and Semen cuscuteae. According to the Chinese herbal medicine composition in the present application, the cashmere goats may be subjected to concentrated induced estrus, and a two-year three-kidding mode of the cashmere goats (kidding for three times within two years) is established by taking 8 months as 1 reproductive cycle, so that a kidding ratio of ewes is up to 90% or higher in two anestrus seasons.

21: 2022/05710. 22: 2022/05/24. 43: 2022/09/06

51: G06Q

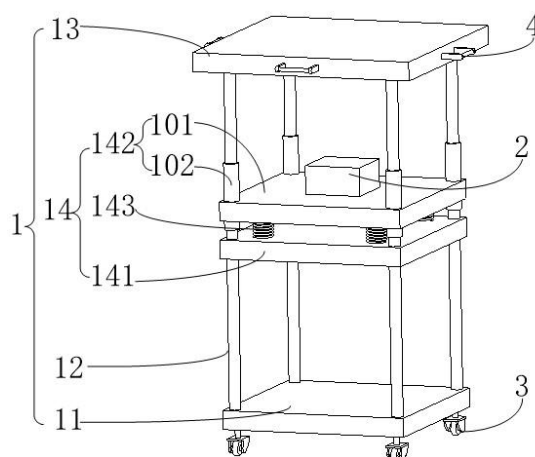
71: ZHENGZHOU UNIVERSITY OF AERONAUTICS

72: LIU, Haibin

54: CALLING DEVICE FOR LOGISTICS SUPPLY CHAIN MANAGEMENT

00: -

The present invention discloses a call device for logistics supply chain management, comprising: a support, a pager, and a plurality of brake casters, wherein the plurality of brake casters are connected at a bottom end of the support; and the pager is connected to the support. The call device for logistics supply chain management disclosed by the present invention can be moved to the vicinity of working positions of workers, thereby decreasing the time of the workers to go to the calling device, and improving the work efficiency.



21: 2022/05711. 22: 2022/05/24. 43: 2022/09/01

51: A23K

71: INSTITUTE OF ANIMAL SCIENCE, GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES

72: WANG, Shuang, ZHANG, Yanan, LV, Xiaohui, CHEN, Wei, XIA, Weiguang, LI, Kaichao, HUANG, Xuebing, WANG, Shenglin, ZHENG, Chuntian

54: LAYING DUCK VITAMIN PREMIX WITH LOW COST AND HIGH EGG LAYING PERFORMANCE AND APPLICATION THEREOF

00: -

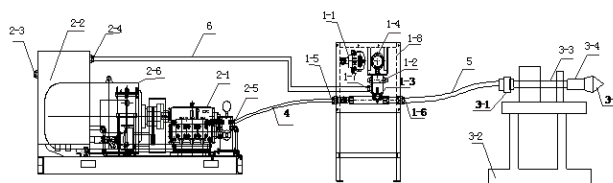
The present invention discloses a laying duck vitamin premix with low cost and high egg laying performance and an application thereof. The premix per kilogram includes the following components: 8000000-10000000 IU of vitamin A, 2000000-2500000 IU of vitamin D3, 20-25 g of vitamin E, 2.0-3.0 g of vitamin K, 1.5-2.5 g of vitamin B1, 5-7 g of

vitamin B2, 3.0-5.0 g of vitamin B6, 0.015-0.025 g of vitamin B12, 15.0-25.0 g of pantothenic acid, 10.0-20.0 g of nicotinic acid, 1.0-1.5 g of folic acid and 0.15-0.25 g of biotin. In the present invention, digestive characteristics of the laying ducks and interactions of the vitamins are fully considered in doses and components of the raw materials. The laying duck vitamin premix ensures the egg laying performance of the laying ducks to the utmost extent and increases a feed utilization ratio on the basis of maintaining a low vitamin dose.

21: 2022/05822. 22: 2022/05/26. 43: 2022/08/17
51: E21B; F04B
71: China Coal Technology & Engineering Group Chongqing Research Institute Co. Ltd
72: ZHANG Yongjiang, GUO Lindong, SUN Haitao, ZHAO Xusheng, CAO Jianjun, LU Zhanjin, MENG Xianzheng, LI Chengcheng, NIU Xingang, HUANG Zhenfei, XU Zunyu, YANG Huiming, JI Fei, LI Shuai, XU Junjian, LIU Yongsan, LIU Huaifu
54: ULTRA-HIGH PRESSURE WATER JET REMOTE CONTROL SYSTEM AND METHOD
00: -

The invention discloses an ultra-high pressure water jet remote control system and a method. An ultra-high pressure remote console is installed in the middle of an ultra-high pressure water jet transmission pipeline to realize a remote operation of the ultra-high pressure water jet. The ultra-high pressure remote console mainly includes a remote control switch, a liquid inlet, a pressure regulating overflow valve, a high pressure resistant pressure gauge, a liquid outlet and a liquid return port, and the pressure regulating overflow valve realizes a function of adjusting jet water pressure. A high pressure hose is used to connect the liquid inlet with an ultra-high pressure water jet device, and the liquid outlet with a water tail to ensure a safe transmission of high pressure water, and the liquid return port is connected with a water tank to form a liquid return channel, thus constituting a complete remote control system. Through the remote operation system, the remote operation is realized under complicated conditions of coal mine roadway construction, so as to improve the safety of a slotting operation and avoid a head loss caused by a long transmission distance of high pressure water. In addition, the transmission pipeline of the ultra-high pressure water jet device is prolonged, a frequent

position change of a water pump is avoided, and a construction efficiency is improved.



21: 2022/05824. 22: 2022/05/26. 43: 2022/08/17
51: A23L
71: SHANXI AGRICULTURAL UNIVERSITY THE INDUSTRIAL CROP INSTITUTE
72: FENG Naihong, YANG Chengyuan, HOU Donghui, YUE Zhongxiao, SONG Jian, WANG Yi, LI Jing, GUO Xiaoyan, WANG Hongli, YU Xinyu
54: WHOLE GRAIN SPROUT NUTRITIONAL POWDER AND PREPARATION METHOD THEREOF
00: -

The invention relates to whole grain sprouting nutritional powder and a preparation method thereof, belonging to the field of food processing. The whole grain sprouting nutritional powder is prepared by the following steps: Germinating grains and beans to a length of 0.5-1 mm, drying until the water content is less than or equal to 13%, and crushing to obtain raw bean flour and raw rice flour; Mixing raw rice flour, raw soybean flour, milk and eggs according to the weight ratio of 75-85: 12-16: 3-5: 1-3, and then extruding and puffing; Extrusion is divided into four stages: the first stage temperature is 50-70degree Celsius; the secondary temperature is 80-100degree Celsius and the pressure is 1.1-1.3 MPa; the tertiary temperature is 130-150degree Celsius and the pressure is 1.5-1.7 MPa; the four-stage temperature is 150-170degree Celsius and the pressure is 1.7-1.9 MPa; Pulverizing the product to obtain the final product. The invention combines the raw materials and technological characteristics of whole grains, germination, extrusion and puffing, etc., and the prepared product has smooth taste, short rehydration time, and can be drunk after being brewed and stirred with boiling water.

21: 2022/05825. 22: 2022/05/26. 43: 2022/08/17
51: A23L
71: SHANXI AGRICULTURAL UNIVERSITY THE INDUSTRIAL CROP INSTITUTE

72: FENG Naihong, YANG Chengyuan, HOU Donghui, SONG Jian, YUE Zhongxiao, LI Jing, WANG Yi, WANG Hongli, GUO Xiaoyan, YU Xinyu

54: MULTIGRAIN INSTANT NOODLES AND PREPARATION METHOD THEREOF

00: -

The application discloses a kind of multigrain instant noodles, which comprises the following components: 2000-5000 g of millet flour, 100-200 g of naked oats flour, 20-80 g of tartary buckwheat flour, 500-1000 g of wheat core powder, 150-350 g of millet starch, 1500-4000ml of water and 15-35 g of salt. It is prepared by maturing treatment and extrusion process, and can be eaten by mixing noodles with catsup bag and seasoning bag. The instant noodle of that application has the feasibility of daily necessity, is suitable for home travel, can play a role that no food can replace when there is no water or wat, is more suitable for various kinds of disaster relief such as earthquake resistance, flood resistance, drought resistance and the like, meets the demand for convenient and quick "dinner" food, and has good social benefits.

21: 2022/05826. 22: 2022/05/26. 43: 2022/08/17
51: G06Q

71: XI'AN UNIVERSITY OF POSTS AND TELECOMMUNICATIONS

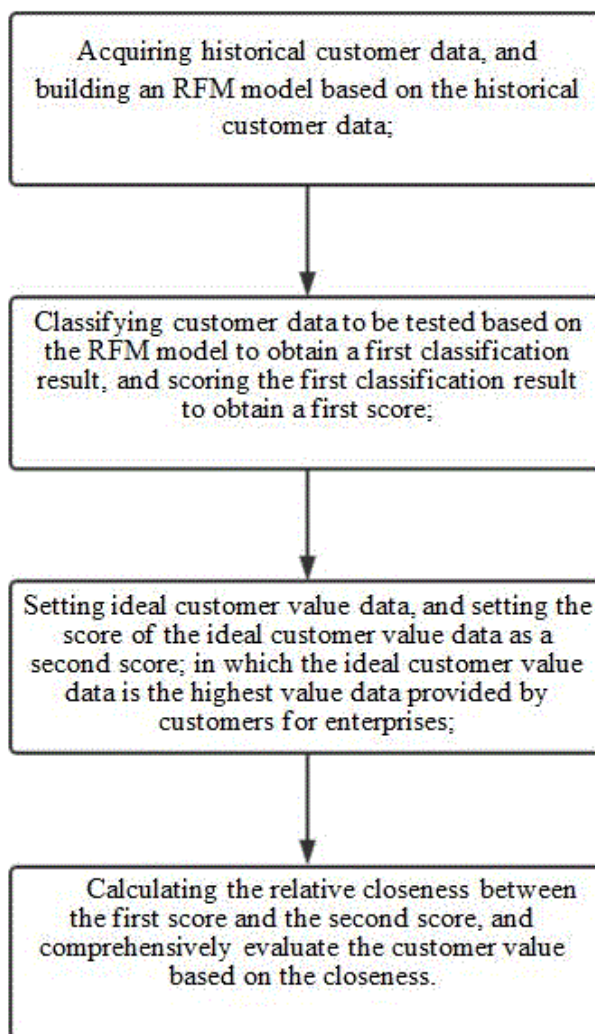
72: LI Pengfei, WANG Chen, LIU Jiaxin, WU Jianhong

54: CUSTOMER VALUE EVALUATION METHOD AND SYSTEM FOR RURAL E-COMMERCE PLATFORM

00: -

The invention discloses a method and a system for evaluating customer value of rural e-commerce platform, which comprise the following steps: obtaining historical customer data and constructing RFM model based on the historical customer data; Classifying customer data to be tested based on the RFM model to obtain a first classification result, and scoring the first classification result to obtain a first score; Setting ideal customer value data, and setting the score of the ideal customer value data as a second score; Wherein, that ideal custom value data is the highest value data provide by customers for enterprises, the relative closeness between the first score and the second score is calculated by a weighted approximation ideal solution sorting method, and the customer value is comprehensively

evaluated based on the closeness. Through the technical scheme and the corresponding system, the invention can comprehensively analyze the customer value, which is conducive to mining the value of big customers and further providing differentiated and personalized services for customers.



21: 2022/05827. 22: 2022/05/26. 43: 2022/08/17
51: A61K

71: Suzhou DongQuan Biotechnology Co., LTD.

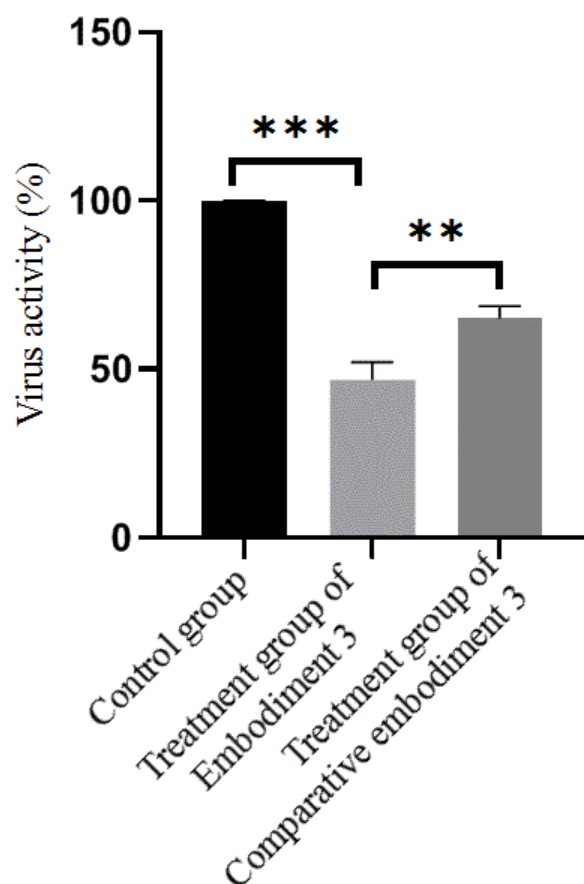
72: ZHU Binhui, ZHU Hongming, JIANG Tianlong, HAN Rong, ZHU Yanjuan

54: WUWEI QINGYANG MIXTURE AND ITS APPLICATION

00: -

The invention discloses Wuwei Qingyang Mixture and its application, and relates to the fields of biomedicine and traditional Chinese medicine. The

Wuwei Qingyang mixture comprises recombinant human superoxide dismutase (rhSOD) and schisandrin B. The Wuwei Qingyang Mixture provided by the invention can effectively remove oxygen free radicals, inhibit oxidative stress, improve organism inflammation, and prevent and reduce oxidative stress damage of human tissues caused by free radicals stimulated by physical and chemical factors such as viruses, bacteria and the like, as well as PM2.5, cigarette smoke, ozone, various inhalable dusts, mineral fibers and the like.



21: 2022/05828. 22: 2022/05/26. 43: 2022/08/17
51: A61K

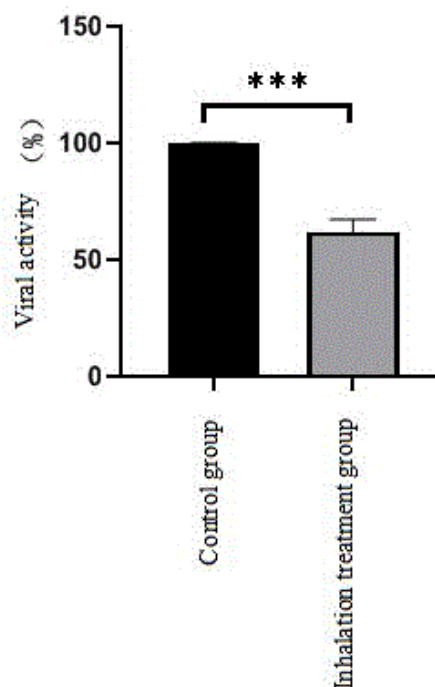
71: Suzhou DongQuan Biotechnology Co., LTD.
72: ZHU Binhui, ZHU Hongming, JIANG Tianlong, HAN Rong, ZHU Yanjuan

54: COMPOSITION FOR TREATING PNEUMONIA OR LUNG INJURY AND APPLICATION THEREOF

00: -

The invention discloses a composition for treating pneumonia or lung injury and application thereof, and relates to the field of biomedicine. The composition for treating pneumonia or lung injury

comprises recombinant human superoxide dismutase and catalase. The composition provided by the invention combines rhSOD with catalase, which can effectively remove oxygen free radicals, inhibit oxidative stress, improve organism inflammation, and prevent and reduce oxidative stress damage of human tissues caused by microorganisms such as viruses and bacteria, and free radicals stimulated by physical and chemical factors such as PM2.5, cigarette smoke, ozone, various inhalable dusts and mineral fibers.



21: 2022/05831. 22: 2022/05/26. 43: 2022/08/17
51: A01G

71: Weifang Academy of Agricultural Sciences
72: TAN Jinxia, HAN Lujie, HAN Ruidong, SUN Jifeng, ZHOU Luhong, XU Ligong, LI Meng, HAN Taili

54: METHOD FOR IMPROVING RADISH GERmplasm CREATION EFFICIENCY

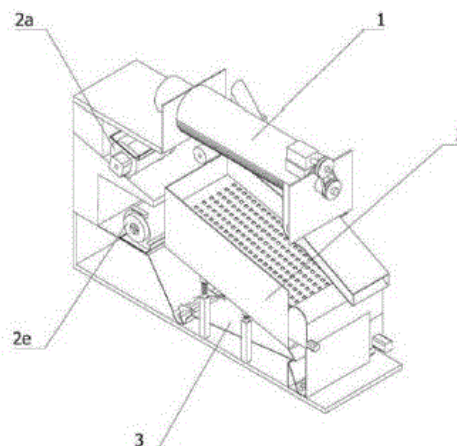
00: -

The invention discloses a method for improving the creation efficiency of radish germplasm, which comprises the following steps: S1, preparing rootstocks and scions: selecting hybrid varieties which are easy to germinate as rootstocks, selecting hybrid varieties with skin color and crisp green color as scions, sowing rootstocks and scions and vernalization; S2, planting; S3, grafting environment

management: controlling the environment temperature to make plants grow, and irrigating roots with chlormequat diluent; S4, selection of grafting time: taking the second and subsequent first-level branches of the rootstock as grafting positions; selecting scions as primary branches of 6-10 cm in length; S5, grafting: grafting the scion bud on the rootstock plant; S6, post-grafting management: after the grafting is completed, the grafted plants are managed by controlling the growth environment temperature; the method can effectively improve the embryo emergence rate of isolated microspores of materials which are difficult to embryo, accelerate the purification speed of radish materials, and improve the germplasm creation efficiency.

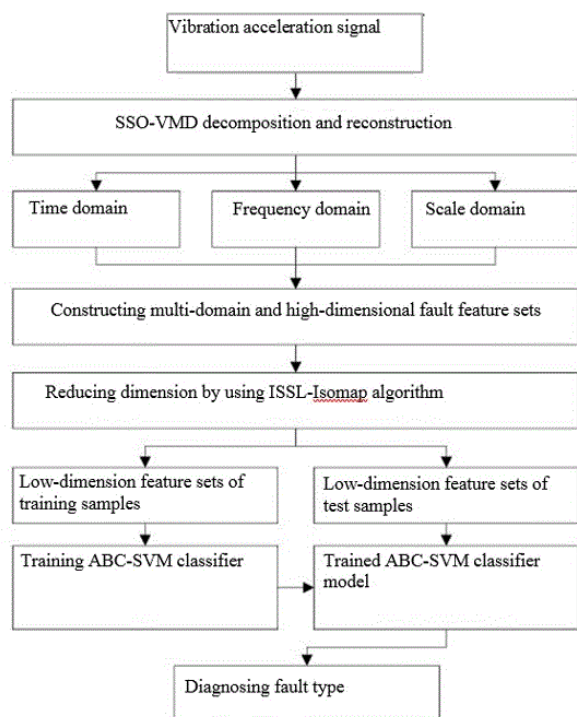
21: 2022/05839. 22: 2022/05/26. 43: 2022/08/17
51: A01F
71: Jinhua Polytechnic
72: WANG, Zhiming, ZHOU, Xuan, DING, Zhao, FU, Yunfeng, TIAN, Liquan
33: CN 31: 202111105662.1 32: 2021-09-22
54: HIGH-THROUGHOUT THRESHING AND CLEANING DEVICE FOR COMBINE HARVESTER
00: -

Disclosed is a high-throughout threshing and cleaning device for a combine harvester, including a threshing unit, a cleaning unit and a grain conveyor, wherein the cleaning unit includes a first fan, a double-screen vibrating sieve, a separator, a first conveyor and a second fan; the double-screen vibrating sieve is located between the threshing unit and the grain conveyor, a first screen waste outlet of the double-screen vibrating sieve is communicated with a feed inlet of the separator, and the first conveyor is communicated with a feed inlet of double-screen vibrating sieve and a discharge outlet of the separator. The first fan is used for outputting a high-speed airflow towards the outside of the threshing and cleaning device; and the second fan is used for outputting a high-speed airflow towards the outside of the threshing and cleaning device, so the high-quality screening of crops and high throughput are realized simultaneously.



21: 2022/05877. 22: 2022/05/27. 43: 2022/08/18
51: G01M
71: Fuzhou University
72: YAO Ligang, WANG Zhenya, CAI Yuxiang, ZHANG Dawei, LI Gaosong, XIE Daizhi, LIN Tangxin
54: FAULT DIAGNOSIS METHOD OF PLANETARY GEARBOX
00: -

The invention relates to a fault diagnosis method of planetary gearbox. Firstly, the salp swarm optimization variational modal decomposition (SSO-VMD) is used to decompose and reconstruct the signal. Then, fault features are extracted from multiple domains, and the improved supervised self-organizing incremental learning neural network landmark isometric mapping (ISSL- Isomap) is used for dimension reduction. Finally, artificial bee colony support vector machine (ABC- SVM) classifier for diagnosis and identification. The invention overcomes the problem of parameter selection in variational modal decomposition (VMD) algorithm, and solves the problem of information redundancy existing in multi-domain features. The experimental results of planetary gearbox fault diagnosis show that the proposed method can effectively identify various fault types and has great practical value.

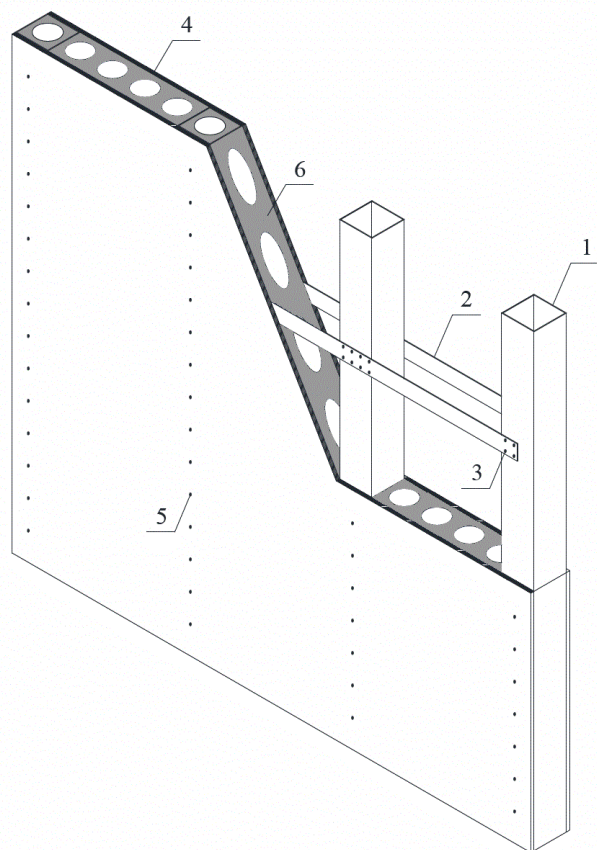


21: 2022/05878. 22: 2022/05/27. 43: 2022/08/18
 51: A01H
 71: Guizhou Botanical Garden, Guizhou University
 72: ZHANG Jiachun, ZHANG Zhenming, ZENG Xianping, ZHOU Xinwei
54: CULTURE MEDIUM AND CULTURE METHOD OF BLETILLA STRIATA
 00: -

The application discloses a culture medium and a culture method of *Bletilla Striata*, which relates to the technical field of plant culture. The application provides a culture medium, which comprises the following components: Forest rotten leaf soil, sawdust, chicken manure, wine trough, rice bran, shavings, cake and straw; the application also provides a culture method, through reasonable formula combination and application of fertilizers with different components to the *Bletilla Striata* in planting and growth stages, the growth and growth of the *Bletilla Striata* can be effectively improved, the pseudobulb growth of the *Bletilla Striata* is promoted, the yield of the *Bletilla Striata* is further improved, the current situation that the supply of the *Bletilla Striata* is in short supply can be effectively solved, and the economic benefit and the medical benefit are improved.

21: 2022/05879. 22: 2022/05/27. 43: 2022/08/18
 51: E04B
 71: GUIZHOU UNIVERSITY
 72: ZHOU Li, GONG Lei, TANG Honggang
54: PHOSPHOGYPSUM FILLED LIGHT COMPOSITE WALL WITH THIN-WALLED SQUARE STEEL TUBE SKELETON
 00: -

A phosphogypsum filled light composite wall with thin-walled square steel tube skeleton is achieved by such measures: arranging thin-walled square steel tubes at a certain spacing, and then installing flat steel strips on the thin-walled square steel tubes by self-tapping screws, where the spacing of flat steel strips can be determined by design calculation; when all flat steel strips are installed, the steel skeleton of the composite wall is formed; then, installing the wall panels on both sides of the steel skeleton by using special self-tapping screws for the wall panels, which are used as templates for pouring phosphogypsum; inserting built-in core mold for ensuring a hollow section of the wall, and pouring phosphogypsum; taking out the core mold after initial setting of the phosphogypsum to complete the manufacture of the phosphogypsum filled light composite wall with thin-walled square steel tube skeleton. This composite wall has high axial compression, lateral bearing capacity, good thermal insulation and fire resistance; it is a new composite wall with excellent performance, simple structure and low cost, and provides a new direction for comprehensively utilizing phosphogypsum.

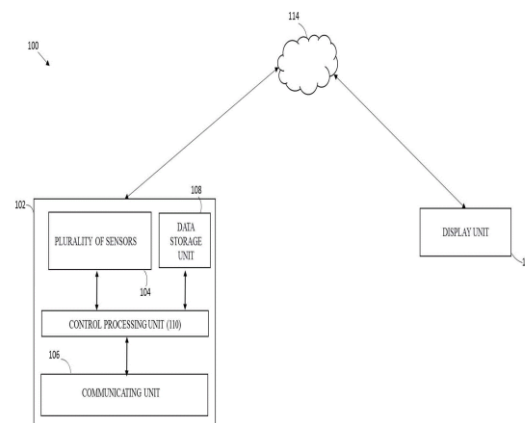


21: 2022/05880. 22: 2022/05/27. 43: 2022/08/18
51: A41D
71: Manipal University Jaipur
72: Mr. Deevash Chaudhary, Ms. Tejaswini Ojha, Ms. Joshi S Tripur, Ms. Krisha Bhargava, Mr. Rohan Mittal

54: ANDROID BASED IOT ENABLED SMART MASK

00: -
The present invention relates to an IoT-based smart mask (102). The IoT-based smart mask (102) comprises a plurality of sensors (104), a communicating unit (106), a data storage unit (108), and a central processing unit (110). The plurality of sensors (104) is configured to detect health-related information of a user. The communicating unit (106) is configured to make communication easier for users and to avoid the need to take the mask off while conversing. The data storage unit (108) is configured to receive the detected and generated information by the plurality of sensors (104) and communicating unit (106). The central processing unit (110) is configured to control the function of the plurality of sensors (104), communicating unit (106),

and data storage unit (108). The IoT-based smart mask (102) can monitor the user's health in real time. The present invention provides an IoT-based smart mask (102) that can be suffocation free.



21: 2022/05881. 22: 2022/05/27. 43: 2022/08/18
51: A01G
71: Guizhou Botanical Garden
72: ZHANG Jiachun, ZENG Xianping, ZHOU Xinwei
54: DENDROBIUM OFFICINALE SEEDLING SUBSTRATE AND SEEDLING RAISING METHOD THEREOF
00: -

The invention discloses a Dendrobium officinale seedling substrate and a seedling raising method thereof, belonging to the technical field of plant cultivation. The invention provides a Dendrobium officinale seedling substrate, which comprises the following components in parts by weight: 200-210 parts of corncob, 20-23 parts of pine needles, 15-18 parts of peat, 25-30 parts of humus soil, 6-10 parts of urea, 10-15 parts of potassium dihydrogen phosphate and 100-130 parts of chicken manure. The invention also provides a seedling raising method of Dendrobium officinale, which can effectively improve the yield and planting quality of Dendrobium officinale by reasonable formula combination and without damaging the root system of the plant during seedling hardening and transplanting, has strong popularization, can solve the current situation of shortage of Dendrobium officinale, and is more conducive to industrialized and large-scale cultivation of Dendrobium officinale.

21: 2022/05882. 22: 2022/05/27. 43: 2022/08/18

51: G02B

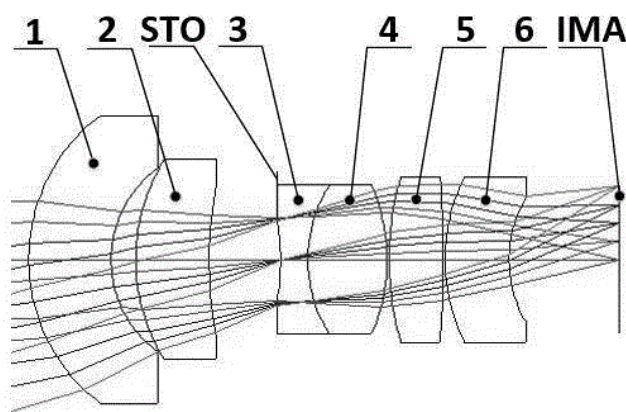
71: QINGDAO UNIVERSITY OF TECHNOLOGY

72: CHEN Jianjun, CHEN Yaqi

54: FIXED-FOCUS VIDEO MONITORING LENS

00: -

The invention provides a fixed-focus video monitoring lens, which comprises six optical glass lenses, wherein the optical powers are negative plus minus plus minus plus minus along the incident direction of light; the focal length of the lens is 14mm, the f number of the image side is 2.2, the field angle is 32 degrees, and the total optical length of the system is 32.2mm; the lens works in the visible near-infrared wavelength range of 400nm-1000nm, which can realize wide-band clear imaging. In the night or low illumination environment, the near-infrared lamp can be used to fill the light to ensure the imaging quality; the object distance of the lens is set to 2.5m, which is mainly used for video monitoring of the situation at the entrance of brand stores; the lens consists of 6 lenses, of which 2 lenses form a glued lens, all of which are spherical; the lens has the advantages of wide-band imaging, high-quality imaging and miniaturization.



21: 2022/05883. 22: 2022/05/27. 43: 2022/08/26

51: C04B

71: University of Science and Technology Beijing

72: MU Xinli, YU Yang, LEI Bolan, BA Haojing, ZHANG Siqi, NI Wen

54: STEEL SLAG AGGREGATE LOW-CARBON ROAD CONCRETE BY USING INDUSTRIAL BY-PRODUCT GYPSUM AND COAL FLY ASH AND PREPARATION METHOD THEREOF

00: -

The application relates to the field of building materials, solid waste recycling and green low-carbon development, and in particular to steel slag

aggregate low-carbon road concrete by using industrial by-product gypsum and coal fly ash. By using coal fly ash and industrial by-product gypsum as mineral admixtures and steel slag as aggregate for road concrete, the strength of the concrete is ensured by mainly generating a hydration product with a calcium-silicon ratio of about 1.2 through the synergistic effect of the coal fly ash, the industrial by-product gypsum, the cement and the steel slag, and the abrasion resistance of the concrete is improved by replacing sand and gravel with the steel slag. According to the application, the dosage of cement is greatly reduced, natural sand and gravel are not used, a large amount of solid wastes such as steel slag, industrial by-product gypsum and the like can be absorbed, the cost of road concrete and carbon emission are reduced, the realization of the double-carbon target is facilitated, and good economic benefit and environmental benefit are achieved.

21: 2022/05884. 22: 2022/05/27. 43: 2022/08/26

51: G01V

71: Fujian University of Technology, Shandong University of Science and Technology, Fujian New China Construction Engineering Group Co., Ltd., Zhongqi Huahao Construction Co., Ltd., Urban Communications Engineering of CCCC FIRST Harbor Engineering Co., Ltd.

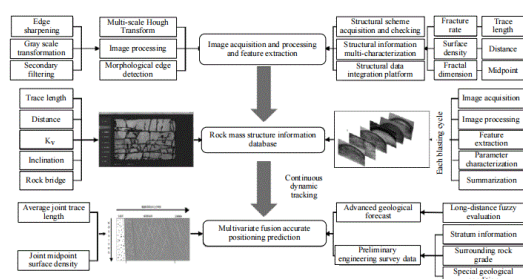
72: WANG, Gang, HE, Peng, ZHU, Jihai, CHEN, Xi, XU, Feng, YOU, Zhijia, ZHANG, Wei, CHEN, Junhao, YAO, Zhixiong, ZANG, Wanjun

54: METHOD FOR PREDICTING UNFAVORABLE GEOLOGICAL BODIES IN FRONT OF TUNNEL FACES BASED ON MULTIVARIATE INFORMATION FUSION AND CONTINUOUS DYNAMIC TRACKING

00: -

Provided is a method for predicting unfavorable geological bodies in front of a tunnel face based on multivariate information fusion and continuous dynamic tracking. The method includes: acquiring rock mass structure information through image processing and feature parameter extraction, determining a general fuzzy position of a special geological body using an advanced geological forecast means, and realizing multivariate heterogeneous information fusion analysis and dynamic prediction of special geological bodies in fractured rock mass by conducting continuous dynamic tracking and recording on rock mass

structure information of the tunnel face, using development features and occurrence regularities of joints near special geological bodies, and synthesizing an advanced geological forecast, preliminary engineering survey data and a rock mass structure information base. The present invention realizes continuous dynamic detection and analysis of a front geological body, facilitates advanced optimization of an engineering layout, improves working efficiency and safety, and reduces accidents.



21: 2022/05885. 22: 2022/05/27. 43: 2022/08/26

51: G06K; G06T

71: Central South University of Forestry & Technology

72: XIE Lu, SUN Hua

54: SUITABILITY ANALYSIS METHOD OF INDIVIDUAL TREE SEGMENTATION ALGORITHM

00: -

The invention disclose a suitability analysis method of individual tree segmentation algorithm, which comprises that following steps: acquiring individual tree information of a sample plot area based on a lidar, and preprocessing the individual tree information of the sample plot area to obtain individual tree lidar data; based on the individual tree lidar data, using the point cloud-based cluster segmentation algorithm, watershed segmentation algorithm and double-tangent crown recognition algorithm respectively for individual tree segmentation; analyzing the individual tree segmentation accuracy by ground RTK individual tree positioning points and orthographic images, and estimating the accuracy of individual tree height information estimated based on the individual tree segmentation accuracy, so as to obtain the optimal individual tree segmentation method in the sample plot area. According to the invention, airborne LiDAR data of different types of forest land in the core area of Winter Olympics are segmented into individual

trees, and the suitability performance of the point cloud-based cluster segmentation algorithm is the best in newly afforestation *Pinus tabulaeformis*; among the middle-aged forest *Larix gmelinii*, the double-tangent crown recognition algorithm has the best suitability.

Acquiring individual tree information of a sample plot area based on a lidar, and preprocessing the individual tree information of the sample plot area to obtain individual tree lidar data;

based on the individual tree lidar data, using the point cloud-based cluster segmentation algorithm, watershed segmentation algorithm and double-tangent crown recognition algorithm respectively for individual tree segmentation; analyzing the individual tree segmentation accuracy by ground RTK individual tree positioning points and orthographic images, and estimating the accuracy of individual tree height information based on the individual tree segmentation accuracy, so as to obtain the optimal individual tree segmentation method in the sample plot area.

21: 2022/05886. 22: 2022/05/27. 43: 2022/08/18

51: G06K

71: JiaYing University

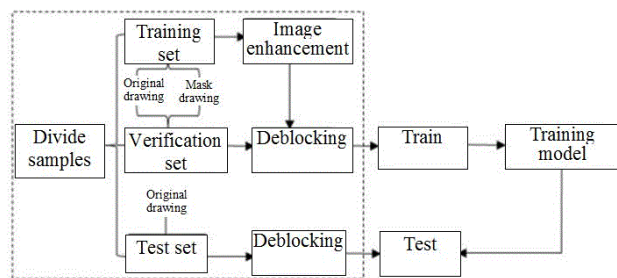
72: HUANG Kekun, LI Yunqing, HUANG Hongrui

54: INTELLIGENT DEFECT DETECTION METHOD OF POWER PATROL BASED ON DEEP LEARNING

00: -

The invention discloses an intelligent defect detection method for electric power patrol based on deep learning, which comprises the following steps: acquiring a plurality of original images of different insulators and dividing them into a training set and a testing set; Enhancing the original image of the training set to obtain an enhanced set image; Cutting the image of each enhancement set and the original image of the test set to obtain a plurality of sub-block images and masks thereof; Semantic segmentation of each sub-block image and its mask and extraction of insulator region; And the communication area of each insulator is obtained; Rotate the connected area by principal component analysis to obtain the normalized insulator image; Inputting the normalized insulator image of the enhanced set image into the neural network model for training to obtain a training model; The insulator coordinates in the normalized insulator image of the test set are predicted by the training model; Carry out inverse transformation on the coordinates of insulators and restore them to the original coordinates. The method can realize the identification and segmentation of insulator strings,

and has short processing time, high precision and strong robustness.



21: 2022/05893. 22: 2022/05/27. 43: 2022/08/26

51: C08L

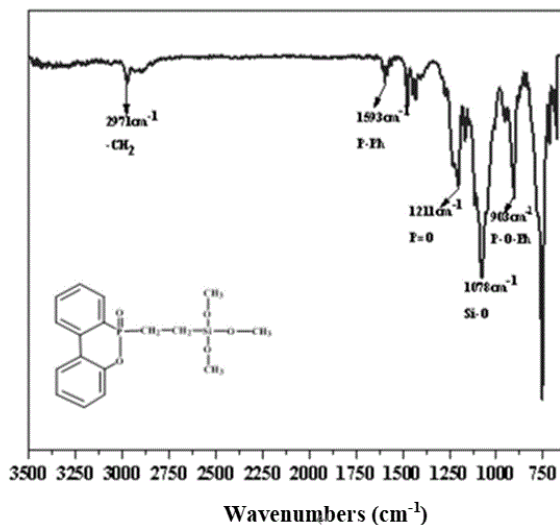
71: Guizhou Minzu University

72: Daohai Zhang, Yanyan Tan, Fang Tan, Min He, Jie Yu, Shuhao Qin, Xiaoyu Shang, Junzhuo Sun, Kuntian Li, Meng Pei, Yu Xue, Jinhui Xie, Dongmei Bao

54: THE EFFECTIVE FLAME RETARDANT AND ITS SYNTHESIS METHOD

00: -

The invention belongs to the field of composite materials, and particularly relates to phosphaphenanthrene silane grafted modified graphene and a preparation method thereof. The preparation method comprises the following steps: dissolving vinyltrimethoxysilane, azodiisobutyronitrile and DOPO in a solvent, stirring, and cooling to room temperature to obtain a mixture; transferring the mixture into an evaporator for evaporation to obtain light yellow viscous liquid; then adding tetrahydrofuran into the yellow viscous liquid, stirring with a stirrer, adding an acetic acid aqueous solution, heating, and stirring to obtain a hydrolyzed solution; adding tetrahydrofuran and xylene into the hydrolyzed solution; then adding graphene oxide for reaction; and finally washing with ethanol, suction filtration and vacuum drying. The obtained phosphaphenanthrene silane grafted modified graphene not only has the intramolecular synergistic flame retardance of phosphaphenanthrene and graphene, but also has the phosphorus-silicon double-element synergistic effect of the phosphaphenanthrene and graphene synergistic flame retardant, and further has the phosphorus-silicon-sulfur three-element synergistic effect of the phosphaphenanthrene and graphene synergistic flame retardant.



21: 2022/05902. 22: 2022/05/27. 43: 2022/07/06

51: C30B

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES

72: DAI, LIDONG, HU, HAIYING

33: CN 31: 202111495741 .8 32: 2021-12-08

54: METHOD FOR PREPARING SINGLE-CRYSTAL PYROPE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION

00: -

Disclosed is a method for preparing single-crystal pyrope under a high-temperature and high-pressure condition, comprising: preparing a pyrope cylinder sample using solid magnesium nitrate hexahydrate powder, solid aluminum nitrate nonahydrate powder, solid iron(III) nitrate nonahydrate powder, liquid tetraethoxysilane, liquid tetrabutyl titanate and absolute ethyl alcohol as starting materials, preparing two water-sourced discs using solid serpentine powder and solid α-phase goethite as a water source, placing the two water-sourced discs at two ends of the cylinder sample, and placing the sample and the water-sourced discs in a gold-palladium alloy sample tube for a high-temperature and high-pressure reaction to obtain high-chromium and high-water single-crystal pyrope. The present invention fills in the technical blank in preparing high-iron, high-titanium and high-water single-crystal pyrope in the prior art, so that large-grained high-iron, high-titanium and high-water single-crystal pyrope experimental samples are obtained.

21: 2022/05903. 22: 2022/05/27. 43: 2022/07/06

51: C30B

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES

72: DAI, LIDONG, HU, HAIYING

33: CN 31: 202111495846 .3 32: 2021-12-08

54: METHOD FOR PREPARING SINGLE-CRYSTAL SPESSARTINE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION

00: -

Disclosed is a method for preparing single-crystal spessartine under a high-temperature and high-pressure condition, including: preparing a powdery spessartine sample in a glassy state using solid manganese(II) nitrate tetrahydrate powder, solid aluminum nitrate nonahydrate powder, solid zirconium(IV) nitrate pentahydrate powder, solid vanadium(III) 2,4-pentanedionate powder, liquid tetraethoxysilane and absolute ethyl alcohol as starting materials, and pressing the powdery sample into a F 3.8 mm (diameter) * 3.4 mm (height) cylinder; preparing water-sourced discs using natural serpentine, flake manganite and zirconium hydroxide as a water source; and placing the two water-sourced discs at two ends of the cylinder sample and then placing the cylinder sample together with the water-sourced discs in a gold-palladium alloy sample tube for a high-temperature and high-pressure reaction to obtain single-crystal spessartine. The present invention fundamentally fills in the technical blank in preparing high-vanadium, high-zirconium and high-water single-crystal spessartine in the prior art, so that large-grained high-vanadium, high-zirconium and high-water single-crystal spessartine experimental samples are obtained.

21: 2022/05904. 22: 2022/05/27. 43: 2022/07/06

51: C30B

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES

72: DAI, LIDONG, HU, HAIYING

33: CN 31: 202111498507 .0 32: 2021-12-09

54: METHOD FOR PREPARING SINGLE-CRYSTAL GROSSULAR UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION

00: -

Disclosed is a method for preparing single-crystal grossular under a high-temperature and high-pressure condition, including: preparing a grossular

sample in a glassy state at a high temperature using solid calcium nitrate tetrahydrate powder, solid aluminum nitrate nonahydrate powder, solid iron(III) nitrate nonahydrate powder, solid chromium(III) nitrate nonahydrate powder, solid ammonium metavanadate powder, liquid tetraethoxysilane and absolute ethyl alcohol as starting materials, and pressing the powdery grossular sample into a F 3.8 mm * 3.3 mm cylinder sample; preparing water-sourced discs using natural talcum, slaked lime and a-phase goethite as a water source; placing the water-sourced discs at two ends of the cylinder sample and then placing the cylinder sample together with the water-sourced discs in a gold-palladium alloy sample tube; and performing a reaction in the gold-palladium alloy sample tube under a high-temperature and high-pressure condition to obtain single-crystal grossular. The present invention fills in the technical blank in preparing high-iron, high-chromium, high-vanadium and high-water single-crystal grossular in the prior art, so that large-grained high-iron, high-chromium, high-vanadium and high-water single-crystal grossular experimental samples are obtained.

21: 2022/05905. 22: 2022/05/27. 43: 2022/07/06

51: C30B

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES

72: DAI, LIDONG, HU, HAIYING

33: CN 31: 202111499124 .5 32: 2021-12-09

54: METHOD FOR PREPARING SINGLE-CRYSTAL WOLLASTONITE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION

00: -

Disclosed is a method for preparing single-crystal wollastonite under a high-temperature and high-pressure condition, including: preparing a single-crystal wollastonite cylinder sample in a glassy state using solid calcium nitrate tetrahydrate powder, solid iron(III) nitrate nonahydrate powder, solid manganese(II) nitrate tetrahydrate powder, liquid tetraethoxysilane and absolute ethyl alcohol as starting materials; preparing water-sourced discs using solid natural talcum powder, solid a-phase goethite powder, solid flake manganite powder and solid slaked lime powder; and placing the water-sourced discs at two ends of the cylinder sample,

and placing the cylinder sample together with the water-sourced discs in a gold-palladium alloy sample tube to prepare single-crystal wollastonite through a high-temperature and high-pressure reaction. The present invention fundamentally fills in the technical blank in preparing high-iron, high-manganese and high-water single-crystal wollastonite in the prior art, so that large-grained high-iron, high-manganese and high-water single-crystal wollastonite experimental samples are obtained.

21: 2022/05906. 22: 2022/05/27. 43: 2022/07/06
51: C01B; B01J

71: INSTITUTE OF GEOCHEMISTRY CHINESE ACADEMY OF SCIENCES

72: DAI, LIDONG, HU, HAIYING

33: CN 31: 202111112213.X 32: 2021-09-18

54: METHOD FOR SYNTHESIZING HYDROUS PLAGIOCLASE SOLID SOLUTION UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION

00: -

Disclosed is a method for synthesizing a hydrous plagioclase solid solution under a high-temperature and high-pressure condition, including: weighing, according to a molar ratio, 4:1, of albite and anorthite in a hydrous plagioclase solid solution, starting materials, the weights of which correspond to albite stoichiometric ratio and an anorthite stoichiometric ratio, uniformly grinding and mixing the starting materials in ethyl alcohol with an agate mortar, and drying mixed powder in an oven; synthesizing plagioclase glass under high temperature; placing a platinum crucible containing the plagioclase glass on a press to crush the plagioclase glass, then placing the crushed plagioclase glass in a high-frequency vibrating mill to grind the plagioclase glass into uniform granular powder, and then drying the granular powder in the oven; preparing inner and outer copper tubes; assembling a hydrous sample; performing high-temperature and high-pressure synthesis assembling; and placing an assembly block on a six-anvil press to synthesize a hydrous sample under a high-temperature and high-pressure condition to obtain a hydrous plagioclase solid solution. The present invention solves the technical problems limited size and inaccurate water content of samples, and high experimental cost of existing

techniques for synthesizing a hydrous plagioclase solid solution.

21: 2022/05999. 22: 2022/05/30. 43: 2022/07/12

51: G01J; G06Q

71: ENVISION DIGITAL INTERNATIONAL PTE.

LTD. , SHANGHAI ENVISION DIGITAL CO., LTD.

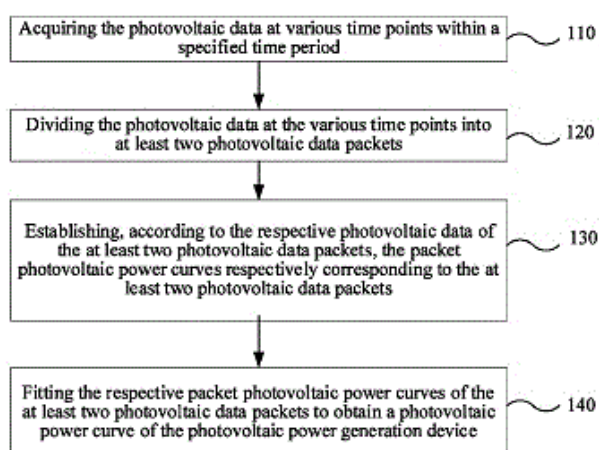
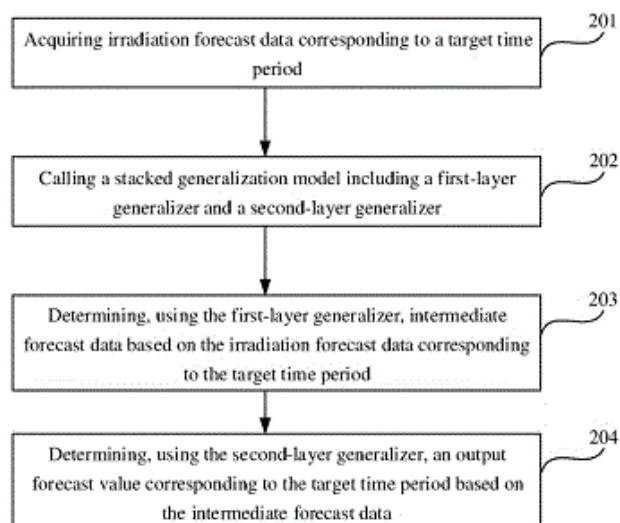
72: DONG, ZIBO, YAO, YING, ZHAO, YANGYANG, YANG, HUI, ZHAO, QINGSHENG

33: CN 31: 201911112640.0 32: 2019-11-14

54: METHOD FOR PROCESSING IRRADIATION FORECAST, METHOD FOR TRAINING STACKED GENERALIZATION MODEL, AND APPARATUSES THEREOF

00: -

Disclosed is a method for processing an irradiation forecast. The method includes: acquiring irradiation forecast data corresponding to a target time period; calling a stacked generalization model including a first-layer generalizer and a second-layer generalizer; determining, using the first-layer generalizer, intermediate forecast data based on the irradiation forecast data corresponding to the target time period; and determining, using the second-layer generalizer, an output forecast value corresponding to the target time period based on the intermediate forecast data. In a technical solution according to an embodiment of the present disclosure, a method for processing an irradiation forecast is achieved. In addition, in a technical solution according to the embodiment of the present disclosure, intermediate forecast data outputted by the first-level generalizer acts as an input of the second-level generalizer, such that a deviation of an output result of the first-layer generalizer is reduced by the second-layer generalizer, thereby reducing processing overhead of a server while further improving the accuracy of plane of array irradiation.



21: 2022/06000. 22: 2022/05/30. 43: 2022/07/12
 51: G06Q; G06F
 71: ENVISION DIGITAL INTERNATIONAL PTE. LTD. , SHANGHAI ENVISION DIGITAL CO., LTD.
 72: YUAN, RENYU, DONG, ZIBO, YAO, YING, ZHAO, YANGYANG, YANG, HUI, ZHAO, QINGSHENG
 33: CN 31: 201911112139.4 32: 2019-11-14
54: METHOD AND APPARATUS FOR MODELING PHOTOVOLTAIC POWER CURVE, AND COMPUTER DEVICE AND STORAGE MEDIUM THEREOF

00: -
 The present disclosure relates to a method and apparatus for modeling a photovoltaic power curve, and a computer device and a storage medium thereof. The method includes: acquiring photovoltaic data at various time points within a specified time period; dividing the photovoltaic data at the various time points into at least two photovoltaic data packets; and establishing, according to the respective photovoltaic data of the at least two photovoltaic data packets, packet photovoltaic power curves respectively corresponding to the at least two photovoltaic data packets. By the method, the photovoltaic data is fitted in different time periods during the photovoltaic curve modeling process, thereby reducing the influence of the difference between photoelectric conversion efficiencies in different time periods on photovoltaic curve modeling, and improving the accuracy of photovoltaic curve modeling.

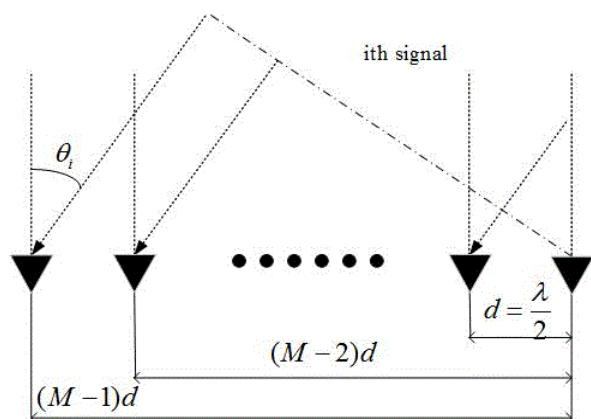
21: 2022/06029. 22: 2022/05/31. 43: 2022/09/09
 51: G01S

71: QINGDAO UNIVERSITY OF TECHNOLOGY
 72: WANG Xuhu, TIAN Yu, BAI Haodong, WANG Xinjie, LI Enyu, SONG Chuanwang

54: DOA ESTIMATION METHOD BASED ON COVARIANCE EXTENDED PM ALGORITHM

00: -

Aiming at the problem that the traditional estimation method based on PM algorithm has poor estimation performance in application scenarios with array error, low signal-to-noise ratio and small snapshot number, the invention provides a direction of arrival estimation method based on covariance extended PM algorithm. Firstly, the original data received by hydrophone array is preprocessed to obtain the covariance of received data. The signal subspace is obtained by eigenvalue decomposition method, and a brand-new extended covariance matrix is obtained by the rotation invariance of the signal subspace. Based on the extended covariance matrix, the spatial spectrum is calculated by PM algorithm, and the DOA is estimated by searching the spectral peak of the spatial spectrum. Compared with the traditional method, the patented method further expands the array aperture, improves the angle estimation performance and the robustness of the processing method, and obtains more accurate DOA estimation results with less computation, which has important engineering application value.



21: 2022/06030. 22: 2022/05/31. 43: 2022/09/09
51: A23L

71: JIANGXI NORMAL UNIVERSITY

72: Zhang Lu, Wang Pei xin, Tu Zong cai, Liu Jia hui, Jia Xiao yan, Liu Jun, Xie Xing

54: BETA-CAROTENE NANOEMULSION WITH HIGH INTERNAL PHASE, PREPARATION METHOD AND APPLICATION THEREOF

00: -

This invention provides beta-carotene nanoemulsion with high internal phase, preparation method and application thereof, belonging to the technical field of food processing. The preparation method of high internal phase beta-carotene nanoemulsion provided by the invention comprises the following steps: (1) mixing water-soluble protein carrier with water to obtain water phase of wall material; (2) mixing beta-carotene and medium-chain triglyceride to obtain core oil phase; (3) mixing the water phase of the wall material and the oil phase of the core material to obtain crude emulsion; mixing the crude emulsion and stabilizer, and sequentially carrying out high-pressure homogenization treatment, high-pressure micro-jet treatment and pasteurization treatment to obtain high internal phase beta-carotene nano emulsion. The high internal phase beta-carotene nano-emulsion prepared by the preparation method provided by the invention has excellent micro-stability, no stratification, good storage stability and high encapsulating rate and bioavailability of beta-carotene in the high internal phase beta-carotene nano-emulsion.

21: 2022/06031. 22: 2022/05/31. 43: 2022/09/09
51: C12P

71: Zhejiang Gongshang University

72: Zhang Yi Qi

54: PREPARATION METHOD OF FISH SKIN/SCALE COLLAGEN PEPTIDE

00: -

This invention provides preparation method of fish skin/scale collagen peptide that comprises the following steps: using at least either fish skin or fish scales as raw materials; cleaning raw materials, removing impurities, and carrying out steam explosion treatment; carrying out water extraction, carrying out enzymolysis and enzyme inactivation on that steam exploded raw material, and filtering to obtain crude enzymatic hydrolysates; ultrafiltering the crude enzymatic hydrolysates by an ultrafiltration membrane, and obtaining the permeate as refined liquid; first, concentrating that refined liquid in vacuum until the solid content is 25%-40%, then spray drying, the average relative molecular weight of the obtained collagen peptide is less than 3 kDa, and the content of protein exceeds 95%. The invention can solve the problem of fish skin and scale utilization in fish processing, and further improve the added value of aquatic product processing leftovers.

21: 2022/06032. 22: 2022/05/31. 43: 2022/09/09
51: E21D; F42D

71: Beijing University of Technology, BCEG Road and Bridge Construction Group Co.,Ltd.

72: HU Yu, GAO Wenxue, ZHANG Yanlong, FAN Chuanchao, ZHANG Xiaojun, LI Xiaoshuai

54: DEVICE FOR MEETING REQUIREMENTS OF EXPLOSIVE CENTERING AND INTERVAL CHARGING IN BLAST HOLE AND APPLICATION METHOD THEREOF

00: -

The invention relates to a device for meeting requirements of explosive centering and interval charging in blast hole and an application method thereof, belonging to the technical field of blasting. The device comprises a short barrel for fixing explosives and a long pipe for controlling the charge interval length; the short barrel is divided into an upper part and a lower part, the lower part is a hollow interlayer barrel; the barrel is provided with six round holes; the upper part has a wedge-shaped cone opening structure; the top end of the short barrel is provided with three fixed barbs; the bottom end is fixedly connected with the barrel; the bottom of the barrel is provided with three fixed barbs; the long pipe is a solid round pipe, and fixed rings are

arranged at both ends of the round pipe; when assembling, the emulsion explosive cartridge is inserted from the lower part of the short barrel, and the nail is inserted into the round hole of the short barrel body to fix the short barrel and the explosive, and the rings at both ends of the long pipe are respectively fastened with the barbs at both ends of the fixed short barrel, and the connected short barrel and the explosive are sent into the blast hole through the long pipe, and the next fixed short barrel and the explosive are continuously connected, and so on. According to the invention, the position of the cartridge in the blast hole is effectively limited, the design requirements are fully met, the energy utilization rate of the explosive is improved, the blasting effect is improved, and the ideal fine blasting target is achieved.



21: 2022/06033. 22: 2022/05/31. 43: 2022/09/09
51: A01G

71: Animal Husbandry and Veterinary Research Institute of Gansu Province

72: LV Yongfeng, WANG Ke, WANG Yanyan

54: A LARGE-SCALE REPRODUCTION METHOD OF MEAT SHEEP WITH HIGH FECUNDITY

00: -

The invention discloses a large-scale reproduction method of meat sheep with high fecundity, which comprises the following steps: S1, selecting excellent rams and ewes; S2, feeding before mating: within 1.5-2 months before mating, 0.5-1kg/ growth feed is fed every day, and the growth feed comprises the following components in percentage by weight: 50 percent-66 percent of alfalfa, 3 percent-11 percent of wheat bran, 15 percent-20 percent of bean dregs, 14 percent-18 percent of corn, 1 percent-3 percent of calcium hydrogen phosphate, 1 percent-2 percent of salt and 0.5 percent-1.5 percent of compound additive.

According to the invention, the growth rate of meat sheep is greatly increased through the reasonable ratio of growth feed before reproduction, the reproductive potential of reproduction meat sheep can be fully improved, and the number of flocks can be increased; and meanwhile, artificial reproduction by using the artificial reproduction method can accurately grasp the mating situation, give full play

to the role of excellent reproduction rams, and greatly improve the large-scale reproduction efficiency of rams and ewes.

S1, Selecting excellent rams and ewes;



S2, Feeding before mating: within 1.5-2 months before mating, 0.5-1kg/ growth feed is fed every day, and the growth feed comprises the following components in percentage by weight: 50%-66% of alfalfa, 3%-11% of wheat bran, 15%-20% of bean dregs, 14%-18% of corn, 1%-3% of calcium hydrogen phosphate, 1%-2% of salt and 0.5%-1.5% of compound additive.



S3, Artificial mating: during mating, the trained ewe is used to collect the semen of the ram, then diluent is added to the obtained semen, and the dilution multiple is controlled to be 20 times, and the semen whose diluted semen activity is above 0.8 is selected for later use, and then 24 hours after the ewe is fed with oestrus drugs, the semen to be used is injected into the cervix 1-1.5cm by cervical insemination;



S4, Feeding pregnant ewes: feed pregnant ewes with 1-2kg/ ewe every day, and the pregnant ewes are fed with the following feed by weight percentage: 5%-8% of milk, 20%-25% of eggs, 28%-30% of carrots, 7%-10% of corn and the balance of green hay, and the daily grazing time is no more than 3h.

21: 2022/06034. 22: 2022/05/31. 43: 2022/09/09
51: C12N; C12Q

71: JIANGXI AGRICULTURAL UNIVERSITY

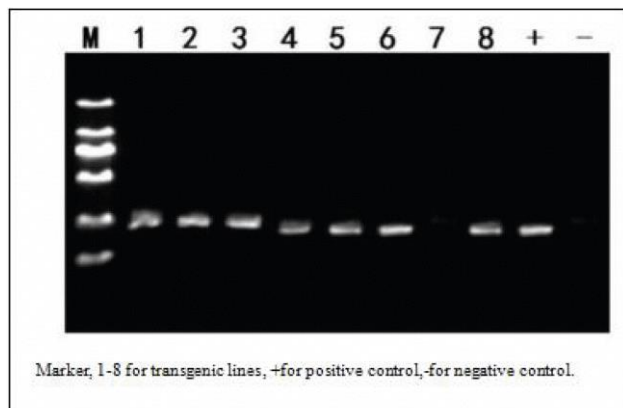
72: ZHOU Dahu, ZHOU Xinyi, LIU Lin, XU Jie, HE Haohua, ZHU Wanggang, GU Liquan, FU Junru, CAI Yicong, OUYANG Linjuan

54: TWO OLIGO DNA GROUPS WITH SITE-DIRECTED KNOCKOUT OF SGRNA OF RICE OSPLS4 GENE

00: -

The invention provides a sgRNA which knockout rice OsPLS4 gene. According to rice OsPLS4 gene, the sgRNA sequence based on CRISPR/Cas9 was designed, and the DNA fragment containing the coding sgRNA sequence was connected to the vector carrying CRISPR/Cas9. The rice callus was transformed by Agrobacterium-mediated method, and the knock-out of rice OsPLS4 gene was realized through screening and identification. Thereinto, the nucleotide sequence of sgRNA action site was shown in SEQ ID NO.1. The OsPLS4 knockout mutant was obtained by editing rice endogenous gene OsPLS4 with CRISPR/Cas9 technology. The sgRNA prepared by the invention can efficiently, quickly and accurately target rice OsPLS4 gene, and had certain significance in basic research (molecular mechanism of rice premature senescence) and

production practice (improvement of rice premature senescence varieties and stress-resistant breeding).



21: 2022/06036. 22: 2022/05/31. 43: 2022/09/09
51: A01B

71: University of South China

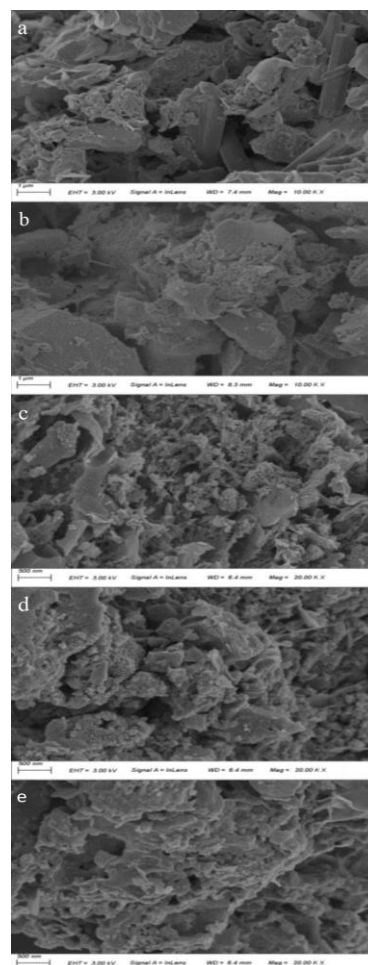
72: Lei Gao, Jiajie Wang, Jinke Xie, Lei Yi, Jingwen Dai, Jiang Li, Minyue Ji, Zejun Liu, Suwen Wu

54: PREPARATION METHOD OF GDOX-CEOX MODIFIED SLUDGE-STRAW BIOCHAR CATALYST AND APPLICATION OF CATALYST IN FORMALDEHYDE REMOVAL

00: -

The present disclosure relates to a preparation method of a GdOx-CeOx modified sludge-straw biochar catalyst and application of the catalyst in formaldehyde removal. The catalyst comprises a carrier and active components, the carrier is biochar prepared from sludge and straw through co-pyrolysis, and the active components are double-rare-earth metal composite oxides such as GdOx-CeOx. The preparation method of the catalyst comprises: (1) drying, smashing and sieving sludge, completely washing, drying and sieving rice, wheat, corn and other straw, and sufficiently stirring and mixing the above two precursors; (2) adding the above mixture into a ZnCl₂ solution to be activated for a day; (3) after drying the activated material in step (2), calcining the activated material in an oxygen-free or oxygen-deficient atmosphere to prepare a sludge-straw biochar carrier; and (4) preparing suitable double-active-component precursor mixed liquor (taking GdOx and CeOx precursors Gd(NO₃)₃·6H₂O and Ce(NO₃)₃·6H₂O as an example), taking the carrier in step (3) to be isovolumetrically impregnated in the above precursor solution, and drying and calcining under N₂ protection after ultrasonic treatment to prepare the

GdOx-CeOx modified sludge-straw biochar catalyst. The catalyst of the present disclosure has excellent HCHO removal performance and good industrial application prospects.



21: 2022/06037. 22: 2022/05/31. 43: 2022/09/06
51: A01B; A01G

71: INSTITUTE OF AFFORESTATION AND DESERTIFICATION CONTROL, XINJIANG ACADEMY OF FORESTRY, XINJIANG YONGLIN AQUATIC PLANT ECOLOGICAL RESEARCH CO., LTD., QITAI COUNTY GUOPING BENTONITE MINE

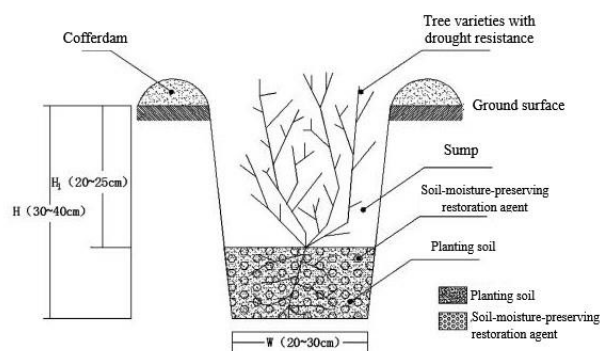
72: LIU, Yongping, HE, Miao, LIU, Liyan, WU, Tianzhong, HUANG, Lanbing, GOU, Lin, HUANG, Jie, ZHENG, Hongming, LIU, Jinqi, LU, Xueliang, SHEN, Qiang

54: REVEGETATION METHOD FOR NON-IRRIGATED AFFORESTATION IN ARID DESERT AREA

00: -

Disclosed is a revegetation method for non-irrigated afforestation in an arid desert area, comprising the

steps: selecting mainly native drought-enduring plants in an arid desert area; digging planting holes, applying a soil-moisture-preserving restoration agent mixed with natural sodium bentonite and weathered coal into the holes; planting the vegetation in the holes, backfilling with fine soil, treading around roots to form sumps; after planting, fully irrigating root-fixing water once, without irrigation in a later stage. The method has applicability in afforestation in arid desert areas. The soil-moisture-preserving restoration agent and the sumps enhances ecological restoration performance in the desert area, so that a survival rate of planted seedlings reaches 80% plus; a preservation rate can reach 75% plus; growth of nursery stock can be increased; afforestation cost can be reduced. The method solves the problem of difficult revegetation of non-irrigated afforestation under a natural condition of annual precipitation of above 50mm.



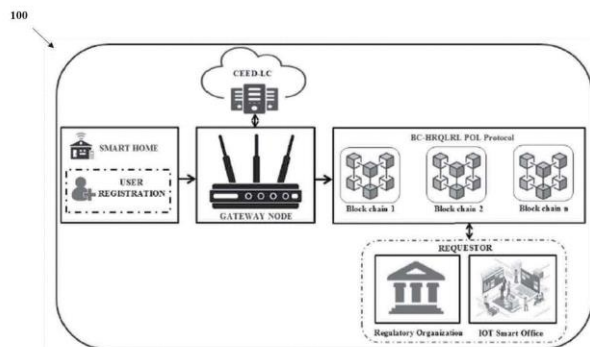
21: 2022/06038. 22: 2022/05/31. 43: 2022/09/01
51: A01G; A01N
71: XINJIANG YONGLIN AQUATIC PLANT ECOLOGICAL RESEARCH CO., LTD., INSTITUTE OF AFFORESTATION AND DESERTIFICATION CONTROL, XINJIANG ACADEMY OF FORESTRY
72: LIU, Yongping, LIU, Liyan, WU, Tianzhong, HE, Miao, HUANG, Lanbing, GOU, Lin, ZHENG, Hongming
54: MINERAL ROOT DIPPING AGENT FOR TRANSPLANTING LARGE-MEDIUM-DIAMETER NURSERY STOCK FROM SAND EXCAVATION AND APPLICATION THEREOF

00: -
Disclosed is a mineral root dipping agent for transplanting large-medium-diameter nursery stock from sand excavation composed of: 120-140 parts of natural sodium bentonite mineral powder, 90-100 parts of potassium fulvic acid mineral powder, 4-6

parts of sodium polyacrylate resin, and 2-3 parts of a microbial agent; The mineral root dipping agent forms a strong protective film on a root system of the nursery stock, preventing the nursery stock from losing water and nutrients due to bad climates, long-term storage, long-distance transportation etc.; effects of water and fertilizer retention are good; after planting, the mineral root dipping agent promotes development of the root system, and improves resilience and regeneration ability of branches and leaves to grow vigorously; a survival rate of the nursery stock can be increased to more than 95% after root dipping and transplanting.

21: 2022/06039. 22: 2022/05/31. 43: 2022/09/09
51: G06F
71: Manipal University Jaipur
72: Dr. Arjun Singh
54: A HIGHLY REGULARIZED Q-LEARNING REINFORCEMENT MODEL TO PREVENT DATA FORGERY
00: -

The present invention relates to a highly regularized q-learning reinforcement model (100) to prevent data forgery. The highly regularized q-learning reinforcement model (100) to prevent data forgery comprises a registration unit, a gateway unit, a Cipolla's Extended Euclidean Distance Algorithm Based Lattice Cryptosystem (CEED-LC), and a block chain-based Highly Regularized Q-Learning reinforcement learning-based proof of learning (BC-centered HRQLRL PoL) unit, and a requestor unit. The BC-centered HRQLRL PoL protocol is created by the work for the SH gateway to evade data forgery. The model (100) provides security against the vulnerabilities together with a secured centralized smart home gateway under CEED-LC's and BC- HRQLRL PoL protocol's development. Moreover, the user's self-authentication is rendered by the model (100) and it also calculates within lesser usage along with lesser time.



21: 2022/06040. 22: 2022/05/31. 43: 2022/09/09

51: G01N

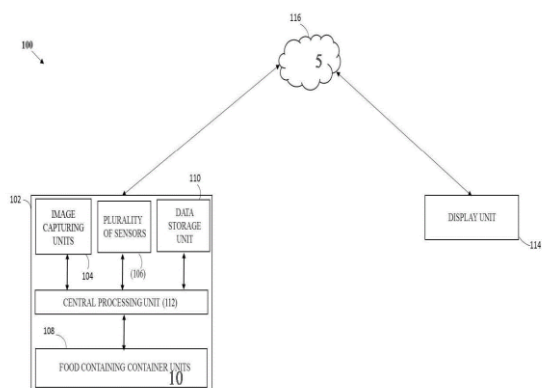
71: Manipal University Jaipur

72: Dr. Geeta Rani, Dr. Vijaypal Singh Dhaka

54: AN IOT BASED FOOD QUANTITY AND INGREDIENT PREDICTING SYSTEM

00: -

The present invention relates to an IoT-based food quantity and ingredient predicting system (100). The system (100) comprises one or more image capturing units (104), a plurality of sensors (106), one or more food containing container units (108), a data storage unit (110), a central processing unit (112), and a display unit (114). The central processing unit (112) is configured to control the function performed by one or more image capturing units (104), a plurality of sensors (106), one or more food-containing container units (108), and a data storage unit (110). The display unit (114) is operationally connected with the central processing unit (112). The display unit (114) is configured to display and monitor the prediction of the food quantity and ingredients required in the events in real time.



21: 2022/06075. 22: 2022/06/01. 43: 2022/08/26

51: G06K

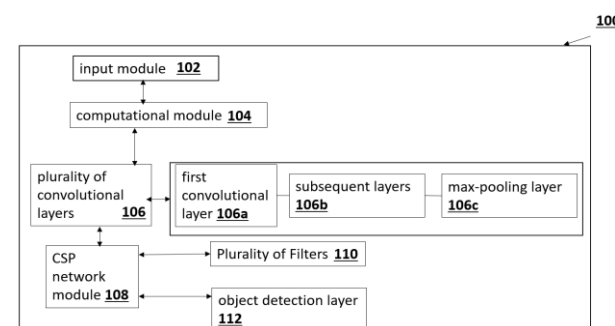
71: National Institute of Technology Calicut, Amudhan Nagendra Raj, Sudheer Attadappa Puthan Veetil, Lijiya Arakkal

72: National Institute of Technology Calicut, Amudhan Nagendra Raj, Sudheer Attadappa Puthan Veetil, Lijiya Arakkal

54: CNN BASED METHOD AND SYSTEM FORB REAL-TIME OBJECT DETECTION WITH FEATURE REUSE AND CSP NET TO REDUCE COMPUTATIONS

00: -

A device (100) for Real-Time Detection of Small-Size Objects, comprises of: an input module (102) for acquiring a plurality of images of an arbitrary size; a computational module (104) comprising of a plurality of convolutional layers (106) to generate atleast a feature map, wherein a first feature map generated is transferred to subsequent layers (106b) of the plurality of convolutional layers (106), wherein a plurality of row is associated with the plurality of the convolutional layers (106) such that each of the plurality of row comprises of the feature map along with a max-pooling layer (106c); and a cross-stage partial (CSP) network module (108), wherein only half of the feature maps are subjected to convolution, thus reducing computations load of the computational module (104), two object detection layer (112) for detecting the small-size objects, wherein a segment of the large size object is differentiated from the small-size objects.



21: 2022/06077. 22: 2022/06/01. 43: 2022/08/26

51: B62D

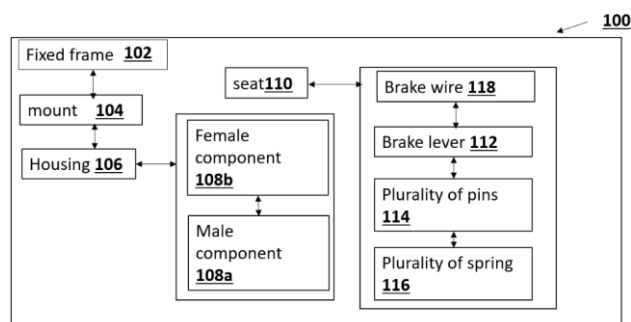
71: Manoj George Tharian, Manu Joseph, Jobins Devasia, Joel Sebastian, Nikhil Pradeep, Sachu Kurian

72: Manoj George Tharian, Manu Joseph, Jobins Devasia, Joel Sebastian, Nikhil Pradeep, Sachu Kurian

54: AN AUXILLIUM RATCHET APPARATUS FOR WHEELCHAIR

00: -

An auxillium ratchet apparatus (100) for a wheelchair, comprises of: a fixed frame (102) for detachably securing a mount (104); a housing (106) comprising of a male component (108a) and a female component (108b), wherein a seat (110) is locked and locked at a first user desired height and a second user desired height respectively upon coinciding of the female component (108b) with the male component (108a), a plurality of pins (114) passes concentrically between the male component (108a) and the mount (104) to support a load; and a plurality of spring (116) arranged on each of the plurality of pins (114) to apply pressure to the male component (108a) allowing the male component (108a) to return to a first position from a second position.



21: 2022/06083. 22: 2022/06/01. 43: 2022/08/26
51: B25J

71: Lingnan Normal University

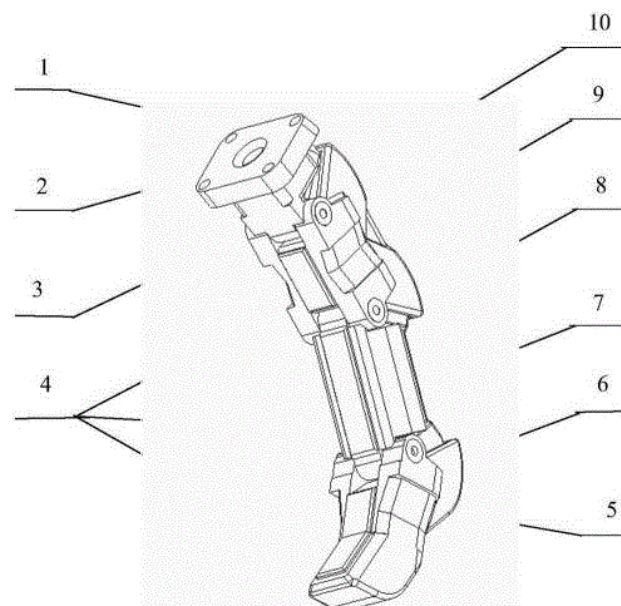
72: Qichao Li

54: FLEXIBLE ROBOT FINGER DEVICE

00: -

The invention discloses a copying underactuated pneumatic robot finger device which can be used for self adaptively enveloping and grabbing the appearance of a grabbed object and mainly solves the technical problem of product damage caused by repeated single action of the original mechanical structure. The copying underactuated pneumatic robot finger device comprises a finger bottom joint, a front joint, a middle joint, an end joint, a power generation mechanism and a return mechanism, wherein the power generation mechanism comprises a high elasticity expandable latex tube and an inner cavity of a joint air chamber; and the return mechanism comprises a stretchable rubber rope and a return covered channel. According to the copying underactuated pneumatic robot finger device, the

latex tube is boosted to expand to extrude the joints to rotate so that underactuated grabbing is realized. The device is reasonable and simple in structure, convenient to operate, small in size, light in weight, low in production and maintenance costs and wide in application prospect.



21: 2022/06084. 22: 2022/06/01. 43: 2022/08/26
51: H04L

71: Hunan Agricultural University, LIU Bo

72: LIU Bo, HUANG TianTian, Deng Mengyao

54: A LIVE STREAMING ALGORITHM AND APPLICATION METHOD FOR RURAL EMERGENCY BROADCASTING

00: -

The present invention relates to the field of rural emergency broadcasting and aims to provide a convenient, low latency and high-efficiency method of rural emergency broadcasting. The invention is based on the existing village sound rural intelligent emergency broadcasting system, combined with the streaming live media technology and broadcasting terminal sub-region grouping management method, using priority-based emergency direct broadcast tasks queuing distribution algorithms to solve the problem of multiple direct broadcasts preempting broadcasting resources, realizing direct broadcast to broadcasting terminals in multi-region and multi-mode of Web pages and mobile phones, and providing timely and stable emergency warning broadcast notification service.

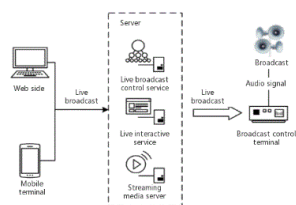
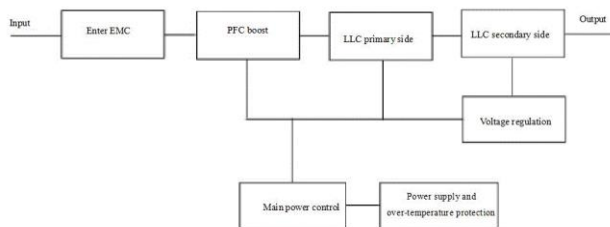


Figure 1 Flowchart of the rural emergency streaming media direct broadcasting algorithm and application method of the present invention



21: 2022/06085. 22: 2022/06/01. 43: 2022/08/26
51: H02M
71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: WANG Yanjun, WU Wenzheng, ZHAO Danni, LI Chengkui, CHEN Pingping, FU Weimin, LIU Zhipeng
54: HIGH-POWER POWER SUPPLY WITH OVERCURRENT VOLTAGE REDUCTION

00: -
The invention discloses a high-power power supply with overcurrent voltage reduction, which comprises an input EMC filter module, a PFC boost module, a main power control module, an LLC primary side module, an LLC secondary side module, a voltage adjustment module and a power supply and overtemperature protection module; the input EMC filter module, PFC boost module, main power control module, LLC primary side module, LLC secondary side module, voltage regulation module and power supply and over-temperature protection module are connected in sequence; the input EMC filter module is used for filtering input interference and reducing harmonics; PFC boost module, used to boost voltage topology and reduce interference; the main power control module is used for controlling the power of the DC voltage; LLC primary module, used for the conversion of primary power; LLC secondary module for voltage and power output; the voltage adjusting module is used for adjusting the voltage when the circuit is running; and the power supply over-temperature protection module is used for providing electric energy and over-temperature protection circuit.

21: 2022/06086. 22: 2022/06/01. 43: 2022/08/26
51: C12P

71: Zhejiang Gongshang University
72: Zhang Yi Qi

54: METHOD FOR EXTRACTING FISH SCALE COLLAGEN PEPTIDE POWDER AND HYDROXYAPATITE

00: -
This invention provides method for extracting fish scale collagen peptide powder and hydroxyapatite, which comprises the following steps: washing and removing impurities from fish scales; the clean fish scales are subject to steam explosion treatment under that pressure of 0.4-2.0 MPa, and then subjected to hot water extraction, enzymolysis, enzyme inactivation and filtration to obtain crude enzymatic hydrolysates; carrying out vacuum concentration on the crude enzymatic hydrolysates and spray drying to obtain fish scale collagen peptide powder; the filtered residue is dried, crushed and calcined to obtain hydroxyapatite. In this method, the fish scales were treated by steam explosion, and softened at high temperature and high pressure, so as to simplify the extraction process and improve the extraction efficiency.

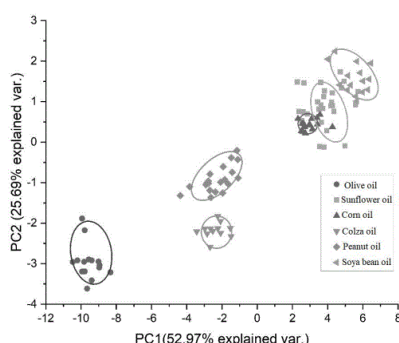
21: 2022/06087. 22: 2022/06/01. 43: 2022/08/26
51: G01N

71: Tianjin Customs Animal, Plant and Food Inspection Center
72: LOU, Tingting, MA, Xing, ZHANG, Hua, WANG, Yongfang, FANG, Fang, WANG, Liqiang, XIAO, Yabing, YANG, Shuang

54: ESTABLISHMENT METHOD OF OLIVE OIL IDENTIFICATION MODEL AND METHOD FOR IDENTIFYING OLIVE OIL

00: -
The present disclosure belongs to the technical field of edible oil detection, and provides an establishment method of an olive oil identification model and a method for identifying olive oil. In the establishment method of the present disclosure, a

low frequency nuclear magnetic resonance spectrum of a pure olive oil sample is obtained; a linear interpolation algorithm is used to unify horizontal coordinates of the low frequency nuclear magnetic resonance spectrum to obtain a standard chemical displacement; denoising and extracting are performed on the standard chemical displacement of the pure olive oil sample to obtain a feature band chemical displacement; and PCA-SVM is used for modeling based on the feature band chemical displacement to obtain the olive oil identification model.



21: 2022/06088. 22: 2022/06/01. 43: 2022/09/09
51: E04B

71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.

72: Zhang Xuan, Han Junyan, Liu Feihu, Li Yan, Li Yufeng, Ye Taoping, Sun Weizhen

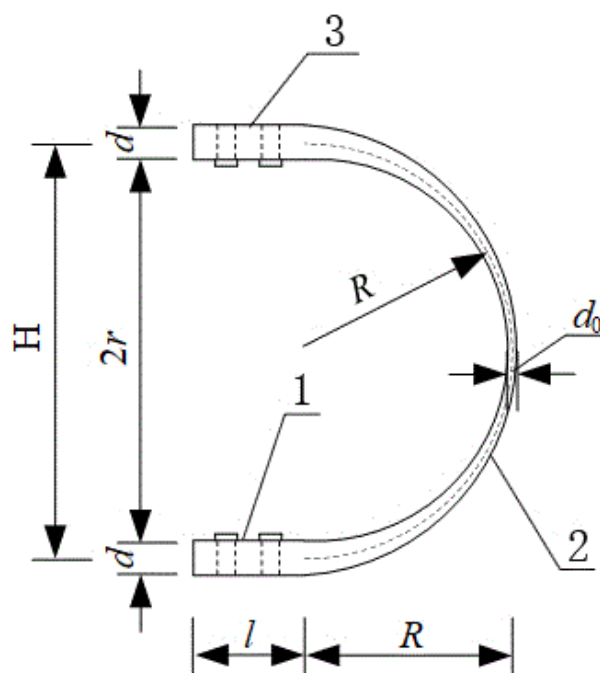
33: CN 31: 202210359032.5 32: 2022-04-07

54: MULTI-SECTION SIMULTANEOUSLY YIELDING METAL DAMPING DEVICE

00: -

The invention discloses a multi-section simultaneously yielding metal damping device which is connected with a damping support. The multi-section simultaneously yield metal damping device comprises a plurality of metal dampers, wherein each metal damper comprises a first connected section, a variable section and a second connecting section. One end of the first connecting section is fixedly connected with the lower part of the upper connecting plate. One end of the variable cross-section section is fixedly connected with the other end of the first connecting section. One end of the second connecting section is fixedly connected with

the upper part of the lower connecting plate, and the other end of the second connecting section is fixedly connected with the other end of the variable cross-section section. The section size of the variable section section is changed according to the stress change of the section, and the change form of the section size adopts a cos function. $f(\Theta) = d - kd \cos(\Theta)$, thus enabling simultaneous yielding of multiple sections. Therefore, the multi-section simultaneously yielding metal damping device can simultaneously yield multiple sections, dissipate earthquake energy and provide larger deformation.



21: 2022/06089. 22: 2022/06/01. 43: 2022/08/26
51: A62C

71: GUIZHOU UNIVERSITY, Guizhou Zhuocheng Planning and Design Co., Ltd.

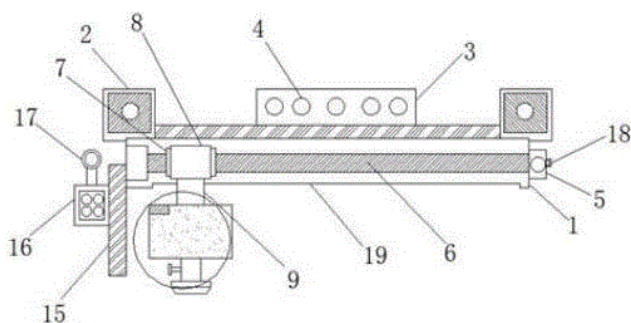
72: TIAN Cong, ZHAO Yuqi, YU Yafang, ZHANG Hua, WANG Yan, FENG Yuyang

54: FIRE-PROOF SEPARATION WATER CURTAIN SYSTEM IN TRADITIONAL VILLAGES

00: -

The invention discloses a fire-proof separation water curtain system in traditional villages, which comprises a shell, wherein the left and right sides of the shell are fixedly connected with a fixing plate A, and the middle part of the top of the shell is fixedly connected with a fixing plate B; the surfaces of the fixing plate A and fixing plate B are both fixedly

provided with small holes; the right side end of the shell is fixedly provided with a motor, and the top end of the motor is provided with a threaded rod; the outer side wall of the threaded rod is connected with a threaded sleeve in a threaded manner, and the outer side wall of the threaded sleeve is fixedly provided with a bearing sleeve; the bottom end of the bearing sleeve is fixedly connected with a connecting rod and the bottom end of the connecting rod is fixedly connected with a water tank; the bottom end of the water tank is connected with a communication pipe in an intercommunication way; the left end of the shell is fixedly connected with a supporting plate, and the left end of the supporting plate is fixedly provided with an alarm lamp, and the nozzle can move back and forth, thus greatly increasing the fire extinguishing range.



21: 2022/06090. 22: 2022/06/01. 43: 2022/08/26
51: A62C

71: GUIZHOU UNIVERSITY, Guizhou Zhuocheng Planning and Design Co., Ltd.

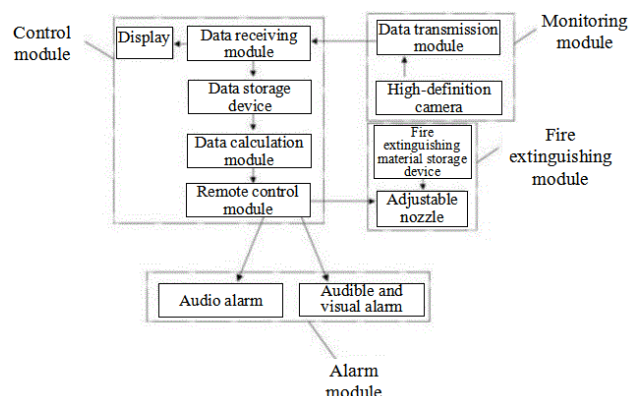
72: YU Yafang, ZHAO Yuqi, TIAN Cong, ZHANG Damin, ZHANG Hua, CHEN Yuchuan

54: UNMANNED AIRBORNE FIRE EXTINGUISHING DEVICE FOR BOTH LAND AND AIR IN TRADITIONAL VILLAGES

00: -

The invention discloses an unmanned airborne fire extinguishing device for both land and air in traditional villages, which is characterized by including a control module, a monitoring module and a fire extinguishing module; the monitoring module is mounted on a body of an unmanned aerial vehicle (UAV), and is mainly used to shoot a fire source position and a fire scene, and send captured data to the control module; the control module is mainly composed of five parts: a data receiving module, a data storage device, a display, a data calculation module and a remote control module; the data

receiving module receives the fire source position detected by the monitoring module and sends the received fire source position to the data storage device; after receiving the fire source position, the data storage device synchronously transmits the fire source position and a village map stored in the device to the data calculation module. The invention is able to quickly reach the fire source position and enable relevant departments to check the fire situation through a cloud platform.



21: 2022/06091. 22: 2022/06/01. 43: 2022/08/26

51: C05G

71: Qingdao Agricultural University

72: YANG Hongbing, HU Yanjiang, ZHAO Fanggui, ZHANG Yanping, SONG Jinnan, WANG Yaqi, XU Xiaodong, WANG Zizhou

54: AMINO ACID SPRAYING METHOD FOR FIELD BUCKWHEAT

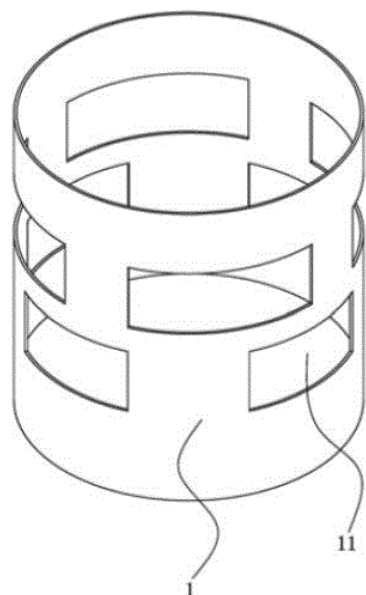
00: -

The invention discloses an amino acid spraying method for field buckwheat. In the invention, the field buckwheat is sowed by ridging and furrow drilling. Through spraying amino acids on the leaves of the buckwheat in the seedling stage and the flowering stage, specifically spraying 60 μM glutamic acid on the leaves of the common buckwheat and spraying 40 μM aspartic acid on the leaves of the Tartary buckwheat, the contents of calcium, zinc and protein of the harvested buckwheat seeds are significantly increased, and the nutritional value of the buckwheat is obviously improved, the rutin content is also significantly increased, the health care effect of the buckwheat is obviously enhanced, the buckwheat yield per mu in common land can be increased by 8% - 10%, the buckwheat yield per mu in drought land can be increased by about 20%, the buckwheat

yield per mu in saline-alkali land can be increased by more than 30%.

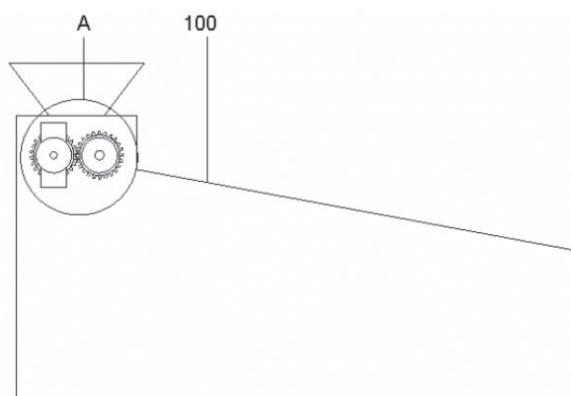
21: 2022/06092. 22: 2022/06/01. 43: 2022/09/09
51: A01K
71: Changdao County Changshan Seafood Co.,Ltd.
72: SONG, Zude, YUAN, Tingzhu, HU, Deyan, HOU, Jie, TANG, Yanli, LU, Xiaoguang, ZHANG, Qiaoying, WANG, Delian, WANG, HengYi, QIN, Jiankai
33: CN 31: 202110950695.X 32: 2021-08-18
54: HIGH-STABILITY ARTIFICIAL REEF
00: -

The present invention discloses a high-stability artificial reef, belonging to the field of marine ranching equipment, comprising a reef body. The reef body is a cylindrical structure with one end sealed at the bottom, and the cross-section of the reef body is arranged as a circle, a triangle or pentagon, or a hexagon and a polygon with more than six sides. According to the present application, the end of the reef body sealed at the bottom is placed downwards, and the bottom surface is in contact with the seabed to achieve the stability and reduce the subsidence of the reef. The cross-section of the reef is of various shapes and can be selected according to needs to adapt to different seabed topographies and sea current situations; for a reef body with a circle cross-section, the side wall is provided with a water passing hole.



21: 2022/06093. 22: 2022/06/01. 43: 2022/09/09
51: F23G
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: Zhang Xuan, Li Yufeng, Li Yan, Han Junyan, Wu Chaoping, Ma Jibo, Sun Weizhen
33: CN 31: 202221173361.2 32: 2022-05-16
54: MEDICAL WASTE TREATMENT SYSTEM IN GARBAGE TREATMENT PROCES
00: -

The invention provides a medical waste treatment system in a garbage treatment process, which relates to the technical field of medical waste treatment and comprises a solid treatment component and a liquid treatment component. The solid processing component comprises a shell, a crushing piece, a vibrating plate and a spraying piece, and the liquid processing component comprises a floor drain and a purifying box. According to the invention, the vibrating plate is utilized to automatically flatten medical debris, so that the spraying of a disinfectant is more uniformly received, and the disinfection effect is improved; and the floor drain is arranged at the tail end of the vibrating plate, so that the used disinfectant is collected, filtered, disinfected and sterilized again in the purification box, and the purified disinfectant returns to the spraying piece again, thereby realizing the recycling of the disinfectant.



21: 2022/06094. 22: 2022/06/01. 43: 2022/09/09
51: C22C
71: ZHENGZHOU UNIVERSITY OF AERONAUTICS
72: GAO, Yang, RONG, Zhizheng, MA, Jiajun, ZHANG, Shuo, SUN, Dejian, GAO, Ka, GUO, Xiaoqin, ZHANG, Xinyue

54: METHOD FOR PREPARING ALUMINUM MATRIX COMPOSITES

00: -

A method for preparing an aluminum matrix composite is disclosed. An aluminum alloy matrix, Al₂O₃P nanopowder, a milling body and a small amount of process control agent are mixed and then ball milled, and the process control agent is added in batches at a definite time during the ball milling process, which can effectively prevent the aggregation of nano-size reinforced particles and is conducive to the uniform distribution of nano-size reinforced particles in the aluminum alloy matrix such that the aluminum matrix composite has significantly dispersion-reinforced properties via a second phase. The process control agent is added in batches at a definite time to facilitate that the mixed powder achieves a balanced state of cold welding and crushing.

21: 2022/06095. 22: 2022/06/01. 43: 2022/09/09
51: G01P

71: Huzhou University

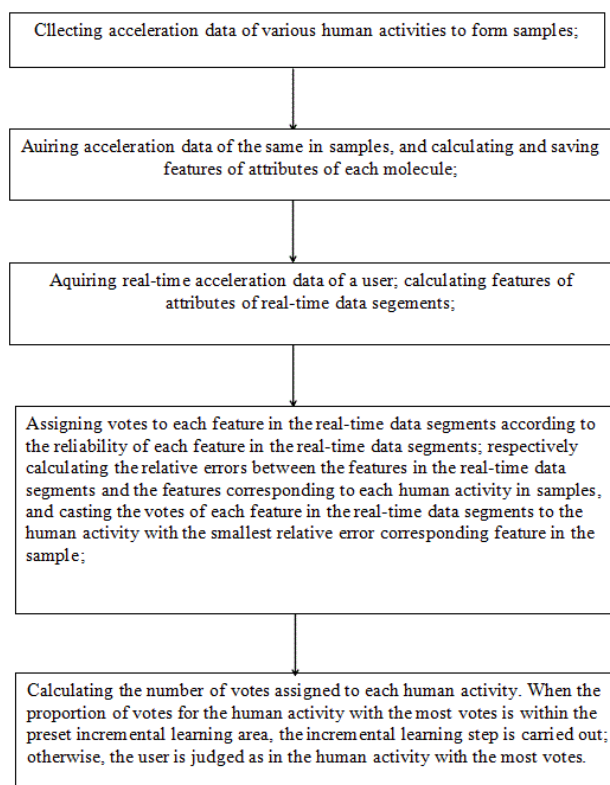
72: QI Hengnian, WU Xiaoping, LANG Qing

54: HUMAN ACTIVITY RECOGNITION METHOD BASED ON ACCELERATION DATA

00: -

A human activity recognition method based on molecular attributes provided by the invention comprises following steps: collecting acceleration data of various human activities; calculating features of samples; collecting acceleration data of users and calculating features in real-time data segments; assigning votes according to the reliability of each feature in the real-time data segments; respectively calculating the relative error between the features in the real-time data segments and the features corresponding to each human activity in samples, and casting the votes of the feature to the human activity with the smallest relative error; when the boundary is fuzzy, incremental learning applies. This algorithm considers acceleration data flow that constitutes a series of activities in three-dimensional space as material flow with different molecular structures, and extracts the physical features representing different activities. The closer the molecular attributes are, the more similar the activities are. Therefore, a reliability-based voting (RBV) scheme is designed to recognize human

activities according to the reliability of molecular attributes, which improves the recognition rate of activities and reduces the complexity of the method.



21: 2022/06096. 22: 2022/06/01. 43: 2022/09/09
51: A61K

71: Xinxiang Medical University

72: REN Feng, DU Ailin, BAI Ruiying, LUO Xiaoqiu, XIAO Ziyi, LIU Sichen, DONG Yan, LU Shijie, SHAO Tongze, XU Yiran, JIAO Bolin, CAO Bokai, ZHANG Hang, SUN Zhen

54: APPLICATION OF COMPOUND ANESTHETIC AND ITS PREPARATION METHOD IN ANIMAL MODEL OF HEMORRHAGIC SHOCK

00: -

The invention discloses an application of compound anesthetic and its preparation method in an animal model of hemorrhagic shock, belonging to the technical field of animal models. The compound anesthetic comprises 3.5 parts by weight of 20 percent urethane solution and 2 parts by weight of 2 percent pentobarbital sodium solution. The prepared compound anesthetic is used to anesthetize animals by the combination of auricular vein anesthesia, local anesthetic and abdominal anesthesia, and the establishment of hemorrhagic shock animal model can provide a new idea for clinical treatment of

traumatic shock patients complicated with severe infection.

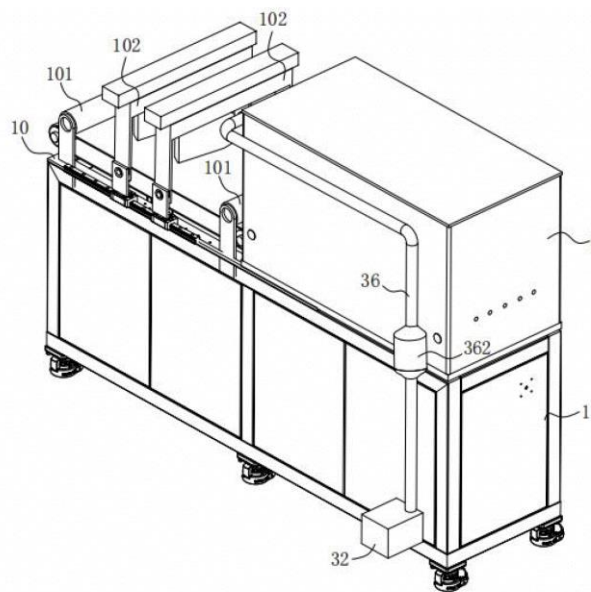
21: 2022/06097. 22: 2022/06/01. 43: 2022/09/09
51: A01F

71: NINGBO UNIVERSITY OF TECHNOLOGY
72: SHEN Yanyan, WU Hung-Chun, LI Hongkai,
CHEN Wenbo, WANG Zilin, YANG Chen, CAO
Yukun, LYU Yumeng, TONG Yinchun, DUAN Ye,
ZHENG Nan, ZHAO Runlei

54: STRAW COOLING EQUIPMENT

00: -

The invention relates to a straw cooling equipment. In the straw cooling equipment, a machine body is provided with a workbench, the workbench is provided with an installation opening, a water tank is arranged in the machine body and below the workbench, the top of the water tank has an opening opposite to the installation opening, a cooling box is arranged on the workbench and above the water tank, a spray system is arranged in the cooling box and arranged in the upper area of a cooling chamber. By setting the spray system in the cooling box, after entering the cooling chamber, the straws to be cooled can not only be cooled under the partial immersion of the cooling water in the cooling tank, but also be sprayed by the upper spray system, so that the whole batch of straws can be cooled comprehensively and evenly. Even if multiple straws enter the cooling chamber at the same time, the preset cooling effect can be achieved, which is very practical.



21: 2022/06098. 22: 2022/06/01. 43: 2022/09/09
51: E04B

71: China State Construction Engineering Corporation Limited, THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CSCEC-Taisei Construction, Ltd.

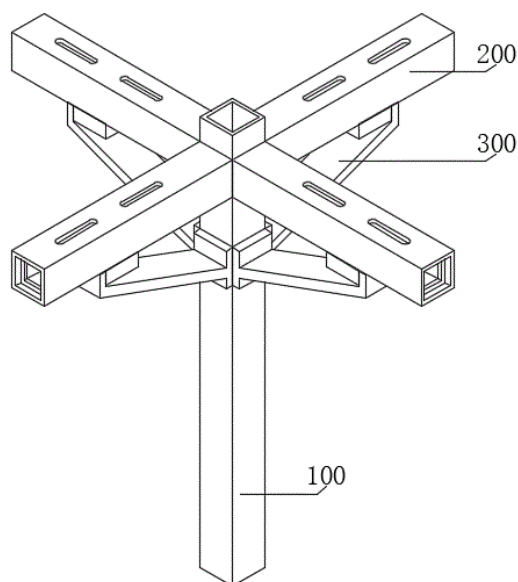
72: Gao Chao, Jiang Hao, Ding Fei

54: STRUCTURE SYSTEM OF STEEL STRUCTURE BUILDING AND ITS INSTALLATION METHOD

00: -

The invention discloses a structural system of a steel structure building and an installation method thereof, and belongs to the technical field of steel structure buildings. The structural system of the steel structure building comprises a steel column, a steel beam and an auxiliary supporting mechanism. The surface of the steel column is provided with a splicing groove; The end part of the steel beam is provided with a splicing steel plate which is spliced in the splicing groove in a sliding manner; The auxiliary supporting mechanism comprises a supporting piece and a clamping sleeve, wherein the clamping sleeve is arranged on the surface of a steel beam, a first clamping groove is formed in the surface of the clamping sleeve, a second clamping groove is formed in the surface of a steel column, and a first clamping block and a second clamping block are respectively arranged at two ends of the supporting piece. The steel beam and the supporting piece are arranged on the surface of the steel column, Then

the steel beam is fixed by pouring concrete, and the support can support the steel beam to improve the compression resistance of the steel beam and reduce the possibility of bending and deformation of the steel beam.



21: 2022/06099. 22: 2022/06/01. 43: 2022/09/09
51: B09C
71: Nanjing Institute of Environmental Sciences.MEE
72: GAN Xinhong, LIU Guoqiang, CHEN Yudong, XU Jian, MU Tingting, WANG Xiaohan

54: METHOD FOR REMEDIATION OF POLYCYCLIC AROMATIC HYDROCARBONS CONTAMINATED SOIL BY MICROBIAL BACTERIA COMBINED WITH HUMIC ACID

00: -

The invention discloses a method for remediation of polycyclic aromatic hydrocarbon contaminated soil by microbial bacteria combined with humic acid, which comprises the following steps: setting a remediation layer, that is, mixing compound microbial inoculum, modified humic acid, bacterial bran and ethylene diamine tetraacetic acid to prepare remediation liquid, sprinkling the remediation liquid on the remediation layer, introducing high-temperature steam, and treating the modified humic acid into humic acid by sodium p-hydroxybenzene sulfonate and methyl chlorosilane; plant plants after the layer is restored and the restoration is completed. According to the invention, a composite microbial agent combined with humic acid is adopted for remediation, wherein the humic

acid is first treated with sodium p-hydroxybenzene sulfonate, so that the thermal stability of the humic acid is improved, and then treated with methyl chlorosilane, so that the humic acid has good viscosity reduction and filtration reduction performance. After these two steps, the thermal stability, dispersibility and tolerance of humic acid in the soil are obviously improved. At this time, the degradation effect of PAHs and the adsorption effect of heavy metals can be significantly improved by cooperating with the metabolism of microbial agents and the desorption effect of high-temperature hot steam.

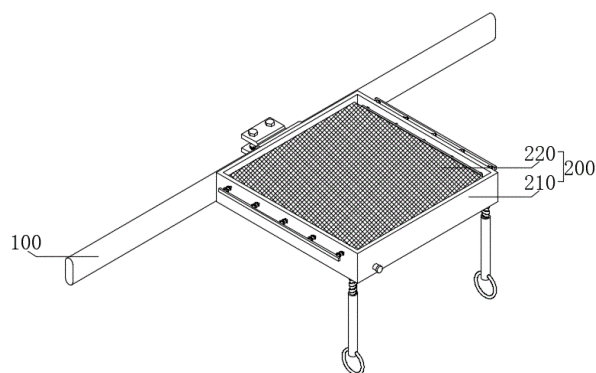
21: 2022/06100. 22: 2022/06/01. 43: 2022/09/09
51: E04G

71: China State Construction Engineering Corporation Limited, THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CSCEC-Taisei Construction,Ltd.
72: Yang Ruijun, Chen Xiang, Liu Jing

54: SAFETY PROTECTION DEVICE FOR STEEL STRUCTURE CONSTRUCTION

00: -

The invention discloses a safety protection device for steel structure construction, and belongs to the technical field of steel structure building construction. The safety protection device for steel structure construction comprises a slide rail, a protection mechanism and a buffer air bag. One side of the slide rail is provided with a positioning clamp; The protection mechanism comprises a protection plate and a protection net, a sliding sleeve is sleeved on the surface of the sliding rail,And the protective plate is fixed on the surface of the sliding sleeve, and the upper end surface of the protective plate is provided with a groove. According to the invention, the falling objects are prevented from moving through the protective plate and the protective net, so that workers can be prevented from being hit by the falling objects; and the elastic piece is matched with the protective net, so that a buffering effect can be achieved,In addition, the buffer airbag also has a buffer function, and can reduce the force of the falling object hitting the protective plate, thereby reducing the possibility that the protective plate is damaged.



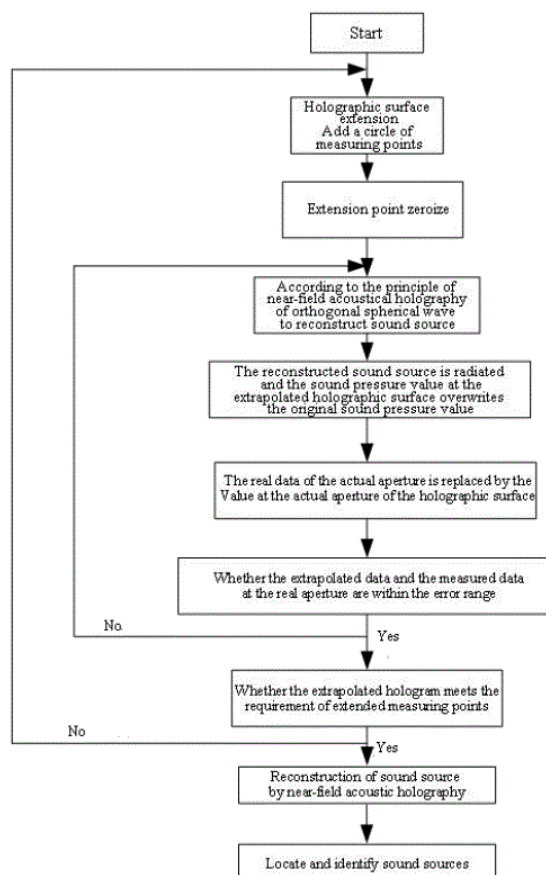
21: 2022/06101. 22: 2022/06/01. 43: 2022/09/09
51: G01H

71: Hunan University of Science and Technology
72: Xianglin Tian

54: A PATCH NEAR-FIELD ACOUSTICAL HOLOGRAPHY METHOD BASED ON TWO-STAGE ITERATION

00: -

The invention belongs to the technical field of near-field acoustic holography reconstruction, and specifically relates to a patch near-field acoustic holography method based on two-stage iteration. The invention proposes a patch near-field acoustic holography method based on two-stage iterative method, which introduces the effect of extrapolating error control data into the method based on orthogonal spherical wave patch near-field acoustic holography. It can effectively reduce the reconstruction error of the sound source by using the near-field acoustic holography method under the condition of limited measured aperture, and more accurately measure, locate and identify the surface sound source by using the limited measured aperture. Simulation results show that the improved patch near-field acoustic holography method can reconstruct the sound source more accurately and reduce the "window effect" error.



21: 2022/06120. 22: 2022/06/01. 43: 2022/07/12
51: H04L; G16Y; H04W

71: ENVISION DIGITAL INTERNATIONAL PTE.
LTD. , SHANGHAI ENVISION DIGITAL CO., LTD.
72: TANG, JIAN, MING, LANG

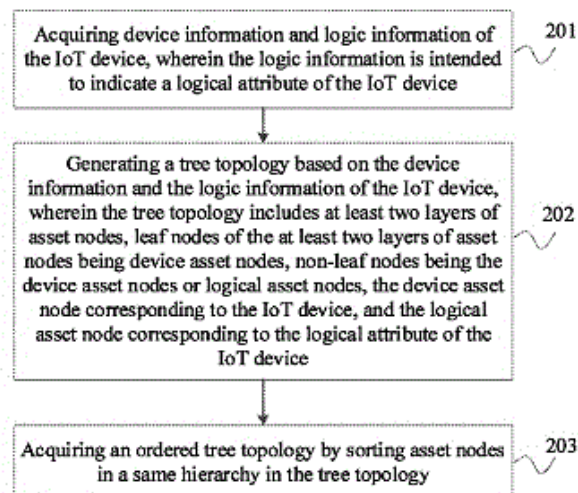
33: CN 31: 201911072652.5 32: 2019-11-05

54: METHOD AND APPARATUS FOR MANAGING IOT DEVICE, AND SERVER AND STORAGE MEDIUM THEREOF

00: -

The present disclosure provides a method and apparatus for managing an IoT device. The method includes: acquiring device information and logic information of the IoT device, wherein the logic information is intended to indicate a logical attribute of the IoT device; generating a tree topology based on the device information and the logic information of the IoT device, wherein the tree topology comprises at least two layers of asset nodes, leaf nodes of the at least two layers of asset nodes being device asset nodes, non-leaf nodes being the device asset nodes or logical asset nodes, the device asset node corresponding to the IoT device, and the logical asset node corresponding to the logical

attribute of the IoT device; and acquiring an ordered tree topology by sorting asset nodes in a same hierarchy in the tree topology.



21: 2022/06127. 22: 2022/06/01. 43: 2022/08/26

51: H05K

71: PÉREZ SANTAFÉ, Jesús

72: PÉREZ SANTAFÉ, Jesús, PÉREZ SANTAFÉ, Francisco

33: ES 31: P201930967 32: 2019-11-25

54: DEVICE AND METHOD FOR NEUTRALISING THE TRANSMISSION OF ELECTROMAGNETIC WAVES BY SHIELDING, BY MEANS OF A CONTAINER FOR THE HOLDING OF ELECTRICAL OR ELECTRONIC DEVICES WHICH ELECTROMAGNETICALLY PROTECTS THE SAME AND RENDERS THEM ELECTROMAGNETICALLY UNDETECTABLE

00: -

The device consists of a container manufactured from a metamaterial with the property of transparency to visible light, for the holding of electrical or electronic devices, which electromagnetically protects the same and renders them electromagnetically undetectable. The purpose of the device is to guarantee user confidentiality in the use of the electromagnetic waves associated with telecommunications, by means of the use of a type of container that encloses any type of telecommunication device or appliance, with the potentiality that the insertion thereof into said container prevents the detection by means of electromagnetic waves of said appliance, and therefore makes impossible the tracing of said

appliance by electromagnetic remote sensing means, including mobile telephony, radiofrequencies, or satellite telecommunication means such as GPS, Galileo, or other systems, without it being necessary to switch off said appliance beforehand.

21: 2022/06133. 22: 2022/05/31. 43: 2022/08/25

51: C09D

71: Neijiang Normal University, Qingdao Liangmeiyi Ceramic New Material Technology Co., Ltd.

72: PAN, Jie

54: WATERBORNE SUSTAINED-RELEASE RUST-CONVERSION ANTICORROSIVE PAINT

00: -

A waterborne sustained-release rust-conversion anticorrosive paint used for corrosion prevention of steel products is provided, consisting of: 50-80% waterborne organic resin, 1-20% rust-conversion agent, 0.1-5% film-forming assistant, 0.1-5% leveling agent, 0.1-5% wetting agent, 0-8% permeation promoter, 0.1-5% dispersant, 0.1-5% corrosion inhibitor, 1-15% ammonia water and 1-20% water by mass percent. The preparation method mainly includes three steps of rust-conversion agent capsule preparation, corrosion inhibitor capsule preparation and anticorrosive paint preparation. The coating is featured by low surface treatment requirements, good weather resistance, dynamic rust conversion, fast and stable rust conversion, excellent anti-corrosion effect, simple and convenient coating and thus, can be used by dip coating, brush coating, spray coating, roller coating and other ways for construction on the surface of rusted steel products after clearing away unstable attachments simply.

21: 2022/06142. 22: 2022/06/02. 43: 2022/09/01

51: G06Q

71: Qinghai University

72: Wu Guiling

54: ALPINE MARSH WETLAND SOIL AND ENVIRONMENT RESEARCH METHOD

00: -

The invention discloses a method for studying alpine marsh wetland soil and environment, which comprises the following steps: S1, set a plurality of soil collection points, and randomly collect soil by using local herdsmen nearby; S2, transporting the

soil collected in the step 1 to an urban area transportation station, and delivering the soil to a local urban area research Institute by a transporter; S3: The research Institute analyzes the cost composition and proportion of the soil, then uploads the data to the cloud database, and the cloud processor carries out data modeling. According to the method for studying the soil and the environment of the alpine marsh wetland, the cost of soil acquisition is reduced by means of unmanned aerial vehicle acquisition and cooperation with an express delivery station, and the difficulty of sustainable operation is low; and through cloud data transmission and cloud data analysis modeling, the data processing difficulty of a whole researcher is reduced, and the influence of data simplification is also avoided.

21: 2022/06143. 22: 2022/06/02. 43: 2022/09/01
51: C12N

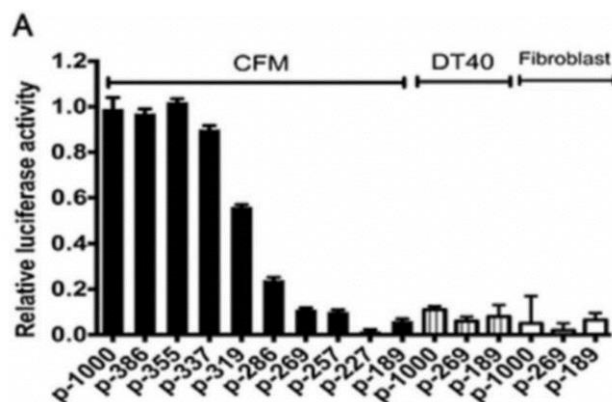
71: Affiliated Hospital of Guangdong Medical University, Shunde Women and Children's Hospital (Shunde Maternal and Child Healthcare Hospital), Guangdong Medical University

72: Ma Guoda, Wang Yajun, Liang Chunmei, Li You, Chen Riling

54: PROMOTER FOR SPECIFIC EXPRESSION OF GENE IN POULTRY SKELETAL MUSCLE AND APPLICATION THEREOF

00: -

This invention belongs to the field of biotechnology, particularly relates to promoter for specific expression of gene in poultry skeletal muscle and application thereof, the invention provides a promoter for specific expression of genes in poultry skeletal muscles, which comprises at least one e-box; The nucleotide sequence of E-box is CANNTG, wherein n is selected from A, T, C or G. The invention also provides an application of a gene promoter which can be specifically expressed in poultry skeletal muscle. The invention provides a promoter capable of specifically expressing genes in skeletal muscle, which can be used to construct various poultry skeletal muscle specific transgenic expression vectors, moreover, it can be used to start the high-abundance expression of genes in poultry skeletal muscle tissues or cells derived from skeletal muscle, or can be used to improve poultry meat quality and treat muscle-related diseases through genetic engineering technology.



21: 2022/06144. 22: 2022/06/02. 43: 2022/09/01
51: B22F

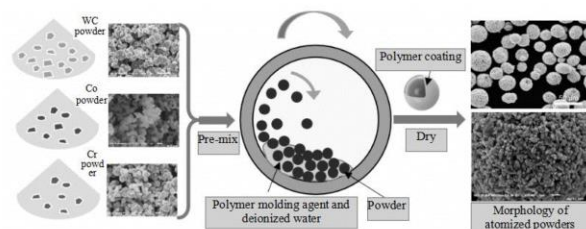
71: Henan University of Science and Technology, LUOYANG GOLDEN EGRET GEOTOOLS CO.,LTD.

72: MA Douqin, SONG Yahu, ZHANG Guofeng, XIE Jingpei, CHEN Yanfang, CHANG Qinghua, MAO Zhiping, LIU Pei, WANG Wenyan, WANG Aiqin

54: LOW-COST GRANULATION METHOD OF NANOCRYSTALLINE ULTRA-FINE SPHERICAL TUNGSTEN CARBIDE BASED COATING MATERIAL

00: -

The patent of this invention provides a low-cost granulation method of nanocrystalline ultra-fine spherical tungsten carbide based coating material. The invention solves the problems of poor working environment, low safety, high cost, low recycling rate and the like of the traditional granulation process. The granulation method in the invention has the outstanding advantages of clean, safe and environment-friendly working environment, 30 percent reduction in energy consumption and 40 percent reduction in processing cost, and the particle size of tungsten carbide based coating material is less than or equal to 20 micron, which is spherical and suitable for preparing ultra-fine/nanocrystalline tungsten carbide thermal spraying powder.



21: 2022/06145. 22: 2022/06/02. 43: 2022/09/01

51: F16H

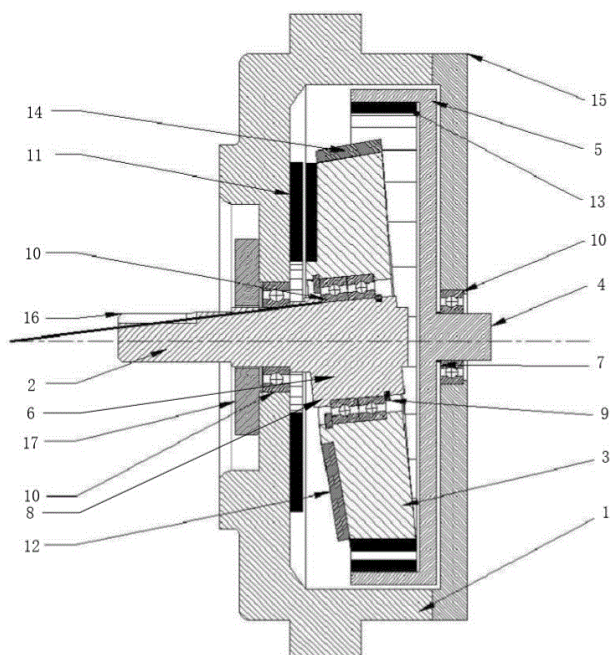
71: Fuzhou University

72: YAO Ligang, JIA Bingbing, WANG Zhenya, DING Jiaxin, LIU Jinglin, LI Gaosong

54: TWO-STAGE NUTATION REDUCER BASED ON MAGNETIC TRANSMISSION AND ITS WORKING METHOD

00: -

A two-stage nutation reducer based on magnetic transmission comprises a box body with an opening facing to the right, wherein the left side of the box body is provided with an input shaft, the right end of the input shaft is provided with a nutation magnetic gear for nutation movement, and the right side of the box body is provided with an output shaft; the left end of the output shaft is provided with a rotating disk matched with a nutation magnetic gear, the nutation magnetic gear is in transmission connection with the box body through a first magnetic transmission group, and the nutation magnetic gear is in transmission connection with the rotating disk through a second magnetic transmission group. The invention has compact structure and high reliability, and because of the two-stage nutation transmission, the transmission ratio is large and the transmission is stable; Non-contact transmission based on magnetic force has advantages of no wear, low vibration noise, no lubrication and overload protection.



21: 2022/06146. 22: 2022/06/02. 43: 2022/09/01

51: G06N

71: XINJIANG INSTITUTE OF ECOLOGY AND

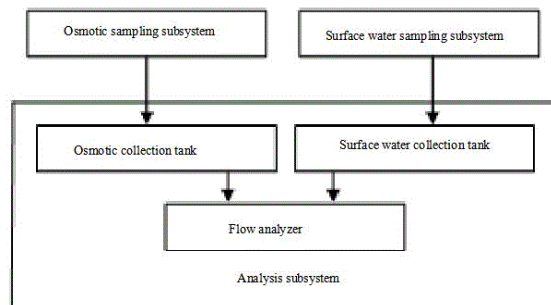
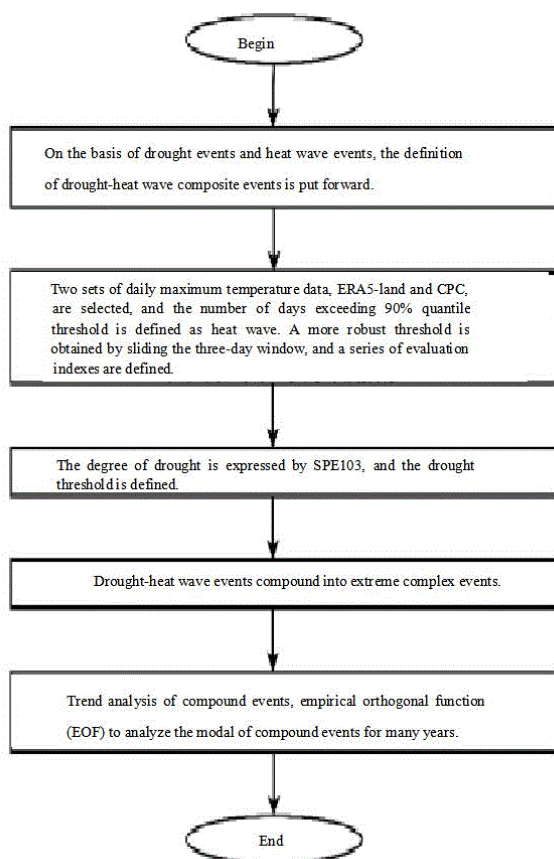
GEOGRAPHY CHINESE ACADEMY OF SCIENCES

72: LI Zhi, WANG Chuan, FANG Gonghuan, CHEN Yaning, DUAN Weili

54: METHOD FOR QUANTITATIVELY EVALUATING DROUGHT-HEAT WAVE COMPOUND EVENTS

00: -

The invention discloses a method for quantitatively evaluating drought-heat wave compound events, which comprises the following steps: obtaining drought events based on SPEI index; Based on the daily temperature data of ERA5-land and CPC, the heat wave event is obtained; Compounding the drought event and the heat wave event to obtain a drought-heat wave composite event; Based on Mann-Kendall test, Theil-Sens slope calculation and empirical orthogonal function, the quantitative evaluation results of drought-heat wave composite events are obtained. The method can be popularized to global areas, and provides a certain scientific reference for climate change evaluation, detection and prediction.



21: 2022/06147. 22: 2022/06/02. 43: 2022/09/01
 51: G01N
 71: Nanjing Institute of Environmental Sciences.MEE
 72: CHEN Yudong, GAN Xinhong, LIU Guoqiang, DENG Shaopo, LI Xuzhi, LIU Ru
54: NITROGEN AND PHOSPHORUS DETECTION SYSTEM IN PADDY FIELD

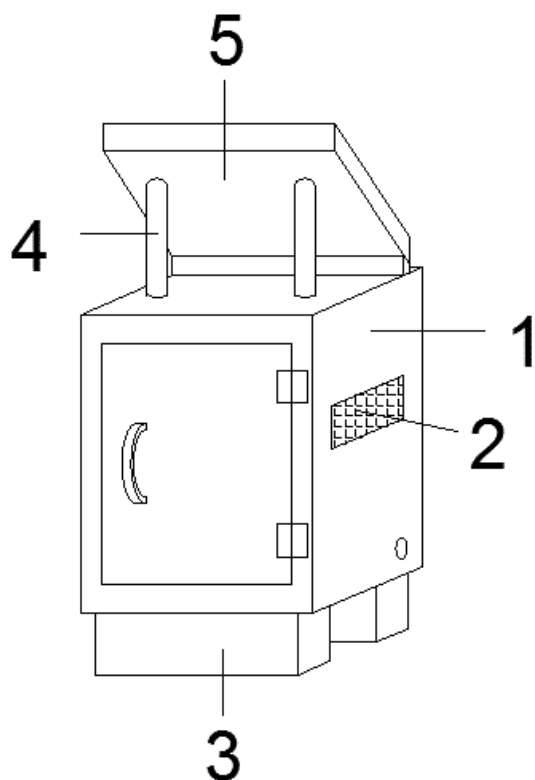
00: -
 The invention provides a rice field nitrogen and phosphorus detection system, which comprises a field surface water sampling subsystem for collecting field surface water solution; A leakage water sampling subsystem for collecting leakage water under the soil layer; the analysis subsystem is used to measure the indexes of water solution and leakage water on the field surface. The invention has the beneficial effects that automatic detection is realized, the labor input cost is reduced, and the errors often occurring in manual inspection are reduced. It makes it possible to detect nitrogen and phosphorus in large rice fields. The tested data can be used as rational data for fertilization research in paddy fields.

21: 2022/06148. 22: 2022/06/02. 43: 2022/09/01
 51: G08G

71: Lu'an Sancai Information Technology Co., Ltd
 72: Wang xuepin, Liu dan

54: TRAFFIC CONTROL DEVICE BASED ON VEHICLE-ROAD COORDINATION

00: -
 The invention relates to the field of traffic control devices, in particular to a traffic control device based on vehicle-road coordination, which comprises a box body, wherein the upper surface of the box body is provided with a support column, and the upper surface of the support column is provided with a solar panel.in the invention, firstly, an operator starts an internal device by using an external power supply,An operator utilizes the solar panel and the photoelectric converter to supply power through solar energy, and utilizes the fan to enable air inside the box body to circularly flow, so that the heat dissipation effect of the equipment is improved; and when the box body is shaken, impact force is transmitted downwards through the buffer column, and the box body moves downwards to compress the first spring,At that same time, an operator transfer the impact force to the buffer plate by utilize the buffer column so as to drive the buffer plate to move downwards, and at the same time, the second SPR is stretched to further improve the buffering capacity of the equipment, and the buffer is utilized to further improve the buffering capacity of the equipment.



21: 2022/06149. 22: 2022/06/02. 43: 2022/09/01

51: A61K

71: Henan University of Animal Husbandry and Economy, Nanjing Agricultural University

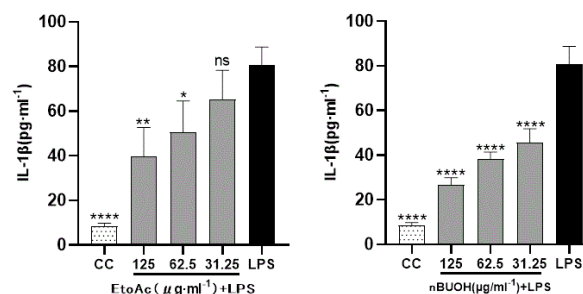
72: WANG Lian, WU Yi, WANG Xuefei

54: PREPARATION METHOD OF ANTIOXIDANT AND ANTI-INFLAMMATORY ACTIVE INGREDIENTS IN RADIX CYNANCHI BUNGEI FLOWER

00: -

The invention discloses a preparation method of antioxidant and anti-inflammatory active ingredients in radix cynanchi bungei flower, belonging to the technical field of biomedicine. The method comprises the following steps: extracting coarse powder of radix cynanchi bungei flower to prepare dry extract; adding water to suspend, sequentially extracting with different organic solvents to obtain different extraction parts; the free radical scavenging ability of the extracted part and its effect on the release of cytokines and NO from RAW264.7 cells are determined, and the antioxidant and anti-inflammatory active parts are identified. The antioxidant active site and the anti-inflammatory active site are analysed by UPLC-MS technique, and further isolation protocols are developed based on

the structural characteristics of the active compounds to isolate the target compounds with antioxidant and anti-inflammatory activities. The present invention is the first systematic isolation of the antioxidant and anti-inflammatory active sites of radix cynanchi bungei flower, from which 11 target compounds are isolated and their structures are determined using ^1H NMR, ^{13}C NMR and other spectroscopic methods.



21: 2022/06150. 22: 2022/06/02. 43: 2022/09/01

51: A23L; A61K; A61P

71: YU, Ruoxi

72: YU, Ruoxi

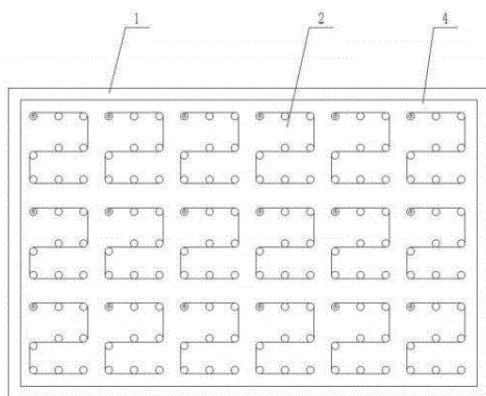
54: FOOD FOR TONIFYING YIN AND REGULATING CONSTITUTION AND DELAYING AGING AND PREPARATION METHOD THEREOF

The present disclosure relates to a food for tonifying Yin and regulating constitution and delaying aging, which is prepared by the processes of by soaking, extracting, etc. by using Polygonatum odoratum, Polygonatum sibiricum, Panax ginseng, Lycium chinense, Puerariae Radix, Portulaca oleracea and Hippophae rhamnoides as raw materials. The present disclosure has the following beneficial effects: through the compatibility of monarch, minister, assistant and envoy drugs, the food for tonifying Yin and regulating constitution and delaying aging of the present disclosure can achieve the effect of delaying aging; wherein, Polygonatum odoratum and Polygonatum sibiricum are used as monarch drugs to nourish yin and replenish essence; Panax ginseng, Lycium chinense and Semen Coicis are used as minister drugs; Puerariae Radix and Portulaca oleracea are used as assistant drugs; and Hippophae rhamnoides is used as an envoy drug.

21: 2022/06151. 22: 2022/06/02. 43: 2022/09/01
51: G01T
71: Shanxi Zhongfu Nuclear Instrument Co., Ltd.
72: GUO, Xirong, REN, Yi, DU, Xiangyang, CHENG, Chang, ZHANG, Shirang, WANG, Jianfei, HOU, Lei, GUO, Qiang

33: CN 31: 202110615866.3 32: 2021-06-02
54: DETECTION METHOD AND DETECTOR FOR ACCURATELY SEARCHING SURFACE RADIATION POLLUTION POSITION

00: -
The present disclosure discloses a detection method and a detector for accurately searching a surface radiation pollution position, which belong to the field of nuclear radiation detection. Provided are a detection method and a device for accurately searching a surface radiation pollution position, and the technical solutions are: in the detector method for accurately searching a surface radiation pollution position, multiple sets of anode wires are connected to a same positive pole of a power supply, a same metal shell opposite to the multiple sets of anode wires is connected to a same negative pole of the power supply, an electric field is formed between the metal shell and the multiple sets of anode wires, and noble gases are filled between the multiple sets of anode wires and the metal shell; and detection data of different sets of anode wires is read, and then processed and analyzed.



21: 2022/06152. 22: 2022/06/02. 43: 2022/09/01
51: A23L; A61K; A61P
71: YU, Ruoxi
72: YU, Ruoxi

54: FOOD FOR REDUCING LIPID, REDUCING BELLY SIZE, DEFAECATING, DETOXIFYING AND REGULATING QI AND BLOOD AND PREPARATION METHOD THEREOF

00: -
The present disclosure relates to a food for reducing lipid, reducing belly size, defaecating, detoxifying and regulating Qi and blood, which is prepared by the processes of soaking, extracting, etc. by using Lotus Leaf, Wolfiporia extensa, Semen Coicis, Momordica charantia, Rosae Rugosae Flos, Crataegus pinnatifida, Portulaca oleracea, Cinnamomum cassia and Semen Benincasae as raw materials. The present disclosure has the following beneficial effects: through the compatibility of monarch, minister, assistant and envoy drugs, the food for reducing lipid, reducing belly size, defaecating, detoxifying and regulating Qi and blood can achieve the effect of reducing lipid, reducing belly size and defaecating; wherein Lotus Leaf and Momordica charantia are used as monarch drugs, Rosae Rugosae Flos and Crataegus pinnatifida are used as minister drugs; Portulaca oleracea and Semen Benincasae are used as assistant drugs; and Cinnamomum cassia is used as an envoy drug.

21: 2022/06153. 22: 2022/06/02. 43: 2022/09/01
51: A61K
71: Guangzhou City Polytechnic, The First Affiliated Hospital, Sun Yat-sen University
72: JIA Qiang, YIN Junqiang
54: DEGALACTOTIGONIN AND DERIVATIVES THEREOF WITH BROAD-SPECTRUM ANTITUMOR ACTIVITY

00: -
The present invention relates to a natural compound, degalactotigonin, which is extracted from plants and has broad-spectrum antitumor activity, or its derivatives with the same biological activity. The invention discloses that degalactotigonin has a broad-spectrum antitumor effect, has a high inhibition rate on tumor cells at a certain concentration, is obviously stronger than the positive drug 10-hydroxycamptothecin, and has low toxicity to normal cells. The invention discloses a method for extracting degalactotigonin from plants, which can be used for preparing antitumor drugs, and the tumors include but are not limited to hepatic carcinoma, pulmonary carcinoma, gastric carcinoma, colon carcinoma, mammary adenocarcinoma, ovarian cancer, oral cancer, esophageal cancer, cholangiocarcinoma and leukemia. The present invention relates to a natural compound,

degalactotigonin, which is extracted from plants and has broad-spectrum antitumor activity, or its derivatives with the same biological activity.

21: 2022/06154. 22: 2022/06/02. 43: 2022/09/01

51: C02F

71: China Institute of Water Resources and Hydropower Research

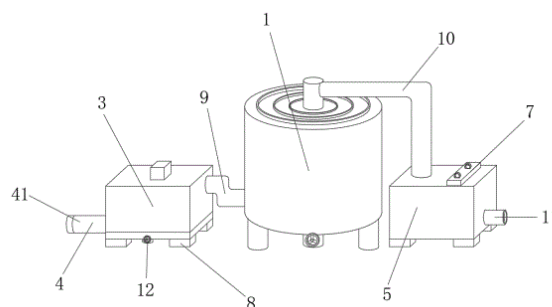
72: Guohua He, Jianhua Wang, Yong Zhao, Haihong Li, Yongnan Zhu, Qingming Wang, Shan Jiang, Yong Wang, Fan He

33: CN 31: 202110677313.0 32: 2021-06-18

54: AN INTEGRATED RURAL SEWAGE TREATMENT AND FILTRATION DEVICE

00: -

The invention relates to a water pollution purification field, specific to an integrated filtration device for rural sewage treatment. The device consists of a filter chamber. On one side of the filter chamber, a filter structure is provided to precipitate the water. The inside of the filter chamber is provided with a filtering structure that can filter impurities, and the outer wall of the precipitation structure is connected with a blocking structure that can block large objects. The other side of the filter chamber is provided with a screening structure, and the inside of the screening structure is provided with a bactericidal structure that can kill bacteria. One side of the bactericidal structure is provided with a reaction structure, and the lower part of the precipitation structure is connected with a shock absorption structure that can reduce vibration. The present invention can through the network of adsorption of activated carbon adsorption impurities in wastewater, through double blocking of the micro filter screen and nano filtration screen, it can remove the many impurities in the water, purify water, through the heating of the heating plate, it can increase water temperature. The high temperature can kill bacteria and viruses, and the UV light can emit ultraviolet light to destroy bacteria and viruses.



21: 2022/06155. 22: 2022/06/02. 43: 2022/09/01

51: B02C

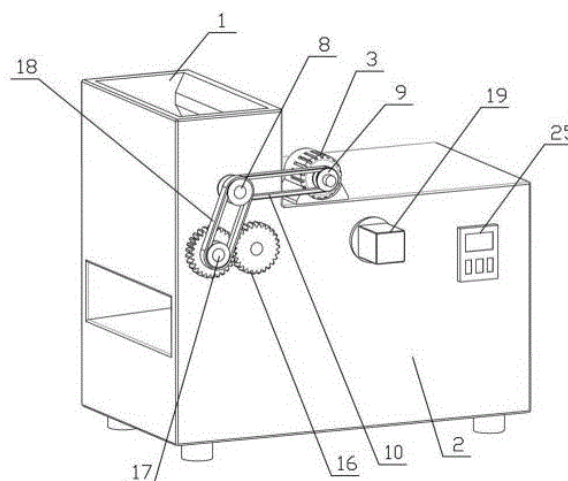
71: DEZHOU VOCATIONAL AND TECHNICAL COLLEGE

72: YAO Lingyun, ZHAO Xiaojing, CAO Yue

54: STEEL BAR ENGINEERING WASTE RECYCLING DEVICE

00: -

The invention discloses a recycling device for steel bar engineering waste, which comprises a hopper, a shell and a first driving motor. A first crushing mechanism is arranged in the hopper; a slideway, a collection chamber, a second crushing mechanism and a third crushing mechanism are arranged in the shell, the slideway is arranged obliquely, and both ends of the slideway are respectively communicated with the hopper and the collection chamber. According to the invention, cement blocks outside the steel bars can be crushed in multiple stages, the crushing is more thorough, steel bars are separated from the cement blocks more thoroughly, and the integrated collection and secondary recycling of the steel bars are facilitated.



21: 2022/06156. 22: 2022/06/02. 43: 2022/09/09

51: B03C

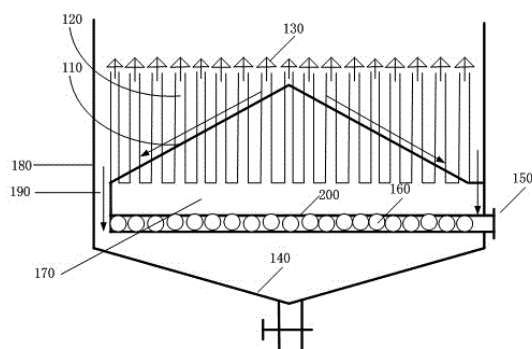
71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY

72: QI Juan, ZHANG Xiaohong, ZHANG Lei, WANG Detang, WU Xian

54: GAS DISTRIBUTION DEVICE FOR ELECTRIC TAR PRECIPITATOR

00: -

The invention provide a gas distribution device for an electric tar precipitator, which change that traditional plane gas distribution surface, adopts a conical surface to change the flow direction of tar after falling off from a precipitation pole, and flow into a tar collection device at the lower part through a side channel, thereby reducing the contact time between rising gas and falling tar droplets, reducing the probability of pollutants in tar entering a high-voltage electric field again, and avoiding repeated treatment. At the same time, the gas outlet is reformed, and an umbrella-shaped cover cap which can automatically rise and fall with the airflow is installed, which effectively prevents tar from blocking pores and improves work efficiency. The gas distribution device comprises a vent pipe, an umbrella-shaped cover cap, a conical gas redistribution plate and a gas distribution plate.



21: 2022/06158. 22: 2022/06/02. 43: 2022/07/12

51: G06Q

71: MACHINERY TECHNOLOGY DEVELOPMENT CO., LTD.

72: ZHANG , SHENG, XU, BIN, KONG, XIANGZHEN, JIAO, JIAN

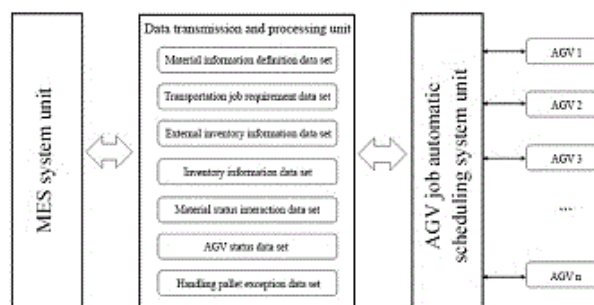
33: CN 31: 202210003790.3 32: 2022-01-05

54: INTERFACE INTEGRATION METHOD OF AGV JOB AUTOMATIC SCHEDULING SYSTEM AND MES SYSTEM

00: -

The present application discloses an interface integration method of AGV job automatic scheduling

system and MES system, involving an AGV job automatic scheduling system unit, an MES system unit and a data transmission and processing unit. The data transmission and processing unit performs interface integration through a data dictionary which includes multiple data sets. Based on the standardized data dictionary integration method, the relevant data in the manufacturing process in the factory are classified and stored in the above-mentioned multiple data sets, respectively, which can greatly reduce the non-standard customization characteristics of data that need to be mutually integrated when the interface of the MES system unit is integrated with the interface of the AGV job automatic scheduling system unit, thereby facilitating the seamless and standardized integration of the MES system and the AGV system in the manufacturing process in digital workshops or smart factories, and enabling interconnection and interoperability. As a result, for equipment and software suppliers, the standardization of respective systems can be greatly improved; for end users, the level of integration of digital workshop equipment and information systems can be greatly improved.



21: 2022/06168. 22: 2022/06/02. 43: 2022/09/09

51: B03D

71: CENTRAL SOUTH UNIVERSITY

72: CAO, Jian, ZHANG, Wanjia, GAO, Zhiyong, FENG, Zhitao, YANG, Yuhang, SUN, Wei, HU, Yuehua

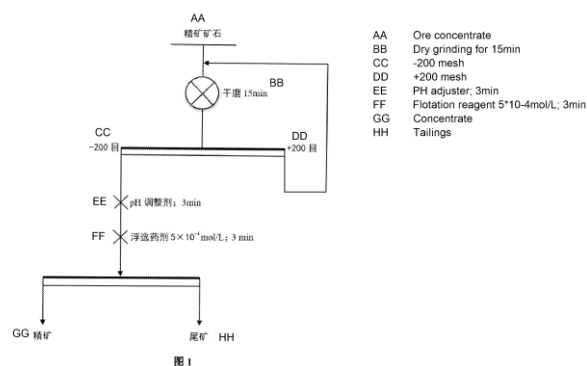
33: CN 31: 201911338545.2 32: 2019-12-23

54: APPLICATION OF 2-(3-SUBSTITUTED UREIDO)-N-HYDROXY-2-OXOACETIMIDE CYANIDE COMPOUND IN FLOTATION

00: -

Provided is an application of a 2-(3-substituted ureido)-N-hydroxy-2-oxoacetamide cyanide compound in flotation, which is used as a flotation collector for the flotation separation of calcium-

containing minerals, wherein the 2-(3-substituted ureido)-N-hydroxy-2-oxoacetimide cyanide compound has excellent flotation separation effect and foaming performance of calcium-containing minerals, its compounding with auxiliary collectors will help to further reduce the dosage and improve the flotation performance; further provided is a calcium-containing mineral flotation agent, which includes the 2-(3-substituted ureido)-N-hydroxy- 2-oxoacetimide cyanide compound and auxiliary collectors. The flotation reagent can preferentially floatate fluorite and calcite; and under neutral conditions (pH = about 7), it can achieve high-efficiency separation of fluorite and calcite from scheelite, and can effectively purify the crude scheelite concentrate and improve the grade of scheelite concentrate and at the same time, a neutral flotation environment reduce its impact on the environment.

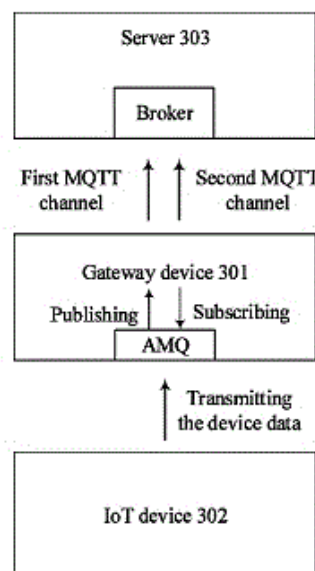


21: 2022/06199. 22: 2022/06/03. 43: 2022/07/12
51: H04W; H04L; G16L
71: ENVISION DIGITAL INTERNATIONAL PTE. LTD. , SHANGHAI ENVISION DIGITAL CO., LTD.
72: QIAN, JIALIN, CUI, CHANGDONG, ZHANG, HONGZHEN, ZHANG, YANG
33: CN 31: 201911076109.2 32: 2019-11-06
54: METHOD AND APPARATUS FOR TRANSMITTING DATA IN IOT SYSTEM, AND GATEWAY DEVICE AND STORAGE MEDIUM THEREOF

00: -

Disclosed are a method and apparatus for transmitting data in an IoT system. The method includes: determining a data type of device data sent by an IoT device when a connection between a gateway device and a server is abnormal; storing device data of a real-time data type into a first

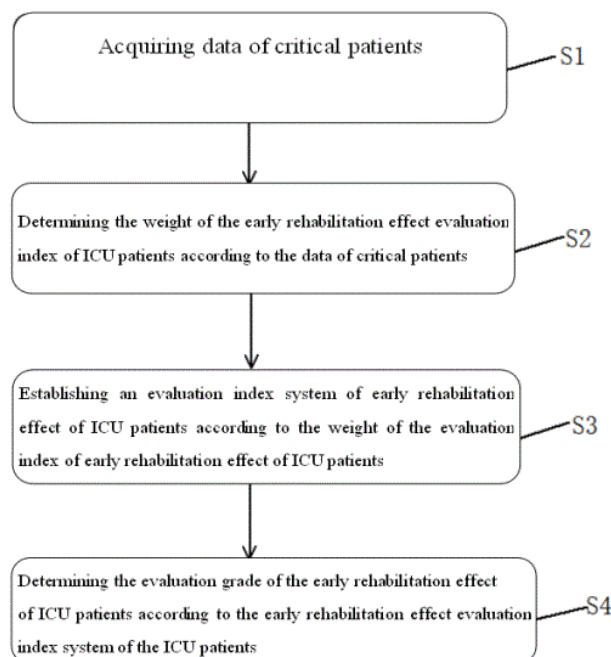
message queue of a message-oriented middleware, and storing device data of a historical data type into a second message queue of the message-oriented middleware; transmitting the device data in the first message queue to a server over a first MQTT channel and transmitting the device data in the second message queue to the server over a second MQTT channel when the connection resumes to a normal state.



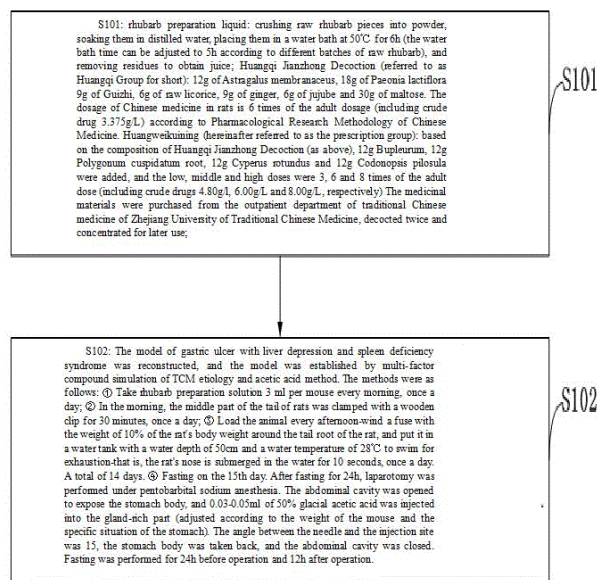
21: 2022/06289. 22: 2022/06/07. 43: 2022/09/01
51: G06N; G06Q
71: THE FIRST HOSPITAL OF LANZHOU UNIVERSITY
72: ZHANG Zhigang, WU Yuchen, WANG Rui, CHENG Jie, JI Kexin
54: DYNAMIC EVALUATION METHOD, DEVICE AND STORAGE MEDIUM FOR EARLY REHABILITATION OF CRITICALLY ILL PATIENTS
00: -

The application discloses a dynamic evaluation method, a device and a storage medium for early rehabilitation of critically ill patients, comprises: S1, acquiring data of critical patients; S2, determining the weight of the early rehabilitation effect evaluation index of Intensive Care Unit (ICU) patients according to the data of critical patients; S3, establishing an evaluation index system of early rehabilitation effect of ICU patients according to the weight of the evaluation index of early rehabilitation effect of ICU patients; and S4, determining the evaluation grade of the early rehabilitation effect of ICU patients according to the early rehabilitation effect evaluation

index system of the ICU patients. By adopting the technical scheme of the application, the early rehabilitation effect of ICU patients can be objectively, accurately and systematically evaluated.



difference of disease-syndrome combination model protein expression profile found that malate dehydrogenase, isocitrate dehydrogenase -3, glutathione S- transferase Alpha-2, Tiaoning protein, fumarate hydratase, copper/zinc superoxide dismutase and pyruvate dehydrogenase activity E were different proteins.



21: 2022/06290. 22: 2022/06/07. 43: 2022/09/01
51: A61K

71: Zhejiang Chinese Medical University

72: ZHENG Xiaowei, YU Wangqin

54: GASTRIC ULCER MODEL WITH LIVER DEPRESSION AND SPLEEN DEFICIENCY SYNDROME AND CONSTRUCTION METHOD THEREOF

00: -

The invention belongs to the technical field of medical preparations, and discloses a gastric ulcer model with liver depression and spleen deficiency syndrome and a construction method thereof. The rhubarb preparation liquid is taken once a day in the morning at 3ml/ dose; In the morning, the middle part of the tail of rats was clamped with a wooden clip for 30 minutes, once a day; In the afternoon, animals are loaded, put into a water tank with a water depth of 50cm and a water temperature of 28degree Celsius for swimming, and fasted on the 15th day. After fasting for 24 hours, 0.03-0.05ml of 50 percent glacial acetic acid is injected into gland-rich parts. The invention successfully establishes a rat model of gastric ulcer with liver depression and spleen deficiency syndrome; Identification of the

21: 2022/06291. 22: 2022/06/07. 43: 2022/09/09
51: C12N; C12Q

71: Yangzhou University

72: WANG, Zhixiu, YAN, Dan, SONG, Qianqian, TIAN, Huiyue, JIANG, Yong, BAI, Hao, CHANG, Guobin, CHEN, Guohong

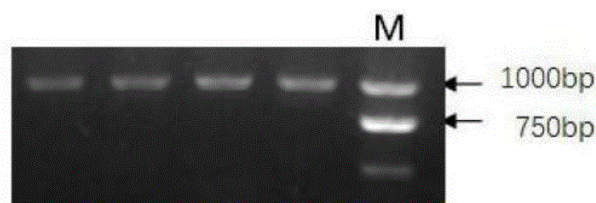
33: CN 31: 202110659483.6 32: 2021-06-15

54: METHOD FOR IDENTIFYING GENE LOCI RELATED TO DUCK MUSCLE DEVELOPMENT

00: -

The present disclosure relates to a method for identifying gene loci related to duck muscle development, including the following steps: step (1), extracting RNA from duck breast muscles with different percentages of breast muscle, reverse transcribing the RNA into cDNA, designing primers for a CDS region, and finding a single nucleotide polymorphism (SNP) locus of duck MYOZ2 gene by Pool-seq, where the loci are detected as Exon4 A107G and Exon4 A113T; and step (2) extracting duck genomic DNA from a duck blood sample; with the duck genomic DNA as a template, using a forward primer and a reverse primer for amplifying a

sequence near the SNP locus of the duck MYOZ2 gene to perform PCR amplification to obtain a PCR product.



21: 2022/06292. 22: 2022/06/07. 43: 2022/09/09
51: C07C

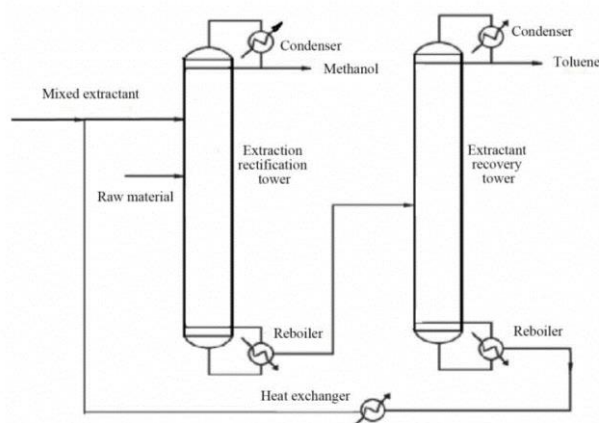
71: Dezhou University

72: LI, Yumei, LIU, Xinyu, FAN, Jinyong, SONG, Yulan, SHA, Sha, WANG, Guizhi, WANG, Lijing

54: A METHOD FOR SEPARATING TOLUENE AND METHANOL SOLUTION BY EXTRACTIVE DISTILLATION USING O-XYLENE AND IONIC LIQUID AS EXTRACTANT

00: -

A method for separating toluene and methanol solution by extractive distillation of o-xylene and ionic liquid mixed solvent is disclosed. O-xylene and N-butylpyridine bromide are used as extractant in the process. A technological process thereof is as follows: a mixture of the methanol and toluene is added to a middle portion of an extraction rectification tower at a bubble point, and, the mass flow ratio of the extractant to the methanol-toluene mixture is 0.5-2.0, and the reflux ratio is 1.0-4.0, methanol is obtained from tower top, and a mixture containing the extractant and the toluene are obtained from tower bottom. The operating pressure of the extraction rectification tower is an atmospheric pressure, and the extractant recovered from recovery tower is pumped to the extraction rectification tower for recycling, and continuous production process is proceed by controlling temperature and reflux ratio of the extraction rectification tower and the extractant recovery column.



21: 2022/06293. 22: 2022/06/07. 43: 2022/09/01
51: G06F

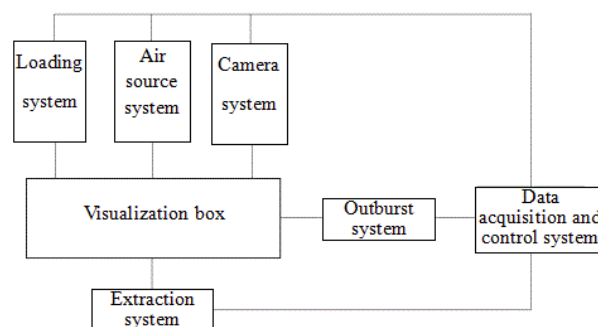
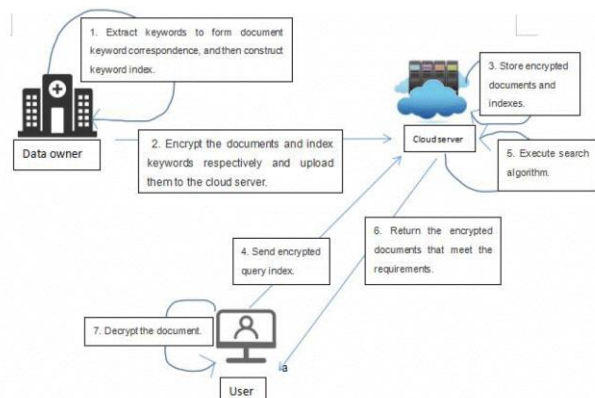
71: Zhejiang Gongshang University

72: HAN Song, WANG Luyao

54: DISEASE SELF-EXAMINATION SYSTEM AVAILABLE FOR CHINESE CIPHERTEXT AND MULTIPLE FUZZY KEYWORDS

00: -

This invention provides disease self-examination system available for Chinese ciphertext and multiple fuzzy keywords, at present, most searchable encryption systems are aimed at precise search, and once the user makes an error, the search cannot be completed, so the present invention uses fuzzy search. According to the invention, the method based on knowledge map is adopted, so that the data owner preprocesses the data, then it uses sensitive Hash function (LSH) maps keywords in M-bit Bloom filter, and each keyword will form a tree-like keyword index, which has three layers, in which, the first layer is a single keyword, the second layer is other keywords of all documents containing this keyword, and the third layer is the ID of all documents containing this keyword, then, the invention encrypts the keyword index and all documents separately and uploads them to the cloud server. Users are allowed to enter the wrong keywords, and the cloud service performs the search process, returns the encrypted documents with high correlation, and the users decrypt them. According to the invention, users can be allowed to input wrong keywords, and better search accuracy can be achieved.



21: 2022/06294. 22: 2022/06/07. 43: 2022/09/01
51: E21F
71: China University of Mining and Technology
72: ZHAO Enlai, ZHANG Chaolin, WANG Enyuan, LI Zhonghui, FENG Xiaojun

54: INTEGRATED TEST DEVICE FOR GAS EXTRACTION AND OUTBURST ELIMINATION IN OUTBURST COAL SEAM

00: -

An integrated test device for gas extraction and outburst elimination in outburst coal seam is used to simulate the integrated test of gas extraction and outburst elimination test of outburst coal seam in laboratory. The device comprises a visualization box made of transparent materials, wherein the visualization box is provided with a loading system, an air source system, a camera system, a protruding system, a data acquisition and control system and an extraction system, wherein the loading system, the air source system, the camera system, the extraction system and the protruding system are respectively connected with the data acquisition and control system. The device has simple structure and good use effect, and can simulate gas extraction and gas outburst process under multi-field coupling conditions of different true triaxial stresses and gas pressures

21: 2022/06295. 22: 2022/06/07. 43: 2022/09/01
51: H04L

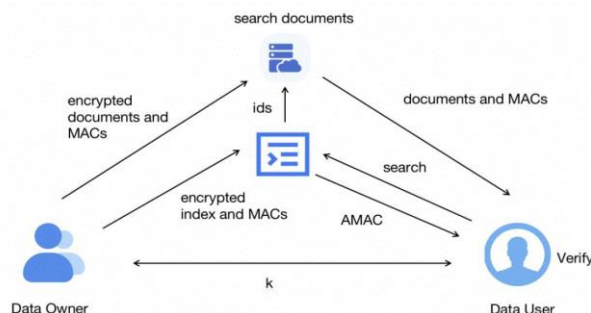
71: Zhejiang Gongshang University

72: HAN Song, REN Siqu, XU Xuanxuan

54: A VERIFIABLE ONE-ROUNDRIP STATIC SYMMETRIC SEARCHABLE ENCRYPTION SCHEME BASED ON DIFFIE-HELLMAN AND SMART CONTRACT

00: -

The invention discloses a verifiable one-roundtrip static symmetric searchable encryption scheme based on Diffie-Hellman and smart contract. The invention utilizes key agreement protocol to improve the part of key transportation. The searchable encryption scheme is resistant to impersonation attacks, known key attacks. In addition, this invention verifies the search results through the message authentication code, and provides a verifiable function. Finally, this scheme only needs one round of communication to obtain the target document, compared to the previous searchable encryption scheme, the security, the correctness of the results and the search efficiency of this scheme have been greatly improved.



21: 2022/06296. 22: 2022/06/07. 43: 2022/09/09
51: G06F

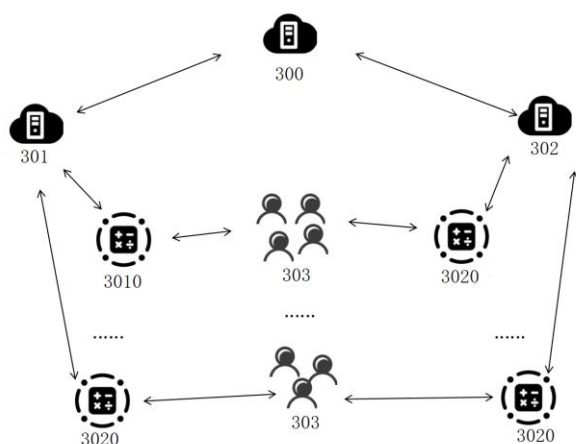
71: Zhejiang Gongshang University

72: HAN Song, WANG Luyao, REN Siqu

54: PRIVACY PROTECTION METHOD AND SYSTEM FOR FINANCIAL DATA SHARING BASED ON FEDERATED LEARNING

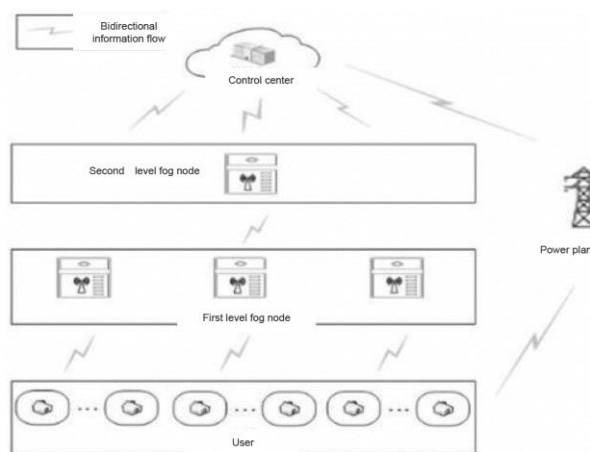
00: -

This invention provides privacy protection method and system for financial data sharing based on federated learning. In recent years, due to the restrictions of data security and privacy protection laws and regulations, it is impossible to share data across institutions or departments. In order to make the data transfer and transaction between different entities abide by the national laws on data privacy and data security, the present invention uses the privacy protection method of financial data sharing learned by the federal government. The present invention adopts privacy collection intersection technology, which allows that two institutions, which may have differences in business, but mostly have the same customer groups , to jointly train a learning model. Federated learning can solve the problem of data leakage to a certain extent, but the plaintext gradient parameters will still leak information. The invention encrypts the gradient parameters by using the multi-key homomorphism method, and then uses the edge computing server to reduce the calculation of cloud server aggregation gradient parameters.



21: 2022/06297. 22: 2022/06/07. 43: 2022/09/09
51: H04L
71: Zhejiang Gongshang University
72: HAN Song, REN Siqi, XU Shuhua, XU Xuanxuan
54: BLOCK CHAIN-BASED AGGREGATION METHOD FOR DATA PRIVACY PROTECTION UNDER SECONDARY NETWORK OF SMART GRID
00: -

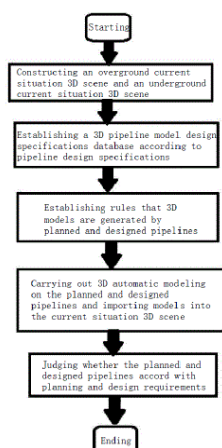
This invention provides block chain-based aggregation method for data privacy protection under secondary network of smart grid without a trusted third party. According to the invention, the Horner rule and ElGamal cipher algorithm are used to realize data aggregation in the secondary network without a trusted third party, so that the smart grid system does not need to introduce a trusted third party, and the risk of privacy leakage when the trusted third party is not trusted is avoided. At the same time, this invention embeds Horner parameters into the first-level aggregation ciphertext of each first-level fog node, which realizes both data aggregation under the second-level network and stronger privacy protection, and it supports large-scale users, and reduces the calculation cost. Moreover, the invention establishes the transaction relationship between the user and the power company through the intelligent contract, and writes the transaction relationship between the user and the power company into the block chain. The method has good expandability and low calculation cost, and is suitable for large-scale intelligent power grids.



21: 2022/06298. 22: 2022/06/07. 43: 2022/09/09
51: G06F
71: Sinotech Land Spatio Corp, Beijing Institute of Surveying and Mapping, Beijing Society of Surveying and Mapping
72: YANG, Bogang, MA, Xiaoji, GU, Juan, WANG, Honglin, MA, Xizhao, ZHANG, Shuangshuang, WU, Shuang, WANG, Miao, ZHANG, Lu, ZHANG, Hairui
54: ASSISTED PLANNING AUDITING METHOD FOR UNDERGROUND PIPELINES BASED ON 3D GIS TECHNOLOGY

00: -

The invention discloses an assisted planning auditing method for underground pipelines based on a 3D (Three Dimensional) GIS (Geographic Information System) technology, which comprises S1: constructing an overground current situation 3D scene and an underground current situation 3D scene; S2: establishing a 3D pipeline model design specifications database; S3: establishing rules that 3D models are generated by planned and designed pipelines; S4: carrying out 3D automatic modeling on the planned and designed pipelines and importing models into the current situation 3D scene; and S5: according to the 3D pipeline model design specifications database established in the step S2, calculating index values of the horizontal clear distance and the vertical clear distance between the planned and designed pipelines and current situation pipelines/ground buildings/road surfaces, and judging whether the planned and designed pipelines accord with planning and design requirements.



21: 2022/06299. 22: 2022/06/07. 43: 2022/09/09
51: G06T

71: POWERCHINA NORTHWEST ENGINEERING CORPORATION LIMITED, CHINA HUANENG HUANENG LANCANG RIVER HYDROPOWER INC.

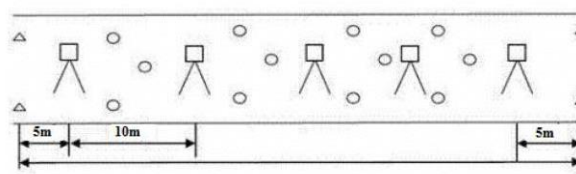
72: LV Baoxiong, CAO Junheng, ZHAO Yue, XU Liyuan, ZHOU Jiancheng, ZHAO Yanling, ZHONG Ming, HE Xi, ZHAO Zhixiang

54: A GEOLOGICAL LOGGING METHOD OF SMALL SECTION EXPLORATION ADIT BASED ON THREE-DIMENSIONAL LASER SCANNING

00: -

The invention provides a geological logging method of small-section exploration adit based on three-dimensional laser scanning, which comprises the

following steps: Step 1) Determine the scanner operation mode and scanning station location; Step 2) using a three-dimensional laser scanner to obtain point cloud data and image information of the inner wall surface of the adit; Step 3) Converting the acquired point cloud data to make a real shooting image of the cavern; Step 4) Carry out digital information logging to obtain tunnel geological logging map; Step 5) The visualization operation is carried out on the adit geological logging map, which effectively solves the problems of poor data reliability, low accuracy, low work efficiency, inability to visualize and the like in the logging process of small-section geological exploration adits.



21: 2022/06300. 22: 2022/06/07. 43: 2022/09/09
51: G06T

71: POWERCHINA NORTHWEST ENGINEERING CORPORATION LIMITED, CHINA HUANENG HUANENG LANCANG RIVER HYDROPOWER INC.
72: LV Baoxiong, CAO Junheng, ZHANG Xujie, ZHAO Yue, YANG Zhenyin, ZHOU Jiancheng, ZHAO Zhixiang, ZHAO Binbin, QIAN Junliang, ZHANG Yongzhi

54: A TARGET LAYOUT METHOD FOR MONITORING LANDSLIDE DISASTER BY THREE-DIMENSIONAL LASER SCANNER

00: -

The invention provides a target layout method for monitoring landslide disasters by a three-dimensional laser scanner, which comprises the following steps: Step 1) Determination of landslide range; Step 2) Target efficiency classification; Step 3) Target layout. The target layout method for monitoring the landslide disaster by the three-dimensional laser scanner provided by the invention can periodically and repeatedly observe, and adopts the three-dimensional laser scanning technology to combine a single point with massive point clouds to realize diversification and complement each other. Reasonable layout of benchmark targets can ensure the unity of scanning and monitoring benchmarks and reliable accuracy; The combination of the obtained single-point results of the monitoring target

and the point cloud data can complement each other to judge the deformation trend of the landslide disaster, ensure the continuity of the monitoring results and play an effective monitoring role.

21: 2022/06344. 22: 2022/06/08. 43: 2022/09/09
51: B09C
71: Nanjing Institute of Environmental Sciences.MEE
72: LIU Guoqiang, CHEN Yudong, GAN Xinhong, LIU Yonghua, WU Jing, LI Haidong, CHEN Sujuan
54: ELECTROKINETIC DIFFUSION-ELECTRIC HEATING COUPLING METHOD FOR REMEDIATION OF ORGANIC POLLUTED SOIL
00: -

The invention relates to the technical field of soil in-situ remediation, and discloses an electrokinetic diffusion-electric heating coupling method for remediation of organic polluted soil, which comprises the following steps: adjusting the water content in the polluted soil area and inserting positive and negative electrodes; then adding NaCl solution into the soil as electrolyte; adding Na₂S₂O₈ solution into soil as oxidant; then direct current is introduced into the soil by positive electrode and negative electrode for electrokinetic diffusion; then, direct current is converted into 220V alternating current for electric heating coupling, so that the soil temperature is 40 degree Celsius ~ 80 degree Celsius; the treatment time of remediation is 48 ~ 60 hours, during which FeSO₄ solution is uniformly sprayed on the soil surface. The invention can solve the problems of slow migration and small diffusion area of chemical oxidants in soil; the oxidant can be effectively activated to treat soil pollutants, and the whole remediation efficiency is greatly improved.

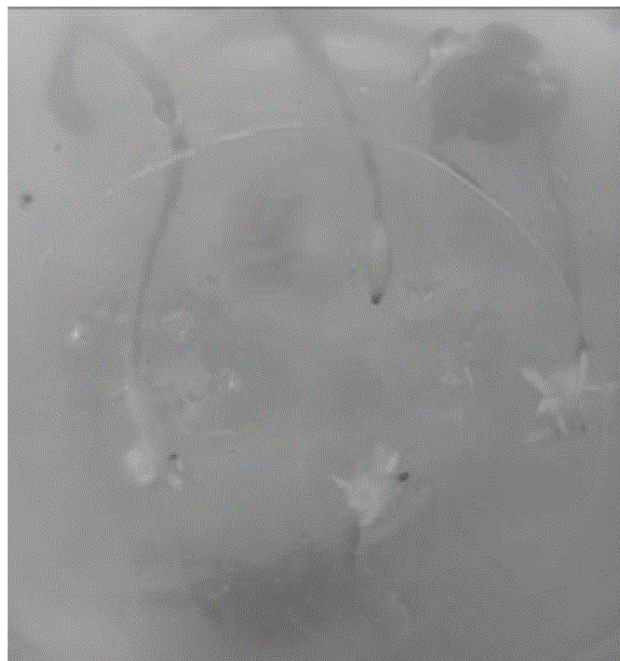
21: 2022/06345. 22: 2022/06/08. 43: 2022/09/02
51: C12N
71: Huaiyin Institute of Agricultural Sciences in Xuhuai area of Jiangsu Province
72: ZhouGang, LiuYing, QinYi, PiDaMing, WangLiWei, ZuoXinJian, ChenYiHang, WangGuoLian, XiePeng, LiChuang, ZhaoChen
54: MICROBIAL TREATMENT AGENT FOR LIVESTOCK AND POULTRY EXCREMENT, PREPARATION METHOD THEREFOR AND USE THEREOF
00: -

Disclosed is a microbial treatment agent for livestock and poultry excrement, comprising a precipitation

agent, a deodorant and a fermentation agent; wherein the precipitation agent comprises 10-20 parts of ferric chloride, 10-20 parts of polyacrylamide, 5-10 parts of calcium oxide and 5-10 parts of calcium carbonate; the deodorant comprises 20-30 parts of plant ash, 20-30 parts of Ginkgo leaves and 10-20 parts of activated carbon; and the fermentation agent comprises 30-40 parts of a *Bacillus subtilis* agent, 20-30 parts of a *Bacillus licheniformis* agent, 20-30 parts of a *Trichoderma reesei* agent and 10-20 parts of a *Saccharomycopsis fibuligera* agent. The microbial treatment agent is applied to the treatment of animal and poultry excrement, reducing the content of harmful substances in the excrement.

21: 2022/06346. 22: 2022/06/08. 43: 2022/09/02
51: A01H
71: YIBIN UNIVERSITY
72: Wu yanfang, Zhang jian, MA Jinpeng, ZHU mengxin, Cheng wei, Jiang yingjie, Wang yanzhi
54: TISSUE CULTURE METHOD OF ONE-STEP SEEDLING FORMATION WITH LEAF PETIOLES OF PINELLIA TERNATA
00: -

This invention provides tissue culture method of one-step seedling formation with leaf petioles of *Pinellia ternata* that comprises the following steps: (1) selecting explants: cluster buds of *Pinellia ternata* tissue culture are used as materials, and petioles with leaves are selected as explants for tissue culture; (2) inoculating explants in one-step seedling culture medium and culturing until the seedling height is 4-10 cm; The formula of the one-step seedling culture medium is: 1/2ms+IBA 0.5-1.2mg/L+NAA 0.2-0.8mg/L+TDZ 0.15-0.25mg/L+sucrose 3%+agar 0.7%. According to the invention, the leafed petiole of *Pinellia ternata* tissue culture cluster seedlings is used as an explant and a special culture medium is adopted, so that the seedlings can be quickly formed in only 45 days, and the proliferation coefficient and quality of *Pinellia ternata* seedlings are guaranteed (the rooting rate is as high as more than 95%; Transplanting survival rate is 100%), thus realizing large-scale production.



21: 2022/06347. 22: 2022/06/08. 43: 2022/09/09
51: A01P

71: Institute of Water Resources for Pastoral Area, MWR

72: ZHANG, Ruiqiang, ABIYASI, ZHANG, Fei, WANG, Jian, TIAN, Xiumin, CHENG, Bo, GE, Nan, LI, Hongfang, ZHANG, Ziqi

54: LEGUMINOUS SEED PELLETTED COATING

00: -

The present invention discloses a leguminous seed pelleted coating, of which the specific components include zinc fertilizer, micro-fertilizer, molybdenum fertilizer, PK 25:10 fertilizer, water, insecticide or (rhizobium inoculant and bactericide), growth promoter, latex, and superfine clay. The comprehensive formulation has significant yield-increasing advantages.

21: 2022/06348. 22: 2022/06/08. 43: 2022/09/02
51: C05G

71: Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences

72: Fu Aihong

54: FERTILIZER FOR PROMOTING DESERT VEGETATION RESTORATION

00: -

This invention provides fertilizer for promoting desert vegetation restoration, which is related to the field of fertilizers. The fertilizer for promoting desert vegetation restoration comprises the following

substances: 21-25 parts of potassium nitrate, 34-40 parts of calcium superphosphate, 5-10 parts of phosphate, drought-resistant and water-retaining agent, 1-2 parts of ferrous sulfate and 2-3 parts of phosphogypsum. This invention adds potassium polyacrylate-polyacrylamide copolymer water-retaining agent into the fertilizer, in order to arrange the water-retaining agent during fertilization, and the water-retaining time is long, thus avoiding damaging the root system in the process of plant growth. By adding ferrous sulfate and phosphogypsum, the properties of soil can be changed during use, this invention can reduce the salinity, and control the growth of plants in the soil environment. By adding phosphate and calcium superphosphate, the invention can slowly release the fertilizer during use, and it can prevent water molecules from passing through, inhibit water evaporation, increase ground temperature, reduce salt accumulation on the surface, and have a good effect on crop seedling protection and yield increase.

21: 2022/06349. 22: 2022/06/08. 43: 2022/09/02
51: C08L

71: Xuzhou College of Industrial Technology

72: Liu Feng, Xu Dongmei, Zhang Lin

54: A FORMULA OF A HIGH-TEMPERATURE-RESISTANT WOOD-PLASTIC COMPOSITE MATERIAL FOR SAUNA ROOM AND A PREPARATION METHOD THEREOF

00: -

The invention discloses a formula of a high-temperature-resistant wood-plastic composite material for sauna room and a preparation method thereof, which are specifically extruded and formed by using wood powder, recycled plastics, high-temperature-resistant inorganic nano-fillers and other processing aids as raw materials. The weight parts of each raw material of wood-plastic composite material for sauna room are: 100 parts of recycled plastic, 40-60 parts of wood powder, 5-15 parts of high-temperature-resistant inorganic nano-fillers, 1-2 parts of solubilizer, 2-4 parts of liquid paraffin. The beneficial effects of the invention are as follows: the wood-plastic composite material produced by the method is waterproof, high-temperature-resistant, environmentally friendly and high production efficiency.

21: 2022/06350. 22: 2022/06/08. 43: 2022/09/02
51: A01G

71: Xinjiang Institute of Ecology and Geography,
Chinese Academy of Sciences

72: Fu Aihong

**54: SOIL AMENDMENT FOR IMPROVING
SURVIVAL RATE OF DESERT VEGETATION AND
PREPARATION METHOD THEREOF**

00: -

This invention provides soil amendment for improving the survival rate of desert vegetation and preparation method thereof, which is related to technical field of agriculture. This soil amendment for improving the survival rate of desert vegetation comprises bentonite, vermiculite, peat, wood flour, polyacrylic acid, polysaccharides, polyaluminium chloride, organic fertilizer, abscisic acid, tremella, mushrooms and bananas. Water in desert can be gathered around the roots of plants by adding polymeric chlorination and abscisic acid, which is convenient for plants to absorb water effectively, and potassium can be effectively supplemented to plants, making the roots of plants grow stronger. By activating, promoting, inducing and controlling the excellent growth genes and stress-resistant genes of plants, plants can be activated to exploit their potentials, and enhance defense response and immune function, the roots of plants can grow stronger for better survival in the desert by adding some materials with high potassium content, which effectively supplies potassium to plants.

21: 2022/06351. 22: 2022/06/08. 43: 2022/09/02
51: A61B

71: The First Affiliated Hospital of Bengbu Medical
College (Cancer Hospital of Bengbu Medical
College)

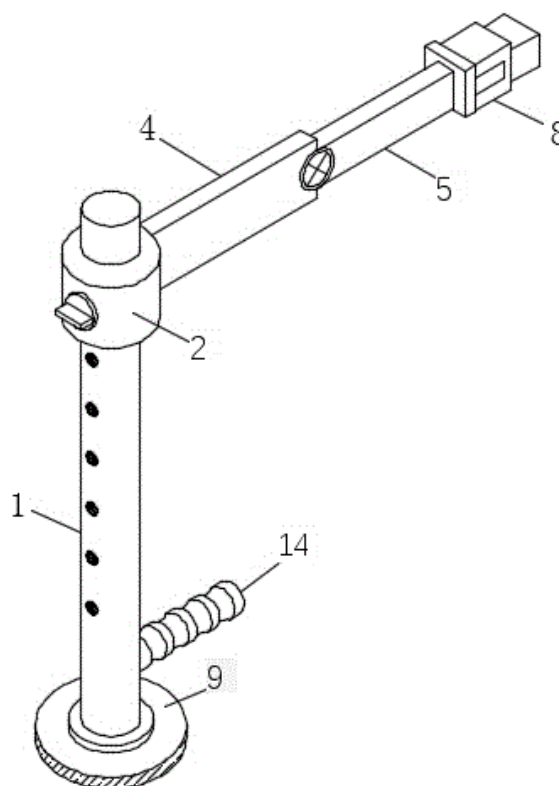
72: Wang Zhenjie, Wang Lin, Ji Zhong, Qiu Zhaolei

**54: SINGLE-ARM ORGAN SUPPORTING AND
FIXING INSTRUMENT FOR MINIMALLY INVASIVE
ABDOMINAL SURGERY**

00: -

The invention discloses a single-arm organ supporting and fixing apparatus for abdominal minimally invasive surgery, which comprises a strut, a first connecting rod and a clamping sleeve, wherein the surface of the strut is connected with a sliding sleeve in a sliding manner, the outer surface of the sliding sleeve is fixedly connected with a hinge seat, one end of the sliding sleeve is provided with

the first connecting rod, One end of the first connecting rod is movably connected with a second connecting rod, one end of the second connecting rod is fixedly connected with a fixed seat, the surface of one side of the fixed seat is provided with a fixed ring, and the surface of the fixed ring is movably connected with a rotating seat. By installing the sliding sleeve, the hinge seat, the first connecting rod, the second connecting rod, the fixed seat, the fixed ring and the rotating seat, in the process of using the instrument, organs and tissues can be conveniently supported and fixed by using the clamping claws which can be freely adjusted, It is convenient for doctors to perform minimally invasive surgery.



21: 2022/06352. 22: 2022/06/08. 43: 2022/09/02
51: E01C

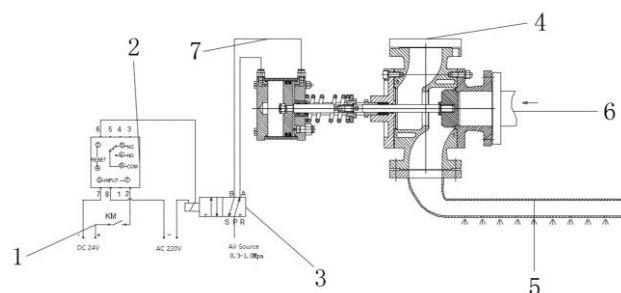
71: Overseas Company of China Railway Seventh
Group Co., Ltd

72: Fu Songjun, Wu Yongquan, Du Chao, Feng Tao,
Guo Dongdong, Wang Yong, Li Songquan, Tang
Haisheng, Mei Bingjun

**54: ASPHALT SPRAY ANTI-DRIP DEVICE FOR
ASPHALT MIXING STATION**

00: -

The invention discloses an asphalt spraying anti-drip device for an asphalt mixing station, which comprises a normally-open auxiliary contact of an asphalt pump alternating current contactor, a time relay, an electromagnetic reversing air valve, a pneumatic three-way heat insulation valve and an asphalt spraying pipe, wherein one side of the pneumatic three-way heat insulation valve is provided with an asphalt pump access port, and the asphalt spraying pipe is arranged below the pneumatic three-way temperature insulation valve; The top of the electromagnetic reversing air valve is provided with an air pipe, and an air cylinder is arranged below the air pipe. One side of the electromagnetic reversing air valve is connected with a time relay, and one side of the time relay is connected with an asphalt pump alternating current contactor normally-open auxiliary contact. It can realize the automatic switch control of the pipeline at the end of asphalt spraying, prevent the residual asphalt in the pipeline from flowing out continuously, and eliminate the leakage phenomenon.



21: 2022/06353. 22: 2022/06/08. 43: 2022/09/02

51: E21C; E21F

71: Shandong Gold Mining Co., Ltd.

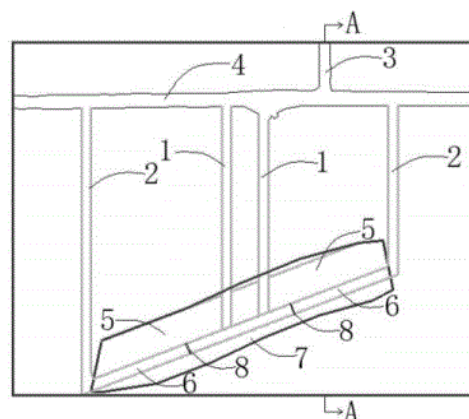
72: ZHU, Mingde, PEI, Dianfei, LIU, Pengbo, HAO, Yingjie, LIU, Huanxin, PENG, Chao, LI, Guilin, YIN, Yantian, HOU, Kuikui, ZHANG, Haoqin, WU, Qinzhen, LIU, Zhen

54: ALONG-STRIKE SLICING DRIFT TWO-STEP STOPPING UPWARD FILLING MINING METHOD

00: -

The present disclosure provides an along-strike slicing drift two-step stopping upward filling mining method. The method comprises: dividing ore blocks along the strike of ore bodies, and constructing two central stope cross headings and two two-wing stope cross headings in a direction perpendicular to the strike of the ore bodies; after entering the ore bodies through the central stope cross headings,

performing one-step stoping on the footwall ore bodies through a slicing method, and performing cemented filling after each slice is stoped; and after the footwall ore bodies are stoped to exceed preset slices of the hanging wall ore bodies, performing two-step stoping on the hanging wall ore bodies through the two-wing stope cross headings, and filling a gob to complete mining of the ore bodies. By means of the above manner, the present disclosure can control stoping area, and reduce sealing frequency of development engineering.



21: 2022/06354. 22: 2022/06/08. 43: 2022/09/02

51: C04B

71: Chinese Research Academy of Environmental Sciences

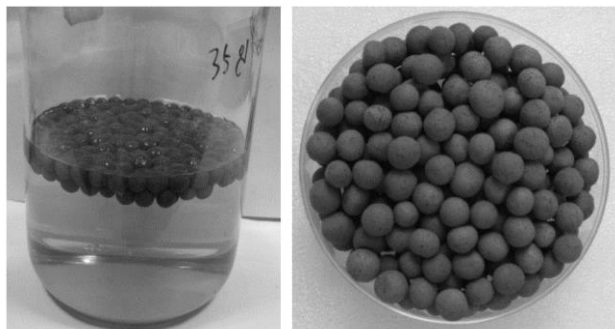
72: YE, Chun, LI, Chunhua, WEI, Weiwei, ZHANG, Dan

54: METHOD FOR PREPARING CERAMSITES FOR SURFACE WATER PURIFICATION BY UTILIZING LAKE SEDIMENTS

00: -

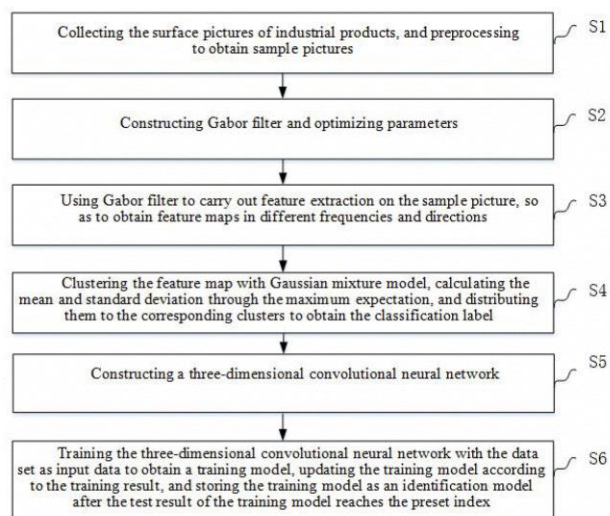
The invention provides a method for preparing lightweight ceramsites for water treatment by utilizing waste materials such as lake sediments, etc., including the following steps: 1) the lake sediments are dried to moisture content below 20%, and made into powder below 100 mesh; dried steel slags are made into powder below 80 mesh; straws are dried and made into powder below 60 mesh; 2) the above pretreated lake sediments, steel slags and straws are uniformly mixed, stirred with water, and after uniformly mixing, raw meal pellets are formed; in the raw meal pellets, the content of sediments is 80%-100% by dry weight; 3) prepared raw meal pellets are dried; 4) the dried raw meal pellets are kept in a

muffle furnace at a temperature of 1080 degree Celsius-1150 degree Celsius for 5-15min, then taken out, and cooled to obtain expanded lightweight ceramsite filter materials for water treatment.



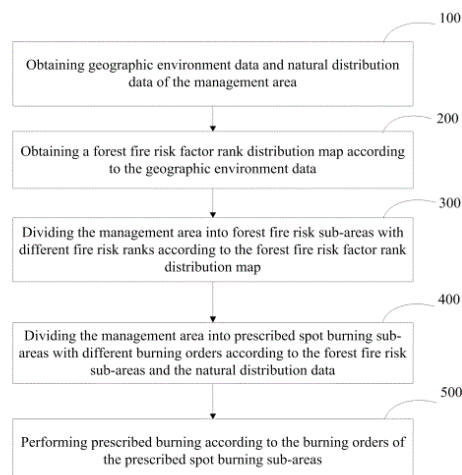
21: 2022/06355. 22: 2022/06/08. 43: 2022/09/02
51: G06T
71: JIANGSU UNIVERSITY OF TECHNOLOGY
72: YAO Keming, WANG Xiaolan
54: INDUSTRIAL PRODUCT SURFACE DEFECT IDENTIFICATION METHOD AND DEVICE
00: -

The invention provides an industrial product surface defect identification method and a device, wherein that method comprises the following step of: collecting the surface pictures of industrial products, and preprocessing to obtain sample pictures; constructing Gabor filter and optimizing parameters; using Gabor filter to carry out feature extraction on the sample picture, so as to obtain feature maps in different frequencies and directions; clustering the feature map with Gaussian mixture model, calculating the mean and standard deviation through the maximum expectation, and distributing them to the corresponding clusters to obtain the classification label; constructing a three-dimensional convolutional neural network; training the three-dimensional convolutional neural network with the data set as input data to obtain a training model, updating the training model according to the training result, and storing the training model as an identification model after the test result of the training model reaches the preset index.



21: 2022/06356. 22: 2022/06/08. 43: 2022/09/02
51: G06Q
71: Southwest Forestry University
72: GAO, Zhongliang, WANG, Hechenyang, LONG, Tengpeng, SHU, Lifu, LI, Zhi, WANG, Qiu Hua, CHENG, Cheng, DENG, Zhongjian, HAN, Li, WANG, Qie, ZHOU, Ruliang
54: PRESCRIBED BURNING METHOD BASED ON FOREST FIRE RISK RANK REGIONALIZATION AND MULTI-DATA SPOT SELECTION
00: -

Disclosed is a prescribed burning method and system based on forest fire risk rank regionalization and multi-data spot selection in the present disclosure. A forest area prescribed to be burned is a management area, and geographic environment data and natural distribution data of the management area are obtained; a forest fire risk factor rank distribution map is obtained according to the geographic environment data; the management area is divided into forest fire risk sub-areas with different fire risk ranks according to the forest fire risk factor rank distribution map; the management area is divided into prescribed spot burning sub-areas with different burning orders according to the forest fire risk sub-areas and the natural distribution data; prescribed burning is performed according to the burning orders of the prescribed spot burning sub-areas.



21: 2022/06357. 22: 2022/06/08. 43: 2022/09/02
51: F17C

71: Sinoma Science & Technology (Chengdu) Co., Ltd
72: LI Ming, YUAN Zhuowei, GUO Yongzhi, HUANG Min

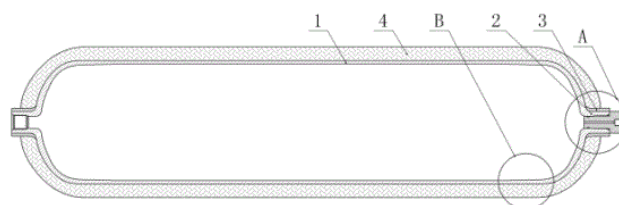
54: III-TYPE HYDROGEN STORAGE BOTTLE SUITABLE FOR 70MPa GAS FILLING STATION AND PROCESSING METHOD THEREOF

00: -

The application relates to the related technical field of hydrogen storage bottle, and in particular to a III-type hydrogen storage bottle suitable for 70MPa gas filling station and its processing method. The hydrogen storage bottle comprises an inner container, a carbon fiber winding layer and a glass fiber protective layer, the carbon fiber winding layer is sleeved outside the inner container, and the glass fiber protective layer is sleeved outside the carbon fiber winding layer; the wall thickness of the middle part of the inner container is greater than or equal to 10mm, and the wall thickness of the two ends of the inner container is greater than the wall thickness of the middle part of the inner container; at least one end of the inner container is provided with a bottle mouth and is fixed with a bottle mouth extension part, the bottle mouth extension part is aligned with the bottle mouth, the bottle mouth extension part is tubular and penetrates through the carbon fiber winding layer and the glass limiting layer, a sealing plug is detachably connected in the bottle mouth extension part, a sealing ring is arranged between the sealing plug and the bottle mouth extension part, a hoop is sleeved outside the bottle mouth extension part, and the hoop is opposite to the sealing plug.

The III-type hydrogen storage bottle suitable for

70MPa gas filling station can adapt to the working pressure of 70MPa and above, and improve the hydrogen storage effect.



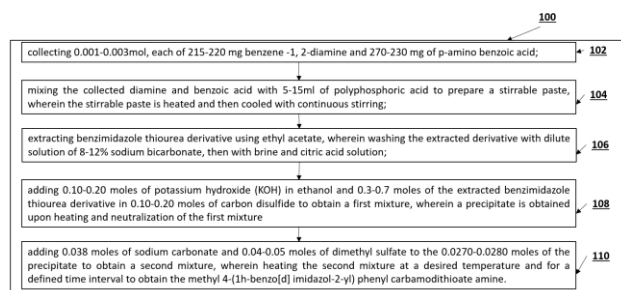
21: 2022/06361. 22: 2022/06/08. 43: 2022/08/30
51: C07C

71: Bhuneshwar D Tripathi, Laliteshwar P Singh, Anuj Malik, Gulzar Alam, Anurag Kumar, Srishti Tiwari, Bhaiya Rastogi, Brij Yog, Sachin Kumar Agrahari, Umesh Kumar Sharma, Dinesh Kumar, Pranjal Sachan, Ruchi Singh, Ranjan Kumar
72: Bhuneshwar D Tripathi, Laliteshwar P Singh, Anuj Malik, Gulzar Alam, Anurag Kumar, Srishti Tiwari, Bhaiya Rastogi, Brij Yog, Sachin Kumar Agrahari, Umesh Kumar Sharma, Dinesh Kumar, Pranjal Sachan, Ruchi Singh, Ranjan Kumar

54: A COMPOSITION AND A METHOD FOR SYNTHESIS OF METHYL 4-(1H-BENZO[D]IMIDAZOL-2-YL) PHENYL CARBAMODITHIOATE AMINE DERIVATIVES

00: -

A method (100) for synthesis of methyl 4-(1h-benzo[d] imidazol-2-yl) phenyl carbamodithioate amine derivatives, comprises of: collecting 0.001-0.003mol, each of 215-220 mg benzene -1, 2-diamine and 270-230 mg of p-amino benzoic acid; mixing with benzoic acid, 5-15ml of polyphosphoric acid to prepare a stirrable paste; extracting benzimidazole thiourea derivative using ethyl acetate, washing with dilute solution of 8-12% sodium bicarbonate, then with brine and citric acid solution; adding 0.10-0.20 moles of KOH in ethanol and 0.3-0.7 moles of the extracted benzimidazole thiourea derivative in 0.10-0.20 moles of carbon disulfide to obtain a first mixture, and then a precipitate upon heating and neutralization and adding 0.038 moles of sodium carbonate and 0.04-0.05 moles of dimethyl sulfate to the 0.0270-0.0280 moles of the precipitate at a desired temperature and for a defined time interval to obtain the methyl 4-(1h-benzo[d] imidazol-2-yl) phenyl carbamodithioate amine to obtain a second mixture.



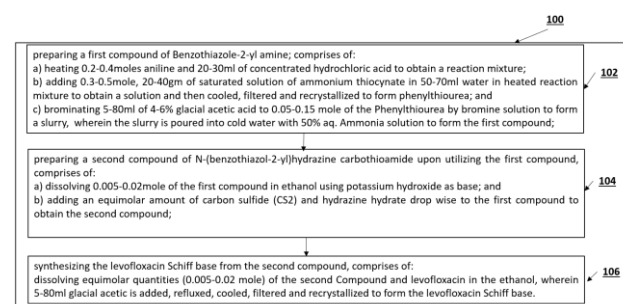
21: 2022/06362. 22: 2022/06/08. 43: 2022/08/30
51: B01J

71: Dr. Stuti Verma, Dr. Lalit Kumar Tyagi, Dr. Laliteswar Pratap Singh, Bhuneshwar Dutta Tripathi, Dr. Brijesh Singh, Swati Singh, Shalini Pal, Shubham Sharma, Indu Singh, Nishi Shukla, Dr. Bandana Singh

72: Dr. Stuti Verma, Dr. Lalit Kumar Tyagi, Dr. Laliteswar Pratap Singh, Bhuneshwar Dutta Tripathi, Dr. Brijesh Singh, Swati Singh, Shalini Pal, Shubham Sharma, Indu Singh, Nishi Shukla, Dr. Bandana Singh

54: A COMPOSITION AND A METHOD FOR SYNTHESIS OF LEVOFLOXACIN SCHIFF BASES

00: -
A method (100) for synthesis of levofloxacin schiff bases, comprises of: preparing a first compound by heating 0.2-0.4moles aniline and 20-30ml of concentrated hydrochloric acid to obtain a reaction mixture; adding 0.3-0.5mole, 20-40gm of saturated solution of ammonium thiocyanate in 50-70ml water in heated reaction mixture to form phenylthiourea; and brominating 5-80ml of 4-6% glacial acetic acid to 0.05-0.15 mole of the Phenylthiourea by bromine solution; preparing a second compound by dissolving 0.005-0.02mole of the first compound in ethanol using potassium hydroxide as base; and adding an equimolar amount of CS₂ and hydrazine hydrate drop wise to the first compound; synthesizing the levofloxacin Schiff base by dissolving equimolar quantities (0.005-0.02 mole) of the second Compound and levofloxacin in the ethanol, wherein 5-80ml glacial acetic is added, refluxed, cooled, filtered and recrystallized.



21: 2022/06363. 22: 2022/06/08. 43: 2022/08/30
51: H04L

71: BOHRA, Ayush Sunil, PRASAD, Jayashree Rajesh, PRASAD, Rajesh Shardanand
72: BOHRA, Ayush Sunil, PRASAD, Jayashree Rajesh, PRASAD, Rajesh Shardanand

54: A SYSTEM FOR PASSWORD-LESS MACHINE-TO-MACHINE AUTHENTICATION

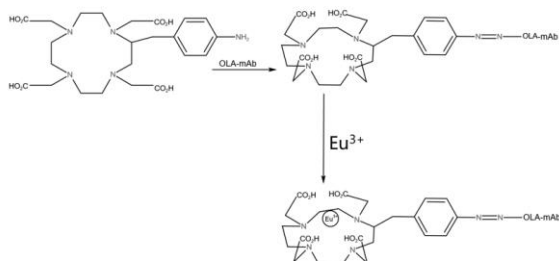
00: -
When a user attempts to approve certain web-applications or any device authentication system using his credentials, he is unaware that the web-application is a phishing site or a credential harvester in comparison to the original site. Thus, the user attempts to authenticate with his or her own username and password, which is then validated against a set of hashes in the database, granting the user access to his or her own account. As a result, the attacker gains access to user credentials, which leads to account hijacking. To prevent this, the concept of password-less machine-to-machine authentication is introduced, which prevents the user from entering the password and allows the device to authenticate with the database via a stored or fixed URL so that the user credentials are not collected and the device functions as the user's identity for automatically authenticating to provide the user access to his own account.

21: 2022/06396. 22: 2022/06/09. 43: 2022/08/02
51: G01N
71: ZHEJIANG GONGSHANG UNIVERSITY
72: JIN, Renyao, SONG, Yanling, ZHAI, Lu, YANG, Jiacheng

54: LABELING METHOD FOR IMPROVING SIGNAL INTENSITY OF TIME-RESOLVED FLUORESCENCE

00: -
The present invention discloses a labeling method for improving signal intensity of time-resolved fluorescence; and the labeling method can be

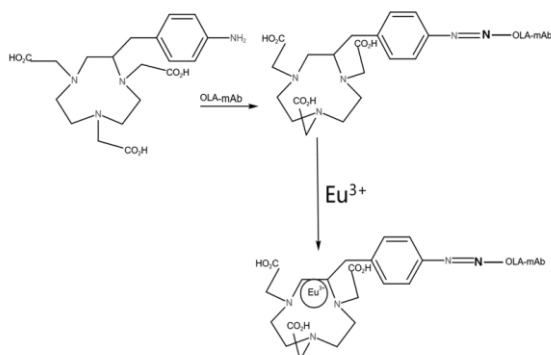
applied in the detection of olaquinox or gentamicin. The olaquinox antibody complex immunolabelled by time-resolved fluorescence prepared in the present invention has a more stable structure, stronger fluorescence signal, and higher detection sensitivity.



21: 2022/06399. 22: 2022/06/09. 43: 2022/08/02
51: G01N
71: ZHEJIANG GONGSHANG UNIVERSITY
72: JIN, Renyao, SONG, Yanling, ZHAI, Lu, YANG, Jiacheng

54: LABELING METHOD FOR IMPROVING SIGNAL INTENSITY OF TIME-RESOLVED FLUORESCENCE

00: -
The present invention discloses a labeling method for improving signal intensity of time-resolved fluorescence; and the labeling method can be applied in the detection of olaquinox or gentamicin. The olaquinox antibody complex immunolabelled by time-resolved fluorescence prepared in the present invention has a more stable structure, stronger fluorescence signal, and higher detection sensitivity.

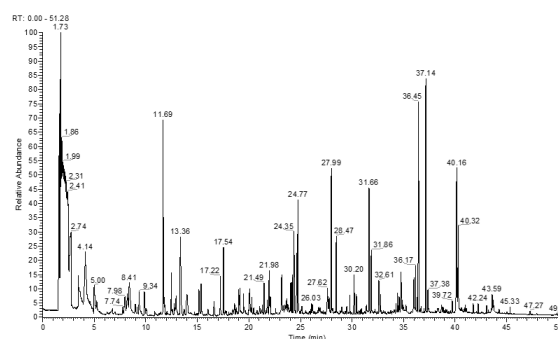


21: 2022/06400. 22: 2022/06/09. 43: 2022/08/02
51: A23L
71: ZHEJIANG GONGSHANG UNIVERSITY

72: JIN, Renyao, LIU, Xiaoxia, ZHAI, Lu, YANG, Jiacheng

54: DRIED FISH FERMENTATION PROCESS AND STARTER CULTURE DEVELOPMENT TECHNOLOGY

00: -
The present invention provides a dried fish fermentation process and a starter culture development technology. A mixed starter culture including *Bifidobacterium species*, *Lactobacillus acidophilus*, *Lactobacillus casei*, *Streptococcus thermophilus* and *Bifidobacterium lactis* is prepared for the mixed fermentation of a dried fish; and salt content in the dried fish is controlled to control a proportional relation of flora in the mixed starter culture and to optimize the fermentation process, thereby preparing more fresh and delicious, fishy-free, more soft and delicate dried fish. Therefore, the dried fish is more popular with consumers.

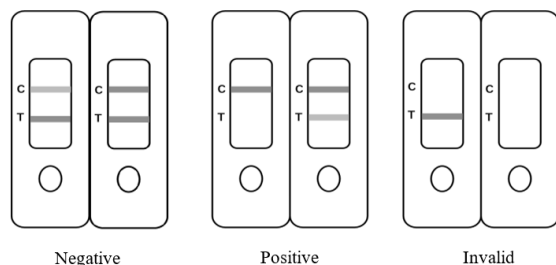


21: 2022/06401. 22: 2022/06/09. 43: 2022/08/02
51: G01N
71: ZHEJIANG GONGSHANG UNIVERSITY
72: JIN, Renyao, LIU, Xiaoxia, YANG, Jiacheng, ZHAI, Lu

54: EUGENOL TIME-RESOLVED FLUORESCENCE IMMUNOCHROMATOGRAPHIC TEST STRIP AND PREPARATION METHOD THEREOF

00: -
The present invention provides a eugenol time-resolved fluorescence immunochromatographic test strip and a preparation method thereof. Eu^{3+} is coupled with nano-fluorescent microspheres, and coupled with eugenol monoclonal antibody and then is sprayed on the binding pad; a test line is coated and coupled with the eugenol carrier protein, a control line is coated with a goat anti-mouse IgG antibody and immobilized on a reaction membrane to form an immunochromatographic test strip, and the production parameters of the test strip are optimized, so that the detection sensitivity of the prepared test strip is up to 0.1 $\mu\text{g/mL}$, which fits well with the HPLC test results. Due to good accuracy

and precision, the test strip is applicable for rapid detection of eugenol residues in aquatic products, providing a method suitable for on-site rapid detection by regulatory authorities and testing organizations.



21: 2022/06413. 22: 2022/06/09. 43: 2022/08/19
51: A01C

71: GUANGXI ACADEMY OF AGRICULTURAL SCIENCES, GUANGXI UNIVERSITY, Guangxi Academy of Specialty Crops, Guangxi Zhencheng Agriculture Co., Ltd.

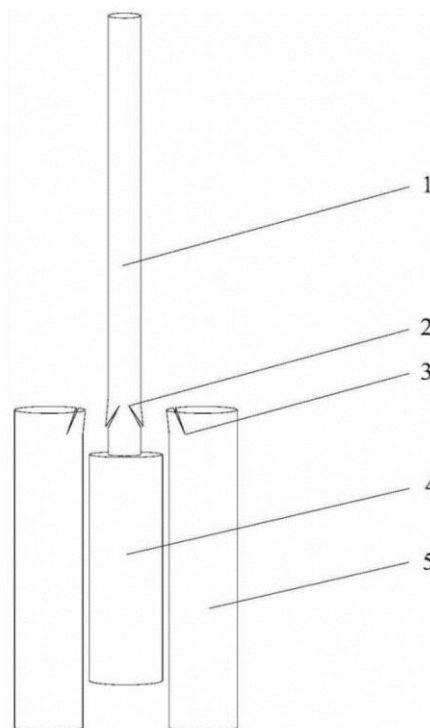
72: LIN Ling, HAN Jiayu, CAO Xiongjun, ZHANG Ying, SONG Yaqin, WANG Bo, GUO Rongrong, XIE Shuyu, YU Huan, SHI Xiaofang, PAN Fengping, BAI Xianjin, XIE Taili, HUANG Guiyuan, BAI Yang

54: A METHOD FOR CHANGING ROOTSTOCKS WITHOUT AFFECTING GRAPE HARVEST

00: -

This invention relates to the field of agricultural planting, in particular to a rootstock replacement method that does not affect the grape harvest. This application relates to a rootstock replacement method for grape grafted seedlings that have started to bear fruit in 1?2 years, which requires not only keeping the current year's fruit of grapes, but also keeping the survival rate of grafted seedlings in sound generation, replacing rootstock grafting generations, and planting new rootstocks next to grafted plants instead of adopting traditional scions and rootstocks. Graft the scion directly without cutting off the original rootstock and scion, forming a transitional growth system of one scion and two rootstocks (original rootstocks and new rootstocks). When the thickness of the new rootstocks is almost the same as that of the original rootstocks, this generation will ask for the nutritional supply of the scion of the original rootstocks, and then cut off the original rootstocks. Such a grafting method will ensure the survival rate of grafted seedlings after the rootstocks are changed, and the grape harvest will not be affected. The superior rootstocks will be replaced by paying the principal by sound

generation, and the reduction of the maximum breadth will be required.



21: 2022/06414. 22: 2022/06/09. 43: 2022/08/19
51: G06Q

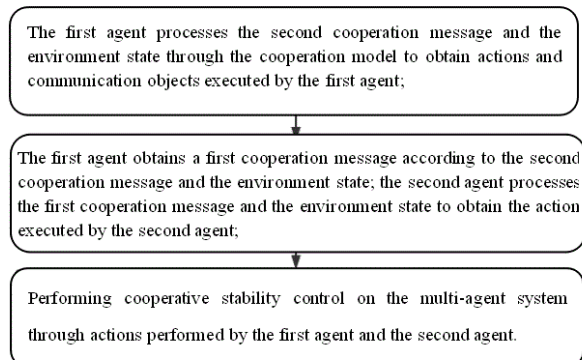
71: Huainan Normal University

72: DU Jun, WANG Limin

54: METHOD AND SYSTEM FOR CONTROLLING STABILITY OF MULTI-AGENT SYSTEM

00: -

The application discloses a method and a system for controlling stability of multi-agent system, and comprises: The first agent processes the second cooperation message and the environment state through the cooperation model to obtain actions and communication objects executed by the first agent; the first agent obtains a first cooperation message according to the second cooperation message and the environment state; the second agent processes the first cooperation message and the environment state to obtain the action executed by the second agent; and performing cooperative stability control on the multi-agent system through actions performed by the first agent and the second agent.



21: 2022/06415. 22: 2022/06/09. 43: 2022/08/19
51: A01D; A01F

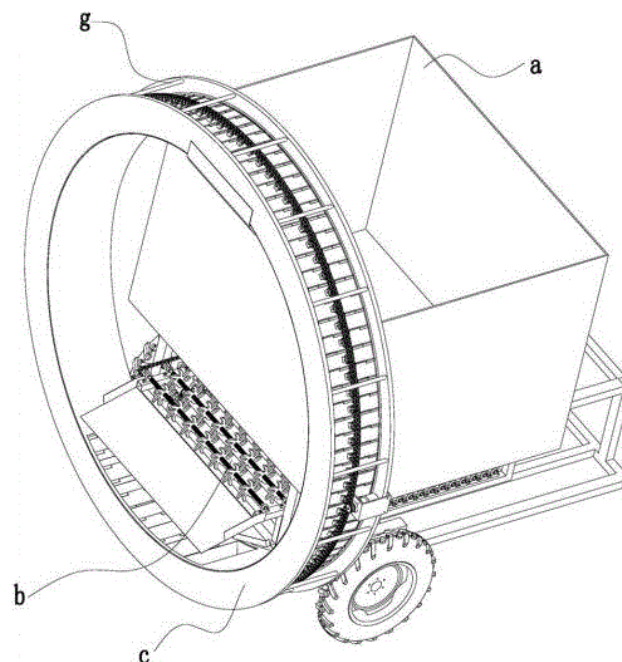
71: Xinjiang Zhongbo Qirui Agricultural Technology Co., Ltd

72: YUAN Xiaowei, LV Huijie, WU Zhaolei

54: PEPPER LIFTING DEVICE AND METHOD THEREOF

00: -

A pepper lifting device and a method thereof comprise an aggregate bin, a sorting system and a lifting wheel; the sorting system comprises a reel layer and a roller layer, wherein the reel layer is positioned above the roller layer; the reel layer and the roller layer are in transmission connection through a transmission device; the front end of the roller layer is provided with a pepper conveying plate, and the pepper conveying plate is connected with the feeding port of the lifting wheel; the lifting wheel comprises a wheel body, wherein the wheel body consists of two support plates on both sides in the width direction and a plurality of chain plates located between the two support plates, and the chain plates are arranged along the circumferential direction of the wheel body; a plurality of chain plates are all provided with partitions, which extend along the radial direction of the wheel body toward the center direction of the wheel body, and adjacent partitions and the chain plates which fix them enclose a cavity for containing peppers, and the chain plates and partitions are rotated circumferentially by a driving device to lift the pepper ears in the cavity to a conveying port, which is then conveyed to an aggregate bin. The device can save space, run stably, and promote the advantages that pepper is not easy to crush and is convenient for overall maintenance.



21: 2022/06416. 22: 2022/06/09. 43: 2022/08/19
51: G01N

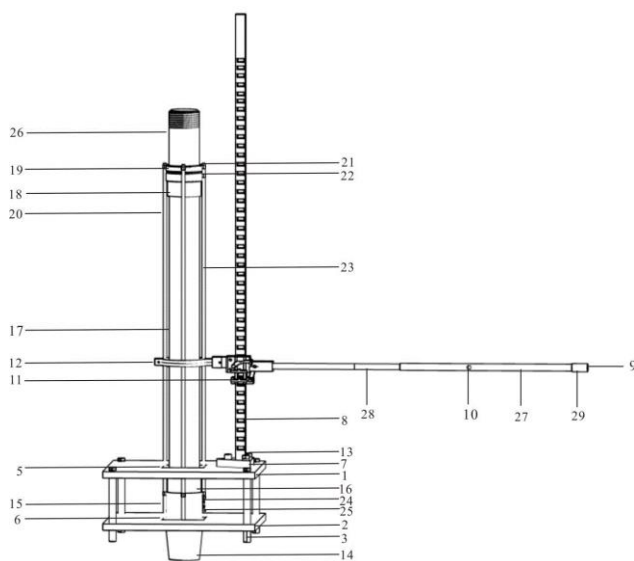
71: CHINA UNIVERSITY OF PETROLEUM, Sinopec Shengli Oilfield Company

72: LI Xin, QIU Longwei, QIN Feng, GONG Jianqiang, FU Jian, AN Tianxia, DONG Daotao

54: SEALABLE FIXED-POINT IN-SITU CORING DEVICE BASED ON MODERN SEDIMENT SHOAL SAMPLING

00: -

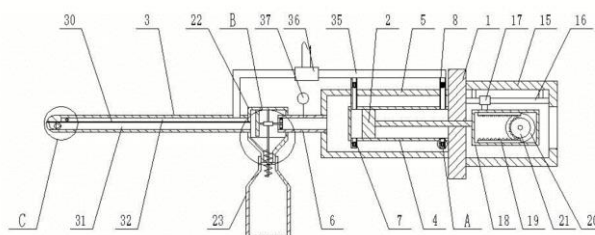
The present disclosure provides a sealable fixed-point in-situ coring device based on modern sediment shoal sampling, which comprises a fixing device, a drilling device, a sediment bearing device, a sealing device and a lifting device; the drilling device is communicated with the sediment bearing device and installed on the fixing device; the fixing device provides stable support for keeping the direction of the drilling device and the sediment bearing device; the sealing device is used for quick sealing to avoid sample loss; and the lifting device is used for lifting the sediment bearing device. The present disclosure has scientific and reasonable structural design, strong practicability and convenient carrying and assembly, can meet the requirements of sampling operation in the field, and effectively ensures the sampling effect of sediments.



21: 2022/06420. 22: 2022/06/09. 43: 2022/08/19
 51: A61M
 71: Affiliated Hospital of Youjiang Medical University for Nationalities
 72: LU Qixiang, WANG Jianyuan, WU Dongli, LU Lizhu, ZHAO Xuena
54: A MEDICAL NURSING ASSISTANT
 00: -

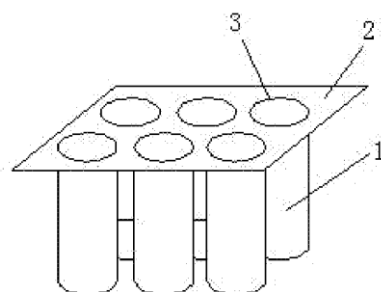
The invention discloses A medical nursing assistant, which comprises a piston-type negative pressure cylinder, wherein the piston-type negative pressure cylinder comprises a connecting plate, one side of the connecting plate is fixedly provided with a negative pressure cylinder, and a piston is slidably connected in the negative pressure cylinder. One end of the negative pressure cylinder away from the connecting plate is communicated with a sputum collecting part, and the sputum collecting part is communicated with a sputum suction tube. A driving part is arranged on one side of the connecting plate far away from the negative pressure cylinder, and the driving part is in transmission connection with the piston. According to the invention, the piston-type negative pressure cylinder is driven by the driving part, so that medical staff only need one hand to keep the position of the sputum suction hose motionless, and the sputum suction work can be realized, and the operation is convenient. Moreover, the piston of the piston-type negative pressure cylinder can suck sputum in the push-pull process, with smooth movement and improved sputum suction efficiency. Furthermore, by setting the sputum collecting part, the backflow of sputum in the

sputum suction device can be avoided. Moreover, by dividing the sputum suction tube into two channels, the sputum blocked by the sputum suction tube can be cleaned in time, which greatly improves the effect and progress of sputum suction treatment for patients.



21: 2022/06432. 22: 2022/06/09. 43: 2022/08/22
 51: H01M
 71: YIXING HUIHUA COMPOSITE MATERIAL CO., LTD
 72: XIE, Zhenhua
 33: CN 31: 202010523477.3 32: 2020-06-10
54: INTEGRATED LITHIUM BATTERY
 00: -

Disclosed is an integrated lithium battery, comprising several cylinders, the cylinders each having one end or both ends opening, the opening ends of the cylinders being connected by means of a base plate, and the cylinders being located on the same side of the base plate; the base plate is provided with several through holes corresponding to the openings of the cylinders, the base plate is provided with cover plates for sealing the cylinders, the cover plates and the base plates being adhered to one another by means of an insulating adhesive, the insulating adhesive being located around the through holes, and there is spacing between the cover plates and the base plate; a battery inner core and an electrolyte are provided in each cylinder, positive and negative lugs of the battery inner core are respectively connected to the cylinder or the cover plate; and the base plate, the cover plates and the cylinders are all made of a metal material. The present invention is manufactured as an integrated structure, and does not need a subsequent assembly process of battery cells, is more secure and reliable, and has a good heat dissipation effect.



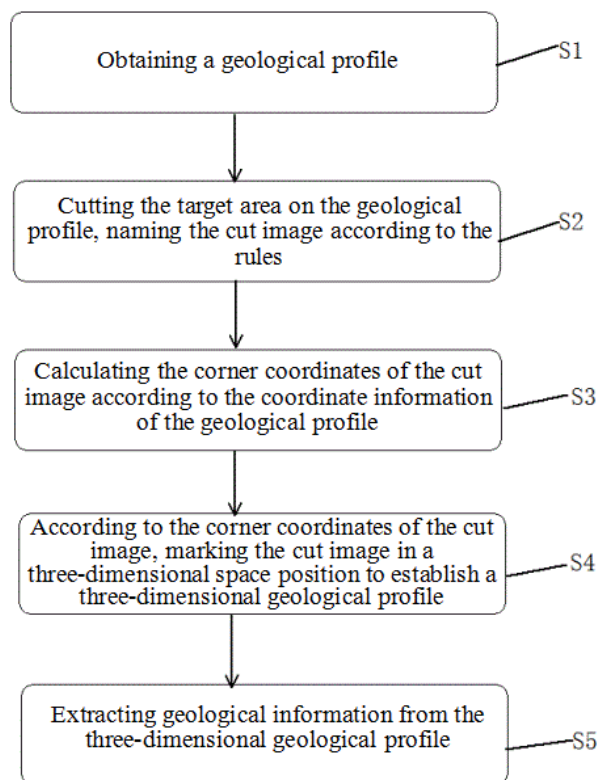
21: 2022/06463. 22: 2022/06/10. 43: 2022/08/19
51: G06F

71: Qinghai Institute of Geological Surveying and Mapping Geographic Information
72: CONG Xiaoming, PAN Tong

54: METHOD AND DEVICE AND STORAGE MEDIUM FOR EXTRACTING THREE-DIMENSIONAL SPATIAL INFORMATION OF GEOLOGICAL PROFILE

00: -

The invention disclose a method, a device and a storage medium for extracting three-dimensional spatial information of a geological profile; the method comprises that following steps: obtaining a geological profile; cutting the target area on the geological profile, naming the cut image according to the rules, and converting the data format of the cut image into a standard data format; according to the coordinate information of the geological profile, calculating the corner coordinates of the cut image; according to the corner coordinates of the cut image, calibrating the cut image in a three-dimensional space position, and establishing a three-dimensional geological profile; extracting geological information from three-dimensional geological profile. By adopting the technical scheme of the invention, the three-dimensional spatial position recovery of the two-dimensional geological map can be quickly and accurately realized, and all elements of geological information carried by the profile map can be extracted, thus providing accurate data support for the three-dimensional geological modeling and improving the modeling efficiency.



21: 2022/06464. 22: 2022/06/10. 43: 2022/08/19
51: A01H

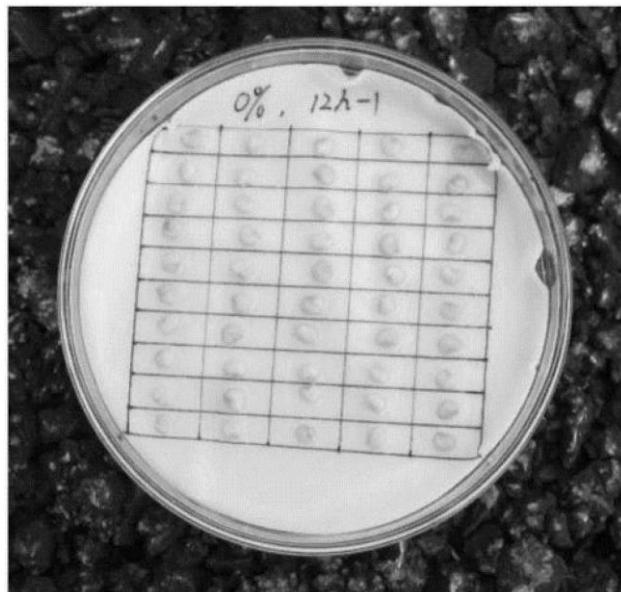
71: Guizhou province pepper research institute
72: HUANG Dongfu, FAN Gaoling, FU Wenting, HE Jianwen

54: METHOD FOR CONSTRUCTING PEPPER MUTANT LIBRARY BY USING ETHYL METHYL SULFONATE

00: -

The application discloses a method for constructing pepper mutant library by using ethyl methyl sulfonate. In the application, 'Zunla No.1' is taken as a mutagenic object, on the premise of indicating the influence of the treatment solution dosage and the exclusion space of each seed on the germination rate, the semi-lethal dose is determined by comparing the germination rate of pepper seeds with different concentrations of EMS treatment solution under different mutagenesis time. The semi-lethal dose mutagenesis is used for treating the pepper seeds, the mutation frequency and the mutation type of the M2 generation are investigated, mutants which can be stably inherited in the M4 generation are identified, and a mutant library is constructed; according to the application, mutation types such as leaves, stems, fruits, growth periods, flower organs,

fertility and the like are obtained, rich materials are created for the research on the functional genomics of hot peppers, and meanwhile, part of beneficial mutations can be directly applied to breeding practice.



21: 2022/06467. 22: 2022/06/10. 43: 2022/08/19
51: C07D

71: Shaoxing University, Zhejiang Pharmaceutical Co., Ltd

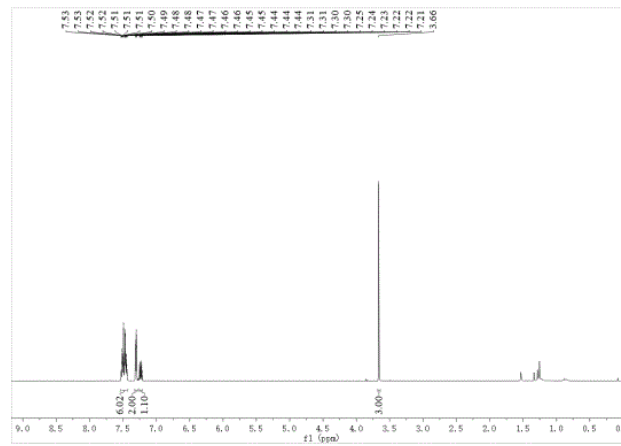
72: WEI Xuemei, CAI Tao, ZHA Juan, SHEN Hualiang, YU Guoqi, XU Huiting, HEI Yanlin, LUO Yanjuan, SHANG Tianbo

54: PREPARATION METHOD OF 3-HALOGENATED INDOLE COMPOUNDS

00: -

The application discloses a preparation method of 3-halogenated indole compound, which belongs to the technical field of heterocyclic compound preparation. In the ether solvent, 2-ethynyl aniline or its derivative and halide MX are used as raw materials, and the 3-halogenated indole compounds are obtained through catalytic reaction; the method specifically comprises the following steps: in the ether solvent, 2-ethynyl aniline or its derivative and halide MX are used as raw materials, and the 3-halogenated indole compound is obtained through catalytic reaction of catalyst; the ether solvent is one of tetrahydrofuran, tetrahydropyran, diethyl ether, 1, 4-dioxane, methyl ethyl ether and furan; the catalyst is monopersulfate; the temperature of the catalytic reaction is not higher than 40 degree Celsius, the application has the

advantages of simple preparation steps, high product yield, mild reaction conditions, environmental protection, simple raw materials, cheap and easily available substances, and greatly reduces the production cost.



21: 2022/06468. 22: 2022/06/10. 43: 2022/08/19
51: B21D

71: ShanDong JiaoTong University

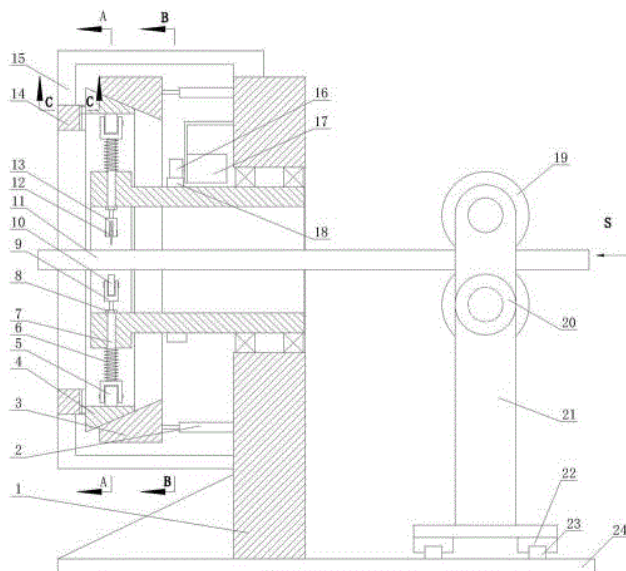
72: SUN Qin

54: AUTOMATIC PIPE CUTTING DEVICE AND PIPE CUTTING METHOD

00: -

The invention relates to the technical field of pipe cutting equipment, and in particular to an automatic pipe cutting device and a pipe cutting method. The automatic pipe cutting device comprises a feeding mechanism and a clamping and cutting mechanism, wherein the clamping and cutting mechanism comprises a hollow rotating roller, a gear ring is sleeved outside the rotating roller, and the gear ring is meshed with a gear at the shaft end of the rotary motor I; the device also comprises an annular fixed chute sleeve which is slidably connected with an even number of sliding keys, the sliding keys are fixedly connected with the partial vertebral bodies, and the partial vertebral bodies are slidably connected with the taper sleeves; the taper sleeve is connected with a push rod motor; the partial vertebral bodies at the top and bottom are respectively connected with a follow-up bearing, each follow-up bearing is fixedly connected with a sliding rod, and a spring is sleeved on the sliding rod; the sliding rod at the top is connected with the cutter; the sliding rod at the bottom is connected with the idler; the pipe cutting method adopts the automatic pipe cutting device to automatically cut the

pipe. The automatic pipe cutting device provided by the invention can cut pipes with different diameters, fix the pipes during cutting, and has good cutting effect.



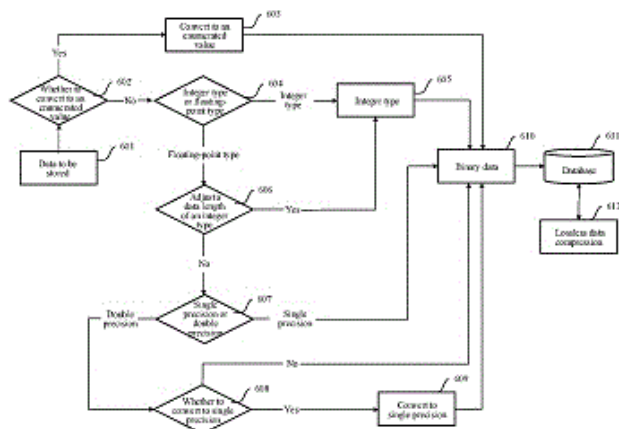
21: 2022/06486. 22: 2022/06/10. 43: 2022/07/12
51: G06Q; F03D; G06N
71: ENVISION DIGITAL INTERNATIONAL PTE. LTD. , SHANGHAI ENVISION DIGITAL CO., LTD.
72: DONG, AO, ZHAO, QINGSHENG, YIN, ZHONGJI, AI, YONG, CUI, WEIYU
33: CN 31: 201911163284.5 32: 2019-11-25
54: METHOD AND APPARATUS FOR DETECTING FAULT, METHOD AND APPARATUS FOR TRAINING MODEL, AND DEVICE AND STORAGE MEDIUM

00: -
Disclosed are a method and apparatus for detecting a fault, and a method and apparatus for training a model. The method includes: acquiring characteristic data and actual temperature of a first wind turbine among n wind turbines, wherein the characteristic data of the first wind turbine is intended to characterize a working state of the first wind turbine, and n is an integer greater than 1; acquiring a prediction temperature set by inputting the characteristic data of the first wind turbine into a temperature prediction model corresponding to each of the n wind turbines; and detecting, based on the predicted temperature set and the actual temperature of the first wind turbine, whether the first wind turbine encounters a fault. Compared with the related art which depends on the working experience

of the staff, the technical solution according to the embodiments of the present disclosure can more accurately detect whether a wind turbine encounters a fault, and provide early warning in time, so as to reduce the failure rate of the wind turbine.

21: 2022/06487. 22: 2022/06/10. 43: 2022/07/12
51: G06F; G06Q
71: ENVISION DIGITAL INTERNATIONAL PTE. LTD. , SHANGHAI ENVISION DIGITAL CO., LTD.
72: LEI, LI, ZHAO, HONG, CHEN, XIAOMENG, NING, DEGANG
33: CN 31: 201911154471.7 32: 2019-11-22
54: METHOD AND APPARATUS FOR STORING DATA, AND COMPUTER DEVICE AND STORAGE MEDIUM THEREOF

00: -
Disclosed are a method and apparatus for storing data. The method includes: acquiring data to be stored; converting the data to be stored from an initial data type to a target data type, a data length corresponding to the target data type being less than that corresponding to the initial data type; and storing the data to be stored of the target data type to a database. In the method according to the present disclosure, a storage space occupied by the data to be stored in the database is greatly reduced. In addition, the method according to the present disclosure is performed prior to lossy or lossless data compression storage of the data to be stored in the related art. That is, on the basis of a compression ratio when the data to be stored is stored in the related art, the present disclosure further improves a compression effect of the data to be stored by reducing the data length when the data to be stored is stored, and further saves storage resources of the database.



21: 2022/06507. 22: 2022/06/13. 43: 2022/08/19
51: A61K

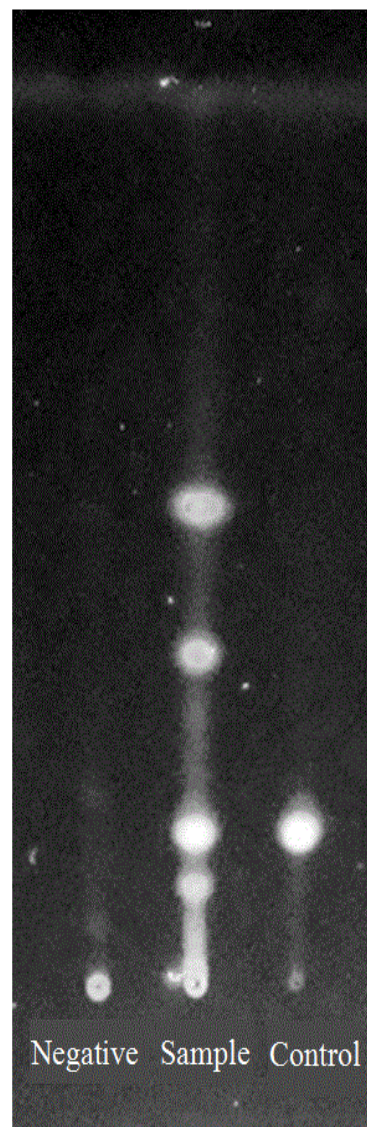
71: Institute of Chinese Materia Medica, China
Academy of Chinese Medical Sciences

72: TIAN Jixiang, ZHAO Xiaolang, JIN Rixian,
ZHANG Dong

54: CHINESE MEDICINAL COMPOSITION, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a traditional Chinese medicine composition, a preparation method and application thereof, belonging to that technical field of traditional Chinese medicine preparation. the raw material comprise the following components in parts by weight: 1-5 part of Coptis chinensis Franch., 1-5 parts of cicada slough, 2-7 parts of Fagopyrum dibotryss, 2-7 parts of Folium Isatidis, 6-14 parts of clam shell, 6-14 parts of talcum and 1-4 parts of licorice; the herbal compositions described are used in the preparation of medicines for the treatment of pharyngitis and are suitable for acute pharyngitis or acute attacks of chronic pharyngitis of the lung and stomach containing heat type, no adverse reactions have been detected and the therapeutic effect is remarkable.



21: 2022/06511. 22: 2022/06/13. 43: 2022/08/19
51: C08L

71: FUZHOU UNIVERSITY

72: LI Xiaojing, TU Jiayi, ZHANG Fang

54: STANDARD RUBBER SAMPLE FOR DETERMINATION OF 2- MERCAPTOBENZOTHAZOLE AND PREPARATION METHOD

00: -

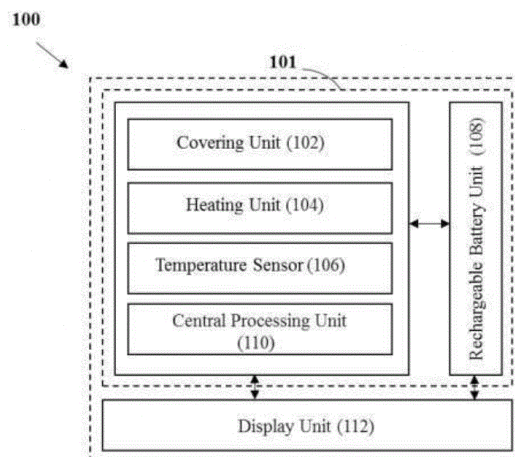
The invention belongs to the technical field of rubber samples. The invention provides a preparation method of a standard rubber sample for determination of 2-mercaptobenzothiazole comprises the following steps: plasticating raw rubber to obtain plasticated rubber; mixing plasticated rubber, solid softener and oil to obtain a mixed product; mixing the mixed product, filler and

2-mercaptobenzothiazole to obtain mixed rubber; mixing the mixed rubber with vulcanizing agent, and then carrying out vulcanization reaction to obtain standard rubber sample for determination of 2-mercaptobenzothiazole. The standard rubber sample for determination of 2-mercaptobenzothiazole obtained by the preparation method of the invention has high reproducibility and repeatability, and the daytime repeatability standard deviation and reproducibility standard deviation are small.

21: 2022/06513. 22: 2022/06/13. 43: 2022/08/19
51: A47J
71: MANIPAL UNIVERSITY JAIPUR
72: Mr. Abhay Kashyap, Dr. Amit Datta, Dr. Shambo Roy Chowdhury

54: ELECTRICALLY HEATED TEA COZY

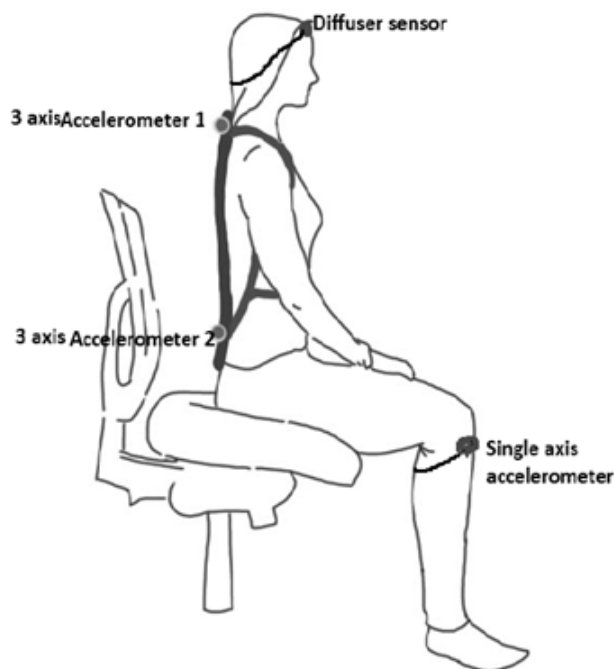
00: -
The present invention relates to a smart electrically heated tea cozy (100). The smart electrically heated tea cozy (100) comprises a covering unit (102), a heating unit (104), a temperature sensor (106), a rechargeable battery unit (108), and a central processing unit (110). The heating unit (104) includes a heating element. The battery (108) operated tea cozy has a heating element inside the insulated fabric of the tea cozy. The heating element retains the heat inside the tea pot for a longer duration. The heating element is supposed to maintain a constant temperature during its time of operation. The present invention provides a smart electrically heated tea cozy (100) to the user that can be remotely monitored.



21: 2022/06518. 22: 2022/06/13. 43: 2022/08/30
51: A61B
71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, JAHAGIRDAR, Aditi, PHALNIKAR, Rashmi
72: JAHAGIRDAR, Aditi, PHALNIKAR, Rashmi
54: AN INTEGRATED SYSTEM FOR PREDICTION OF FUTURE INJURIES BY DETECTION OF IMPROPER SITTING POSITION AND EXTENDED SCREEN TIME

00: -
The pandemic made many people to work from home which reduced their daily physical movements. Seating in one place for longer time and long resting position of the leg has given rise to various problems like eye strain, back pain, neck pain etc. A system which can continuously check the sitting position of the human, duration of screen time and motionlessness of the leg movement and notify him/her has become need of the day. Few applications have been implemented using accelerometers to notify the person to make movement after certain predefined time and avoid excess screen time. Our study shows that an integrated approach which can intimate the user about wrong posture, correction required in the sitting position, leg movement and time to move away from the screen is required. This work proposes a system which uses wearable sensors to accomplish the said task. The data collected from the sensors is analysed to understand the possibility of any injury to the user. This system will provide a simple, economic system to protect the user from damage to his body cause due to improper sitting position. The market survey suggests that available

devices are much more expensive as compared to this setup.



21: 2022/06555. 22: 2022/06/14. 43: 2022/09/09

51: C07C

71: Shenzhen Institute of Geriatrics, Wu Zhengzhi

72: Wu Zhengzhi, Long Bohua, Jiang Qianqian,

Wang Mengxia, Li Limin, Li Ziwen

54: PREPARATION METHOD OF DOCETAXEL CHIRAL SIDE CHAIN INTERMEDIATE

00: -

This invention provides preparation method of docetaxel chiral side chain intermediate, which uses cheap and easily attainable L-phenylglycine 1 as the raw material, this route has the advantages of convenient operation, good stereoselectivity, mild reaction conditions, simple separation and purification, high total yield, and can be scaled up. The adopted raw materials are nontoxic, the production process is pollution-free and environment friendly, which creates favorable conditions for industrial scale production and commercialization of products.

21: 2022/06556, 22: 2022/06/14, 43: 2022/09/09

51: A23L

71: Shenzhen Institute of Geriatrics, Wu Zhengzhi

72: Wu Zhengzhi, Liang Shaoyu, Li Yan, Wang

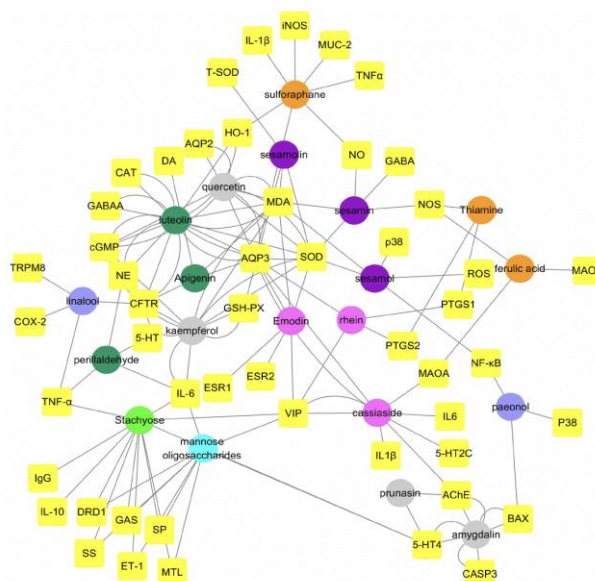
Mengxia, Zhang Miao, Liu Jieren, Li Ziwen, Wu

Junhong

54: ACCURATE MEDICATED DIET PRODUCT FOR PREVENTING AND TREATING SENILE FUNCTIONAL CONSTIPATION AND PREPARATION METHOD THEREOF

00: -

This invention provides accurate medicated diet product for preventing and treating senile functional constipation and preparation method thereof, which comprises the following substances in parts by mass: 1-20 parts of *Moringa oleifera*, 1-20 parts of *Fructus cannabidis*, 1-15 parts of *Semen pruni*, 1-15 parts of *Perilla frutescens*, 1-15 *Cassia tora* Linn, 1-15 *Semen armeniacae amarum*, 1-10 parts of *Linum usitatissimum* L., 1-15 parts of *Citrus aurantium* L. var. *amara* Engl, 0.5-3 parts of mannose oligosaccharides. The precise medicated diet product for preventing and treating senile functional constipation provided by the invention can effectively prevent and treat senile functional constipation, and has low cost, which meets the requirements of industrialized production.



21: 2022/06557, 22: 2022/06/14, 43: 2022/09/09

51: C07D

71: Shenzhen Institute of Geriatrics. Wu Zhengzhi

72: Wu Zhengzhi, Long Bohua, Tao Cheng, Pu

Liuyang

54: EFFICIENT PREPARATION METHOD OF CYCLOTHEONELLAZOLE A CORE SKELETON AND ITS DERIVATIVES

00: -

This invention provides efficient preparation method of Cyclotheonellazole A core skeleton and its

derivatives, with commercially available natural amino acids as synthetic raw materials, through selective docking of different reaction sites, the efficient chemical synthesis of Cyclotheonellazolla A and its core skeleton was realized. On this basis, a series of novel Cyclotheonellazolla A derivatives were chemically synthesized through structural modification.

21: 2022/06558. 22: 2022/06/14. 43: 2022/09/15
51: G01N

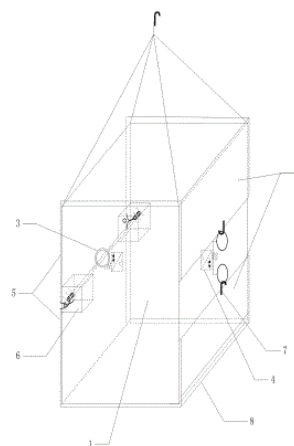
71: Fujian Provincial investigation, Design and Research Institute of Water Conservancy and Hydropower

72: WANG, Ying, SU, Jin, CHEN, Hui, XU, Yan
33: CN 31: 202110725892.1 32: 2021-06-29

54: PRACTICAL UNDERWATER UNDISTURBED DREDGER

00: -

Disclosed is a practical underwater undisturbed dredger, including a sampling box body, a sampling box door, a sensor power switch device, a sensor retaining ring switch device, and a strong nylon rope; front, rear, left and right surfaces of the sampling box body are encircled by a stainless steel plate with a sharp lower end; the sensor power switch device and the sensor retaining ring switch device are arranged inside the sampling box body; upper and lower surfaces of the sampling box body are provided with openings, each of which is provided with one sampling box door; one end of each sampling box door is fixed on the sampling box body, the other end of the sampling box door is connected with the strong nylon rope; and the other end of the strong nylon rope is connected to the sensor power switch device.



21: 2022/06559. 22: 2022/06/14. 43: 2022/09/02
51: G01S

71: China Institute of Water Resources and Hydropower Research, Powerchina Resources Limited

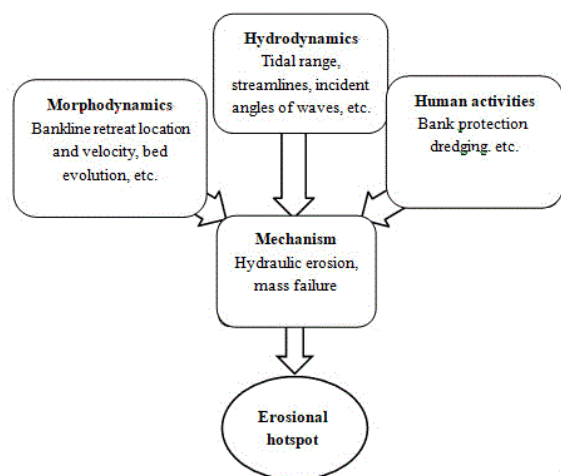
72: WANG, Yuhai, SHENG, Yuming, DENG, Anjun, ZHANG, Guolai, ZHAO, Zhenqing, JI, Zuwen, LI, Yutai, DAI, Chaohui, NIU, Kuan, GUO, Chuansheng, WANG, Dangwei, LUO, Mingqing, LI, Guofeng, SHI, Hongling, ZHAO, Huiming, LU, Qin, LIU, Dabin, DONG, Zhandi, FENG, Haochuan

54: METHOD TO IDENTIFY THE EROSIONAL HOTSPOTS OF TIDE-CONTROLLED ESTUARY BANK

00: -

The present invention discloses a method to identify the erosional hotspots of a tide-controlled estuary bank, including the following steps: S1, morphodynamic analysis; S2, hydrodynamic analysis; S3, mechanism analysis; and S4, erosional hotspot pinpointing. The location and retreat rate of strong erosional sites occurring on an estuarine bankline identified in the morphodynamic analysis, and parameters extracted in the hydrodynamic analysis, including the tangential parts of streamlines, shear stress, and the attack sites of incident waves are judged whether they are coincident or consistent with the bank erosion type identified in the mechanism analysis, and if so, the erosional hotspots of the tide-controlled estuary bankline and its spatial distribution can thus be determined. The present invention can accurately identify the locations and retreat rates of strongly eroding banks in estuarine areas, and is very important for the protection, development and utilization of estuary banklines and tidal flat

resources, ecological restoration and regulation, and disaster prevention and mitigation in estuarine areas, etc.



21: 2022/06560. 22: 2022/06/14. 43: 2022/09/02
51: G09B

71: Zhejiang University

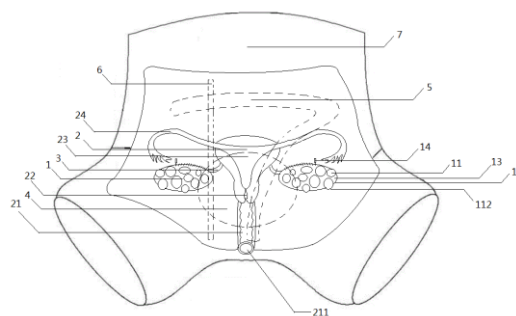
72: Rao Jinpeng, Tian Shen, Jin Min, Feng Chun,
Wang Xiaoyun, Yu Ya

54: A TEACHING AND TRAINING MODEL OF ULTRASOUND-GUIDED TRANSVAGINAL OOCYTE RETRIEVAL

00: -

This invention provides a teaching and training model of transvaginal ultrasound-guided puncture for oocyte retrieval that comprises the female abdominal profile model is internally provided with a vaginal profile model, a cervical profile model, a uterine profile model, a fallopian tube profile model and an ovarian profile model, and the cervical profile model is connected with an exposed vaginal orifice profile model; the ovarian profile model is a pouch, a plurality of follicular profile models are arranged in the pouch, the interior of the follicular profile model is hollow, barbs are arranged on the inner wall of the follicular profile model, and physiological saline is used for simulating follicular fluid is arranged in the follicular profile model, and the physiological saline contains hooks which can be hooked by the barbs. The invention effectively solves the technical problem existed in the prior art that training model of puncture oocyte retrieval can't provide the actual complicated operation experience of follicular aspiration that results in poor training experience

and effect, moreover, this invention realizes the beneficial effects of high simulation reduction, realistic simulation, real experience, strong training pertinence and good training effect.



21: 2022/06561. 22: 2022/06/14. 43: 2022/09/02
51: G06F

71: Tianjin Research Institute for Water Transport
Engineering, M. O. T.

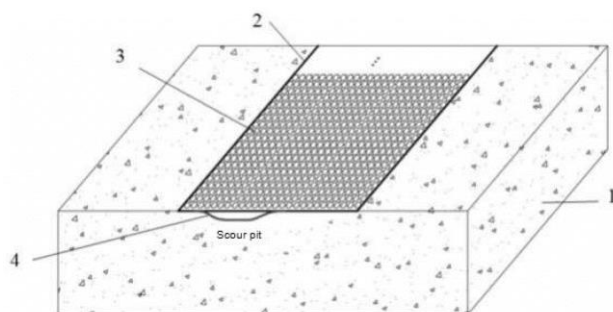
72: LIU Mengmeng, SUN Xiping, WANG Xin, LI
Yuesong, YU Yang

54: OPTICAL FIBER MONITORING DATA PROCESSING METHOD FOR LOCAL DEFORMATION AND SETTLEMENT AT THE END OF SOFT BANK REVETMENT

00: -

The invention discloses a data processing method for monitoring the local deformation and settlement of optical fiber at the end of a bank protection soft row body, which comprises the following steps: integrating and calculating the actual elongation of the bank protection soft row optical fiber according to the measured light data; Assume an initial adjustment parameter $\eta = \eta_0$, and calculate the deformation shape and scouring depth of the revetment soft mattress in combination with the field measured data; Calculate that theoretical elongation of the revetment soft raft; Comparing the actual elongation of the monitoring optical fiber with the theoretical elongation of the revetment soft raft, and gradually adjusting the parameters $\eta = \eta_1, \eta_2, \eta_3 \dots$ until the actual elongation of the monitoring optical fiber of the revetment soft raft is equal to the theoretical elongation of the revetment soft raft, and determining the final value of the adjustment parameter η ; the final shape and scour depth of that bank protection soft raft are obtained. The invention can be use for real-time monitoring that

scour deformation characteristics of bank protection soft raft.



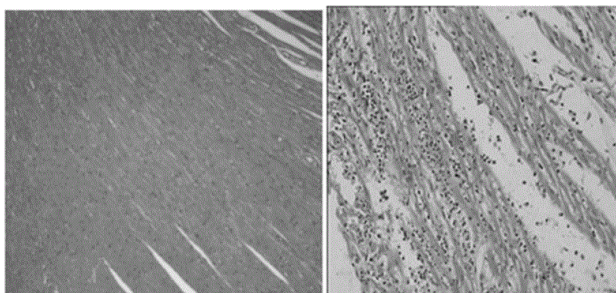
21: 2022/06563. 22: 2022/06/14. 43: 2022/09/02
51: A61K
71: Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences
72: TIAN Jixiang, ZHAO Xiaolang, ZHANG Dong, JIN Rixian

54: CHINESE MEDICINE COMPOSITION FOR TREATING HEART FAILURE AND PREPARATION METHOD THEREOF

00: -

The invention discloses a traditional Chinese medicine composition for treating heart failure and a preparation method thereof, and relates to the technical field of traditional Chinese medicine, comprising the following raw materials in parts by weight: 5-9 parts of

Astragalus membranaceus (Fisch.) Bunge, 3-7 parts of Salvia miltiorrhiza Bge., 3-7 parts of Ophiopogon japonicus (Linn. f.) Ker-Gawl., 1-3 parts of Poria cocos(Schw.)Wolf, 1-3 parts of Lycopus lucidus Turcz.vat.hirtus Regel, 1-2 parts of Angelica sinensis (Oliv.)Diels, 2-4 parts of Rehmannia glutinosa (Gaetn.) Libosch. ex Fisch. et Mey. and 1-2 parts of Citrus aurantium L., 1-2 parts of Platycodon grandiflorus(Jacq.)A.Dc., 1-3 parts of Glycyrrhizae, 1-2 parts of torrefied rhobarb and 1-2 parts of Hirudo nipponica Whitman. The traditional Chinese medicine composition is use for treating chronic heart failure cause by cardiovascular diseases such as coronary heart disease and hypertension, and that symptoms are palpitation, shortness of breath, dyspnea, chest distress and chest pain, spontaneous sweating and night sweats, lack of breath and laziness, limb edema and the like.



Cardiac pathology of blank group

Pathological changes of heart after modeling

21: 2022/06564. 22: 2022/06/14. 43: 2022/09/09
51: G06F

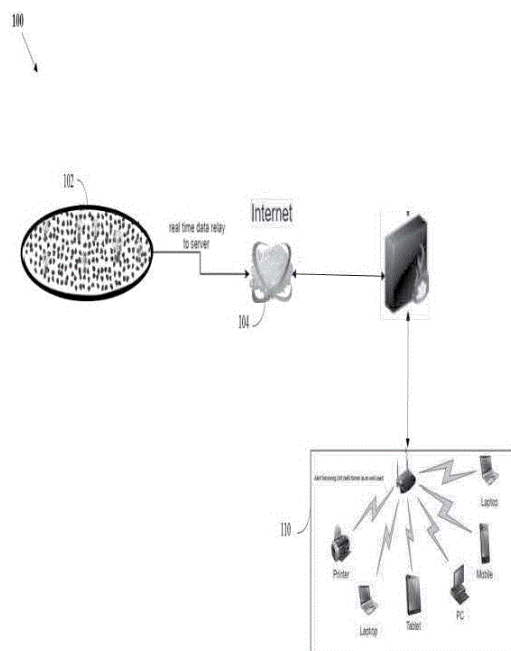
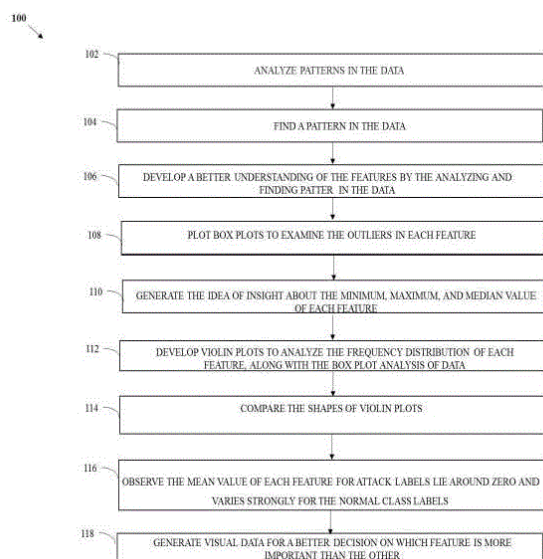
71: Manipal University Jaipur

72: Ms. Neha Sharma, Dr. Saurabh Sharma, Mr. Manan Singh

54: A METHOD FOR EXPLORATORY DATA ANALYSIS AND ENSEMBLE LEARNING BASED CLASSIFICATION OF UNSW-NB15 DATASET

00: -

The present invention relates to a method (100) for exploratory data analysis and ensemble learning based classification of UNSW-NB15 dataset. The method (100) comprise a processor is to analyze (102) patterns in the data; find (104) a pattern in the data; develop (106) a better understanding of the features by the analyzing and finding pattern in the data; plot (108) box plots to examine the outliers in each feature; generate (110) the idea of insight about the minimum, maximum, and median value of each feature, for each class label; develop (112) violin plots to analyze the frequency distribution of each feature, along with the box plot analysis of data; compare (114) the shapes of violin plots; and generate (118) visual data for a better decision on which feature is more important than the other. The present invention provides the best automation in network security with an accuracy of 86.9%.



21: 2022/06565. 22: 2022/06/14. 43: 2022/09/02
51: A01M

71: MANIPAL UNIVERSITY JAIPUR

72: Prof. Roheet Bhatnagar, Mr. Jaideep Singh Sachdev, Dr. Chandan Kumar Panda

54: SMART PHEROMONE TRAP DEVICE AND AN INTELLIGENT FRAMEWORK FOR EARLY DETECTION OF FALL ARMY WORM

00: -

The present invention relates to a system (100) for smart pheromone trap and an intelligent framework for early detection of fall armyworm. The system (100) comprises a pheromone trap unit (102), a data storage unit, a central processing unit and a display unit (104). The pheromone trap unit (102) is configured to monitor fall armyworm and trap fall armyworm. The pheromone trap unit (102) comprises a plurality of sensors, a miniature camera, a light-emitting diode (LED), a transceiver unit and a processing unit. The data storage unit is operationally connected to the pheromone trap unit (102). The data storage unit is configured to store predetermined information of the trap fall army. The central processing unit is operationally connected with the pheromone trap unit (102) and data storage unit. The display unit (104) is configured to provide user interface and display alert signal in real-time. The system (100) automatically analysis the presence of FAW and alert generation to the farmer in real time.

21: 2022/06566. 22: 2022/06/14. 43: 2022/09/09
51: A23K

71: Shandong Academy of Agricultural Science, Shandong Runjing Agricultural Technology Co., Ltd.
72: Jia Chunlin, Wang Sujuan, Gao Run, Guan Cong, Wang Guoliang, Zhang Jinhong, Guo Benxin, Yan Depeng, Liu Yang, Zhang Jinglei

54: RODENT PET FOOD FOR PREVENTING URINARY CALCULUS AND PREPARATION METHOD THEREOF

00: -

This invention belongs to the technical field of pet feed, particularly relates to rodent pet food for preventing urinary calculus and its preparation method. The rodent pet food comprises the following materials: 20-25 parts of grass powder, 8-10 parts of alfalfa ultrafine meal, 8-10 parts of tofu powder, 3-5 parts of egg yolk phosphatidylinositol, 0.05-0.1 part of multivitamin, 3-5 parts of vegetable oil, 8-10 parts of wheat bran, 3-5 parts of Lysimachia christinae, 1-2 parts of Alisma orientalis and 0.3-0.5 part of edible gelatin, 0.05-0.06 part of calcium carbonate and 0.01-0.02 part of butyl hydroxyanisole. The pet food prepared by the invention can be used as a teeth grinding product of rodent pets, and it does not damage the mucous membranes such as the bladder of pets; and it can effectively prevent urinary calculi of rodent pets and enhance the immunity of pets; meanwhile, the preparation method provided

by the invention can increase the palatability of food and promote the growth and development of pets.

21: 2022/06567. 22: 2022/06/14. 43: 2022/09/15

51: A01G

71: CHINA TOBACCO GUANGXI INDUSTRIAL CO., LTD., Hunan Agricultural University, China National Tobacco Corporation Guangdong Company, Guangdong Tobacco Research Institute, South China Agricultural University

72: WEI, Jianyu, LIN, Wanhuang, ZENG, Xiangnan, WANG, Jun, ZHOU, Zhaofeng, WANG, Wei, HUANG, Weixin, CHENG, Yi, JIN, Yabo, JIA, Haijiang, CHEN, Zhenlu, CHEN, Zepeng, LIU, Lan, TIAN, Junling, LI, Zhi, HE, Yuanlan

54: TOBACCO FLOATING SEEDLING-CULTURE SUBSTRATE AND SEEDLING-CULTURE METHOD

00: -

The present invention provides a tobacco floating seedling-culture substrate and seedling-culture method, where the substrate includes, by weight percentage, 70%-85% of organic material component and 15%-30% of natural mineral component, where the organic material component includes peat and decomposed plant straw in a ratio of 1:0.8-1.2; the natural mineral component includes perlite and vermiculite in a ratio of 1:0.5-1.0; and the substrate has a pH value of 5.0-7.0 and a particle size of 1-5 mm. With the method of the present invention, the growth and development of tobacco seedlings can be significantly promoted, the quality of tobacco seedlings can be improved, and the root system is more developed than that with conventional floating seedling-culture and sand seedling-culture. Meanwhile, the method of the present invention helps to improve the quality of tobacco seedling establishment, and promote early and quick growth of tobacco plants after transplanting.

21: 2022/06568. 22: 2022/06/14. 43: 2022/09/15

51: C05F

71: CHINA TOBACCO GUANGXI INDUSTRIAL CO., LTD., Hunan Agricultural University, China National Tobacco Corporation Guangdong Company, Guangdong Tobacco Research Institute, South China Agricultural University

72: WEI, Jianyu, LIN, Wanhuang, ZENG, Xiangnan, WANG, Jun, ZHOU, Zhaofeng, WANG, Wei, HUANG, Weixin, CHENG, Yi, HUANG, Chongjun,

ZHANG, Jili, WANG, Xiaobin, ZONG, Zhaohui, CHEN, Zepeng, LIU, Lan, TIAN, Junling, HE, Yuanlan

54: CAKE FERTILIZER HEAP-RETTING METHOD FOR TOBACCO PRODUCTION

00: -

The present invention provides a cake fertilizer heap-retting method for tobacco production, where a heap-retting site which is leeward and sunward and close to a fertilizer source, with a flat terrain and convenient transportation, is firstly selected; an agricultural film is laid after the site is leveled and cleaned; the cake fertilizer and hog manure are fully mixed in a ratio of 1-1.25:7.5-10, and then poured with cold and hot water successively for composting; the fertilizer heap is sealed for fermentation, and then temperature and humidity management is performed to ensure the normal fermentation in the waste heap. The mixed fertilizer heap-retted according to the method of the present invention is suitable for tobacco planting and can meet the growth requirements of tobacco leaves. The tobacco plants with the fertilizer heap-retted according to the method of the present invention have good growth conditions and improved yields.

21: 2022/06569. 22: 2022/06/14. 43: 2022/09/09

51: A61M

71: Affiliated Hospital of Youjiang Medical University for Nationalities

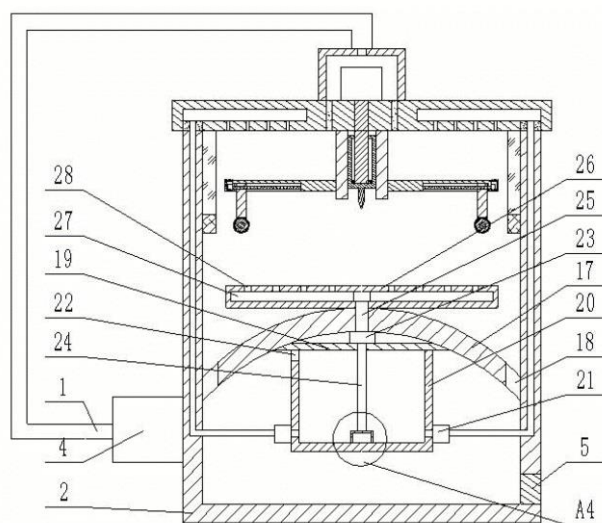
72: MENG Mengquan, WANG Jianyuan, YAO Zhuoxing, WEI Meixian, LIANG Hailing

54: A PURULENT SUCTION DEVICE FOR NURSING IN INFECTION DEPARTMENT

00: -

The invention disclose a purulent suction device for nursing in infection department, which comprises a connecting pipe. Two ends of the connecting pipe are respectively communicated with a pus suction mechanism and a cleaning mechanism, the pus suction mechanism is inserted at the top of the cleaning mechanism, the cleaning mechanism comprises a cleaning cylinder. A flushing mechanism is arranged in the cleaning cylinder, the pus suction mechanism comprises a fixing plate, the bottom surface of that fix plate is fixedly connected with a fixing cylinder. The fixing plate is internally provided with an auxiliary mechanism, a needling mechanism is arranged at the top of the inner cavity of the fixed cylinder. The bottom surface of the fixing

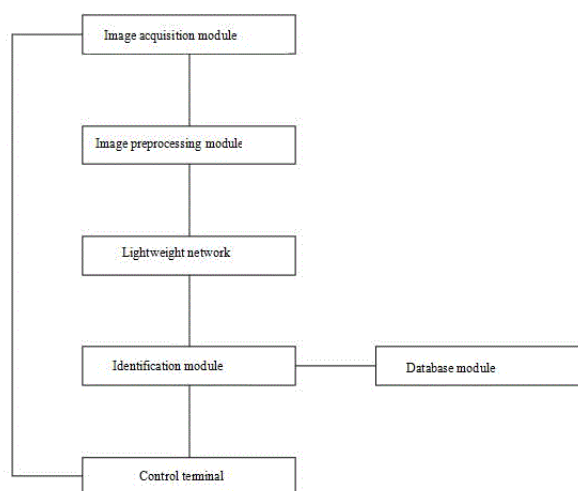
plate is provided with a dry pumping hole, the peripheral surface of that acupuncture mechanism is fixedly connected with a plurality of extrusion rods. The bottom surface of that extrusion rod is provide with a transmission groove. The output shaft of that transmission motor penetrate through one end of the end face of the extrusion rod and is fixedly connected with a screw rod. The other end of the screw rod is rotationally connected with the groove wall of the transmission groove. A transmission rod penetrates through the screw rod. The out wall of that top of the transmission rod is in sliding connection with the groove wall of the transmission groove. The bottom of that transmission rod is provide with an extrusion component.



21: 2022/06570. 22: 2022/06/14. 43: 2022/09/09
51: G06K
71: Coding (Xiamen) Big Data Technology Co. , Ltd.
72: XU Jingyi, CHEN Junde, ZHANG Defu
54: SYSTEM FOR IDENTIFYING RICE DISEASES BY USING LIGHTWEIGHT ATTENTION NETWORK
00: -

The invention discloses a system for identifying rice diseases by using a lightweight attention network, which comprises an image acquisition module, an image preprocessing module, a lightweight network, a database module, a comparison identification module and a control terminal. According to the invention, the lightweight network is used as the backbone network, attention mechanism is added to learn the importance of input feature channels and spatial points, meanwhile, the traditional loss

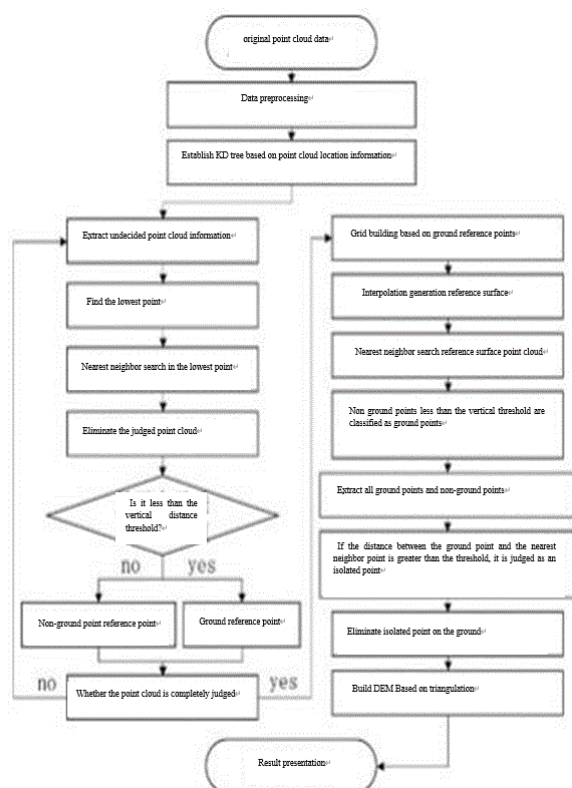
function is optimized, in particular, transfer learning is performed twice to train the model, and then the attention weight of disease features in rice images is adjusted by using the lightweight network combined with attention mechanism in the process of feature extraction of rice images, thereby improving the ability of the lightweight network to extract disease features of rice images, The accuracy of feature extraction is improved, which is convenient for the comparison and recognition module to recognize rice diseases in rice pictures. In addition, the application of lightweight network also reduces the power consumption of the system, which is worthy of being widely popularized and applied in mobile terminals.



21: 2022/06571. 22: 2022/06/14. 43: 2022/09/15
51: G01S
71: Central South University
72: Wei Wang, Yueqiao Wu, Pengfei Tong, Mengting Sang
54: LIDAR POINT CLOUD FILTERING METHOD BASED ON ITERATIVE MINIMUM VALUE
00: -

The invention discloses a laser radar point cloud filtering method based on an iterative minimum value. The method comprises the following steps: firstly, preprocessing radar point cloud data; then sorting according to the elevation of the point clouds, determining the point cloud with the minimum elevation as an initial ground point, marking the point clouds within the height threshold range of the point cloud with the minimum elevation as ground reference points, and marking the other point clouds outside the height threshold range of the point cloud

with the minimum elevation as non-ground reference points; repeating the above steps on the point clouds which are not marked until all the point clouds are initially classified; constructing a ground reference plane by using the ground reference point set, and carrying out fine classification on the point cloud data; and finally, removing isolated points at the edge of the ground, and determining a filtering result. According to the laser radar point cloud filtering method, the ground point and the non-ground point can be effectively separated, set parameters are few, the threshold value has certain self-adaptability, and the method has universality for the vast majority of scenes.



21: 2022/06572. 22: 2022/06/14. 43: 2022/09/09
51: B60L

71: Longyan University

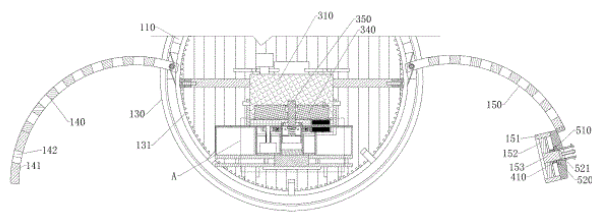
72: Wang Shitan, Zhong Tao, Wang Hong, Zhang Wenwu, Liu Qian, Dai Xuehua, Zhong Chengdong, Cao Yong, Hu Shengrong, Ren Lian

54: AN AUTOMATIC CHARGING DEVICE FOR A UNMANNED AERIAL VEHICLE

00: -

An automatic charging device for a UAV, comprises a charging mechanism which comprises a charging frame, a lifting motor shaft and a lifting gear shaft are

arranged on the charging frame, and one end of the lifting motor shaft is arranged in the lifting motor; a worm part is arranged on the shaft of the lifting motor, and the worm part is engaged with the worm wheel for transmission, the worm wheel is arranged on the lifting gear shaft, and the lifting teeth are also arranged on the lifting gear shaft, and the lifting teeth are engaged with the lifting gear rack for transmission, the lifting rack is installed on the lifting frame, and a slide block is arranged on the lifting frame, and the slide block is clamped and assembled with the slide groove, and the slide groove is arranged on the power exchange frame plate; the lift frame is provided with two half frames, and the inner side of the half frames is a hollow half frame groove; the lifting frame is also provided with a wireless charging transmitter, a disassembly motor and a guide sleeve, the disassembly motor shaft of the disassembly motor is provided with a pinion, which is meshed with a large gear to drive, and the large gear is sleeved on the disassembly sleeve, the inside of the disassembly sleeve is hollow and provided with a sleeve hole which can be clamped with the large end; the disassembly sleeve is arranged in the guide sleeve.



21: 2022/06573. 22: 2022/06/14. 43: 2022/09/09
51: B60F

71: Longyan University

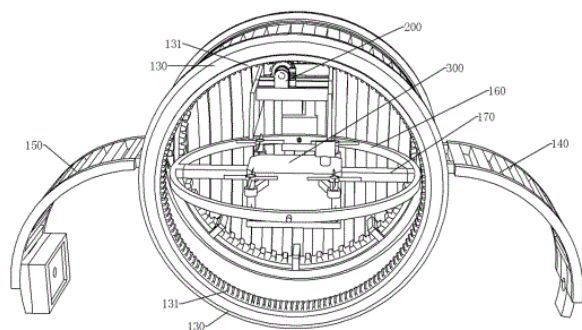
72: Wang Hong, Zhong Tao, Wang Shitan, Liu Qian, Zhang Wenwu, Dai Xuehua, Zhong Leiwu, Zhong Chengdong, Chen Liangtang, Fu Qiang

54: A LAND AND AIR AMPHIBIOUS UNMANNED AERIAL VEHICLE

00: -

The invention discloses a land and air amphibious UAV, which comprises a skeleton on which two walking wheels can be rotatably arranged, and a net cover is arranged at both ends of the two walking wheels, the inner side of the adjusting ring is hinged with one end of the mounting frame, and the other end of the mounting frame is assembled with the

outer shell of the rotary wing machine of the rotary wing machine, the inner gear is driven by the walking mechanism to drive the walking wheel to realize walking. The UAV of the invention can realize collision prevention through the protective net, so it can be adapted to patrol in narrow space. And the UAV is equipped with a walking wheel, which can be used to realize walking. Therefore, in some areas where the road conditions are better or can not take off, the UAV can patrol directly by walking, thus greatly increasing the adaptability of UAV and the scope of inspection.



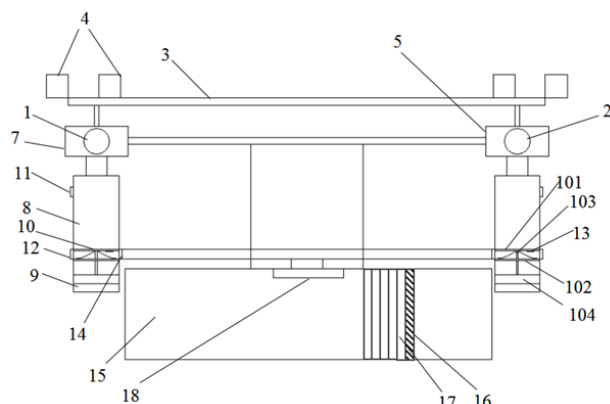
21: 2022/06575. 22: 2022/06/14. 43: 2022/09/06
 51: G01N
 71: ZHENGZHOU UNIVERSITY OF AERONAUTICS
 72: TONG, Angxin

54: ARTIFICIAL INTELLIGENCE-BASED WATER SAMPLE COLLECTION DEVICE

00: -

The present invention discloses an artificial intelligence-based water sample collection device, which comprises a power device, a controller, water sampling devices and a water sample storage device; the power device, the water sampling devices and water sample storage device are electrically connected with the controller; the power device is fixedly connected with the water sampling devices and water sample storage device and is used for driving the water sampling devices and water sample storage device to move underwater; the water sampling devices are used for measuring water pressures and are used for collecting water samples when the water pressures reach preset values; and the water sample storage device is used for divisionally storing the collected water samples at different water pressure positions. According to the present invention, the water pressures can be measured, and the collection of the water samples

under the water pressures of different depths can be realized.



21: 2022/06576. 22: 2022/06/14. 43: 2022/08/30
 51: A23L

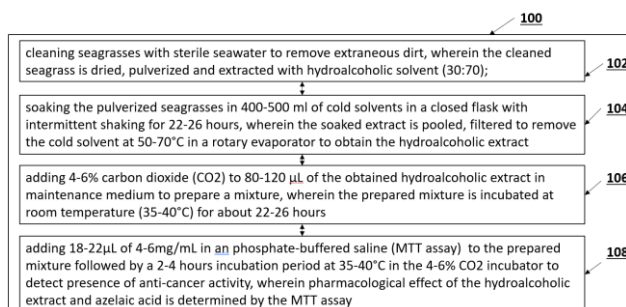
71: DHANARAJU KAVITHA, RAMAKRISHNAN PADMINI, MAGHARLA DASARATHA DHANARAJU, CHANDRAVADIVELU GOPI, VEERAMANENI ALEKYA

72: DHANARAJU KAVITHA, RAMAKRISHNAN PADMINI, MAGHARLA DASARATHA DHANARAJU, CHANDRAVADIVELU GOPI, VEERAMANENI ALEKYA

54: A COMPOSITION AND A METHOD FOR PREPARING HYDROALCOHOLIC EXTRACT FROM SEAGRASS AND ANALYSING ANTI-CANCER ACTIVITY

00: -

A method for preparing hydroalcoholic extract to analyse anti-cancer activity of prepared extract, comprises of: cleaning seagrasses with sterile seawater to remove extraneous dirt, wherein the cleaned seagrass is dried, pulverized and extracted with hydroalcoholic solvent (30:70); soaking the pulverized seagrasses in 400-500 ml of cold solvents in a closed flask with intermittent shaking for 22-26 hours, wherein the soaked extract is pooled, filtered to remove the cold solvent at 50-70°C in a rotary evaporator to obtain the hydroalcoholic extract; adding 4-6% CO₂ to 80-120 μL of the obtained hydroalcoholic extract in maintenance medium to prepare a mixture, wherein the prepared mixture is incubated at room temperature (35-40°C); and adding 18-22 μL of 4-6 mg/mL in an MTT assay to the prepared mixture followed by a 2-4 hours incubation period at 35-40°C in the 4-6% CO₂ incubator to detect presence of anti-cancer activity.



21: 2022/06578. 22: 2022/06/14. 43: 2022/08/30

51: H01M

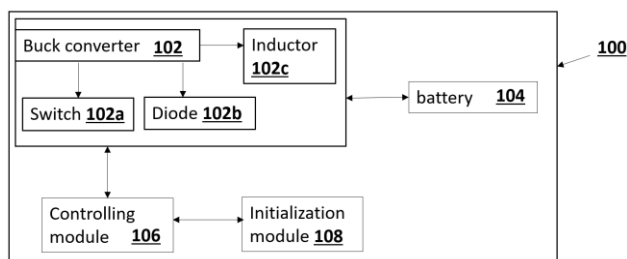
71: Dr. Rajib Malik, Institute of Engineering & Management

72: Dr. Rajib Malik

54: A MAXIMUM POWER POINT TRACKING VRLA BATTERY CHARGER BASED ON MODIFIED PERTURB AND OBSERVE TECHNIQUE

00: -

A system (100) and method (200) for obtaining maximum power point tracking (MPPT) based on a modified Perturb and Observe (P&O) Technique, comprises of: a buck converter (102) for charging a battery (104), wherein the buck converter (102) operates in a first mode and a second mode having a reverse bias condition and a forward bias condition respectively; and a controlling module (106) for obtaining the MPPT based on the modified P&O technique using a plurality of phases, wherein in a first phase a value of duty cycle is considered such that an output current is greater than a predefined minimum value of current, wherein in a second phase, a value for the output current is calculated upon increasing the value of duty cycle by a large step size, wherein in a third phase, the battery (104) is charged up to a predefined upper threshold voltage in the MPPT mode.



21: 2022/06579. 22: 2022/06/14. 43: 2022/08/30

51: G06F

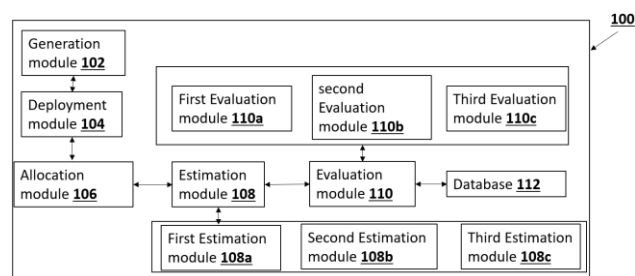
71: HIMANSHU SHARMA, VIJAY KUMAR JOSHI

72: Himanshu Sharma, Vijay Kumar Joshi

54: A LOAD BALANCING OPTIMIZATION SYSTEMS FOR GREEN CLOUD ENVIRONMENT AND A METHOD THEREOF

00: -

A load balancing optimization system (100) for green cloud environment, comprises of: a plurality of generation module (102) for performing atleast a task through a plurality of process and simulation time required for completing the process respectively; a plurality of deployment module (104) for performing deployment of queues, and virtual machines; an allocation module (106) for allocating weights to each of the deployed queues upon completing the tasks, wherein a high priority queue consuming high priority weight is checked, wherein a process is allocated to the high queue; a plurality of estimation module (108) for estimating time desired for the process and store a process id to obtain current status of accomplishing the job, and a plurality of evaluation module (110), for evaluating the process having least execution time, energy consumption, end delay; throughput and finishing time taken by the Virtual Machine's to execute the processes in parallel.



21: 2022/06580. 22: 2022/06/14. 43: 2022/08/30

51: H04R

71: Dr. Hemangi Shinde, Dr. Vibha Vyas, Dr. Rajshri Chittaranjan Mahajan, Dr. Vidya Nitin More, Dr. Shrinivas Padmakar Mahajan, Dr. Mukul Sharad Sutaone

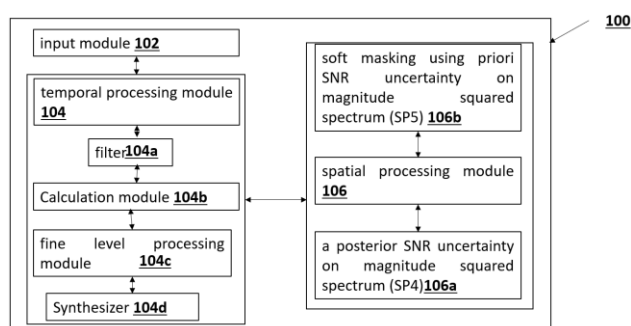
72: Dr. Hemangi Shinde, Dr. Vibha Vyas, Dr. Rajshri Chittaranjan Mahajan, Dr. Vidya Nitin More, Dr. Shrinivas Padmakar Mahajan, Dr. Mukul Sharad Sutaone

54: A DEVICE FOR INTEGRATED TEMPORAL AND SPECTRAL PROCESSING OF SPEECH SIGNALS FOR HEARING IMPAIRED

00: -

A device (100) for obtaining an integrated temporal and spectral processing of speech signals , comprises of: an input module for taking atleast an unenhanced speech signal as an input; a temporal

processing module for temporally adding sum of a large amplitude peaks for the unenhanced speech signals of DFT to estimate vocal tract-based features, comprises of: a filter for obtaining atleast a significant excitation region of the unenhanced speech signal at glottal closure instants (GCIs); and a calculation module for multiplying the final weight by a linear prediction (LP) residual signal, wherein an estimation module estimates an excitation source features by computing an hilbert envelope (HE) of the LP residual of the unenhanced speech signal; and atleast a pair of spatial processing module to suppress a background noise present in the temporally enhanced signal.



21: 2022/06584. 22: 2022/06/14. 43: 2022/09/02

51: B01J; B08B; C07C

71: XINJIANG YUEHETAI CHEMICAL TECHNOLOGY CO., LTD., ZHEJIANG UNIVERSITY

72: YANG, Qiwei, WEN, Guangdong, REN, Qilong, ZHANG, Ming, LI, Rulong, WU, Jianhua, WU, Zhongbiao, CHEN, Xinzhi, CHEN, Fengqiu, HE, Chaohong

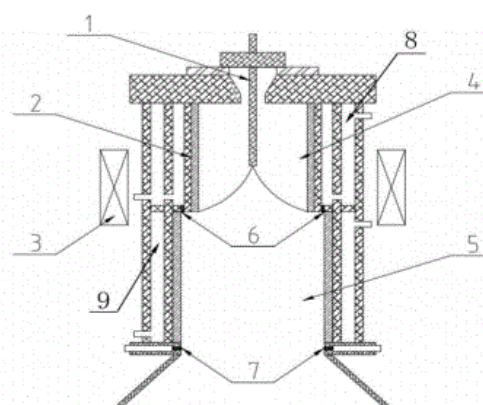
33: CN 31: 201911113539.7 32: 2019-11-14

54: COAL TO ACETYLENE PLASMA REACTOR HAVING COKING INHIBITION AND ONLINE DECOCKING FUNCTIONS

00: -

Disclosed is a coal to acetylene plasma reactor having coking inhibition and online decoking functions, comprising a cathode rod which is vertically provided, an anode, and a circulating cooling water sleeve provided at the outer side of the anode. The anode comprising from top to bottom an anode of an electric arc operation section used for matching the cathode rod to generate an electric arc, and an anode of a reaction section located below the electric arc. The anode is grounded. The inner diameter of the anode of the reaction section is 1.2-10 times of that of the anode of the electric arc

operation section. Decoking nozzle that can spray decoking medium toward the anode of the reaction section are circumferentially provided at the position where the anode of the reaction section is connected to the anode of the electric arc operation section. According to the present invention, a method for changing the inner diameter of the reactor and providing the nozzles for diaphragm protection is used to fundamentally inhibit or even eliminate the decoking phenomenon during the reactor operation, the decoking period does not need to be set, and the continuous cracking operation of the reactor is achieved.



21: 2022/06665. 22: 2022/06/15. 43: 2022/09/09

51: B60P

71: GUANGDONG OCEAN UNIVERSITY

72: LIN, Jingliang

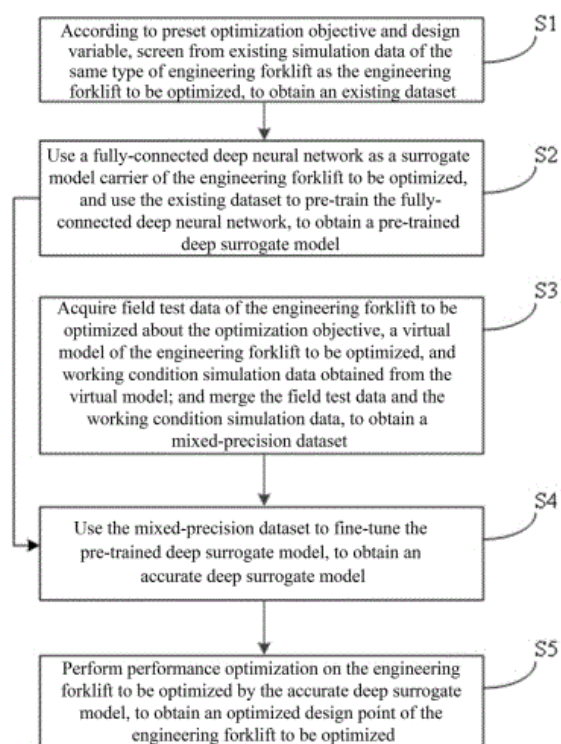
33: CN 31: 202111308958.3 32: 2021-11-05

54: ENGINEERING FORKLIFT MULTI-OBJECTIVE PERFORMANCE OPTIMIZATION METHOD BASED ON DEEP SURROGATE MODEL

00: -

The present invention relates to an engineering forklift multi-objective performance optimization method based on a deep surrogate model, and in particular to the application of global optimization and deep learning technology in the aspect of engineering forklift development. By means of the method, a precise representation capability and a good migration adaptability feature of a relatively strong high-order non-linear relationship between multi-input and multi-output of a deep neural network are fully used, and a large amount of simulation data accumulated in the past research and development process of an existing forklift of the same type may be effectively used; the problem, in a complex

simulation optimization situation, of it being difficult to construct, with a small amount of simulation data, a strong generalization capability surrogate model of the existing forklift is solved.



21: 2022/06674. 22: 2022/06/15. 43: 2022/07/12
51: G06Q

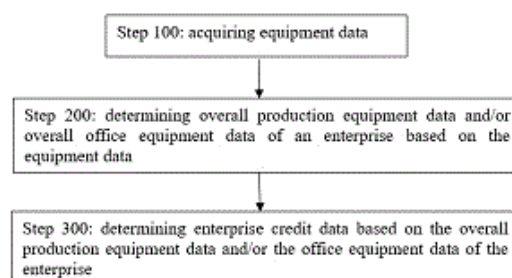
71: CHANGZHOU INDUSTRIAL INTERNET RESEARCH INSTITUTE CO., LTD., CHANGZHOU TENGGEN INDUSTRIAL DEVELOPMENT CO., LTD.
72: ZHANG, CHONGHAO, LIU, ANMIN, TANG, LIPING, WANG, SONG, MIN, XINYI

54: METHOD AND APPARATUS FOR ACQUIRING ENTERPRISE CREDIT DATA BASED ON EQUIPMENT DATA

00: -

The present application relates to an apparatus for acquiring enterprise credit data based on enterprise equipment data, which includes: a data acquisition unit 1, an enterprise overall production equipment data and/or overall office equipment data determination unit 2, and enterprise credit data determination unit 3. The data acquisition unit 1 obtains data. The enterprise overall production equipment data and/or overall office equipment data determination unit 2 determines the enterprise overall production equipment data and/or overall

office equipment data. The enterprise credit data determination unit 3 determines the enterprise credit data based on the enterprise overall production equipment data and/or overall office equipment data. The present application also provides a method for acquiring enterprise credit data based on enterprise equipment data. The present application obtains the enterprise credit data via the enterprise production equipment and/or office equipment data, so as to make up for deficiency in the existing technology, in which the enterprise credit data is obtained from the financial data.



21: 2022/06688. 22: 2022/06/17. 43: 2022/09/09
51: C02F

71: Hebei University of Engineering
72: CHAI Beibei, JIAO Meng, LEI Xiaohui, HE Lixin, CHENG Dongjuan, WU Haixia, SHI Wei, CHEN Bin
54: MODIFIED FLY ASH MATERIAL FOR IN-SITU ENDOGENOUS POLLUTION CONTROL OF WATER BODY, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a modified fly ash material for in-situ endogenous pollution control of water body, its preparation method and application. The material consists of the following substances in percentage by mass: 35-70% of fly ash, 25-60% of montmorillonite, 0.1-2% of polymerization agent, 0.1-2% of distilled water and 0.1-1% of modifier. The modified fly ash material provided by the invention is suitable for continuous treatment of water bodies polluted by endogenous phosphorus as it provides better long-term inhibiting performance of total phosphorus releasing from sediments, and total phosphorus concentration in overlying water decreases consistently with time.

21: 2022/06696. 22: 2022/06/17. 43: 2022/08/18
51: F21S

71: Hwa Mei Hospital, University of Chinese Academy of Sciences

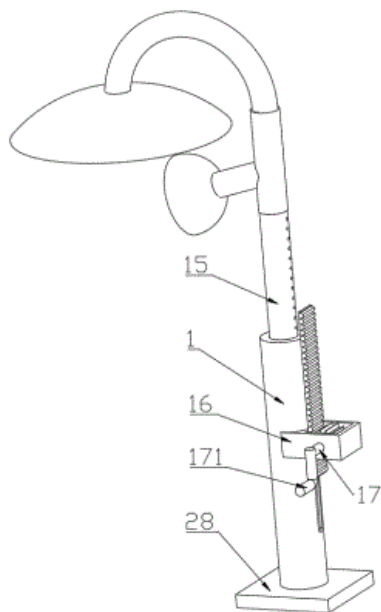
72: Chuntao Tan

33: CN 31: 202220698187.7 32: 2022-03-28

54: A MAIN-AUXILIARY OPERATING ROOM ASTRAL LAMP

00: -

The invention discloses a astral operating room lamp which comprises a body and an adjusting component for adjusting the irradiation height of the body. The adjusting component comprises an mounting groove on one side of the body, a first guide rod at the bottom of the mounting groove, a first spring on the outside of the first guide rod, a pad on the top of the first spring, a sliding rod on one side of the pad, a fixed frame on one side of the body, a rotatory shaft and a gear on the outside of the rotatory shaft. The invention provides a body, the first spring, the sliding rod, the rotatory shaft, a gear, a fixing ball and a locking groove. The gear drives the rack to move up and down in the fixing frame, so that the plate drives the sliding rod to slide up and down in the mounting groove. It solves the inconvenient height adjustment operation of the existing equipment, which easily leads to the equipment can not easily irradiate positions at different heights, affecting the practicability of equipment irradiating



21: 2022/06697. 22: 2022/06/17. 43: 2022/08/19
51: G01N

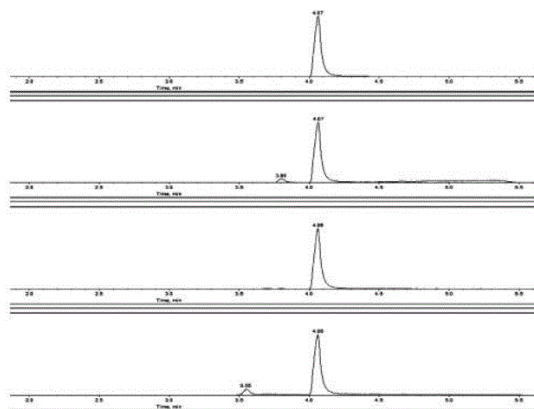
71: Chongqing University, Chongqing Institute for Food and Drug Control

72: Huan Liu

54: A METHOD FOR DETERMINATION OF PENTACHLOROPHENOL RESIDUES IN PIG HAIR

00: -

The invention discloses to the field of detection, in particular to a method for determination of pentachlorophenol residues in pig hair. It mainly includes: (1) to take process of purification and hydrolysis to animal-origin hair, (2) to extract pentachlorophenol in the process of pretreatment of hydrolysate, (3) to determine sample in the mothod of high-performance liquid chromatography-mass spectrometry. The above methods can achieve the purpose of determination of banned drugs in live pigs, which has certain significance for supporting supervision and pollution source investigation and comparison. It has the characteristics of high accuracy and easy operation.



21: 2022/06698. 22: 2022/06/17. 43: 2022/08/19
51: F21S

71: Hwa Mei Hospital, University of Chinese Academy of Sciences

72: Chuntao Tan

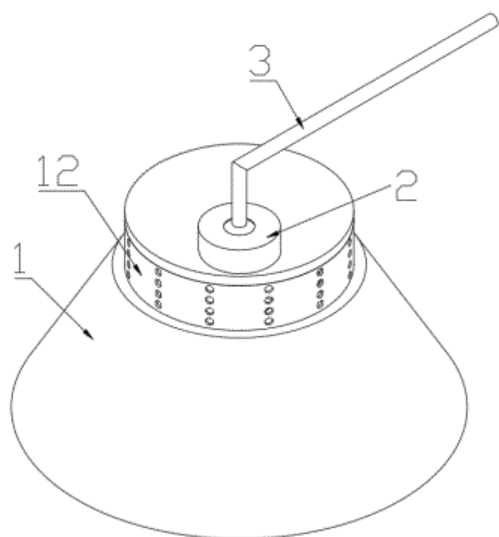
33: CN 31: 202220692498.2 32: 2022-03-28

54: AN INTEGRATED CLEAN OPERATING ROOM ASTRAL LAMP

00: -

The invention discloses an astral lamp including a lampshade for integrated clean operating room. The inner lining of the lampshade is provided with an annular fixing block, the lower part of the annular fixing block is fixedly connected with an auxiliary lamp, the number of the auxiliary lamp is multiple, and the plurality of the auxiliary lamp interval evenly

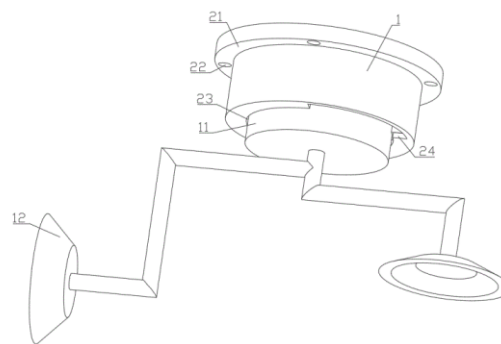
set. The lampshade is fixedly connected with a support block above, the upper part of the support block is provided with a support rod, the central part of the lampshade is fixedly connected with the main lamp, the top of the lampshade is provided with a heat dissipation channel. The internal heat dissipation channel is fixedly connected with a heat dissipation fan. The invention provides a lamp shade, a support block, a support rod, an annular fixing block, an auxiliary lamp, a main lamp, a heat dissipation channel and a heat dissipation fan, etc. It has the advantages of dispersing the heat of astral lamp in time and further dedusting the operating room. It solves the problems that the existing integrated cleaning operation astral lamp produces a lot of heat and cannot further remove the dust under the astral lamp.



21: 2022/06699. 22: 2022/06/17. 43: 2022/08/18
51: F21S
71: Hwa Mei Hospital, University of Chinese Academy of Sciences
72: Chuntao Tan
33: CN 31: 20220674588.9 32: 2022-03-25
54: A CLEAN OPERATING ROOM ASTRAL LAMP
00: -

The invention discloses a clean operating room astral lamp, including a mounting base, an astral lamp base, a lamp head connected with the astral lamp base and a fixed part for convenient dismantling of the astral lamp base. The above-mentioned fixed part including retaining ring that set

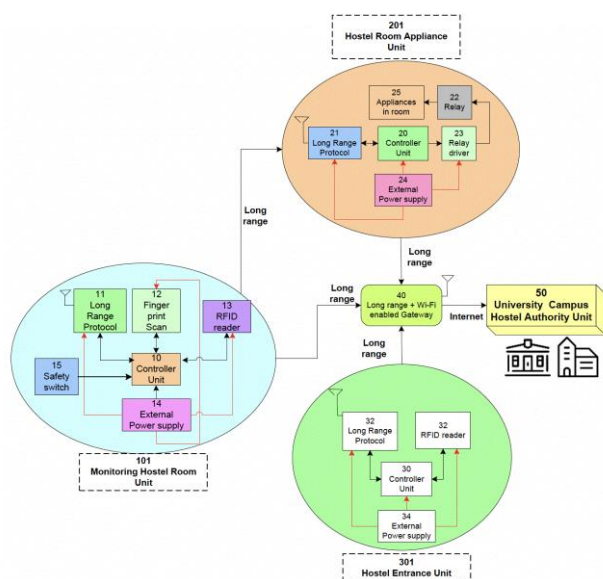
in the outside of the mounting base, multiple mounting holes opened on the retaining ring that arranged in a circular permutation, the mounting groove arranged at the bottom of the mounting base, the first rotary groove arranged on one side of the mounting groove, the second rotary groove arranged on one side of the first rotary groove, retaining plate on one side of astral lamp base, the top plate arranged in the mounting groove, the first groove is arranged on the top of the mounting groove. The invention solves the problem that bolts are mostly used to fix the existing astral lamp base during installation by setting the mounting base, astral lamp base, lamp head, retaining ring, mounting hole and mounting groove, which takes a long time to disassemble and maintain, resulting in low efficiency and inconvenience to users.



21: 2022/06708. 22: 2022/06/17. 43: 2022/07/20
51: E04B; G07C; H04L; G06Q
71: UTTARANCHAL UNIVERSITY
72: DR. ANITA GEHLOT, SHAIK VASEEM AKRAM, ABHISHEK JOSHI, ANKITA JOSHI, PROF. DHARAM BUDDHI, DR. RAJESH SINGH
33: IN 31: 202111061099 32: 2021-12-28
54: INTERNET OF THINGS AND LONG-RANGE PROTOCOL EMPOWERED SYSTEM FOR REAL-TIME MONITORING OF UNIVERSITY CAMPUS HOSTEL

00: -
An Internet of Things and Long-Range Protocol Empowered System for Real-Time Monitoring of University Campus Hostel comprises Long Range and WiFi enabled gateway (40), University Campus Hostel Authority Unit (50), Monitoring Hostel Room Unit (101), Hostel Room Appliance Unit (201), and Hostel Entrance Unit (301). The three-primary unit of this architecture are monitoring hostel room unit (101), hostel room appliance unit (201), and hostel

entrance unit (301); and Hostel room unit (101), and hostel room appliance unit (201) are the two units that present outside and inside of the room.

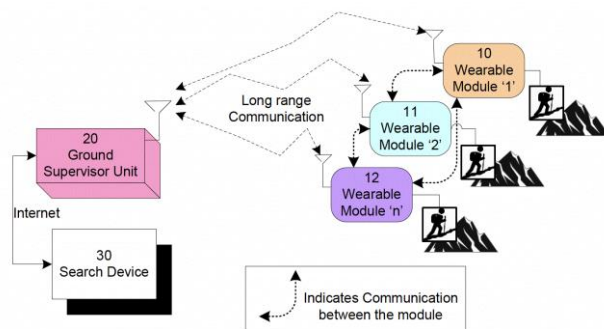


21: 2022/06709. 22: 2022/06/17. 43: 2022/07/20
51: A61B; H01Q

71: UTTARANCHAL UNIVERSITY
72: PROF. DHARAM BUDDHI, DR. RAJESH SINGH, DR. ANITA GEHLOT, SHAIK VASEEM AKRAM, ABHISHEK JOSHI, ANKITA JOSHI
33: IN 31: 202111060775 32: 2021-12-25
54: LORA INSPIRED WEARABLE DEVICE FOR REAL-TIME LOCATION TRACKING AND HEALTH STATUS OF MOUNTAINEERS DURING EMERGENCY

00: -

Disclosed herein a LoRa inspired Wearable device for real-time location tracking and health status of mountaineers during emergency Wearable module (10,11,12), Ground Supervisor Unit (20), search device (30); Wherein wearable module further comprises LoRa Module (91), OLED display (92), Pulse Sensor (93), Accelerometer Sensor (94), Mountain Ski GPS (95), Battery Power Supply (96); Wherein Ground Supervisor unit further comprises Controller Unit (80), LoRa Modules (81), Display Unit (82), External Power Supply (83), and WiFi Module (84). The 'n' of wearable module of 'n' mountaineers connects to each other through long range communication.



21: 2022/06710. 22: 2022/06/17. 43: 2022/07/20

51: A61B; A61F; H04L; G06N

71: UTTARANCHAL UNIVERSITY

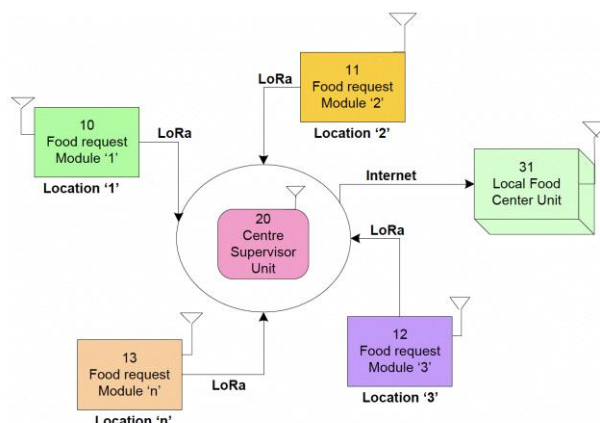
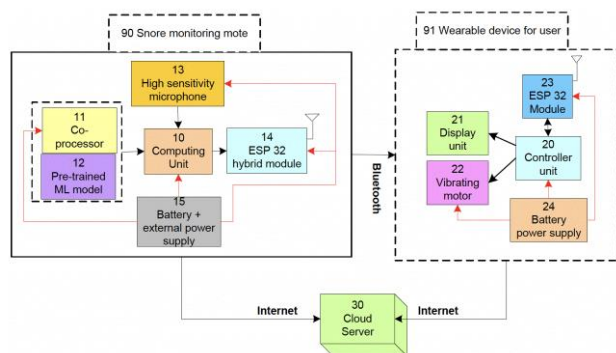
72: PROF. DHARAM BUDDHI, DR. RAJESH SINGH, DR. ANITA GEHLOT, SHAIK VASEEM AKRAM, ABHISHEK JOSHI, ANKITA JOSHI

33: IN 31: 202111060774 32: 2021-12-25

54: CLOUD SERVER AND MACHINE LEARNING BASED SYSTEM FOR SNORE MONITORING

00: -

Disclosed herein a cloud server and machine learning based system for snore monitoring comprises snore monitoring mote (90), microphone (13), computing unit (10), machine learning (ML) model (12), co-processor (11), ESP32 module (14), vibrating motor (22), cloud server (30), power source (15) and wearable device (91) is powered with battery power supply (24). In another embodiment, snore monitoring mote (90) is embedded to the table near by the bed and the snore monitoring mote is primary unit that senses the snoring of the user through microphone (13). In further embodiment, the microphone module (13) it is able to sense the snoring sounds of the user clearly; and the computing unit (10) in the snore monitoring mote is trained with machine learning model to recognize the snoring and type of snoring of the user. In another embodiment, the pretrained machine learning (ML) model (12) connected to computing unit smoothly process the identification of exact snoring and type of snoring with the help of co-processor (11).



21: 2022/06711. 22: 2022/06/17. 43: 2022/07/20

51: H04W; A61K; G08G; H04L

71: UTTARANCHAL UNIVERSITY

72: PROF. DHARAM BUDDHI, DR. RAJESH SINGH, DR. ANITA GEHLOT, SHAIK VASEEM AKRAM, ABHISHEK JOSHI, ANKITA JOSHI

33: IN 31: 202111060392 32: 2021-12-23

54: LORA AND INTERNET OF THINGS INSPIRED SYSTEM FOR FOOD REQUEST IN CITIES BY NEEDY PEOPLE

00: -

Disclosed herein a LoRa and Internet of Things Inspired System for Food request in cities by needy people comprises Central Supervisor Unit (20), Controller (80), LoRa Module (81), WiFi Module (82), External Power Supply (83), Color LED display (84).

The food request module (10, 11, 12, 13) is the primary module that are deployed in different location of cities with the certain range in between them. The push button switch (92) is the main task to be done by the needy people for requesting the food; and the remaining task like communicating request and location are processed by controller (90) through LoRa module (91). A central supervisor unit (20) is placed in the particular radius for processing the food request received from food request module (10, 11, 12, 13) that are connected to it. The central supervisor unit (20) transmits request to local food center unit (31) through internet. On request received from the food request module (10, 11, 12, 13), the food is delivered to that location.

21: 2022/06719. 22: 2022/06/17. 43: 2022/07/20

51: A61B; G08B; G08G; H04L; H04W

71: UTTARANCHAL UNIVERSITY

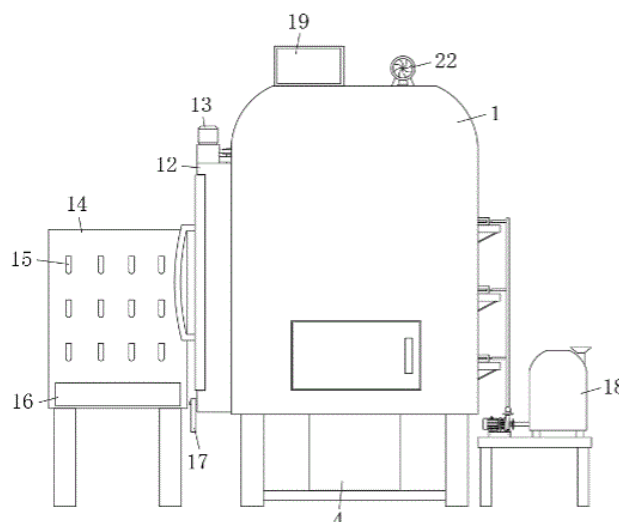
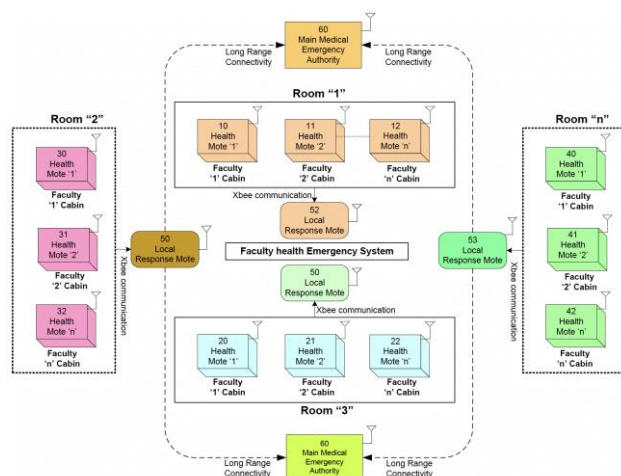
72: PROF. DHARAM BUDDHI, DR. RAJESH SINGH, DR. ANITA GEHLOT, SHAIK VASEEM AKRAM, ABHISHEK JOSHI, ANKITA JOSHI

33: IN 31: 202111060393 32: 2021-12-23

54: MEDICAL EMERGENCY REQUEST SYSTEM BY THE FACULTY IN THE UNIVERSITY WITH INTERNET OF THINGS AND LONG-RANGE COMMUNICATION

00: -

Discloses herein a Medical Emergency Request system by the faculty in the University with Internet of Things and Long-Range Communication comprises Controller (80), LoRa Module (81), XBee-PRO XSC module, Alarm (83), LED Display (84), and Power Supply (85). The health mote (10, 11, 12, 20, 21, 22, 30, 31, 32, 40, 41, 42) is embedded in the cabin of the faculty, in case of health emergency, the faculty need to press the button and the controller transfer the emergency message to the main medical emergency authority (60) through local response mote (50, 51, 52, 53). The Health mote powered with XBee communication communicates the emergency message to local response mote (50, 51, 52, 53) and the local response mote (50, 51, 52, 53) transmits emergency message to the main medical emergency authority (60). The local response mote is the emergency assistance authority that is available nearby faculty room; the immediate response from the local response mote (50, 51, 52, 53) and medical emergency authority save the life of faculty by providing immediate medical assistance.



21: 2022/06778. 22: 2022/06/20. 43: 2022/08/29
51: A21B

71: Guangdong University of Petrochemical Technology

72: Qiang ZHANG, Li WANG, Mingwang ZHAN, Junren ZHAO, Huaqiang LI, WEIJI TANG

54: CONVENIENT UNLOADING BAKING OVEN FOR PROCESSING POULTRY PRODUCTS

00: -

Disclosed is a convenient unloading baking oven for processing poultry products, comprising a baking oven body. A mounting post is fixed in the middle of the inner top surface of the oven body. An electric heating pipe body is installed on the lower outer wall of the installation column and the inner wall of the baking oven body. A drive box is installed on the lower side of the oven body. The output end of the drive box extends into the oven body and is fixed with a rotating disk. A ring is slid on the inner wall of the upper side of the oven body. The upper and lower sides of the ring and the rotating disk are provided with arc-shaped grooves. The inner walls of the arc-shaped grooves are all connected with arc-shaped blocks in a sliding limit. A baking rod is connected with rotational damping between the two arc-shaped blocks on the same vertical line. A buffer sheet is slidably connected to the inner wall of the arc-shaped groove. A buffer spring is connected between two adjacent buffer sheets.

21: 2022/06783. 22: 2022/06/20. 43: 2022/08/19
51: C07K

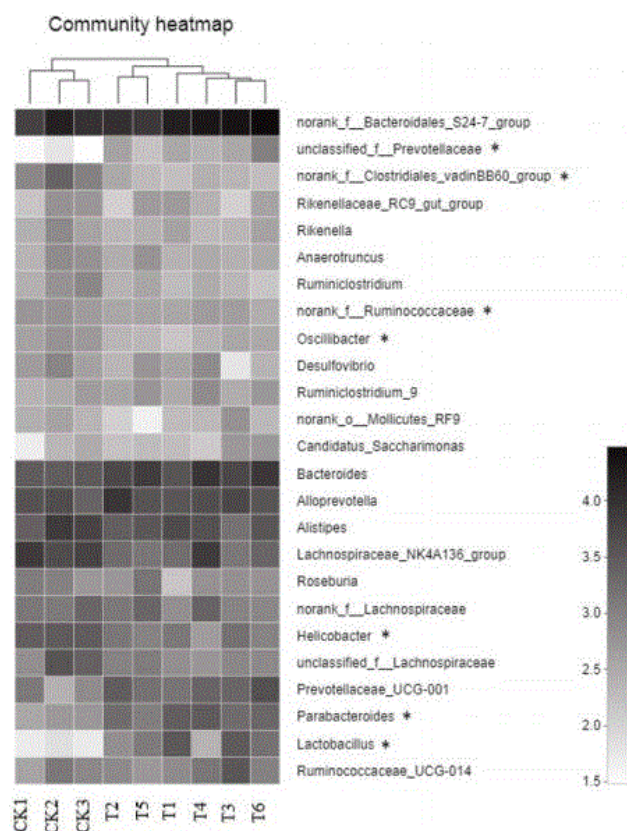
71: JIMEI UNIVERSITY

72: XIONG Hejian, XIONG Longzhu, MA Ying, JIAN Wenjie, HE Chuanbo, WEI Haocheng, WU Guohong

54: PREPARATION METHOD OF ABALONE VISCERA GLYCOPEPTIDE NANO-SELENIUM

00: -

The invention discloses a preparation method of abalone viscera glycopeptide nano-selenium, comprising the following steps: using abalone offal as raw material, preparing glycopeptide compounds by lipase and protease combined with step enzymolysis and membrane separation technology, using glycopeptide as template, and preparing a glycopeptide nano-selenium sol through the reaction of sodium selenite, tea polyphenols and Vc. The invention adopts bioactive glycopeptide and tea polyphenol as stabilizer and reducer to prepare nano selenium material, which can not only greatly enhance the stability of nano-selenium sol by taking advantage of the structural characteristics of polyhydroxy and amide bonds of glycopeptides and relatively mild reducing ability of glycopeptides and tea polyphenols, but also strengthen the biological function of products by taking advantage of the physiological activity of glycopeptides and tea polyphenols, thereby being beneficial to the development and application of abalone in the fields of health care/functional food, biomedicine, cosmetics and the like, and simultaneously providing an effective way for high-value utilization of abalone resources.



21: 2022/06784. 22: 2022/06/20. 43: 2022/08/19
 51: B60P

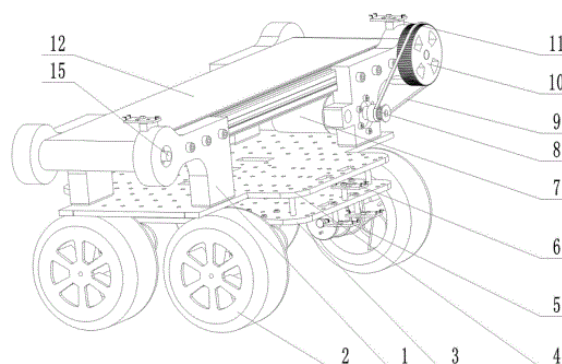
71: ShanDong JiaoTong University
 72: ZHAO Lingyan, LI Xinyue, LI Xuguang, LIU Yuchen, WANG Fayong, TANG Youan, CHEN Weiyi, WANG Dicheng, LIU Zheng, TAN Chuanmei, LI Guoyun, YIN Yan, LAI Changan, LI Shusong, JIANG Yejia, LIU Zhihui, ZENG Pinlin

54: MULTIFUNCTIONAL MATERIAL TRANSPORT VEHICLE

00: -

The invention relates to the technical field of transport vehicles, and in particular to a multifunctional material transport vehicle, which comprises a vehicle body component and a conveying component, wherein the bottom of the conveying component is fixedly connected with the top of the vehicle body component; the conveying component comprises a conveyor belt support frame, the bottom of which is fixedly connected with the top of the vehicle body component; two ends of the conveyor belt support frame are rotatably connected with rotating shafts respectively; two rotating shafts are sleeved with the same conveyor

belt; the end of any rotating shaft is fixedly connected with a first power part; and the top of the conveyor belt support frame is provided with a first detection part. The invention can achieve that purpose of automatically pick and placing goods.



21: 2022/06786. 22: 2022/06/20. 43: 2022/08/19
 51: A61K

71: Chongqing Academy of Chinese Materia Medica
 72: Chunshan Liu, Juan Li, Gang Chen, Jiangqiong Luo, Jiangping Wei, Hong Wei, Shaobo Xiao
 33: CN 31: 202210655129.0 32: 2022-06-10

54: A CHINESE MEDICINE COMPOSITION FOR TREATING THYROID NODULES AND ITS PREPARATION AND PREPARATION METHOD 00: -

The invention discloses a traditional Chinese medicine composition for treating thyroid nodules, a traditional Chinese medicine preparation and its preparation method. The composition comprises the following components by weight: 20-60 portions of turtle shell, 20-60 portions of oyster, 20-60 portions of radix ranunculi ternati, 5-30 portions of pangolin, 5-30 portions of leech, 10-50 portions of selfheal, 10-40 portions of tangerine seed, 5-40 portions of white mustard seed, 5-30 portions of lumbricus, and 1-10 portions of camphor. The traditional Chinese medicine preparation can effectively eliminate the formed nodules and improve the therapeutic effect of thyroid nodules.

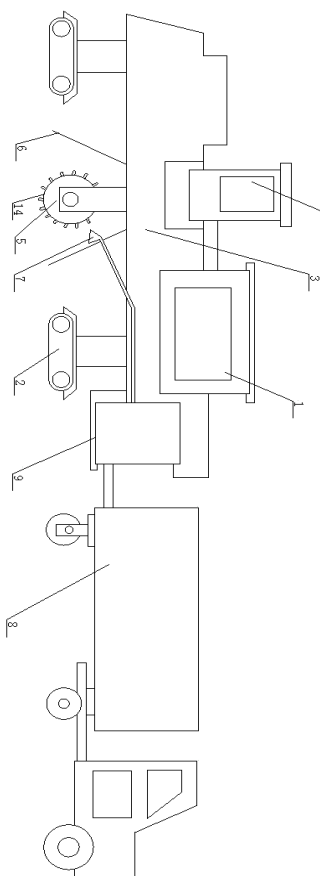
21: 2022/06794. 22: 2022/06/20. 43: 2022/08/19
 51: E01C

71: GuangXi Beitou Transportation Maintenance Technology Group Co.,Ltd.
 72: LUO Junhui, XIE Cheng, HUANG Haifeng, LIU Haobin, CHEN Jiangcai, REN Tianzeng, HUANG Xiaofeng

54: IMPROVED COLD RECYCLING MECHANICAL EQUIPMENT AND CONSTRUCTION PROCESS METHOD

00: -

The invention discloses an improved cold recycling mechanical equipment and a construction process method, which comprises a main body, wherein the main body comprises a power source and a traveling mechanism in transmission connection with the power source; an operating room is fixedly connected to the machine body; a controller is fixedly connected to the operating room; and the controller is electrically connected with the power source and the traveling mechanism; the milling roller is rotatably connected to the machine body, is in transmission connection with a power source, is electrically connected with a controller, is fixedly connected with a shell, is positioned in the shell, is fixedly connected with a nozzle, is communicated with a supply vehicle, and faces the road surface. The construction method comprises the following steps: Step 1, adding additives into a supply vehicle, and moving to the road surface to be milled; Step 2, the controller controls the power source and the traveling mechanism to move the device to the road surface to be milled; Step 3, the supply vehicle is communicated with the nozzle, and the milling roller is controlled by the controller to mill the road surface.



21: 2022/06795. 22: 2022/06/20. 43: 2022/08/19
51: A01K

71: Fisheries Research Institute, Zhoushan City, Zhejiang Province

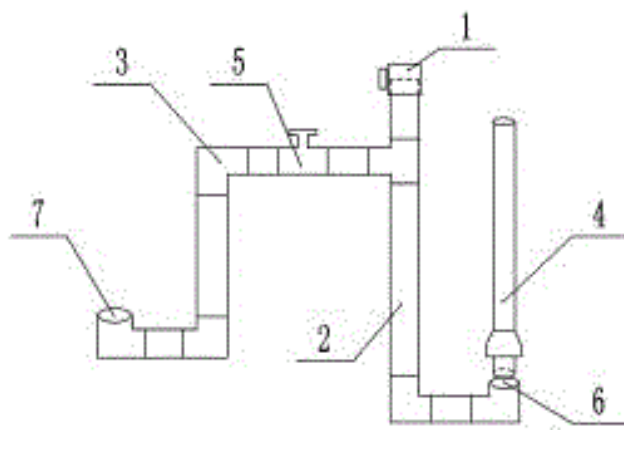
72: YIN Xiaolong, LI Weiye, XU Zhijin, ZHANG Xia, MA Xuebin, CHEN Shuang, WANG Yifan, MAO Zhizeng

54: WATER DISCHARGING DEVICE AND METHOD FOR AQUACULTURE POND

00: -

The invention discloses a water discharging device for an aquaculture pond, which relates to the technical field of aquaculture equipment, and comprises a connector and a net frame, wherein the water inlet of the connector is used for being placed in the net frame, and the water outlet of the connector is used for being placed outside the aquaculture pond; the connector comprises a main pipe, a pipe plug and a branch pipe, wherein the lower end of the main pipe is provided with a water outlet; the upper end of the main pipe is provided with a water inlet; the water inlet is provided with a first valve which can seal the water inlet; the branch pipe is provided with a second valve which can block

the branch pipe; one end of the branch pipe is fixed and connected to the main pipe; the other end is provided with a water inlet; the pipe plug is detachably and fixedly connected to the water outlet of the main pipe; and the pipe plug can block the water outlet. The invention also provides a water discharging method based on the water discharging device of the aquaculture pond, and when workers use the device and method provided by the application to discharge water from the aquaculture pond, aquatic products in the aquaculture pond will not be damaged, and the operation is convenient.



21: 2022/06797. 22: 2022/06/20. 43: 2022/08/19
51: C04B

71: Hunan City University

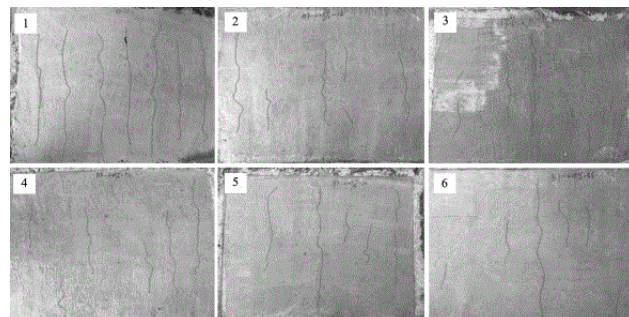
72: WANG Xinzong, XIONG Bing, YANG Yiming, HAN Jun, CHEN Qiang

54: ANTI-CRACKING BASALT FIBER CONCRETE AND PREPARATION METHOD THEREOF

00: -

The invention discloses an anti-cracking basalt fiber concrete and a preparation method thereof, belonging to the technical field of concrete preparation. The anti-cracking basalt fiber concrete is formed by mixing a concrete matrix and basalt fibers, and the mixing amount of basalt fibers is 0.05 percent of the volume of the concrete matrix; The concrete matrix comprises the following components in parts by mass: 355-487 parts of cement, 584-703 parts of sand, 1134-1193 parts of crushed stone and 195 parts of water; The length of that basalt fib is 12-36mm. Compared with the concrete matrix, the early cracks of the concrete made of basalt fiber become fewer, shorter and thinner, which avoids the stress concentration at the cracks and becomes the weak part of the concrete structure. At the same time, it

can improve the impermeability of the concrete structure, reduce the entry of corrosive substances into the structure and improve the durability of the structure.



21: 2022/06799. 22: 2022/06/20. 43: 2022/08/19
51: B07C; B65G

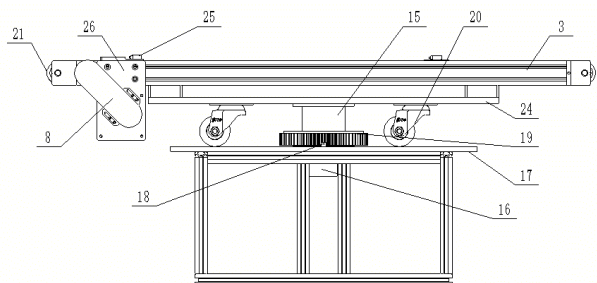
71: ShanDong JiaoTong University

72: ZHAO Lingyan, ZHAO Zhihao, LIU Yuchen, WANG Fayong, TANG Youan, CHEN Weiyi, LIU Zheng, WANG Dicheng, LI Guoyun, TAN Chuanmei, LI Shusong, JIANG Yeja, YIN Yan, LAI Changan, LIU Zhihui, ZENG Pinlin

54: CONVEYOR BELT MATERIAL SORTING MACHINE

00: -

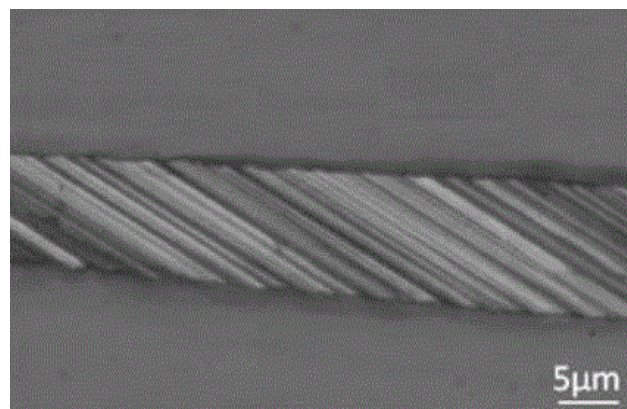
The invention discloses a conveyor belt material sorting machine, which comprises a sorting machine body, wherein one side of the sorting machine body is provided with a main conveyor belt on which articles to be transported are arranged, and any side of the sorting machine body far away from the main conveyor belt is respectively provided with a slave conveyor belt for transporting the articles to be transported; the sorting machine body comprises a base, a slewing mechanism is arranged on the base, a connecting frame is arranged at the top of the slewing mechanism, a plurality of sensors are arranged on the top surface of the connecting frame, one end of the connecting frame is provided with a first motor, the first motor is in transmission connection with a driving shaft, and the end of the connecting frame away from the driving shaft is provided with a first driven shaft, and a conveyor belt is arranged outside the driving shaft and the first driven shaft. The invention solves the problems of high production cost and low production efficiency caused by increasing the number of production lines, and is suitable for large-scale automatic production lines and logistics and warehousing industries.



21: 2022/06802. 22: 2022/06/20. 43: 2022/08/19
 51: G01N; H01L
 71: JINLING INSTITUTE OF TECHNOLOGY
 72: SUN Li, WU Zhongming, TAO Ran, NIU Ruikun, PEI Pengyu
54: METHOD FOR MANUFACTURING ULTRAVIOLET SENSOR BASED ON ZINC OXIDE NANOBELT

00: -

The invention discloses a method for manufacturing an ultraviolet sensor based on zinc oxide nanobelt, which comprises the following steps: (1) placing a zinc oxide nanobelt constrained by a high index crystal plane on an insulating silicon wafer; (2) two ends of the zinc oxide nanobelt are fixed on an insulating silicon wafer, two wires are respectively led out at the same time, and the two wires are left standing; (3) etching off impurities on the surface of the zinc oxide nanobelt with oxygen plasma, then fixing a layer of uricase on the surface of the zinc oxide nanobelt with a bifunctional reagent, and standing to complete the preparation of the ultraviolet sensor. The ultraviolet sensor manufactured by the method provided by the invention has better electrical reaction stability; the irradiation of ultraviolet light has a fast reaction speed.

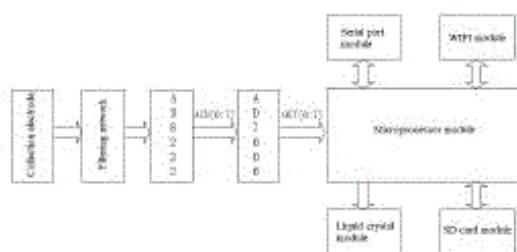


21: 2022/06808. 22: 2022/06/20. 43: 2022/08/22
 51: A61B
 71: Jiangsu Normal University
 72: HU, Kang, GAN, Liangzhi, ZHANG, Jingxiang, WANG, Shun

54: WIRELESS PORTABLE MULTI-CHANNEL SYSTEM FOR COLLECTING ELECTROENCEPHALOGRAPH SIGNAL

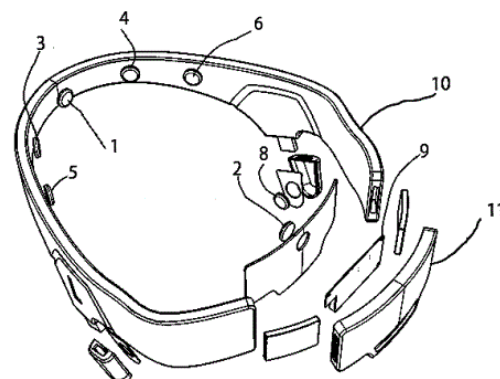
00: -

Disclosed is a wireless portable multi-channel system for collecting an electroencephalogram signal, including: a collection electrode divided into reference electrodes and working electrodes; a filtering network constituted by a filtering circuit and a protection circuit; an AD8232 module configured to collect, amplify and filter weak electroencephalogram signals; an AD7606 module converting analogue electroencephalogram signals into digital signals; a microprocessor module performing digital filtering on the digital signals and sending data to a WiFi module in real time; a serial port module configured to perform data communication with a PC machine; a liquid crystal module; an SD card module; the WIFI module; and a power supply module. The system according to the present invention has high distinguishability between the electroencephalogram signals, which will not be affected by external factors, such as sites and environments, and has very high general performance.



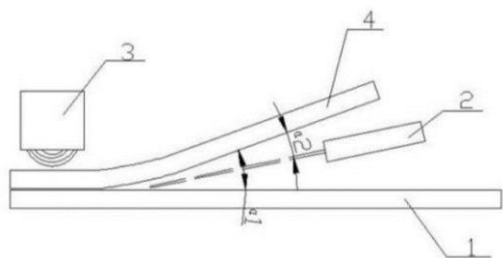
21: 2022/06825. 22: 2022/06/20. 43: 2022/08/22
 51: A61H; A61M; A61N
 71: SHENZHEN TIMEYAA ELECTRONIC TECHNOLOGY CO., LTD.
 72: LIU, Jinxin, SHOU, Zhaobing, WANG, Huiquan, FENG, Qiang, LONG, Hua
 33: CN 31: 202010528331.8 32: 2020-06-11
54: MENTAL FATIGUE INTERVENTION DEVICE AND METHOD

00: -
 Disclosed are a mental fatigue intervention device and method. The mental fatigue intervention device comprises: a head hoop body and a front direct-current generator, a rear direct-current generator, a left magnetic stimulation generator, a right magnetic stimulation generator, a left electrocardiogram acquisition electrode, a right electrocardiogram acquisition electrode, a left earphone, a right earphone and a circuit board which are arranged on the head hoop body. The front direct-current generator and the rear direct-current generator are respectively located at the middle of the forehead and the back of the head. The left earphone and the right earphone are respectively arranged on the left side and the right side of the head hoop body. The left magnetic stimulation generator is arranged on the left side of the front direct-current generator. The present invention uses a compound intervention means to intervene mental fatigue and improve intervention accuracy.



21: 2022/06873. 22: 2022/06/21. 43: 2022/08/30
 51: B22F; B33Y
 71: Suqian University
 72: CHEN, Yegao, XU, Qiong, ZHANG, Jun, SHAO, Guoyou, JIAO, Xinyang
 33: CN 31: 202110903863.X 32: 2021-08-06
54: LAYER-BY-LAYER STACKING FORMING METHOD FOR LOW-BOILING-POINT TWO-DIMENSIONAL MATERIALS
 00: -

Disclosed is a layer-by-layer stacking forming method for low-boiling-point two-dimensional materials, including the following steps: keeping a preset angle between a first layer of two-dimensional material and a substrate, preheating the first layer of two-dimensional material, using an energy gun to emit energy beams between the first layer of two-dimensional material and the substrate, and melting and welding a surface, facing the substrate, of the first layer of two-dimensional material to the substrate; performing compaction and surface cleaning on the first layer of two-dimensional material by using ultrasonic waves to form a first forming layer; forming a second forming layer in the same manner; repeating these steps in sequence, forming a third forming layer on the second forming layer... until the last forming layer is formed to obtain the target formed product. Two-dimensional material layers are welded through energy, so that the forming purpose is achieved.



21: 2022/06874. 22: 2022/06/21. 43: 2022/08/30

51: B22F; B33Y

71: Suqian University

72: CHEN, Yegao, SHI, Yunyang, HU, Changjun, GE, Hailang, CHEN, Guobin

33: CN 31: 202110903862.5 32: 2021-08-06

54: PART PREPARATION METHOD BASED ON SYNCHRONOUS SPRAY ATOMIZATION AND DEPOSITION AS WELL AS DENSIFICATION

00: -

The present invention relates to the field of precise additive manufacturing methods, and discloses a material or part preparation method based on synchronous spray atomization and deposition as well as densification. According to the method, a cyclic process of slicing - spray deposition - densification - spray deposition is adopted to directly form parts with a complicated structure and high precision; the spray atomization and deposition step can refine crystal grains and inhibit element segregation, so that the obtained deposition blank has fine and round crystal grains and uniform components, and stress concentration is reduced or eliminated; gaps in a deposition blank are eliminated through densification, the density is increased, and the fatigue resistance and the mechanical properties are improved; and the method belongs to a near-net forming technology, reduces or eliminates subsequent machining procedures, and improves efficiency.

21: 2022/06917. 22: 2022/06/22. 43: 2022/08/18

51: A01G

71: Institute of Horticulture, Sichuan Academy of Agricultural Sciences, Sichuan lanbaobao Agriculture Co., Ltd

72: LI Jing, SUN Shuxia, SONG Haiyan, WANG Lingli, TU Meiyuan, CHEN Dong, JIANG Guoliang, ZHOU Guangping

54: ORGANIC AND HIGH-YIELD CONTAINER CULTIVATION METHOD OF BLUEBERRIES

00: -

The invention relates to the technical field of blueberry planting, in particular to an organic and high-yield container cultivation method of blueberries. The method comprises that following step: a. selecting a container; b. preparation of substrate; c. seedling selection; d, planting and culturing; e. pruning; f. water and fertilizer management; g. pest control. The growth result of blueberry cultivated in the container is less affected by the soil conditions outside the container, and it can be cultivated and planted in sandy land, homestead, cement site and other places, with convenient management, and the density can be adjusted at any time according to the growth of seedlings, which is convenient for shaping and pruning, saving water and fertilizer; easy to move, the survival rate is as high as 100 percent. The cultivation method of the invention has the advantages of perfect system, simple operation and management, high fruit quality, remarkable economic and social benefits, and convenient popularization and application.

21: 2022/06968. 22: 2022/06/23. 43: 2022/08/30

51: A01N; A01P; C12N

71: Sino Green Agri-Biotech Co., Ltd.

72: ZHANG, Lixia, GAO, Xiaojing, WANG, Qi, SHI, Wei, WANG, Le, HUA, Guirong

54: BACILLUS AMYLOLIQUEFACIENS STRAIN AND USE THEREOF IN CONTROL OF ROOT-KNOT NEMATODE OF TOMATO

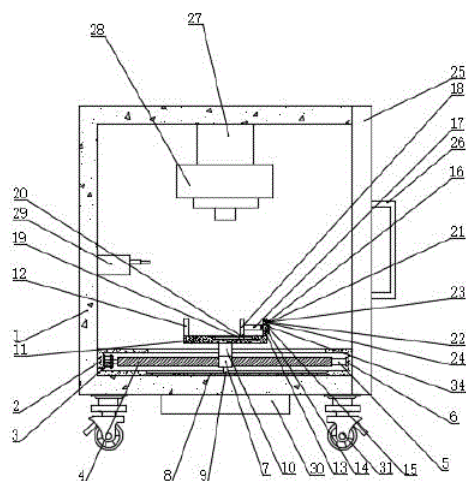
00: -

The present disclosure provides a *Bacillus amyloliquefaciens* strain and use thereof in the control of root-knot nematode of tomato. The strain provided by the present disclosure is a strain of *Bacillus amyloliquefaciens* lksnx2, deposited at the China General Microbiological Culture Collection Center (CGMCC) under accession number 19545. A spore suspension of the *B. amyloliquefaciens* lksnx2 has a significant inhibitory effect on the activity of second instar larvae of root-knot nematodes, and significantly inhibits the hatching of root-knot nematode eggs; roots of potted tomato seedlings are irrigated with the spore suspension of the *B. amyloliquefaciens* lksnx2, and after eight weeks, a number of root-knots on roots is each remarkably reduced compared with that of a control group; a number of egg masses per plant and a number of

eggs per egg mass are significantly lower than those of the control group.

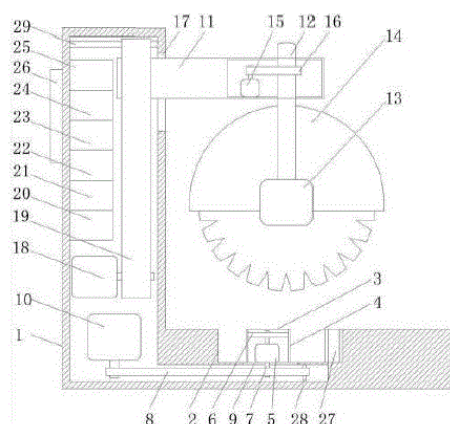
21: 2022/06969. 22: 2022/06/23. 43: 2022/08/30
51: A01J; A23K; C30B; G01J
71: Inner Mongolia Agricultural University
72: WANG, Dongqing, LIU, Jiangping, FU, Kangle
54: HYPERSPECTRAL DETECTION DEVICE FOR QUALITY OF MILK

00: -
The present disclosure belongs to the technical field of detection devices, and particularly relates to a hyperspectral detection device for quality of milk. The device comprises a box body, the inner wall of the box body is fixedly connected with a motor box, the inner wall of the motor box is fixedly connected with a positive and negative motor, and an output shaft of the positive and negative motor is fixedly connected with a first threaded column; and by arranging a second threaded column and a second rotary shaft, when needing to limit a milk carton filled with milk, a person firstly pulls a pull rod, a limiting rod can be driven to move accordingly, the limiting rod can be separated from a corresponding clamping groove, then the person rotates a turntable, and the second rotary shaft can be driven to rotate accordingly.



21: 2022/06970. 22: 2022/06/23. 43: 2022/08/30
51: B26D
71: Lanzhou City University
72: GAO, Guoliang, CHAI, Changsheng
54: AUTOMATIC CUTTING MACHINE
00: -

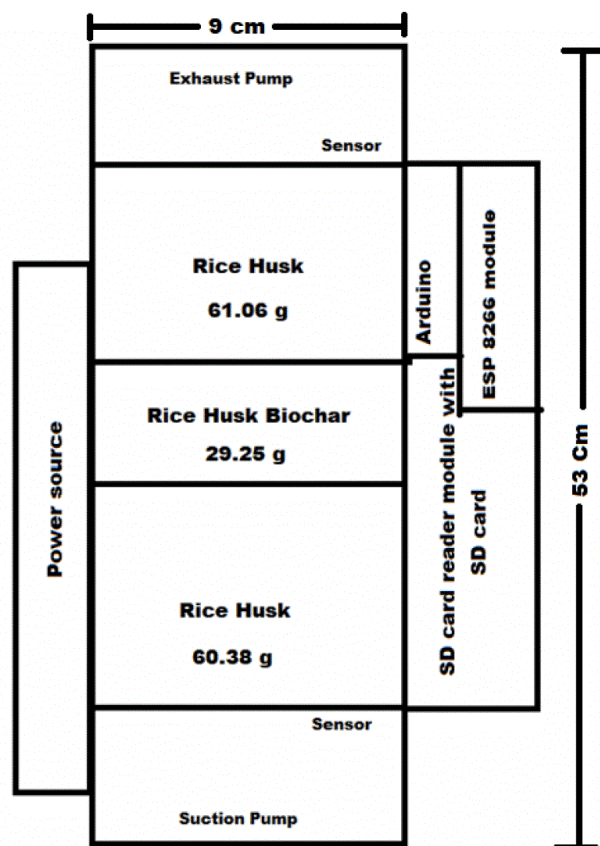
Disclosed is an automatic cutting machine including a shell. A fixing groove is provided in the shell, a conveying roller is connected to the fixing groove, conveying belts are connected to the conveying roller, a first drive motor is connected to the conveying roller and is connected to the conveying belts through a gear disc, a fixing rod is connected to the first drive motor, and a bottom of the fixing rod penetrates the shell and is connected to a first transmission belt. Through cooperation of a fixing control device, a lifting control device, a cutting control device, a size controller, a rotation control device and a control panel, cutting precision is improved, cut materials can satisfy requirements, material waste caused by insufficient cutting precision is avoided, cutting efficiency is improved, and the problem that a traditional cutting machine is not enough in cutting precision is solved.



21: 2022/06973. 22: 2022/06/23. 43: 2022/07/21
51: B01D; B60H; C02F
71: LOVELY PROFESSIONAL UNIVERSITY
72: SHARMA, Neeta Raj, D, Narenthira Prasath, TANDON, Runjhun, BANSAL, Anu, Ankita
33: IN 31: 202111028768 32: 2021-06-26
54: AN INTEGRATED REAL-TIME MONITORING SYSTEM FOR REMOVAL OF FOUL SMELL FROM WASTEWATER

00: -
The proposed invention discloses an integrated low-cost real time monitoring system for removal of foul smell from waste water. The proposed system is a detachable cylindrical shaped device with a unique multi-layer filter, fitted with two layers of rice and another layer of rice husk bio char and neem khali bio char to process the air filtration of the foul smell

emitted from wastewater through aerodynamics. An additional layer of fluoride form of Amberlyst A-26, will remove various poisonous gases emitted from the waste water. The sensory nodes detect the level of poisonous gases emitted from the wastewater at regular intervals. The device establishes communication to the IoT based customized cloud server for real-time monitoring through Wi-Fi module. The proposed invention is a cost-effective solution which is portable and easy to assemble at the site. The system comes with energy saving of solar-based rechargeable batteries for power supply.



21: 2022/06983. 22: 2022/06/23. 43: 2022/07/21
51: A47J

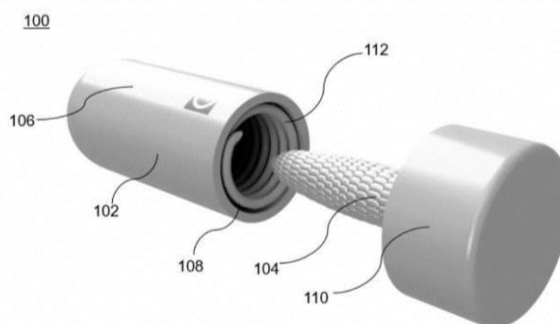
71: LOVELY PROFESSIONAL UNIVERSITY
72: Singh, Mandeep, Choudhury, Ruhul Amin,
KAUR, Namita, LAKHANPAL, Sorabh
33: IN 31: 202111040189 32: 2021-09-04

54: PORTABLE CORN ROASTING DEVICE

00: -

A portable corn roasting device (100) comprising: a cylindrical receptacle (102) adapted to receive a corn (104) for roasting, such that an inner layer (108)

of the cylindrical receptacle (102) made of a thermally insulating material to prevent a transfer of a heat from the inner layer (108) to an outer layer (106); a cap (110) comprises a shaft (118) to hold and retain the corn (104); a heating coil (112) adapted to uniformly dissipate the heat for roasting the corn (104); a power supply unit (120) to supply an electrical energy to the heating coil (112); a timer (130) to enable a user to set a time interval; and a control unit (134) to receive a signal indicating a start of the timer (130); and energize a relay (132) to enable a flow of the electrical energy for the time interval for roasting the corn (104).



21: 2022/06984. 22: 2022/06/23. 43: 2022/07/21
51: C02F; C05F

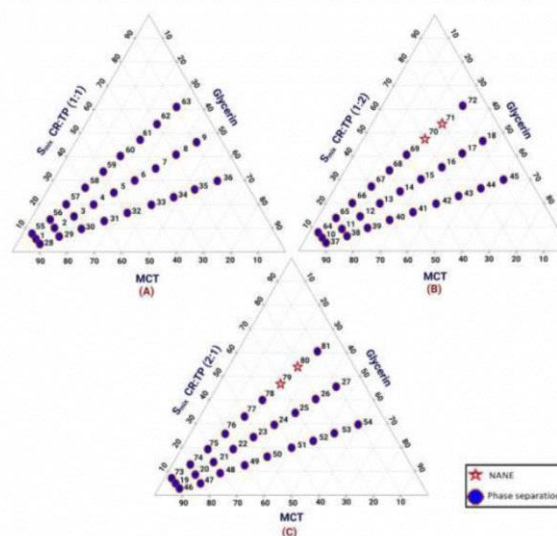
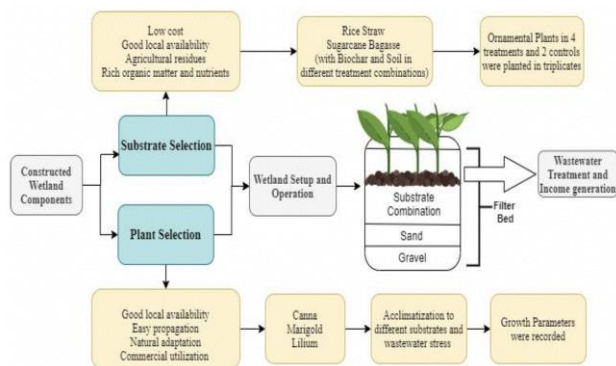
71: LOVELY PROFESSIONAL UNIVERSITY
72: Sharma, Mamta, Sharma, Neeta Raj, Kanwar,
Ramesh, Bansal, Anu, Kaushik, Aditi

33: IN 31: 202111049242 32: 2021-10-28

54: NOVEL BIOWASTE FERTILIZER FOR GROWTH OF ORNAMENTAL PLANTS FOR WETLAND SYSTEM

00: -

Novel Biowaste fertilizer for Growth of Ornamental Plants for Wetland System The present disclosure relates to the development of novel biowaste fertilizer for the growth of ornamental plants for wetland system. In the invention the locally available low-cost materials were used to develop fertilizer for constructed wetlands. The results of the study indicated that agricultural residues can be utilized as substrate for constructed wetland and ornamental plants can survive wastewater stress and produced good flowers. In addition, treatment of the wastewater will lead to additional income source.



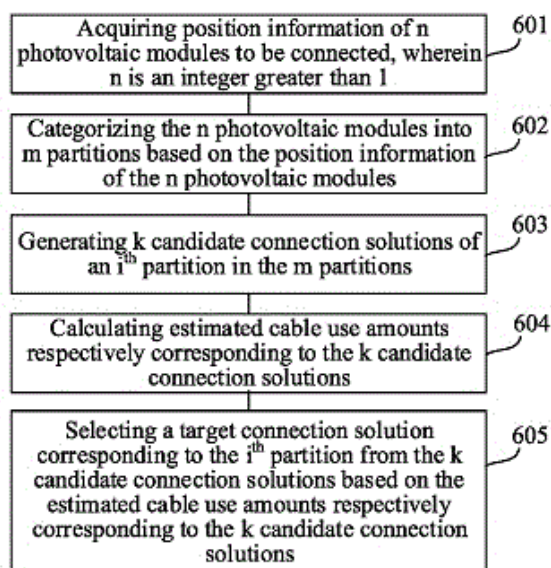
21: 2022/06985. 22: 2022/06/23. 43: 2022/07/21
51: A61K
71: LOVELY PROFESSIONAL UNIVERSITY
72: K R, Arya, Sheetu, Singh, Sachin Kumar, Gulati, Monica
33: IN 31: 202111059196 32: 2021-12-18
54: A NOVEL PHARMACEUTICAL FORMULATION OF ALPINIA GALANGA FOR SKIN INFECTIONS
00: -

The present invention discloses novel compositions of *Alpinia galanga* extract (AGE) viz emulsion, for the treatment of various skin diseases/disorders. The best effective topical treatment with the aforementioned herb can reduce the systemic side effects and can provide immediate relief from the conditions owing to the presence of the numerous phytoconstituents. The novel drug delivery system is to conserve the physical and chemical stability of the constituent as well as to provide the better pharmacological action of the drug in various skin treatments. The size reduction of the emulsion to nanosize provides deeper penetration into the skin and hence it initiates curative effect. The major advantages of this encapsulated micelle are to act as a drug reservoir providing prolonged release of the drug.

21: 2022/06997. 22: 2022/06/23. 43: 2022/07/28
51: G06F; H02S; H02J
71: ENVISION DIGITAL INTERNATIONAL PTE. LTD. , SHANGHAI ENVISION DIGITAL CO., LTD.
72: HU, YIJIE, XU, NING, ZHANG, CHEN, JIANG, XIU, HUANG, GUOKUN, ZHENG, TIANMIN
33: CN 31: 201911175761.X 32: 2019-11-26
54: METHOD AND APPARATUS FOR STRING CONNECTING PHOTOVOLTAIC MODULES, DEVICE, AND STORAGE MEDIUM
00: -

Disclosed are a method and an apparatus for string connecting photovoltaic modules. The method includes: acquiring position information of n photovoltaic modules to be connected; categorizing the n photovoltaic modules into m partitions based on the position information of the n photovoltaic modules; generating k candidate connection solutions of an i^{th} partition in the m partitions, wherein the i^{th} partition includes m photovoltaic modules, and each of the k candidate connection solutions uses one photovoltaic module in the m photovoltaic modules as a starting point, and obtaining at least one string of photovoltaic modules by simulating connection of the m photovoltaic modules according to a preset connection solution; and selecting a target connection solution from the k

candidate connection solutions based on an estimated cable use amount corresponding to each of the k candidate connection solutions.



21: 2022/07013. 22: 2022/06/23. 43: 2022/09/06

51: H01L; H02J

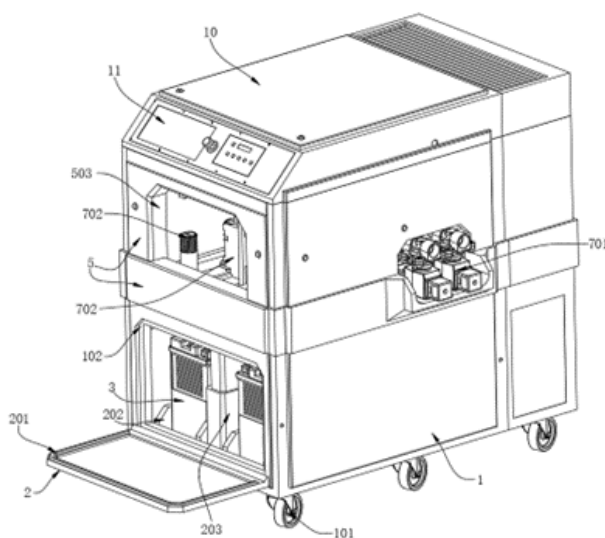
71: ZHEJIANG WANLI UNIVERSITY

72: LI, Qian, JIN, Ran, HONG, Xinhua, WANG, Qin

54: STANDBY POWER SUPPLY SYSTEM APPLIED TO COMPUTER AND USING METHOD THEREOF

00: -

The present invention discloses a standby power supply system applied to a computer and a using method thereof. The invention comprises a lower shell, a UPS (Uninterrupted Power Supply) emergency power supply mechanism and an IPM (Intelligent Power Module) management and control mechanism; storage batteries are uniformly arranged on a bottom wall of the lower shell; a wiring board is welded on an inner bottom wall of the lower shell; a supporting plate is welded on an inner side wall of the wiring board; and an upper shell is welded on an upper surface of the supporting plate. When sudden failure of a main supply, a double-power shift switch is instantaneously communicated with a standby circuit in milliseconds and is cooperated with the UPS emergency power supply mechanism to provide data of capacitance, current & voltage, temperature and the like to a back-stage management PC end prefabricated in the system.



21: 2022/07014. 22: 2022/06/23. 43: 2022/09/06

51: G06F

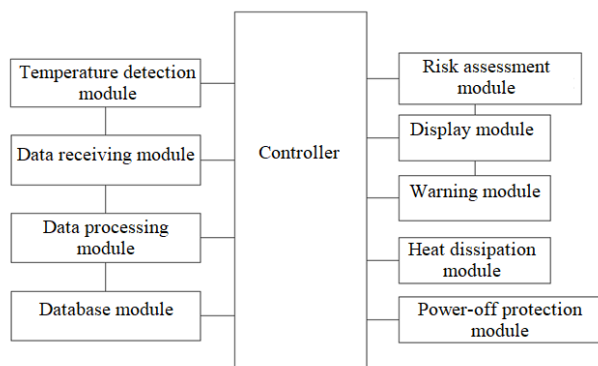
71: ZHEJIANG WANLI UNIVERSITY

72: LI, Qian, ZHANG, Kai, JIN, Ran, LIU, Hanzhong

54: REAL-TIME MONITORING SYSTEM FOR INTERNAL TEMPERATURE OF COMPUTER

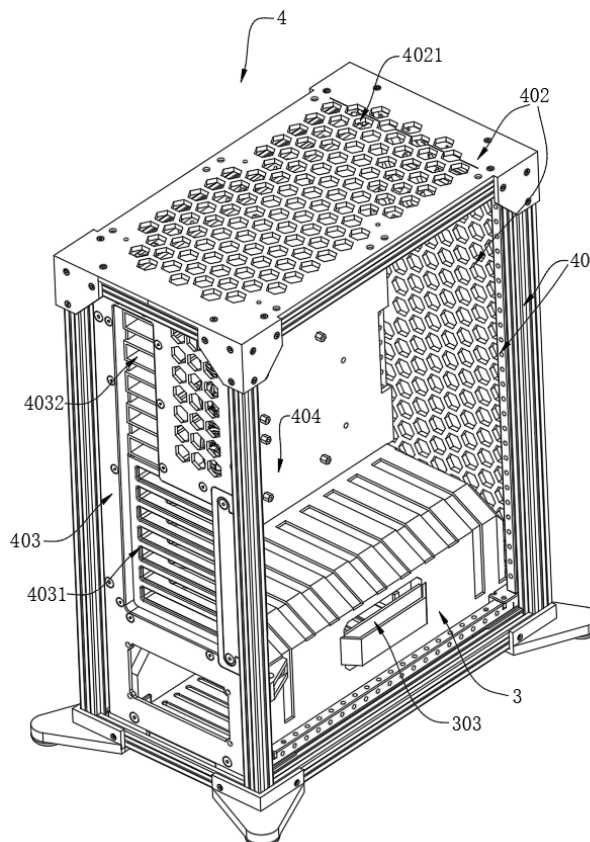
00: -

The present invention discloses a real-time monitoring system for internal temperature of a computer, which comprises a controller, a temperature detection module, a data processing module, a database module, a display module, a warning module and a heat dissipation module. The temperature detection module is used for detecting operating temperature of the computer; the data processing module is used for processing the detected temperature data; the temperature detection module is connected with the data processing module by a data receiving module; and the data receiving module is used for receiving the data detected by the temperature detection module. In the present invention, by arranging the temperature detection module and the heat dissipation module, temperature of a CPU (Central Processing Unit), a hard disk and a GPU (Graphics Processing Unit) in the computer can be detected, and the heat dissipation efficiency is adjusted according to the temperature of the computer.



21: 2022/07015. 22: 2022/06/23. 43: 2022/09/06
 51: H02B
 71: ZHEJIANG WANLI UNIVERSITY
 72: LI, Qian, FANG, Cong, JIN, Ran, LIU, Hanzhong
54: DUSTPROOF CABINET AND USING METHOD THEREOF

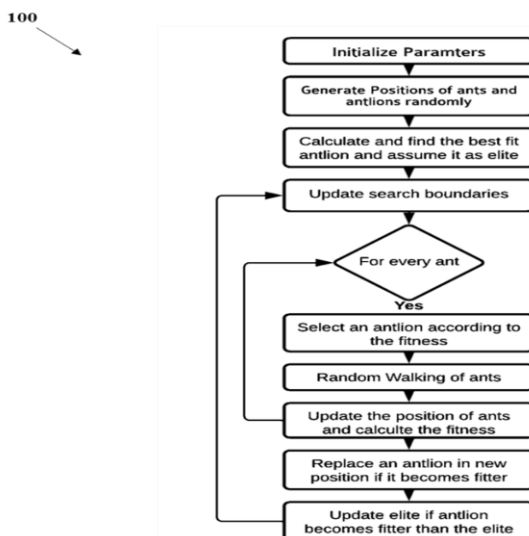
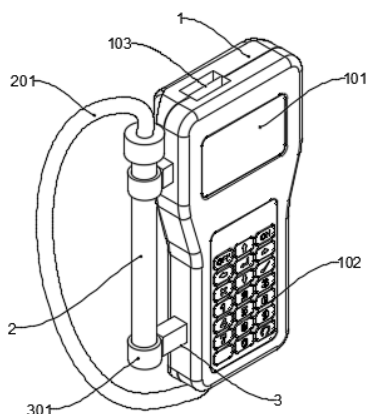
00: -
 The present invention discloses a dustproof cabinet and a using method thereof. The dustproof cabinet comprises a cabinet mechanism; a rear surface of the cabinet mechanism is provided with a first dustfall mechanism; the first dustfall mechanism comprises a first shell, first plug boards and second plug boards; a rear surface of the first shell is integrally formed with a first accommodating cavity; an inner side wall of the first shell is welded with outer surfaces of the five first plug boards; and a lower part of the inner side wall of the first shell is welded with outer surfaces of the six second plug boards. Related air duct mechanisms, plug boards and other mechanisms of the first dustfall mechanism are used to efficiently prevent dust and discharge dust at a rear panel of a computer in cooperation with four groups of dust removal devices.



21: 2022/07017. 22: 2022/06/24. 43: 2022/09/06
 51: G01V; G08B
 71: INNER MONGOLIA AUTONOMOUS REGION INSTITUTE OF PRODUCT QUALITY INSPECTION
 72: YUN, Jianbin, DUAN, Bin, ZHANG, Wenqing, GE, Jinliang
54: PORTABLE METAL HARDNESS DETECTOR
 00: -

The present invention provides a portable metal hardness detector, and relates to the technical field of metal hardness detectors, comprising a hand-held detector. One side of the hand-held detector is respectively provided with a display screen and control keys from top to bottom; upper and lower ends of one side, adjacent to the display screen and the control keys, of the hand-held detector are respectively fixedly connected with mounting blocks; one side of each mounting block is fixedly connected with a fixing sleeve; the mounting block is provided with an impact pipe through the fixing sleeve; the inner wall of the fixing sleeve is provided with three groups of mounting grooves at an equal distance; a clamping block is movably installed in each

mounting groove; and the clamping block is abutted against the outer wall of the impact pipe.



21: 2022/07018. 22: 2022/06/24. 43: 2022/08/30

51: G06F

71: MANIPAL UNIVERSITY JAIPUR OF: INDIA

72: Dr. Punit Gupta, Prof. Dinesh Kumar Saini

54: POWER EFFICIENT ANT LION ALGORITHM BASED RESOURCE OPTIMIZATION FOR CLOUD INFRASTRUCTURE

00: -

The present invention relates to a method (100) for power efficient ant lion algorithm-based resource optimization for cloud infrastructure. The method (100) includes steps initialize parameters for efficient power distribution; generate the position of ants and antlions randomly; calculate and find the best fit antlion and assume it as elite; update search boundaries; if yes, for every ant; select an antlion according to fitness; walk randomly of ants; update the position of ants and calculating the fitness; replace an antlion in new position if it becomes a filter, and updating elite if antlion filter than the elite. The present invention provides a cost-effective method (100) for power efficient ant lion algorithm-based resource optimization for cloud infrastructure that takes the minimum amount of time for execution as well as the least total time.

21: 2022/07037. 22: 2022/06/24. 43: 2022/08/30

51: B01J; C02F; C08F; C08J; C08K

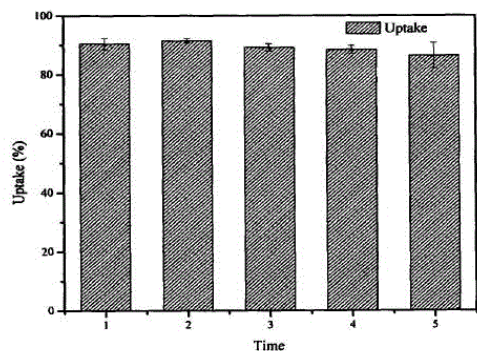
71: China Agricultural University

72: CAO, Fengmei, ZHOU, Yuguang, HUANG, Guangqun, LIU, Shan, WU, Min, SHANG, Nan, ZHANG, Jingzhi

54: METHOD FOR PREPARING MOLECULARLY IMPRINTED POLYMER FOR REMOVING PERFLUOROOCTANOIC ACID IN WATER ENVIRONMENT

00: -

"The present disclosure discloses a multi-walled carbon nanotube surface molecularly imprinted polymer (MWCNTs@MIP) obtained by modifying the surface of multi-walled carbon nanotubes (MWCNTs) using a molecular imprinting technology, and the MWCNTs@MIP is used for selectively adsorbing PFOA (perfluorooctanoic acid) in a water environment. Results show that the adsorption of the MWCNTs@MIP to 1 mg/L of PFOA can reach a balanced state within 80 min, and the adsorption amount of the MWCNTs@MIP to PFOA reaches 12.3 mg/g when the concentration of PFOA is 17.5 mg/L. After being repeatedly used for 5 times, the MWCNTs@MIP can still keep the PFOA removal rate almost the same as that of the MWCNTs@MIP used for the first time, and the PFOA removal rate is only reduced by 4.08%. Therefore, the MWCNTs@MIP has adsorption selectivity and reusability, and has good application prospects. "



21: 2022/07038. 22: 2022/06/24. 43: 2022/08/30

51: A61H

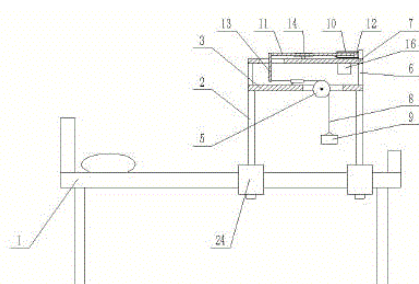
71: THE FIRST AFFILIATED HOSPITAL OF JINZHOU MEDICAL UNIVERSITY, XINGCHENG PEOPLE'S HOSPITAL

72: SONG, Changwei, WANG, Mei, ZHU, Siyu, YANG, Ao

54: ORTHOPEDIC REHABILITATION EXERCISE BRACKET

00: -

An orthopedic rehabilitation exercise bracket is provided, including a support bracket detachably connected to a hospital bed. A first mounting plate is fixed on a top end of the support bracket, a first through hole is opened on the first mounting plate, a connecting shaft is arranged in the first through hole, both ends of the connecting shaft are fixedly connected with the first mounting plate, guide wheels are slidably sleeved on the both ends of the connecting shaft; a mounting bracket is fixedly connected to a top end of the first mounting plate, a second mounting plate is fixedly connected to a top end of the mounting bracket, a power mechanism is arranged on the second mounting plate, a pull cord is fixedly connected to the power mechanism, and a tail end of the pull cord passes through any guide wheel and is fixedly connected to a support cushion.



21: 2022/07076. 22: 2022/06/27. 43: 2022/09/06

51: C07K

71: INSTITUTE OF ANIMAL HUSBANDRY, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES

72: SUN, Jinyan, PENG, Fugang, LI, Zhongqiu, ZHAO, Xiuhua, YUE, Shan, ZHANG, Yuanliang

54: METHOD FOR EXTRACTING INFECTIOUS BURSAL EGG YOLK ANTIBODIES

00: -

The present invention belongs to the technical field of prevention and treatment of poultry, particularly discloses a method for extracting infectious bursal egg yolk antibodies, and relates to a method for extracting the infectious bursal egg yolk antibodies. The method includes: immunizing healthy hens with an infectious bursal oil-emulsion inactivated vaccine, and collecting eggs, i.e., immunized eggs; separating egg yolk from the immunized eggs; adding normal saline into the egg yolk; uniformly stirring the mixture to obtain egg yolk liquid; adding potassium iodate into the liquid while stirring; standing the liquid after uniform stirring; centrifuging the liquid until no liquid flows out to obtain egg yolk antibodies; diluting the egg yolk antibodies with normal saline containing flavonoids; and filtering the liquid.

21: 2022/07077. 22: 2022/06/27. 43: 2022/09/06

51: A01N; C07K; C12N

71: RICE RESEARCH INSTITUTE, GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES

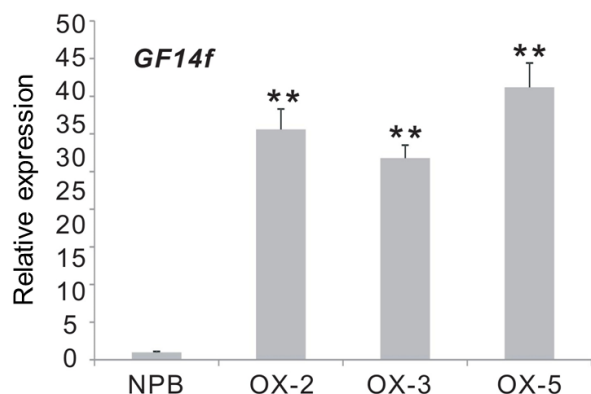
72: MA, Yamei, LIU, Qing, ZHANG, Shaohong, LIU, Bin

54: APPLICATION OF OSGF14F PROTEIN IN REGULATING COLD RESISTANCE OF RICE

00: -

The present invention discloses an application of an OsGF14f protein in regulating cold resistance of rice. A cultivation method for a transgenic plant comprises: promoting expression of an OsGF14f gene in a target plant to obtain a transgenic plant with enhanced cold resistance, wherein an OsGF14f protein coded by the OsGF14f gene is (a1) or (a2) or (a3) below: (a1) a protein having an amino acid sequence shown as SEQ ID. 1; (a2) a protein obtained from the protein in (a1) subjected to substitution, and/or deletion and/or addition of one or more amino acid residues, wherein the protein is related to the cold resistance of a plant; and (a3) a protein derived from rice, having 98% or more

identity with (a1), and related to the cold resistance of the plant.



21: 2022/07078. 22: 2022/06/27. 43: 2022/09/06

51: B01D; G06Q

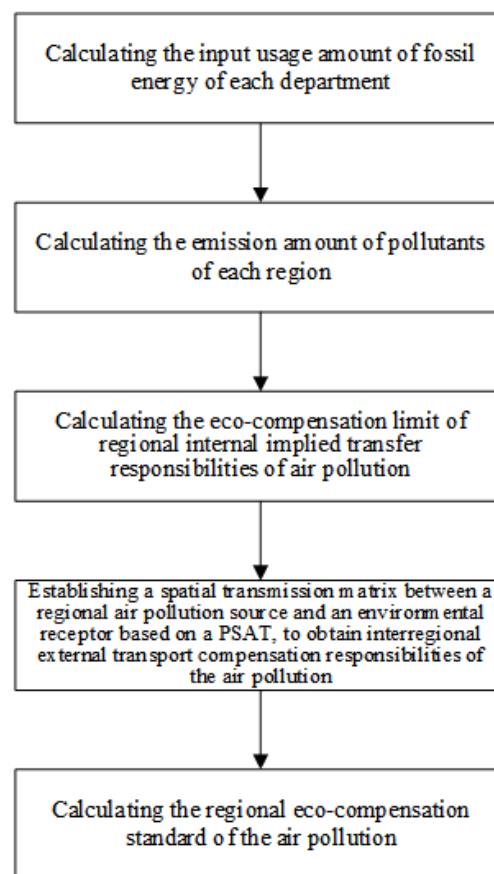
71: HUAINAN NORMAL UNIVERSITY

72: YUAN, Yuan, WANG, Jianmin, WANG, Yuhao, NI, Xianjie, YANG, Lingling, DAI, Hongjun

54: CALCULATING METHOD FOR INTERREGIONAL ECO-COMPENSATION STANDARD OF AIR POLLUTION BASED ON CGE MODEL

00: -

The present invention discloses a calculating method for an interregional eco-compensation standard of air pollution based on a CGE (Computable General Equilibrium) model, which comprises: combining coal, petroleum and natural gas into fossil energy departments by a production module of the CGE model and calculating the input usage amount of fossil energy of each department; calculating the emission amount of pollutants of each region; internalizing the input usage amount of the fossil energy of each department and the negative externality cost of the emission amount of the pollutants through eco-compensation of the air pollution, to obtain the eco-compensation limit of regional internal implied transfer responsibilities of the air pollution; simulating a response relationship between a pollution source and an environmental receptor and establishing a spatial transmission matrix between a regional air pollution source and the environmental receptor based on a particulate source analysis technology (PSAT).



21: 2022/07096. 22: 2022/06/27. 43: 2022/08/30

51: C07C

71: Dr. Amrut Gunwantrao Gaddamwar, Dr. Vijay Hariram Masand, Magdi Elsayed Abdelsalam Zaki

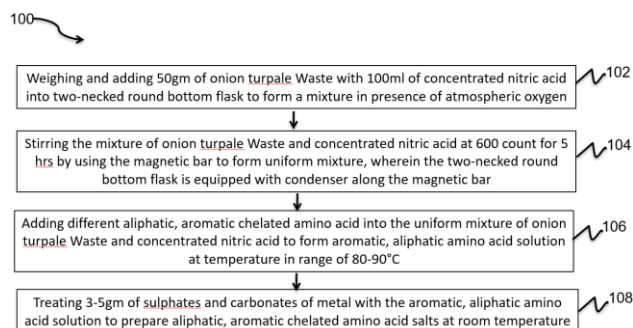
72: Dr. Amrut Gunwantrao Gaddamwar, Dr. Vijay Hariram Masand, Magdi Elsayed Abdelsalam Zaki

54: PROCESS FOR PREPARATION OF ALIPHATIC, AROMATIC CHELATED AMINO ACID SALTS FROM ONION TURPALE

00: -

The present relates to a process of preparation of aliphatic, aromatic chelated amino acid salts from onion turpale. The process includes of weighing and adding 50gm of onion turpale Waste with 100ml of concentrated nitric acid into two-necked round bottom flask to form a mixture in presence of atmospheric oxygen; stirring the mixture of onion turpale Waste and concentrated nitric acid at 600 count for 5 hrs by using the magnetic bar to form uniform mixture, wherein the two-necked round bottom flask is equipped with condenser along the magnetic bar; adding different aliphatic, aromatic

chelated amino acid into the uniform mixture of onion turpale Waste and concentrated nitric acid to form aromatic, aliphatic amino acid solution at temperature in range of 80-90°C; and treating 3-5gm of sulphates and carbonates of metal with the aromatic, aliphatic amino acid solution to prepare aliphatic, aromatic chelated amino acid salts at room temperature.



21: 2022/07097. 22: 2022/06/27. 43: 2022/08/30

51: A61K

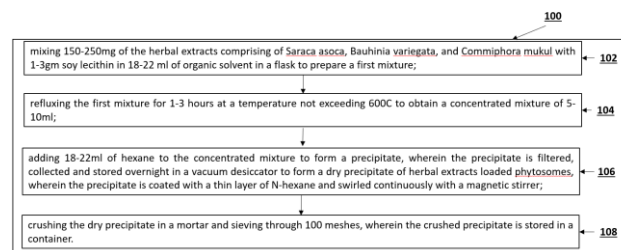
71: Dr. Gaurav Tiwari, Dr. Vassem Ahmad Ansari, Dr. Tarique Mahmood, Shubham Sharma, Dr. Md. Faheem Haider, Dr. Bhuwanendra Singh, Dr. Ashutosh Yadav, Reetu Yadav, Dr. Rohit Mohan, Dr. Hariom Sharma, Abhilasha Singh, Dr. Reshu Tiwari
72: Dr. Gaurav Tiwari, Dr. Vassem Ahmad Ansari, Dr. Tarique Mahmood, Shubham Sharma, Dr. Md. Faheem Haider, Dr. Bhuwanendra Singh, Dr. Ashutosh Yadav, Reetu Yadav, Dr. Rohit Mohan, Dr. Hariom Sharma, Abhilasha Singh, Dr. Reshu Tiwari

54: A COMPOSITION AND A METHOD FOR SYNTHESIS OF HERBAL EXTRACTS LOADED PHYTO-PHOSPHOLIPID COMPLEXES (PHYTOSOMES)

00: -

A method (100) for synthesis of herbal extracts loaded phyto-phospholipid complexes (Phytosomes), comprises of: mixing 150-250mg of the herbal extracts comprising of Saraca asoca, Bauhinia variegata, and Commiphora mukul with 1-3gm soy lecithin in 18-22 ml of organic solvent in a flask to prepare a first mixture; refluxing the first mixture for 1-3 hours at a temperature not exceeding 600C to obtain a concentrated mixture of 5-10ml; adding 18-22ml of hexane to the concentrated mixture to form a precipitate, wherein the precipitate is filtered, collected and stored overnight in a vacuum desiccator to form a dry precipitate of herbal extracts loaded phytosomes; and crushing the dry precipitate in a mortar and sieving through 100

meshes, wherein the crushed precipitate is stored in a container.



21: 2022/07135. 22: 2022/06/28. 43: 2022/08/25

51: A61M

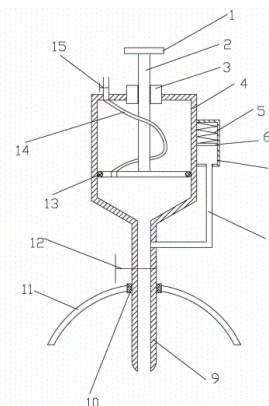
71: LI, Yan

72: LI, Yan

54: ENEMATOR FOR GASTROENTEROLOGY

00: -

The present invention discloses an enemator for gastroenterology, comprising an injection cylinder, an injection piston, an injection tube, and a pressure indicating cylinder. The injection piston is arranged in the injection cylinder, and one end of the injection tube is in communication with an outlet end of the injection cylinder. The pressure indicating cylinder is in communication with the injection cylinder, and the pressure indicating cylinder is configured to display the pressure within the injection cylinder. In the enemator for gastroenterology of the present invention, by providing valves at both ends of the injection cylinder, the total volume of the enema liquid in the injection cylinder is controlled by the two valves By setting the pressure indicating cylinder to display the pressure in the injection cylinder in real time, the injection pressure can be adjusted in real time to improve the comfort during the enema.



21: 2022/07136. 22: 2022/06/28. 43: 2022/08/25

51: G01V

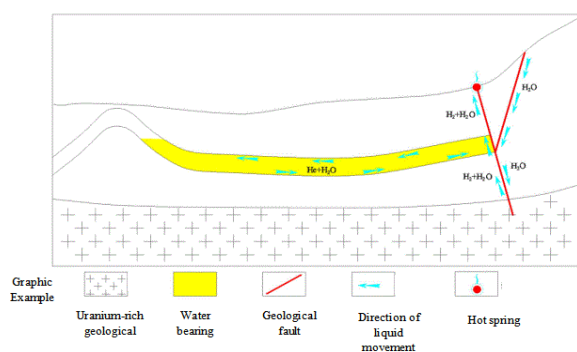
71: The Fourth Geological Exploration Institute of Qinghai Province, Key Laboratory of shale gas resources of Qinghai Province

72: Chao Haide, Chen Jianzhou, Ji Bingyan, Gong Zhiyuan, Jiang Yuanshan, Xu Yongfeng, Li Jiqing, Cai Tingjun, Xie Jing, Li Qing, Liu Libo

54: A KIND OF WATER-SOLUBLE HELIUM RESOURCE EXPLORATION METHOD

00: -

The invention provides a water-soluble helium resource exploration method, comprising the following exploration steps: S1, determining the distribution range of hot springs, cold springs, geothermal wells and their surrounding areas with radioactive anomalies and paleometamorphic rocks; S2, sampling Determine the helium content in hot springs, cold springs, and geothermal wells, and determine whether the helium content and resources meet the industry mining standards, and if so, proceed to the next step; S3, analyze geological, drilling, well logging, seismic, electrical, magnetic, and remote data, and clarify the horizon, thickness, and spatial distribution of the aquifer in the study area; For effective traps, the distribution patterns of faults and folds in the study area are determined by means of geology, material and remote sensing, and combined with data such as topography, spring water and well logging, the "replenishment-diameter-discharge" and boundary range of groundwater migration can be defined. Through this method, the investment is small, the cycle is short, and the effect is fast.



54: METHOD FOR MONITORING BEACH EROSION BASED ON ERODED SUBSTANCES

00: -

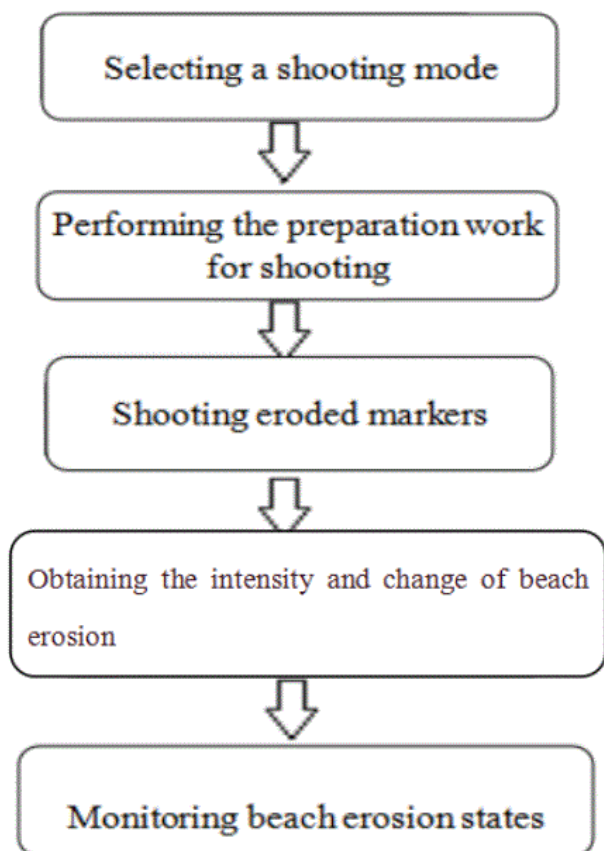
The application discloses a method for monitoring beach erosion based on eroded substances, which comprises the following steps: selecting a shooting mode; performing the preparation work for shooting according to the selected shooting mode; shooting erosion markers of the selected beach based on the shooting mode and the preparation work for shooting to obtain photos of eroded substances; taking photos of the eroded substances as data support to obtain the strength and change of beach erosion; and shooting in different seasons of each year the beach erosion markers in various directions to obtain the beach erosion monitoring results. In the application, artificial beach structures and natural scenes are used as beach erosion markers, and the strength and change of beach erosion can be analyzed through the changes of relative position between markers and beaches, the position of sandy coastlines, the morphological changes of beach topography and the space-time changes of beach width photographed in various periods. The application provides a basis for mastering the temporal and spatial variation characteristics of regional beach erosion.

21: 2022/07137. 22: 2022/06/28. 43: 2022/08/25

51: G01N

71: First Institute of Oceanography, Ministry of Natural Resources

72: WANG Yongzhi, DU Jun, QIAO Lulu, TIAN Ziwen



21: 2022/07138. 22: 2022/06/28. 43: 2022/08/25
51: A62C

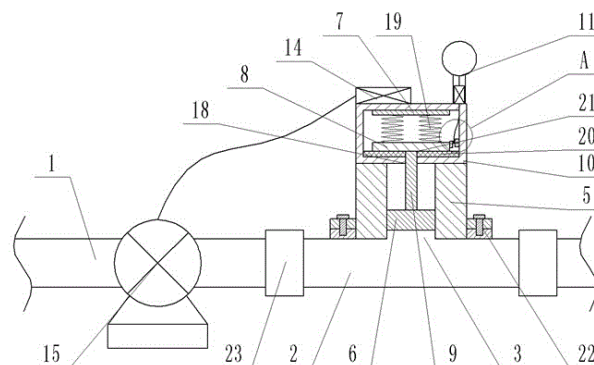
71: Qingdao Jimo District Water Supply Company
72: ZOU Jinye

54: REAL-TIME MONITORING DEVICE OF FIRE FIGHTING WATER SUPPLY PRESSURE FOR SMART CITIES

00: -

The invention discloses a real-time monitoring device for fire fighting water supply pressure smart cities, which comprises a measuring pipeline installed on a fire fighting pipeline; the measuring pipeline is provided with a measuring through hole; the shell is installed on the measuring pipeline through a connecting cylinder; the inner wall of the connecting cylinder is slidably connected with a piston piece; a pressure sensor is arranged in the shell, a push plate is arranged in the shell, and a spring group is fixedly connected between the push plate and the pressure sensor; two ends of the connecting rod are fixedly connected with the piston piece and the push plate respectively; the alarm is installed on the shell, and is electrically connected with a fixed conductive sheet and a movable

conductive sheet; the controller is installed on the shell; a water pump is installed on the fire fighting pipeline, and both the water pump and the pressure sensor are electrically connected with the controller. The invention can realize the monitoring of water pressure, keep the water pressure of fire fighting water supply in a proper range, keep effective fire fighting water supply, and give an alarm when the water pressure is continuously too low, which is convenient for operators to handle.



21: 2022/07139. 22: 2022/06/28. 43: 2022/08/25

51: G01B; G01D; G01G

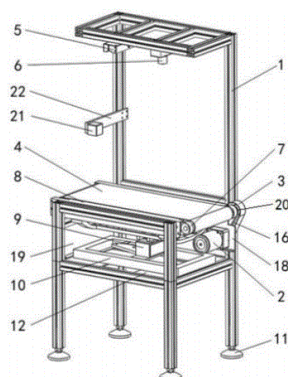
71: Shanghai Ocean University

72: ZHANG, Jun, CAO, Shouqi, WANG, Minghua, JIN, Shenxin, LIU, Aosheng, QIN, Lei

54: FISH WEIGHT AND EXTERNAL DIMENSION AUTOMATIC MEASURING DEVICE AND MEASURING METHOD THEREOF

00: -

The present disclosure discloses a fish weight and external dimension automatic measuring device and measuring method thereof, the device including a structural frame, wherein a lower part of the structural frame is provided with an upper bracket and a lower bracket, the upper bracket is arranged above the lower bracket. A conveying unit is arranged on the upper bracket, and the conveying unit is capable of conveying the fish, and an RFID electronic tag is implanted inside the fish tail of the fish. Further including a laser array ranging module and an industrial camera, a dynamic electronic scale, a code scanner and a control unit. The present disclosure realizes the dynamic and automatic measurement of fish weight and external dimension, and greatly improves data collection efficiency.



21: 2022/07140. 22: 2022/06/28. 43: 2022/08/25

51: F17D

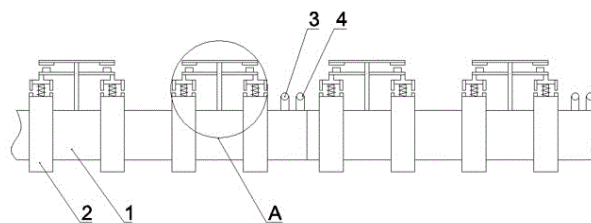
71: Qingdao Jimo District Water Supply Company

72: ZOU Jinye

54: MONITORING DEVICE FOR URBAN WATER SUPPLY PIPE NETWORK

00: -

The invention discloses a monitoring device for urban water supply pipe network, which comprises a plurality of fixedly connected water supply pipes, wherein the water inlet ends of the water supply pipes are all provided with a first monitoring mechanism; the outer side walls of the water supply pipes are fixedly connected with a plurality of support rings along the axial direction; the distance between two adjacent support rings is equal; the support rings are internally provided with a second monitoring mechanism; the first monitoring mechanism and the second monitoring mechanism are both correspondingly arranged with the water supply pipes; and the support rings are provided with a first alarm mechanism, The second monitoring mechanism is arranged corresponding to the first alarm mechanism, the water supply pipe is provided with a plurality of second alarm mechanisms, the second alarm mechanisms are located between two adjacent support rings, and both adjacent second monitoring mechanisms are arranged corresponding to the second alarm mechanisms. According to the invention, the real-time monitoring of the urban water supply pipe network is realized, and the water leakage point of the water supply pipe can be quickly and accurately positioned, so that the positioning maintenance efficiency is improved, and the waste of water resources is avoided.



21: 2022/07141. 22: 2022/06/28. 43: 2022/08/25

51: A01H

71: Yanbian University

72: RONG, Liping, GǎO, Yufu, WENG, Zhuo, LI, Xinyu

54: MEDIUM AND METHOD FOR TISSUE CULTURE OF ACER PSEUDO-SIEBOLDIANUM

00: -

The present invention relates to the technical field of tissue culture, in particular to a medium and method for tissue culture of *Acer pseudo-sieboldianum*. The medium includes a priming medium, a proliferation medium and a rooting medium, wherein the priming medium is a 1/2MS medium containing 0.05 - 0.25 mg/L IBA and 25 - 35 g/L sucrose; the proliferation medium is a MS medium containing 0.05 - 0.20 mg/L IBA, 0.5 - 1.5 mg/L CPPU and 25 - 35 g/L sucrose; and the rooting medium is a 1/2MS medium containing 0.10 - 0.40 mg/L IBA and 15 - 25 g/L sucrose. The medium formula provided by the present invention can be adopted to remarkably decrease the contamination rate of *Acer pseudo-sieboldianum* explants, promote the growth of axillary buds, increase the proliferation coefficient and rooting rate. *Acer pseudo-sieboldianum* with excellent traits can be rapidly propagated by the plant tissue culture method.

21: 2022/07145. 22: 2022/06/28. 43: 2022/09/08

51: G02B

71: Nanjing University of Finance and Economics

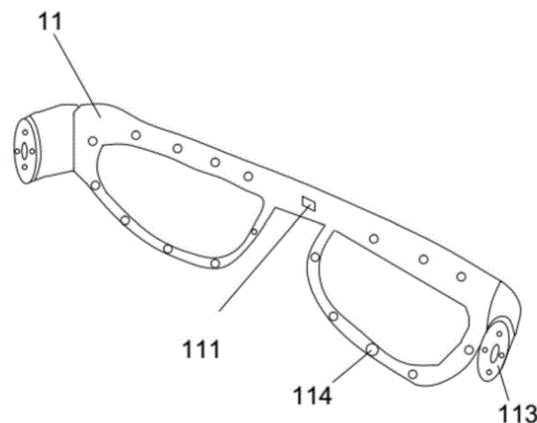
72: Su Yunjie, Zhang Xuan, Sun Wenhui, Ji Fei,
Peng Yitong, Wang Zhen, Wang Yimeng, LUAN
YIHAN

54: AN INTELLIGENT AR GLASSES DEVICE USING GEOMETRIC OPTICAL WAVEGUIDE TECHNOLOGY

00: -

An intelligent AR glasses device using geometric optical waveguide technology comprises a display, a field mirror, a spectroscopy, a reflector and an optical waveguide. Display definition : (I) the display is

arranged inside the lens near the eye side. Field mirror definition : (I) the field mirror is arranged on the output light path of the display. Spectroscopic definition : (I) the spectroscopic plate is arranged on the transmitted light path of the field mirror. (ii) the optical splitter comprises an optical substrate, a phase delay film and a polarization reflection film, the polarization reflection film is arranged on the optical substrate near the side of the field mirror, the phase delay film is arranged on the polarization reflection film away from the optical substrate side. Reflector definition : (I) the splitter is arranged on the transmitted light path of the field mirror. Optical waveguide definition : (I) the optical waveguide is arranged on the transmitted light path of the optical splitter. (ii) the optical waveguide plate comprises a first optical prism, a second optical prism and a third optical prism, the second optical prism is arranged on the side of the first optical prism away from the splitter, the third optical prism is arranged on the side of the second optical prism away from the first optical prism, A partial reflection and transmission film is arranged between the first optical prism and the second optical prism and between the second optical prism and the third optical prism. (iii), described in the second optical prism for parallelogram prism, the number of the second optical prism is described, mentioned in more than a second optical prism stated from the first optical prism described the third optical prism direction in turn set and together constitute a prism array, the adjacent two pieces of described in the second optical prism have some reflection of transmission film, And each part of the reflection part of the transmission film is parallel to each other.



21: 2022/07146. 22: 2022/06/28. 43: 2022/09/08
51: A61B; G08B

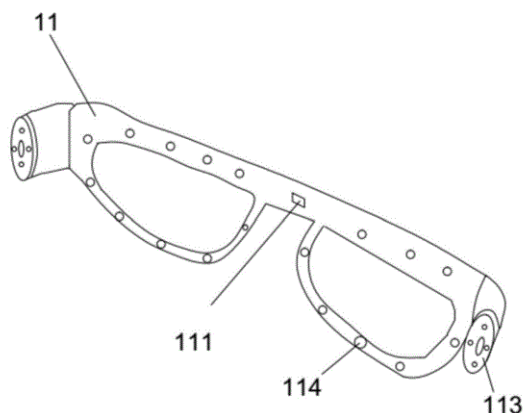
71: Nanjing University of Finance and Economics
72: Zhang Xuan, Su Yunjie, Sun Wenhui, Ji Fei, Peng Yitong, Wang Zhen, Wang Yimeng, LUAN YIHAN

54: A WEARABLE NURSING OPERATION PROCESS MONITORING DEVICE

00: -

The utility model relates to a wearable monitoring device for nursing operation process, which includes a main control circuit board image acquisition module alarm prompt component and a battery
Definition of main control circuit board : (I) the main control circuit board is installed with an embedded system in which a nursing operation monitoring program is installed, and a pre-recorded standard operating process image board is provided in the monitoring program. At the same time, the camera is also connected with the main control circuit board to transmit the collected image to the main control circuit board Image acquisition module definition : (I) the image acquisition module is connected with the main control circuit board, and its main function is to collect images of the actual operation of nursing staff (ii) The monitoring program will first identify the images collected, and then compare the identification results with the images of the standard operating procedures, and then judge whether the operation of nursing staff conforms to the provisions of the standard operating procedures (iii) The image acquisition module can be rotated, and the monitoring program is equipped with the target following function, and the target following function is followed by the wrist of the nursing staff. When there are more than one nursing staff, each nursing staff

will wear a monitoring device; The monitoring device also includes a voice collection module using voice print recognition technology, which can judge whether there are two or more people making the voice. The voice collection module is connected with the main control circuit board for voice collection Definition of alarm warning component : (I) the alarm warning component is connected with the main control circuit board for alarm warning under the control of the monitoring program. (ii) the alarm warning component includes a vibration motor or a horn battery.



21: 2022/07147. 22: 2022/06/28. 43: 2022/09/08
51: G02B

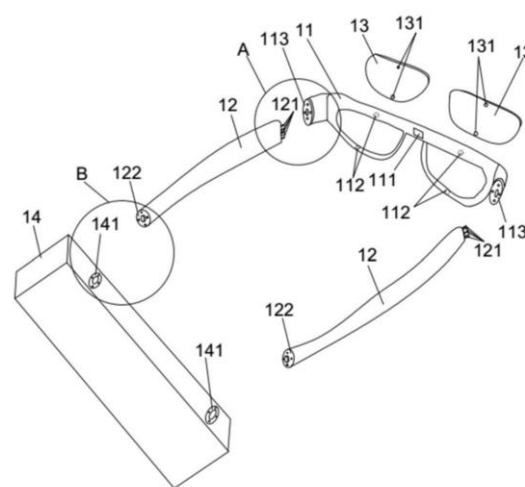
71: Nanjing University of Finance and Economics
72: Sun Wenhui, Su Yunjie, Zhang Xuan, Ji Fei, Peng Yitong, Wang Zhen, Wang Yimeng, LUAN YIHAN

54: A SMART AR GLASSES DEVICE THAT APPLIES EYE-TRACKING TECHNOLOGY FOR CROSS-BORDER E-COMMERCE OPERATIONS

00: -

The present invention discloses a smart AR glasses device for cross-border e-commerce operation applying eye-tracking technology. Said smart AR glasses device for applying eye-tracking technology for cross-border e-commerce operations comprises: an eye-tracking device for performing sight tracking is provided on the inner surface of the frame; a first magnet is provided on the outer side of the frame for mutually attracting with a second magnet provided in the lens to fix the lens to the frame; a first mirror leg connection is provided at both ends of the inner side of the frame, and the first mirror leg connection is provided for connecting to the mirror leg. The frame

connector is provided at one end of the lens leg to match the first lens leg connector, and the storage section connector is provided at the other end; the storage section is provided with a second lens leg connector matching the storage section connector at both ends; the storage section contains the spare frame, spare lens leg and/or spare lens. The eye-tracking glasses can be adapted to the needs of different users of eye-tracking glasses. The technology can help novice cross-border e-commerce users to precisely locate the selection location and improve the comfort of users wearing the eye-tracking glasses.



21: 2022/07148. 22: 2022/06/28. 43: 2022/09/08
51: G02B; G06F

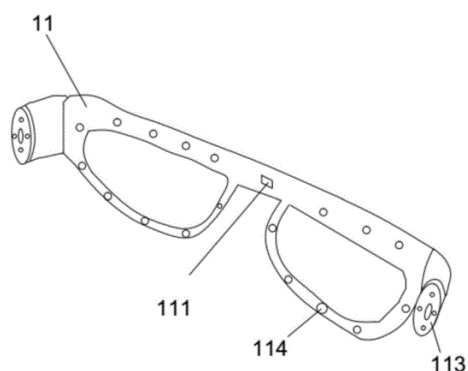
71: Nanjing University of Finance and Economics
72: Wang Zhen, Ji Fei, Zhang Xuan, Su Yunjie, Peng Yitong, Sun Wenhui, Wang Yimeng, LUAN YIHAN

54: A KIND OF SMART AR GLASSES DEVICE THAT PROTECTS THE PRIVACY OF CROSS-BORDER E-COMMERCE DATA TRANSMISSION

00: -

The embodiment of the invention relates to a multi-network system data conduction device, which comprises a plurality of physically isolated hosts, a serial device hot-plug control unit connected to multiple hosts, and a serial memory connected to the serial device hot-plug control unit. The physical isolation host defines : (i) each host has a built-in data bridge processing unit. Each host is only connected to one network system, and different hosts are connected to different network systems.

The hot-swappable control unit for serial devices connected to multiple hosts defines : (i) When a network system needs to transmit data to one or more other network systems, the network system processes the data to be transmitted through the data bridge processing unit of the host connected to it and writes the data into the serial memory, The serial device hot-plug control unit is triggered by a high and low level output by GPIO of the host computer to control the serial memory to disconnect from the current host computer on a physical circuit and connect to another host computer. (ii) The serial device hot-swappable control unit is connected with multiple hosts, and the serial device hot-swappable control unit is connected with the serial memory through serial data cables. The serial memory connected to the hot-plug control unit of the serial device defines :(i) a data bridge processing unit of another host reads data from the serial memory and writes it to the connected network system. After the writing is complete, the serial memory is formatted and cut back to the original host. (ii) If the task also needs to transmit the data written to the serial memory to other network systems, it is not necessary to format the serial memory and cut back the connection to the original host. (iii) The serial device hot-plug control unit is triggered by a high and low level output by GPIO of the host computer to control the serial memory to disconnect from the current host computer on a physical circuit and connect to another host computer and conduct data, and so on, until all tasks that need to be conducted are completed. The serial memory is then formatted and cut back to the original host.



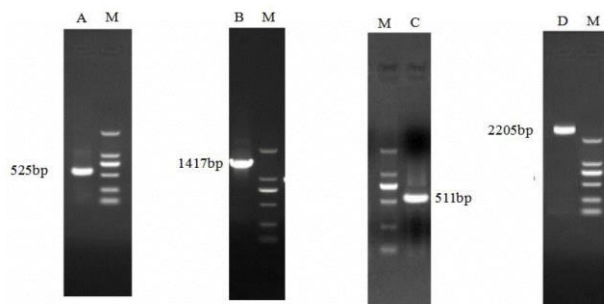
21: 2022/07197. 22: 2022/06/29. 43: 2022/08/25
51: C12N

71: Shandong Institute of Pomology, Modern Agriculture Research Institute of Yellow River Delta, Shandong Academy of Agricultural Sciences
72: FENG Lijuan, YIN Yanlei, WANG Chuanzeng, YANG Xuemei, TANG Haixia

54: POMEGRANATE PAL, ITS EXPRESSION GENE AND APPLICATION

00: -

The invention relates to pomegranate PAL, its expression gene and application. The expression gene of pomegranate PAL, the nucleotide sequence of which is shown in SEQ ID NO.1; the amino acid sequence of pomegranate PAL is shown in SEQ ID NO.2. The present invention adopts RT-PCR and RACE technology to clone the expression gene of PAL from pomegranate fruits, and carries out bioinformatics analysis, and studies its expression characteristics in the development of different varieties of fruits, thus providing theoretical basis for revealing the appearance quality and browning formation mechanism of pomegranate fruits.



21: 2022/07265. 22: 2022/06/30. 43: 2022/08/30
51: A21D; A61K; C05F; C08G
71: Hebei Normal University of Science and Technology
72: LIU, Suwen, JIANG, Wenhong, GUO, Shuo, CHANG, Xuedong

54: HAWTHORN PULP FERMENTED BISCUITS WITH HIGH AMINO ACID CONTENT AND PREPARATION METHOD THEREOF

00: -

The present disclosure provides hawthorn pulp fermented biscuits with high amino acid content and a preparation method thereof, and relates to the technical field of hawthorn biscuits. According to the present disclosure, the biscuits are made in the manner that morchella mycelium wheat flour and low-gluten wheat flour are adopted as raw materials, hawthorn pulp, xylitol and grape seed oil are added, and lactobacillus and saccharomyces are adopted

for synergistic fermentation, and the taste, flavor and appearance of the products are all better than those of fermented biscuits made only from plain low-gluten wheat flour under the same conditions. The products have a hawthorn flavor, are free of abnormal smell, high in amino acid content, low in sugar content, rich in nutrition and suitable for popular tastes, and have oxidation resistance.

21: 2022/07288. 22: 2022/07/01. 43: 2022/09/16

51: A61Q

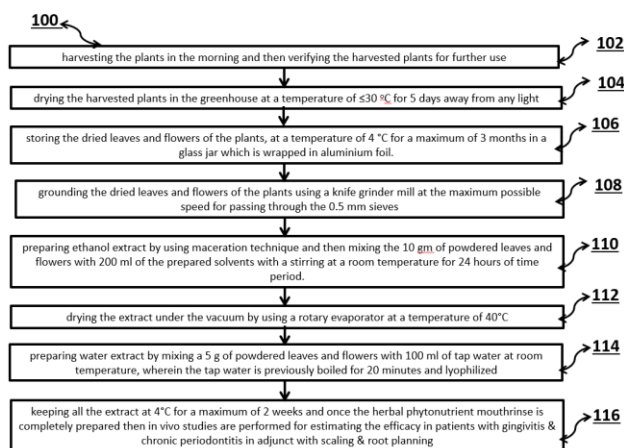
71: Dr. KRITIKA KEJRIWAL

72: Dr. KRITIKA KEJRIWAL, Dr. KARTHIK KRISHNA M, Dr. LUMBINI PATHIVADA, MANISH KUMAR SHARMA

54: A METHOD FOR PREPARING HERBAL PHYTONUTRIENT MOUTHRINSE AND ESTIMATING IT'S CLINICAL AND MICROBIOLOGICAL EFFICACY

00: -

The present disclosure relates to a method for preparing herbal phytonutrient mouthrinse and estimating its clinical and microbiological efficacy. The present disclosure aims to prepare a herbal phytonutrient mouthrinse by using plants namely *Hedychium coronarium*, *Echinesia*, *Calendula-officinalis*, and *Ocimum sant*, and rhizomes extract. The efficacy of the prepared mouthrinse is estimated in patients with gingivitis & chronic periodontitis in adjunct with scaling & root planning. The selected patients are divided into 3 groups namely Group I, Group II, and Group III which are treated by using Phytonutrient herbal mouthrinse, 0.2% chlorhexidine gluconate, and distilled water, respectively and their efficacy of the treatment is estimated and compared, wherein in vivo clinical trials are carried out where the reduced plaque formation, gingivitis, and periodontal pocket depth are clinically assessed for estimating the efficacy.



21: 2022/07289. 22: 2022/07/01. 43: 2022/09/16

51: C01G

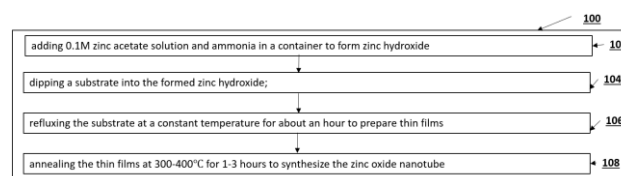
71: Dr. Indrajeet Ajit Dhole, Dr. Sunanda Harischandra Pisal, Prof. Jayavant Bhimrao Thorat, Dr. Mohan Martand Rajmane

72: Dr. Indrajeet Ajit Dhole, Dr. Sunanda Harischandra Pisal, Prof. Jayavant Bhimrao Thorat, Dr. Mohan Martand Rajmane

54: A METHOD FOR SYNTHESIZING ZINC OXIDE NANOTUBE

00: -

A method (100) for synthesizing zinc oxide nanotube, wherein the method (100) comprises of: adding 0.1M zinc acetate solution and ammonia in a container to form zinc hydroxide; dipping a substrate into the formed zinc hydroxide; refluxing the substrate at a constant temperature for about an hour to prepare thin films; and annealing the thin films at 300-400° for 1-3 hours to synthesize the zinc oxide nanotube.



21: 2022/07300. 22: 2022/07/01. 43: 2022/08/22

51: A01G

71: GONG Weisong

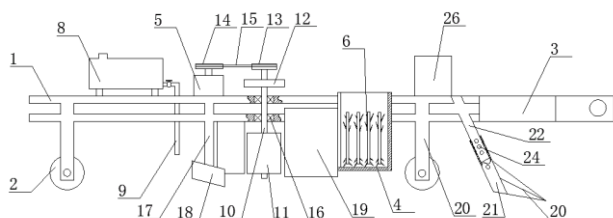
72: GONG Weisong, WANG Xiaoyou, LI Jinggang, ZHENG Huimin, ZHU Shilei, GONG Zheng, LI Dong, LIU Fuming, XU Fan

54: GROUP TRANSPLANTING EQUIPMENT FOR FRUIT TREE SEEDLINGS

00: -

The invention discloses a group transplanting device for fruit tree seedlings, which comprises a supporting

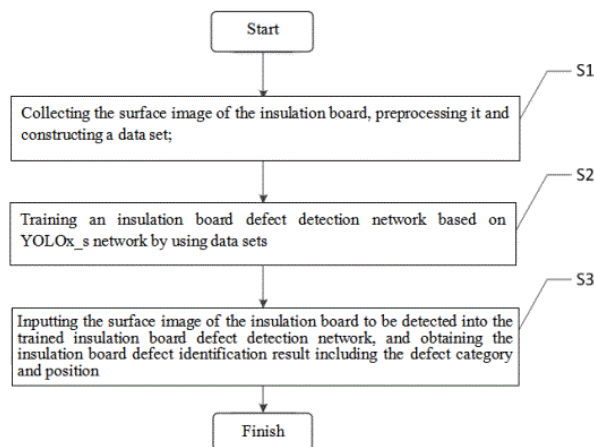
component, where the supporting component comprises a double-layer frame, and a moving wheel and a traction frame are arranged on the double-layer frame; planting mechanism, the planting mechanism includes seedling box, grooving device, soil covering plate, seedling placing component and motor in transmission connection with the seedling placing component, the grooving device is fixedly connected with the double-layer frame, the grooving device is located at the front end of the double-layer frame, the motor is fixedly connected with the double-layer frame, the seedling placing component is in transmission connection with the double-layer frame, the seedling box is fixedly connected with the double-layer frame, the seedling belt is placed in the seedling box, and the seedling box is provided with an outlet, which is correspondingly arranged with the seedling placing component, and the double-layer frame is fixedly connected with a power supply; a watering assembly, which comprises a water tank, where the water tank is fixedly connected to the double-layer frame and is communicated with a water pipe. The device can quickly plant saplings made into seedling belts in the soil, thus reducing the labor intensity of workers.



21: 2022/07301. 22: 2022/07/01. 43: 2022/08/22
51: G06N; G06Q
71: Sichuan University of Science & Engineering
72: LUO Zhongqiang, LI Quanyang, HE Xiangjie
**54: METHOD FOR IDENTIFYING INSULATIVE
BAFFLES DEFECTS BASED ON YOLOX_S
ENHANCED TARGET FEATURE DETECTION**
00: -

The application discloses a method for identifying insulative baffles defects based on YOLOx_s enhanced target feature detection, comprises the following steps: S1, collecting the surface image of the insulative baffles, preprocessing it and constructing a data set; S2, training an insulative baffles defect detection

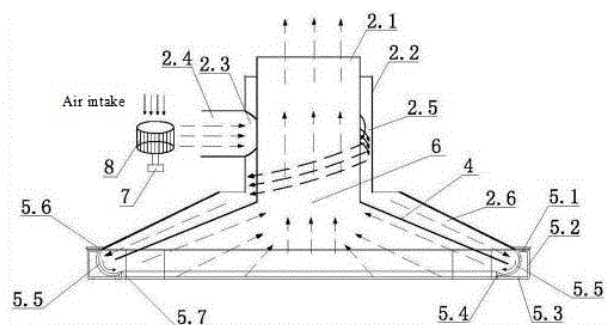
network based on YOLOx_s network by using the data set; S3, inputting the surface image of the insulative baffles to be detected into the trained insulative baffles defect detection network, and obtaining the insulative baffles defect identification result including the defect category and position. The detection system of the application integrates the key technologies of deep learning, target detection, attention mechanism, light weight, Transformer architecture and the like, can intelligently detect the surface defects of the insulative baffles based on the improved YOLOx_s, realizes the automation, intelligence and informatization detection on the insulative baffles which is a basic electric safety tool, replaces the traditional artificial visual method. The efficiency of detection and the accuracy of detection is greatly improved.



21: 2022/07302. 22: 2022/07/01. 43: 2022/08/22
51: F24C
71: Luoyang Guoqi Electromechanical Technology Co.,Ltd
72: LV Guang, ZHANG Juanmei, CHEN Wenqing, ZHANG Xinna, WANG Xiaoli, LIU Guoliang
**54: AIR CURTAIN TYPE OIL STAIN PREVENTION
AND OIL FUME EXHAUST MECHANISM**
00: -

The invention discloses an air curtain type oil stain prevention and oil fume exhaust mechanism, which comprises a gas gathering auxiliary mask and an exhaust mechanism fixed on the top of the gas gathering auxiliary mask, wherein the exhaust mechanism comprises a first cylinder and a second cylinder, and the first cylinder passes through the second cylinder with a first gap between them; A cone-shaped panel is fixedly connected to the

bottom of the first cylinder, a second gap is left between the cone-shaped panel and the inner wall of the conical gas-collecting mask, a wind-blocking mechanism is arranged at the bottom of the gas-collecting mask, and the wind-blocking mechanism comprises a concave baffle, and the bottom end of the cone-shaped panel is located in the concave baffle and does not contact with the concave baffle; the air inlet channel is fixedly connected to the second cylinder along the direction tangent to the side wall of the second cylinder. According to the invention, the air from the air inlet channel rotates in the first gap and enters the second gap, then is turned back by the wind-blocking mechanism, and an air curtain is formed in the second gap and the cone-shaped panel, so that oil smoke is isolated; and due to the adoption of the straight-row form, the suction force is strong, the smoke exhaust rate is high, and the oil smoke does not pass through the motor and the fan blades, so that the motor and the fan blades are prevented from being polluted by oil pollution.



21: 2022/07305. 22: 2022/07/01. 43: 2022/08/22

51: C12P

71: JIANGXI NORMAL UNIVERSITY

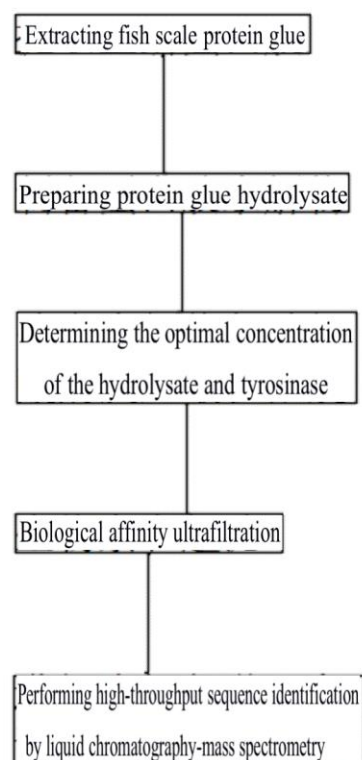
72: Tu Zong cai, Hu Zi zi, Sha Xiao mei, Wang Hui, Li Jin lin, Ye Yun hua, Liu Jun

54: A HIGH-THROUGHPUT AND RAPID SCREENING METHOD OF FISH SCALE PROTEIN GLUE TYROSINASE INHIBITORY PEPTIDE

00: -

The invention discloses a high-throughput and rapid screening method of fish scale protein glue tyrosinase inhibitory peptide, which comprises the following steps: Step 1, extracting fish scale protein glue; Step 2, preparing protein glue hydrolysate; Step 3, determining that optimum concentration of the reaction between hydrolysate and tyrosinase; Step 4, biological affinity ultrafiltration; Step 5,

performing high-throughput identification by liquid chromatography-mass spectrometry. Through the above structure, biological affinity ultrafiltration combined with mass spectrometry technology is used to screen tyrosinase inhibitory peptides, which reduces the dosage of enzymes and samples in the separation and purification steps and screening process, and improves the preparation efficiency. The processing by-product fish scales are used as raw materials to prepare bioactive peptides with tyrosinase inhibitory activity, which promotes the high-value utilization of aquatic products processing by-products.



21: 2022/07308. 22: 2022/07/01. 43: 2022/08/22

51: G01D

71: The First Nonferrous Geological Exploration Institute of Qinghai Province, Key Laboratory of Hidden Metallic Ore Deposits Exploration in Qinghai Province

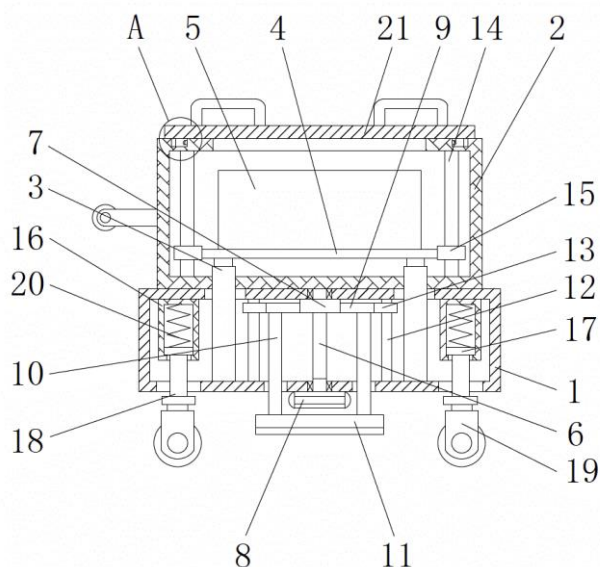
72: WANG Yongshun, WANG Wenfang, MIN Huiying, LI Xiaoyun, YANG Guojing

54: MONITORING DEVICE FOR ECOLOGICAL ENVIRONMENT TREATMENT

00: -

The invention discloses a monitoring device for ecological environment treatment, which comprises

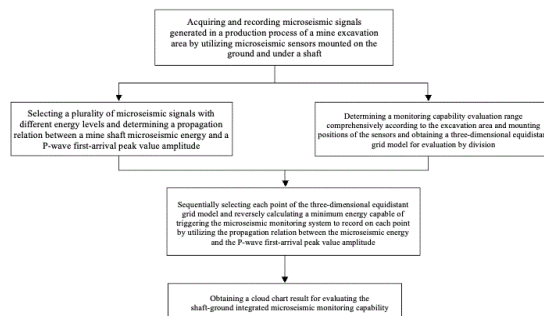
a first box body, wherein the top of the first box body is fixedly connected with a second box body; both sides of the bottom of the inner cavity of the first box body are fixedly connected with electric telescopic rods; the top of the electric telescopic rod penetrates through the inner cavity of the first box body and is fixedly connected with a cross plate; and the top of the cross plate is fixedly connected with an environmental monitor. Through the cooperation of the first box body, the second box body, the electric telescopic rod, the cross plate, the environmental monitor, the threaded rod, the threaded sleeve, the motor, the connecting plate, the vertical rod and the fixed plate, the invention realizes the purpose of good use effect, has the advantages of convenience in movement and stability in use, effectively avoids the trouble to users, and has the function of accommodating and protecting, thus improving the safety of the monitoring device for ecological environment treatment during transportation and movement, thereby improving the user's experience of the monitoring device for ecological environment treatment, and meeting the demand of the current market.



21: 2022/07309. 22: 2022/07/01. 43: 2022/08/22
51: G01V
71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY, Xuzhou Hongyi Technology Development Co., Ltd.
72: GONG Siyuan, XIA Shuang, GE Qing, DOU Linming

33: CN 31: 202210587786.6 32: 2022-05-27
54: METHOD FOR EVALUATING MONITORING CAPABILITY OF SHAFT-GROUND INTEGRATED MICROSEISMIC MONITORING SYSTEM

00: -
Provided is a method for evaluating a monitoring capability of a shaft-ground integrated microseismic monitoring system, which comprises the following steps: jointly recording microseismic signals generated in a production process of an excavation area by using sensors mounted under a mine shaft and on the ground, respectively, determining a propagation relation between a mine shaft microseismic energy and a P-wave first-arrival peak value amplitude by adopting a plurality of microseismic signals with different energy levels, determining a monitoring capability evaluation range comprehensively according to the excavation area and mounting positions of the sensors and obtaining a three-dimensional equidistant grid model for evaluation by division, then sequentially selecting each point of the three-dimensional equidistant grid model and reversely calculating a minimum energy capable of triggering the microseismic monitoring system to record on each point by utilizing the determined propagation relation between the energy and the P-wave first-arrival peak value amplitude, and finally obtaining a cloud chart result for evaluating the shaft-ground integrated microseismic monitoring capability. This method can accurately evaluate the observation capability of the shaft-ground integrated microseismic monitoring system on the microearthquake with different energy levels, and effectively guide the on-site adjustment of the shaft-ground integrated microseismic monitoring network center.



21: 2022/07310. 22: 2022/07/01. 43: 2022/08/22
51: F16L

71: Jilin Jianzhu University

72: XIN Shuang, FANG Pingwei, LI Na, JIA Yongxin, WANG Jie, LU Hai

54: METHOD FOR ASSESSING RECONSTRUCTION SEQUENCE OF WATER SUPPLY PIPELINES IN OLD URBAN AREAS

00: -

Disclosed is a method for assessing a reconstruction sequence of water supply pipelines in old urban areas. The method for assessing the reconstruction sequence of water supply network in old urban areas comprises the following steps: obtaining a topological diagram of water supply network in old urban areas; obtaining fault coefficients of water supply pipelines with different pipe ages; judging the proportion of various risk factors in a risk database; establishing a hydraulic risk assessment model; establishing water quality model of water supply network; establishing a weight model of external influencing factors of water supply pipelines based on grey theory; establishing a risk level assessment model of water supply pipelines, and classifying the risk level of water supply pipelines. By establishing the hydraulic risk assessment model and a water quality model of water supply network, and establishing a risk level assessment model of water supply pipelines combined with the fault coefficients of water supply pipelines with different pipe ages, the proportion of various risk factors in the risk database and external influencing factors of water supply pipelines, formulating the water supply pipelines reconstruction sequence scientifically and reasonably is realized based on this foundation, which has important practical significance for efficiently utilizing water supply pipelines reconstruction funds and ensuring the safety of residents' drinking water.

21: 2022/07311. 22: 2022/07/01. 43: 2022/08/22

51: G01D

71: Suqian University, QINGDAO UNIVERSITY OF TECHNOLOGY

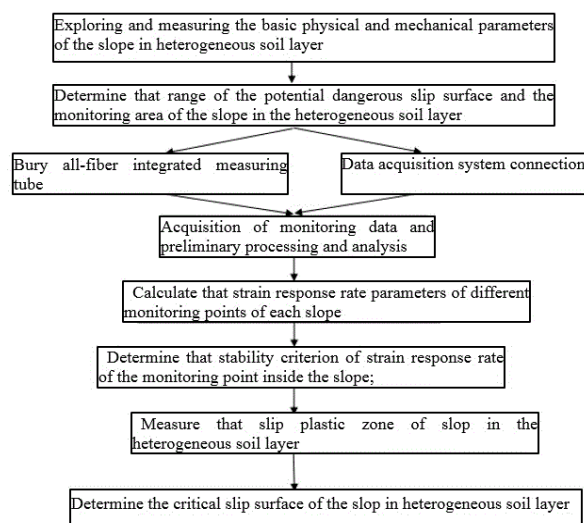
72: GUO Lu, HE Keqiang, DIAO Zhiwang, ZHANG Yongjun, SUN Linna, LI Nan

54: METHOD FOR MEASURING PLASTIC ZONE AND CRITICAL SLIP SURFACE OF SLOPE IN HETEROGENEOUS SOIL LAYER

00: -

The invention discloses a method for measuring the plastic zone and critical slip surface of a slope in a

heterogeneous soil layer. Firstly, the slop in the heterogeneous soil layer is assumed to be a homogeneous soil slope, the physical and mechanical parameters of the whole rock and soil body are taken from the actual physical and mechanical parameters of each layer of the slop in the heterogeneous soil layer, and the most dangerous slip surface of the homogeneous soil slope under the conditions of each rock and soil mechanical parameter is determined respectively, and the area enclosed by the largest arc and the smallest arc is taken as the monitoring area. All-fiber sensors are used to monitor the stress and strain data of each monitoring point in this area in real time, and on this basis, the strain response rate parameters and stability criteria of each monitoring point are determined. According to the variation law of strain response rate of each monitoring point at different times, the plastic slip area of the slope is determined, and then the position of the critical slip surface of the slope is determined according to the maximum value of the sudden change point of strain response rate of each monitoring point in each all-fiber integrated measuring tube, so as to achieve the purpose of scientific, effective and timely warning and treatment of the slop in the heterogeneous soil layer.



21: 2022/07312. 22: 2022/07/01. 43: 2022/08/22

51: E01C

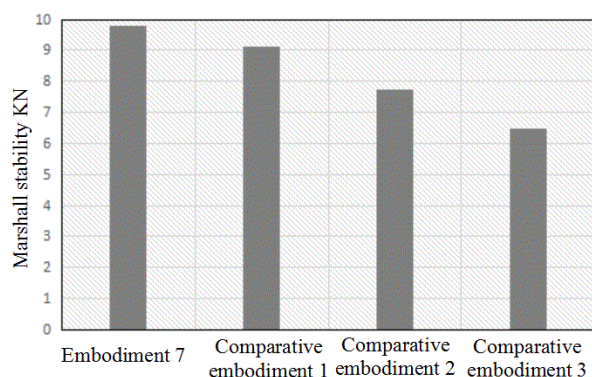
71: Jilin Jianzhu University

72: TIAN Wei, GUO Wei, LI Yingsong, GUO Xuedong, HUANG Mingxing, WANG Ruozhu, QIAN Yongmei, JIN Yujie, XU Lina, JIANG Xin, NIU Lei

54: METHOD FOR PREPARING LONG-LIFE ENVIRONMENT-FRIENDLY DRAINAGE ASPHALT PAVEMENT FROM OIL SHALE RESIDUE

00: -

The invention discloses a long-life environment-friendly drainage asphalt pavement, which consists of aggregate and asphalt, where the aggregate comprises coarse aggregate, fine aggregate and mineral powder; coarse aggregate includes stone with particle sizes of 16-19 mm, 9.5-16 mm and 4.75-9.5 mm; the fine aggregate includes oil shale residues with particle sizes of 2.36-4.75 mm, 0.6-1.18 mm, 0.3-0.6 mm, 0.15-0.3 mm and 0.075-0.15 mm; asphalt is modified asphalt, which is made up of asphalt matrix and silane coupling agent. The high-temperature stability, low-temperature crack resistance and water damage stability of the drainage asphalt pavement provided by the invention are obviously improved. The invention also discloses a method for preparing long-life environment-friendly drainage asphalt pavement from oil shale residue, which has the advantages of low raw material cost, simple preparation process and strong repeatability, and can be used for large-scale industrial production.



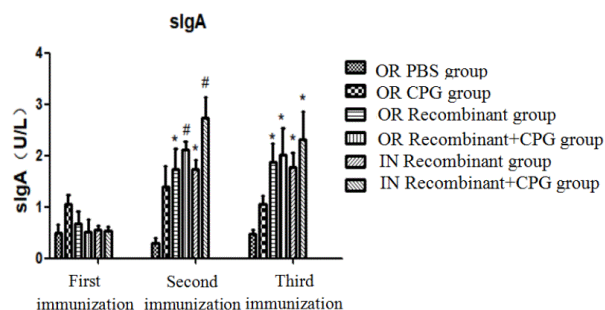
21: 2022/07313. 22: 2022/07/01. 43: 2022/08/22
 51: A61K; C12N
 71: Shanxi Agricultural University
 72: WANG Haidong, HOU Wei, JIANG Feiyang, LUO Xiaomao, YAN Yi, LU Jiayin, YU Xiuju, ZHANG Pu, CHEN Longyan

54: PREPARATION OF RECOMBINANT LACTOCOCCUS LACTIS ORAL VACCINE OF PEDV CAPABLE OF ENHANCING MUCOSAL IMMUNITY

00: -

The invention discloses a preparation of recombinant *Lactococcus lactis* oral vaccine of

porcine epidemic diarrhea virus (PEDV) capable of enhancing mucosal immunity, which comprises the following steps: according to protein structure and immune dominance prediction, the dominant immune region of PEDV S protein containing COE was intercepted and cloned into PUC-57 vector. According to the sequencing results and the characteristics of the expression vector, expression primers were designed to amplify the PEDV S coding sequence. The amplified PEDV S sequence was linked with *Lactococcus lactis* expression vector PNZ8148, and then the linked product was electrotransformed into *Lactococcus lactis* NZ9000 competent cells to obtain recombinant strain, and then induced by Nisin. The expression of PEDV S protein is confirmed by SDS-PAGE and Western blot analysis. Both recombinant *Lactococcus lactis* vaccine expressing PEDV and recombinant *Lactococcus lactis* expressing PEDV with the mucosal immune enhancer CPG-ODN vaccine can stimulate humoral and cellular immunity, and can significantly enhance mucosal immunity in mice. Therefore, it has wide application prospect in the preparation of PEDV vaccine, and also has important practical significance for promoting the healthy development of swine industry.



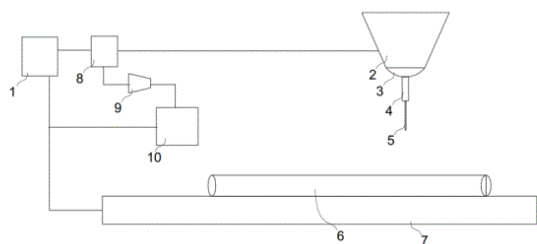
21: 2022/07314. 22: 2022/07/01. 43: 2022/08/22
 51: G01B
 71: Shandong Lanhai New Material Technology Co., Ltd.
 72: ZHANG, Tao, LIU, Qianli, BI, Xiumei, ZHENG, Jian
 33: CN 31: 202111090419.7 32: 2021-09-17

54: METHOD AND DEVICE FOR MEASURING DIAMETER OF METAL MICROWIRE

00: -

Disclosed are a method and device for measuring a diameter of a metal microwire. The method includes: A, constructing a test system, the test system at

least including a platform used for bearing a metal microwire sample and provided with a bearing surface, a movable sensor used for obtaining measurement information, and a feedback system connected to the sensor and used for acquiring the measurement information, and the bearing surface being conductive; B, moving the sensor, and obtaining travel information of the sensor related to mutation points when the measurement information is mutated on the basis of the measurement information acquired when the sensor is displaced or changed in form relative to the metal microwire sample borne on the platform; and C, carrying out solving to obtain the diameter D of the metal microwire. The present invention has a simple measurement process and high efficiency and measurement precision.



21: 2022/07315. 22: 2022/07/01. 43: 2022/08/22
51: G01L

71: Jilin Jianzhu University

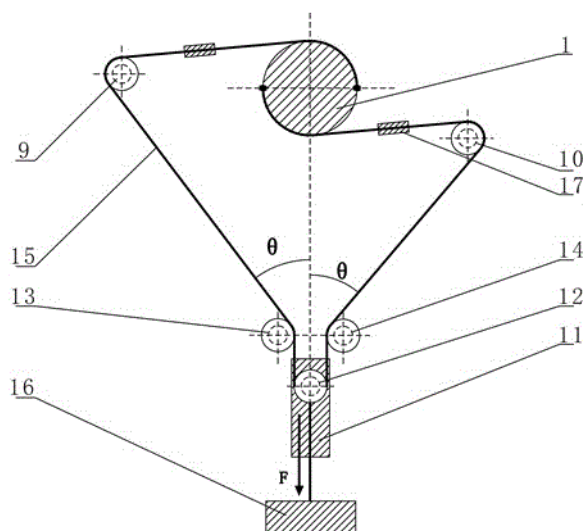
72: TIAN Wei, GUO Wei, LI Yingsong, GUO Xuedong, HUANG Mingxing, WANG Ruozhu, QIAN Yongmei, JIN Yujie, XU Lina, JIANG Xin, NIU Lei

54: MEASURING DEVICE AND TESTING METHOD FOR FRICTIONAL RESISTANCE OF SPHERICAL HINGE INTERFACE OF HORIZONTAL SWIVEL

00: -

The invention discloses a device for measuring the interface frictional resistance of a horizontal swivel spherical hinge, which comprises a spherical hinge structure, a load system and a traction system; wherein, the spherical hinge structure comprises an upper spherical hinge structure, a lower spherical hinge structure, a positioning pin shaft and a spherical hinge positioning bracket; the load system comprises a loading plate, a plurality of arm braces, a level gauge, a self-weight block and a self-weight block placing frame; the traction system is installed on the outer side of the spherical hinge structure as a whole, including angle adjusting fixed pulley,

traction pulley, electronic digital tension meter, steel strand, tractor and slideway. The invention also discloses a method for testing the interface frictional resistance of the horizontal swivel spherical hinge. The invention can realize the accurate measurement of the frictional resistance of the spherical hinge interface of different tonnage, spherical hinge sizes and spherical hinge materials, and is used for guiding engineering construction and providing theoretical basis and data reference for actual engineering construction. The invention can also be used to measure the friction coefficient of different spherical hinge interface lubricating materials, and be used for research and development of swivel spherical hinge interface lubricating materials.



21: 2022/07316. 22: 2022/07/01. 43: 2022/08/22
51: A23L

71: LI, Yuehou

72: LI, Yuehou

54: TRADITIONAL CHINESE MEDICINE FORMULA OF ZIZIPHUS JUJUBA VAR. SPINOSA (BUNGE) HU EX H.F.CHOW BLOOD-NOURISHING SOUP

00: -

The present disclosure provides a traditional Chinese medicine formula of Ziziphus jujuba var. spinosa (Bunge) Hu ex H.F.Chow blood-nourishing soup. The traditional Chinese medicine formula comprises the following components in parts by mass: 27-33 parts of Astragalus membranaceus (Fisch.) Bunge, 18-22 parts of Polygonatum sibiricum Delar. ex Redoute, 25-35 parts of prepared Rehmannia glutinosa (Gaert.) Libosch. ex Fisch. et

Mey., 8-12 parts of Lycium chinense Miller, 10-20 parts of Poria cocos (Schw.) Wolf, 12-18 parts of Atractylodes macrocephala Koidz. and 25-35 parts of fried Ziziphus jujuba var. spinosa (Bunge) Hu ex H.F.Chow. The Ziziphus jujuba var. spinosa (Bunge) Hu ex H.F.Chow blood-nourishing soup prepared by the formula is a beverage similar to tea, and can be drunk after the components are mixed, the mixture is put into boiling water to be cooked and solids are filtered out.

21: 2022/07317. 22: 2022/07/01. 43: 2022/08/22
51: A61K

71: FIRST HOSPITAL OF SHANXI MEDICAL UNIVERSITY

72: SHANG Nan, LUAN Shuwei, LI Ran, LI Yun

54: KIT FOR EARLY RAPID SCREENING OF ALZHEIMER'S DISEASE

00: -

The invention discloses a kit for early rapid screening of Alzheimer's disease, and relates to the technical field of biomedicine. The kit comprises blood aluminum standard substance, nitric acid diluent, sample nitration solution and cleaning solution. The kit of the invention includes all reagents and consumables used from extraction to on-machine detection of blood samples. and provides standard substances under the condition of calibrating blank values of consumables and reagents, so as to control an accuracy of instrument inspection. By using the kit, the aluminum error in the whole process can be quickly tracked and quality controlled, the instability of the aluminum concentration value is reduced to the greatest extent, and the reliability of clinical detection of the aluminum concentration value of patients is ensured.

21: 2022/07318. 22: 2022/07/01. 43: 2022/08/22
51: G06N

71: Zhengzhou University

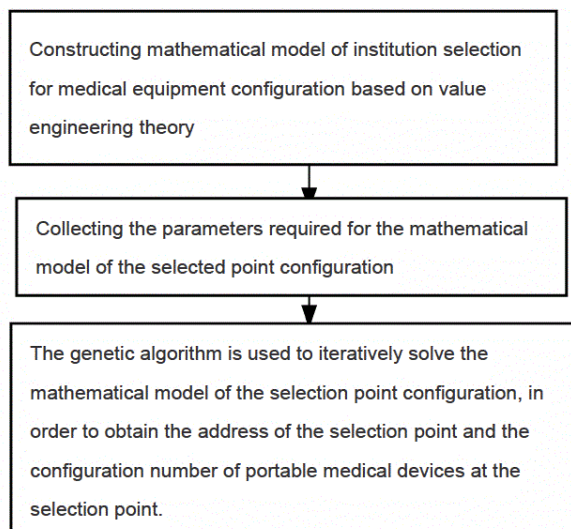
72: Wu Jian, Wang Yanqing, Zhao Yizhen

54: A CONFIGURATION METHOD FOR THE SELECTION OF SUITABLE INSTITUTIONS FOR PORTABLE MEDICAL EQUIPMENT IN COUNTY MEDICAL COMMUNITIES BASED ON GENETIC ALGORITHM

00: -

This invention provides configuration method of institution selection for portable medical equipment suitable for county medical community, which is

used to solve the technical problems of poor medical quality and service ability and low resource utilization rate caused by idle or underutilized medical equipment. The invention comprises the following steps: first, constructing mathematical model of institution selection for medical equipment configuration based on value engineering theory, and constructing the constraint conditions by configuring the influencing factors of institution selection; then, collecting the parameters of institution selection for medical equipment configuration needed for the mathematical model; finally, The genetic algorithm is used to iteratively solve the mathematical model of the selection point configuration, in order to obtain the address of the selection point and the configuration number of portable medical devices at the selection point. The invention provides a new idea and feasible method of equipment resource configuration for the construction of county medical community, and has both scientific significance and practical value.



21: 2022/07319. 22: 2022/07/01. 43: 2022/07/15
51: A61L; A61F

71: YANGZHOU UNIVERSITY

72: WU, CHUANG, WANG, HAIXIANG

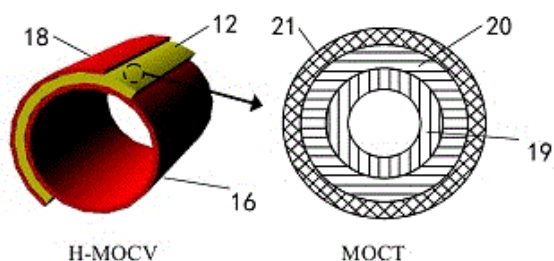
33: CN 31: 2021114936144 32: 2021-12-08

54: H-CNC MULTI-ORIENTED COAXIAL ARTIFICIAL BLOOD VESSEL AND METHOD FOR PREPARING SAME

00: -

The present disclosure discloses an H-CNC multi-oriented coaxial artificial blood vessel and a method

for preparing the same. The H-CNC multi-oriented coaxial artificial blood vessel comprises a hydrogel inner layer, an MOCT and a hydrogel outer layer which are coaxially and tightly bound together from inside to outside. The hydrogel inner layer and the hydrogel outer layer are sequentially made of H-CNC, COL and PDGF. The MOCT is sequentially composed of an AOCNs layer, a COCNs layer and a DOCNs layer from inside to outside. A fiber direction of the AOCNs layer is parallel to an axial direction of a receiving rotating shaft, a fiber direction of the COCNs layer is vertical to the fiber direction of the AOCNs layer, and the DOCNs layer is made of a disorderly oriented fiber. A coaxial nanofiber is formed by closely binding a nanofiber core layer and a nanofiber shell layer sequentially to form a composite structure with the nanofiber shell layer wrapping the nanofiber core layer. The nanofiber core layer is made of RAPA and a first PLCL composite material, and the nanofiber shell layer is made of TPU and a second PLCL composite material. The prepared H-CNC multi-oriented coaxial artificial blood vessel has excellent degree of orientation, biomechanical performance and biocompatibility.



21: 2022/07352. 22: 2022/07/04. 43: 2022/09/16
51: C07D

71: Preeti Verma, Ajay Kumar Gupta, Bhupendra Chauhan, A Rajendiran, Anju Singh

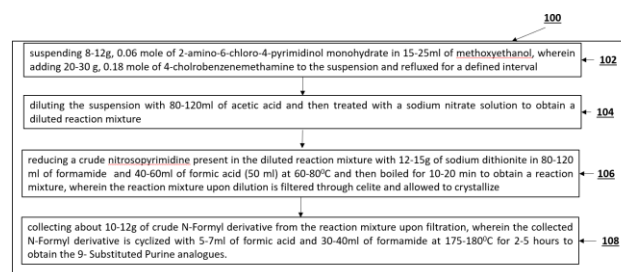
72: Preeti Verma, Ajay Kumar Gupta, Bhupendra Chauhan, A Rajendiran, Anju Singh

54: A COMPOSITION AND A METHOD FOR SYNTHESIS OF 9- SUBSTITUTED PURINE ANALOGUES

00: -

A method (100) for synthesis of 9- Substituted Purine analogues is provided. The method (100) comprises of suspending 8-12g, 0.06 mole of 2-amino-6-chloro-4-pyrimidinol monohydrate in 15-

25ml of methoxyethanol, wherein adding 20-30 g, 0.18 mole of 4-chlorobenzenemethamine to the suspension and refluxed for a defined interval; diluting the suspension with 80-120ml of acetic acid and then treated with a sodium nitrate solution to obtain a diluted reaction mixture; reducing a crude nitrosopyrimidine present in the diluted reaction mixture with 12-15g of sodium dithionite in 80-120 ml of formamide and 40-60ml of formic acid (50 ml) at 60-80°C and then boiled for 10-20 min to obtain a reaction mixture, wherein the reaction mixture upon dilution is filtered through celite and allowed to crystallize; and collecting about 10-12g of crude N-Formyl derivative from the reaction mixture upon filtration, wherein the collected N-Formyl derivative is cyclized with 5-7ml of formic acid and 30-40ml of formamide at 175-180°C for 2-5 hours to obtain the 9- Substituted Purine analogues.



21: 2022/07353. 22: 2022/07/04. 43: 2022/09/16
51: C22C

71: Dr Jeyasimman Duraisamy, Syed Bava Bakrudeen Abdul Jabbar

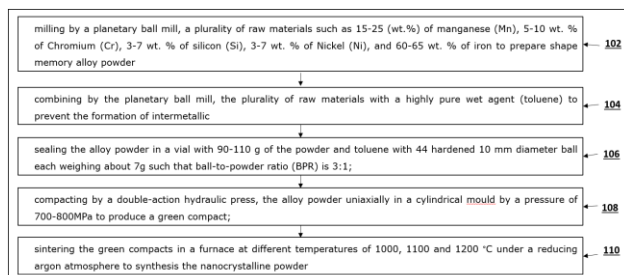
72: Dr Jeyasimman Duraisamy, Syed Bava Bakrudeen Abdul Jabbar

54: A COMPOSITION AND A METHOD FOR PREPARING NANOCRYSTALLINE POWDER

00: -

A method for preparing and analyzing nanocrystalline powder, comprises of: milling by a planetary ball mill, a plurality of raw materials such as 15-25 wt.% of Mn, 5-10 wt. % of Cr, 3-7 wt. % of Si, 3-7 wt. % of Ni, and 60-65 wt. % of iron to prepare shape memory alloy powder; combining the plurality of raw materials with a toluene to prevent the formation of intermetallics; sealing the alloy powder with 90-110 g of the powder and toluene with 44 hardened 10 mm diameter ball each weighing about 7g such that ball-to-powder ratio is 3:1; compacting by a double-action hydraulic press, the alloy powder uniaxially in a cylindrical mould by a pressure of 700-800MPa to produce a green

compact; and sintering the green compacts in a furnace at different temperatures of 1000, 1100 and 1200 °C under a reducing argon atmosphere to synthesis the nanocrystalline powder.



21: 2022/07354. 22: 2022/07/04. 43: 2022/08/25
51: G01B; G01N

71: INSTITUTE OF WATER RESOURCES FOR PASTORAL AREA, MWR

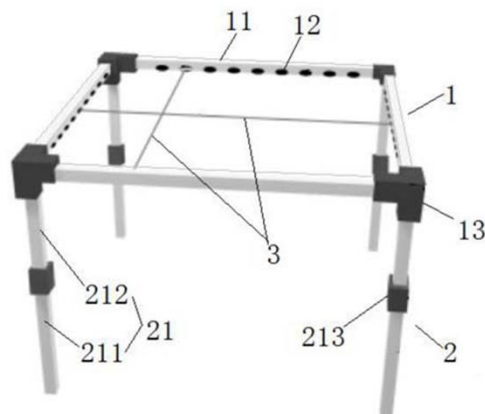
72: ZHENG, Ying, GUO, Jianying, DONG, Lei, YANG, Zhenqi, LIU, Yanping, TANG, Guodong, ZHANG, Tiegang

33: CN 31: 202210088153.0 32: 2022-01-25

54: PORTABLE FIELD INVESTIGATION QUADRAT FRAME

00: -

The present invention relates to the technical field of investigation and measurement of steppe vegetation, and particularly relates to a portable field investigation quadrat frame. The frame comprises a body, a height adjustable bracket and rope-bound separators; the height adjustable bracket is detachably assembled at the lower end of the frame body; the frame body comprises four border bars which are detachably connected with one another in sequence from end to end; hanging points are arranged on each border bar along a length direction at equal intervals, and the hanging points of the two border bars which are far away from each other in the frame body are arranged in a one-to-one correspondence manner; and the separator is detachably connected between every two corresponding hanging points.



21: 2022/07369. 22: 2022/07/04. 43: 2022/09/16
51: H04L

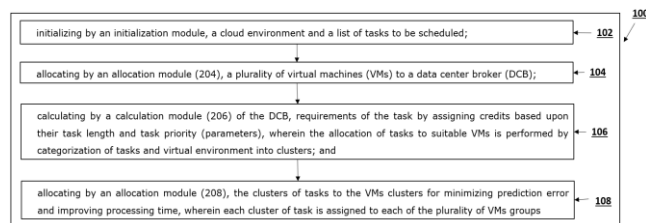
71: Dr. Vrajesh Sharma, Dr. Nipun Chhabra, Dr. Manju Bala, Dr. Kumar Shashvat, Dr. Arshpreet Kaur

72: Dr. Vrajesh Sharma, Dr. Nipun Chhabra, Dr. Manju Bala, Dr. Kumar Shashvat, Dr. Arshpreet Kaur

54: A MODIFIED SCHEDULING SYSTEM FOR CLOUD COMPUTING ENVIRONMENT AND A METHOD THEREOF

00: -

A modified scheduling method (100) and a system (200) for cloud computing network, comprises of:initializing by a initialization module (202), a cloud environment and a list of tasks to be scheduled; allocating by an allocation module (204), a plurality of virtual machines (VMs) to a data center broker (DCB);calculating by a calculation module (206) of the DCB, requirements of the task by assigning credits based upon their task length and task priority (parameters), wherein the allocation of tasks to suitable VMs is performed after categorization of tasks and virtual environment into clusters; and allocating by an allocation module (208), the clusters of tasks to the VMs clusters for minimizing prediction error and improving processing time, wherein each of the cluster of task is assigned to each of the plurality of first VMs group.



21: 2022/07401. 22: 2022/07/05. 43: 2022/09/16

51: G06Q

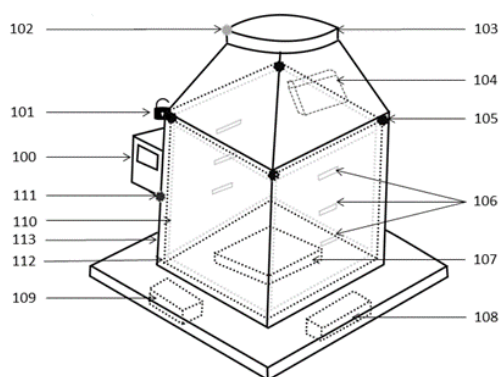
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, DUNBRAY, Nachiket, KATADE, Jayesh, NIMJE, Sparsh, MAVALE, Shreyas, MANTRI, Shamla, PANDE, Himangi

72: DUNBRAY, Nachiket, KATADE, Jayesh, NIMJE, Sparsh, MAVALE, Shreyas, MANTRI, Shamla, PANDE, Himangi

54: AN IOT BASED INCENTIVISED SMART TECH BIN

00: -

In the past few decades, the population metric of India has grown exponentially. Thus the amount of waste generated by people is increasing day by day. Various kinds of waste generation such as organic waste, bio-hazardous waste, and wet waste can cause serious health issues in a person. Proper and efficient waste management has to be done in order to protect the impact of this waste on society as well as on the environment. With many technological advancements in the field of IoT (internet of things) automation, human efforts are reduced to a certain extent. The system uses IoT (internet of things) components for waste collection. The system encourages the citizens of India to contribute towards waste management by introducing them to the incentivized technology used in the system.



21: 2022/07406. 22: 2022/07/05. 43: 2022/09/01

51: A01G

71: Sericulture Research Institute, Sichuan Academy of Agricultural Sciences

72: LIU, Gang, HUANG, Gaiqun, TONG, Wanhong, ZENG, Yichun, WEI, Ling, DAI, Jie, YAO, Yongquan, ZHENG, Jichuan, LI, Yongyuan, LIU, Jiang, PU, Jun, ZHANG, Haoren, GUO, Junying, MO, Xi

33: CN 31: 202110758261.X 32: 2021-07-05

54: CULTIVATION METHOD OF FRUIT MULBERRY

00: -

Disclosed is a cultivation method of fruit mulberry, including the following steps: planting fruit mulberry seedlings at alternating wide and narrow row spacings; cutting off the trunks; retaining 2 new shoots on a top of each trunk, and removing buds and other new shoots on the trunk; cutting off the new shoots to obtain primary branches; pulling down the primary branches, and fixing the pulled primary branches; removing the buds from the primary branches, and retaining 4-5 dorsal buds for each primary branch; cultivating the dorsal buds to grow upwards into main branches; cutting off the main branches to obtain secondary branches; and removing buds from the secondary branches, and selecting and retaining 2-3 growing buds for each secondary branch, and cultivating the growing buds into fruiting branches. The cultivation method is dense in planting density, the obtained mulberries are easy to pick, and the production efficiency is improved.

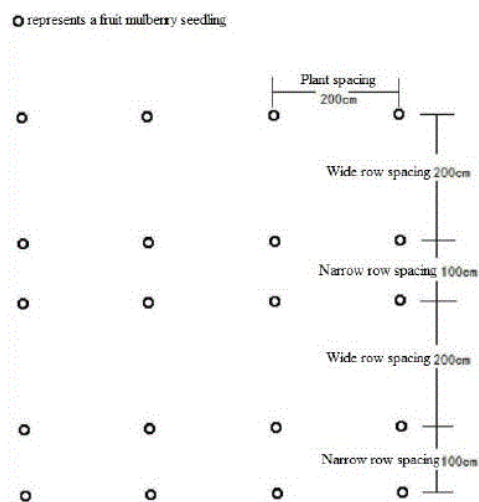


FIG. 1

21: 2022/07407. 22: 2022/07/05. 43: 2022/09/16

51: F04D

71: Muralidhar Kurni, B. Sridhar Babu, Harinadh Vemanaboina, Kaushik Kumar

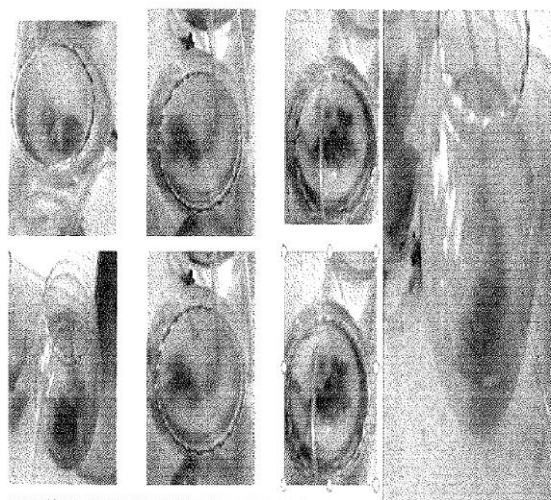
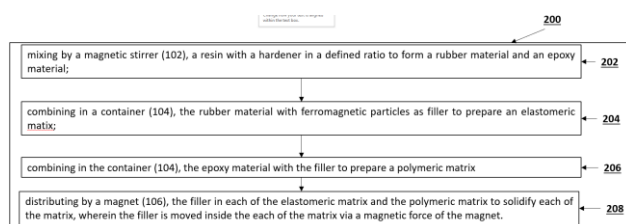
72: Muralidhar Kurni, B. Sridhar Babu, Harinadh Vemanaboina, Kaushik Kumar

54: A DEVICE AND A METHOD FOR MANUFACTURING A FUNCTIONALLY GRADED COMPOSITE MATERIAL

00: -

A method (200) and a device (100) for manufacturing a functionally graded composite material, comprise of: mixing by a magnetic stirrer

(102), a resin with a hardener in a defined ratio to form a rubber material and an epoxy material; combining in a container (104), the rubber material with ferromagnetic particles as filler to prepare an elastomeric matrix; combining in the container, the epoxy material with the filler to prepare a polymeric matrix; and distributing by a magnet (106), the filler in each of the elastomeric matrix and the polymeric matrix to solidify each of the matrix, wherein the filler is moved inside the each of the matrix via a magnetic force of the magnet.



21: 2022/07454. 22: 2022/07/05. 43: 2022/09/16

51: A61K; C12N

71: NAS BIOVENTURES LLC

72: SRINIVASAN, N.A., Mahalakshmi

33: US 31: 62/945,031 32: 2019-12-06

**54: MANUFACTURING OR ONSITE
INSTALLATION OF COMPOSITIONS WITH
METHODS, SYSTEMS TO ADDRESS
ECOLOGICAL AND ECONOMICAL CONCERNS
OF THE AQUACULTURE INDUSTRY**

00: -

The present disclosure generally relates to compositions, methods, systems to address stress, starvation, improved health, water quality, productivity and life expectancy of fishes. The composition(s) could comprise of bacteria that could be New Species, Variant of the Known species or Known species. The growth medium is used first to cultivate the bacteria and then added to the incubated bacterial suspension in a dehydrated form to complete the composition. The production unit of the product could be made an integral setup of farms, ponds, companies into transportation of Ornamental fishes, retail outlets. The methodologies involve pretreatment of fishes and introduction of the product into water. The manufactured product could be packaged in containers of different sizes and materials with the shelf life for best to use ranging from one month to six months from the date of manufacturing.

21: 2022/07456. 22: 2022/07/05. 43: 2022/08/25

51: A01G

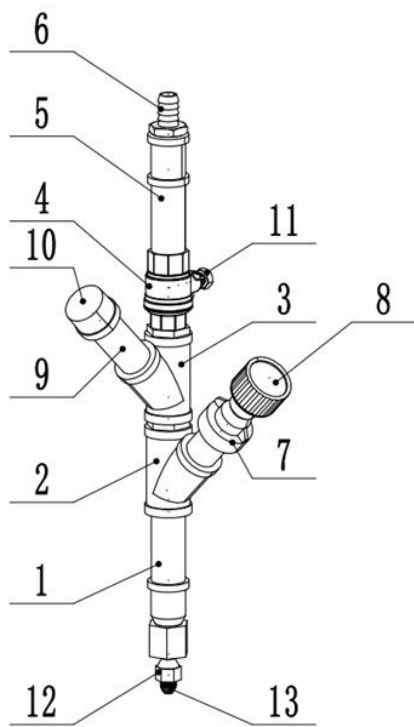
71: SHAANXI ACADEMY OF FORESTRY
SCIENCES

72: MA, Cunping, SHI, Changchun, YAO, Wei, JIA, Yanmei, WAN, Jianjun, GAO, Rong, LI, Jian, LIU, Jing, LIU, Yanru, JIANG, Jinyu, CAO, Shuangcheng, SUN, Jingyu, DONG, Qiang, CAO, Qingxi, SUN, Yao, ZHAO, Fei, MA, Xiaoxia, ZHANG, Maifang, CHENG, Guang, HU, Zhirong, LIU, Donglin, LIU, Xiaoli, MA, Bo, FENG, Na, QI, Kun

**54: LATE-STAGE AREA PREVENTION DEVICE
FOR ARTIFICIALLY PROMOTING NATURAL
REGENERATION OF PINUS SYLVESTRIS VAR.
MONGHOLICA LITV. IN SANDY AREAS**

00: -

The present invention discloses a late-stage area prevention device for artificially promoting natural regeneration of *Pinus sylvestris* var. *mongholica* Litv. in sandy areas, which comprises a main support rod arranged at a bottommost part; a pump support rod arranged above the main support rod; a conduit support rod arranged above the pump support rod and provided with a conduit at a side surface; a valve mounting piece arranged above the conduit support rod; and a spray structure support rod arranged above the valve mounting piece. Through distribution of a pipe network, all the prevention devices are supplied with drugs in a centralized way, so that the overall work efficiency of insect prevention is greatly improved; and moreover, the prevention devices distributed in a net pattern can treat insect damage in all directions, with a good treatment effect.



21: 2022/07460. 22: 2022/07/06. 43: 2022/08/25
51: C04B

71: GUANGXI TRANSPORTATION SCIENCE & TECHNOLOGY GROUP CO. LTD

72: XIE, Zhengzhuan, ZHANG, Yangpeng, ZHANG, Honggang, LAN, Riyan, LIAO, Dehua, LIU, Jiaqing, WANG, Hongwei, JIAO, Xiaodong, CHEN, Jiafeng, QIN, Zixuan

54: PREPARATION AND EVALUATION METHOD OF UNIFORM ANTI-CRACKING SELF-CURING MANUFACTURED SAND CONCRETE

00: -

A preparation and evaluation method of uniform anti-cracking self-curing manufactured sand concrete. The concrete comprises raw materials by weight percent: 10%-20% ordinary silicate cement, 40%-46% stones, 26%-34% manufactured sand, 0.2%-0.3% water reducing agents, 6%-8% water and 0.1%-0.3% internal curing agents. A preparation method comprising: the internal curing agents and cement which are required by preparation of the concrete are fully and uniformly mixed; followed by preparation technique of ordinary or high performance concrete; curing agents are sprayed on the external surface of the concrete before initial setting and after the concrete is formed, poured and plastered, to realize the preparation of the uniform anti-cracking self-curing manufactured sand

concrete. The present invention has good working performance, can reduce the shrinkage rate of the concrete, improve the anti-cracking performance and durability of the concrete, realize later self-curing and reduce 100% of the water consumption cost of external curing of the concrete.

21: 2022/07510. 22: 2022/07/07. 43: 2022/09/06
51: C12N

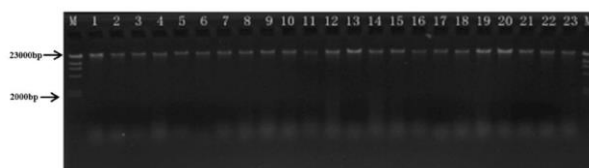
71: RESEARCH INSTITUTE OF SUBTROPICAL FORESTRY, CHINESE ACADEMY OF FORESTRY

72: XU, Yang, GONG, Bangchu, YANG, Xu, WU, Kaiyun, LIU, Cuiyu

54: METHOD FOR EXTRACTING HIGH-QUALITY DNA FROM DIOSPYROS KAKI

00: -

Disclosed is a method for extracting high-quality DNA from Diospyros kaki which adopts a CTAB method as a framework, adds an antioxidant during grinding, carries out PEG elution before lysis, optimizes the subsequent operation steps of the CTAB method to form the, including the steps of material collection, material grinding, PEG elution, CTAB lysis, extraction, DNA precipitation and collection. An average concentration is 328.93 ng/ul, which is 8.9 times of that obtained by a kit method. An OD260/280 ratio is 1.97, an OD260/230 ratio is 2.03. The protein pollution and DNA saccharides and salt pollution are well controlled, and DNA is complete. The DNA extracted by the method can meet the requirements of molecular test such as SSR marker typing and reduced-representation sequencing. The method doesn't use phenol for re-extraction, test time is shortened, steps are simplified, harm of organic solvents on human health can also be reduced.



21: 2022/07511. 22: 2022/07/07. 43: 2022/08/25
51: G01N

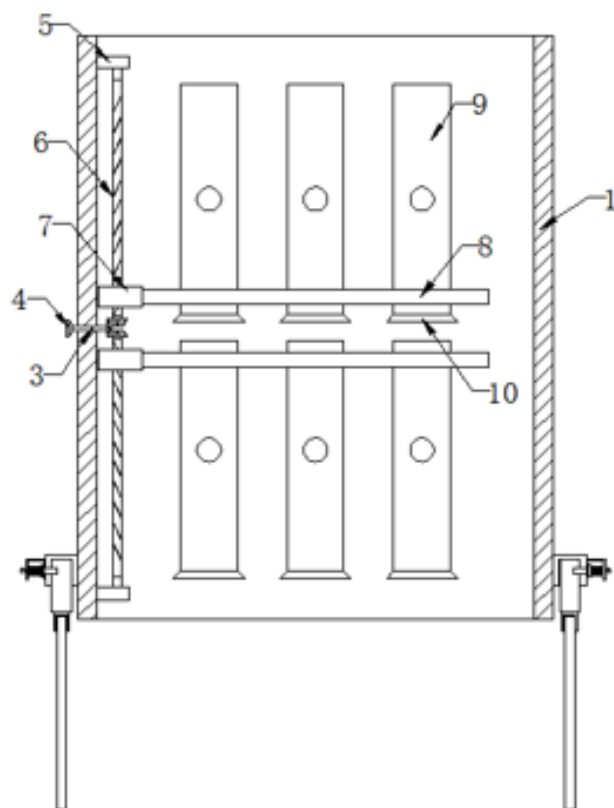
71: SHAANXI ACADEMY OF FORESTRY SCIENCES

72: LI, Rong, GAO, Rong, CAO, Qingxi, ZHAO, Xueqing, LIU, Donglin, GAO, Dongzhi, MA, Cunping, LI, Jiangning LI, Junhang, ZHANG, Ruili

54: PORTABLE CLASSIFICATION AND COLLECTION APPARATUS FOR FOREST GERMPLASM RESOURCES

00: -

Disclosed is a portable classification and collection apparatus for forest germplasm resources, comprising a box body which is provided with a strap for carrying an a back; a left side wall of the body is provided with a rotary rod; a left end of the rotary rod is provided with a rotary block; a left end of an inner wall of the body is provided with symmetric connecting blocks having symmetric screw rods rotatably arranged between the blocks; one end of the screw rods is sleeved with a first bevel gear; one end of the rotary rod is sleeved with a second bevel gear which is engaged with the two first bevel gears; rod walls of the screw rods are in threaded connection with a sliding block; when germplasm resources need to be classified and collected, collecting tubes are moved to the outside of the box body to do so.



72: Michael Gewer, Lance Steven Baum

33: ZA 31: 2021/05287 32: 2021-07-27

54: A LOCKER AND METHOD OF ADVERTISING THEREON

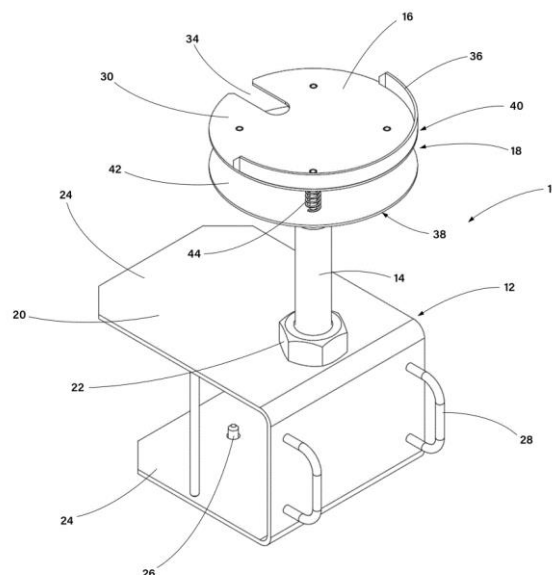
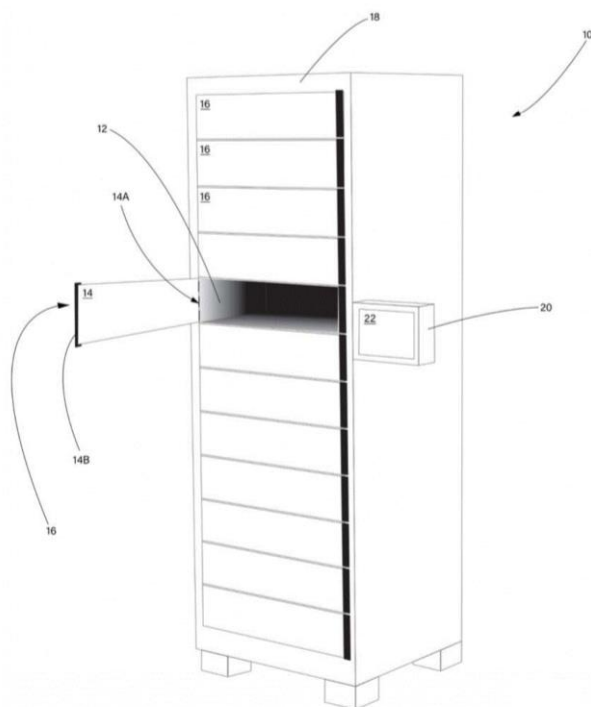
00: -

THIS invention relates to a locker and method of advertising thereon. The locker includes a plurality of locker compartments, closures associated with each locker compartment being movable between open and closed conditions and an electrically operated lock associated with each of the locker compartments actuatable between an unlocked and locked states. The locker further comprises one or more control modules for: (i) receiving a user identifier; (ii) interrogating the user identifier against user information stored in a local or remote user database; (iii) on verification between the user identifier and user information, identifying the locker compartment associated to the user identifier; and (iv) outputting an unlock command to the associated lock of the associated locker compartment thereby to place it in the unlocked state, and to enable the associated closure thereof to be moved into the open condition such that the user is capable of accessing goods stored therein. Furthermore, each closure is or has mounted thereon a thin- or no-bezel screen, wherein the screens are configurable to synchronously act as: independent displays each being capable of displaying unique or duplicated image content; or a composite display for co-operatively displaying portions of one and the same image content.

21: 2022/07512. 22: 2022/07/07. 43: 2022/08/25

51: E05B; H04L; G06Q

71: Vaultgroup (Pty) Ltd



21: 2022/07513. 22: 2022/07/07. 43: 2022/08/25
51: B66B

71: IMS Engineering (Pty) Ltd
72: Mark Morris

54: LIFT

00: -

A lift comprises: (i) a base that includes: a clamp for securing the lift to a structure; and a threaded mount;; (ii) a threaded rod that is threadably secured to the threaded mount such that rotation of the threaded rod relative to the threaded mount causes the threaded rod to move axially relative to the threaded mount; (iii) a support that defines: a substantially planar surface for supporting a first threaded body thereon; and a slot that extends from the perimeter of the planar surface into the planar surface; and (iv) a connector that connects the support to the threaded rod at or near an axial end of the threaded rod, the connector including: a first connector part that is secured to the threaded rod; and a second connector part that is: spaced from the first connector part; and secured to the support; and biasing means that bridges the first and second connector parts, wherein the biasing means permits: tilting of the support relative to the threaded rod; and movement of the support axially relative to the threaded rod.

21: 2022/07514. 22: 2022/07/07. 43: 2022/08/25
51: H04L

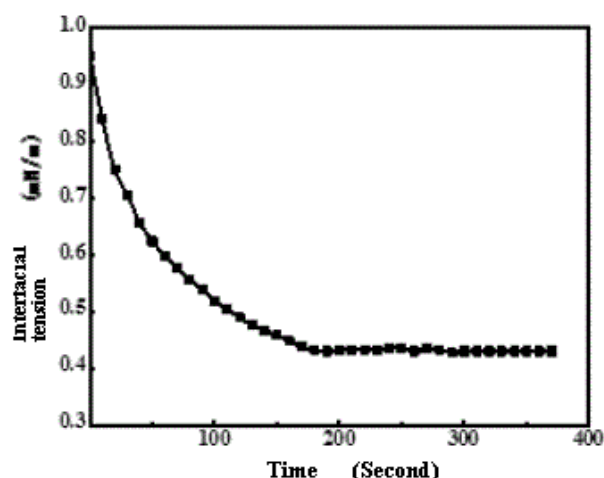
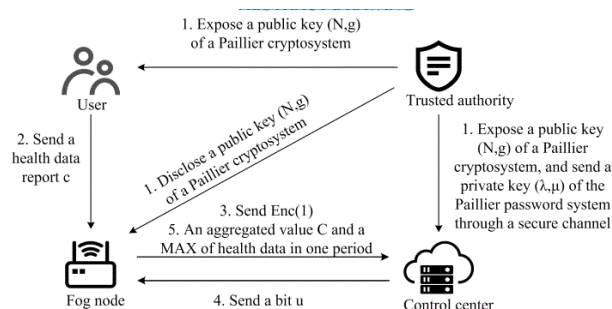
71: Zhejiang Gongshang University, Zhejiang
Ponshine Information Technology Co., Ltd.

72: HAN, Song, REN, Siqi, CHEN, Xiaoli, LIN,
Jianhong, JIN, Shudan

54: METHOD FOR AGGREGATING MAXIMUM/MINIMUM VALUE (MAX/MIN) OF PRIVACY PROTECTION FOR HEALTH DATA BASED ON HOMOMORPHIC ENCRYPTION

00: -

The present disclosure provides a method for aggregating a maximum/minimum value (max/min) of privacy protection for health data based on homomorphic encryption. A Paillier cryptosystem is used to encrypt user data, so as to protect privacy and security of user health data. Further, time aggregation is implemented to help a control center obtain an overall health condition of a client in one aggregation period. By using a homomorphic property of the Paillier cryptosystem, the present disclosure implements aggregation of a max/min of privacy protection, and helps the control center obtain a max or a min of health data of the client in the aggregation period.



21: 2022/07516. 22: 2022/07/07. 43: 2022/08/25
51: C09K

71: China University of Petroleum-Beijing, Henan Dancheng Shunxing Petroleum Additives Co., Ltd.

72: QU Ming, HOU Jirui, XIAO Lixiao, XU Zhihui

54: SMALL MOLECULE IMBIBITION AGENT AND ITS PREPARATION METHOD AND APPLICATION

00: -

This invention discloses a small molecular imbibition agent and its preparation method and application, which relates to the technical field of tight oil reservoir exploitation. The small molecular imbibition agent in the invention comprises the following raw material components in percentage by mass: 20% of isopropanolamide, 15% of isoamylene polyoxyethylene ether phosphate, 15% of 2-ethyl hexanol benzene sulfonate and 50% of water. The main component of the small molecule penetrant is a small molecule system composed of nonionic-anionic surfactants composed of short chain alkanes. It has the characteristics of small molecular size and small molecular weight, and has strong permeability and excellent spontaneous permeability effect. It significantly improves the sweep efficiency and oil washing efficiency of tight reservoirs in micro nano-pore throats, improves the spontaneous imbibition recovery in micro nano pore throats, and then improves the spontaneous imbibition recovery of tight reservoirs.

21: 2022/07517. 22: 2022/07/07. 43: 2022/08/25
51: A01G

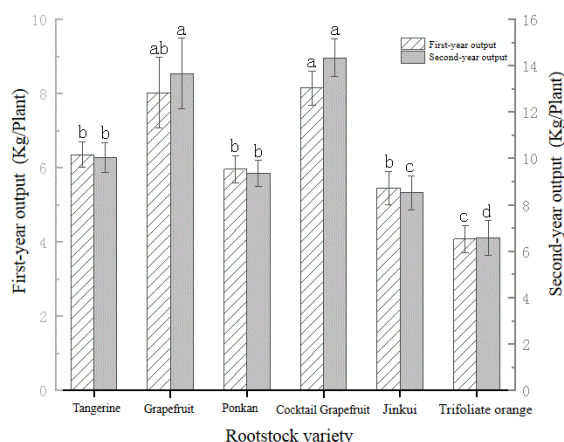
71: Citrus Research Institute of Zhejiang Province
72: HUANG Xiu, KE Fuzhi, SUN Lifang, NIE Zhenpeng, XU Jianguo, SUN Jianhua

54: ROOTSTOCK AND SCION COMBINATION FOR IMPROVING FRUIT QUALITY OF HYBRID CITRUS VARIETY HONGMEIREN

00: -

The present invention discloses a rootstock and scion combination for improving the fruit quality of hybrid citrus variety Hongmeiren, which relates to the technical field of citrus cultivation. The rootstock and scion combination includes a rootstock of Cocktail Grapefruit and a scion of a hybrid orange variety Hongmeiren for grafting. In the invention, scions of Hongmeiren are grafted on rootstock of different varieties, and the scions will bear fruit only after the second year of cultivation, without going through the growth period of seedlings, the scions will bear fruit quickly, and that makes it easy to put into production quickly. In addition, using 6-20 years old Cocktail Grapefruit as rootstock accelerates the production and improves the yield and quality of Hongmeiren fruit. The rootstock and scion combination of the invention, without going through the growth period of seedlings, can be quickly put into production and improve the fruit quality, improve the economic income value of orange farmers, and solve the problems of long seedling cultivation period, slow production and low quality in the cultivation and production process of Hongmeiren. The invention is beneficial to the upgrading of new

varieties and provides technical support for the high-quality production of Hongmeiren.



21: 2022/07518. 22: 2022/07/07. 43: 2022/08/25
51: H04L

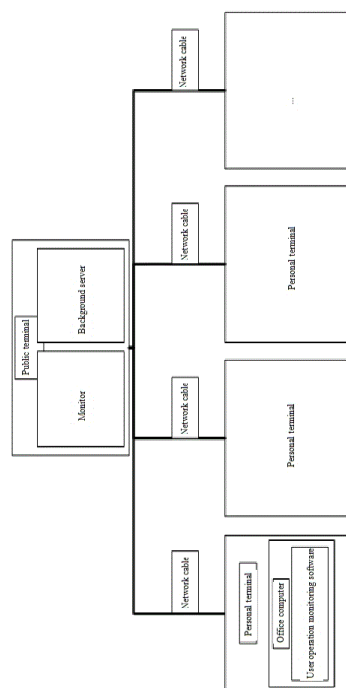
71: Huainan Normal University

72: LIU Lei, SUN Yeguo, LIU Yihong, MENG Xuetao, LIU Qingyu

54: INTELLIGENT NON-DISTURB SYSTEM

00: -

The invention discloses an intelligent non-disturb system, which mainly comprises a public terminal and a plurality of personal terminals connected with the public terminal through network cables; the public end comprises a background server, information acquisition software and a display screen, and the display screen is connected with the signal output end of the background server; the personal terminal comprises an office computer and user operation monitoring software; All the personal icons corresponding to the personal terminals are displayed on the display screen, and the working states of the personal terminals are distinguished by different colors of the displayed personal icons. The invention adopts the hardware structure of the public end and the personal end, and cooperates with the office computer operation monitoring software to present the personal working state on the display screen of the public end and clearly show it to visitors, thus avoiding unnecessary interference to employees, thus improving the working efficiency of employees.



21: 2022/07519. 22: 2022/07/07. 43: 2022/08/25
51: A61K

71: Guangzhou City Polytechnic

72: JIA Qiang, WU Dizheng, Huang Lihua

54: COMPOUND ESSENCE OF FLAME VINE AND APPLICATION THEREOF IN THE TOOTHPASTE

00: -

The application discloses a compound essence of Flame Vine and application thereof in the toothpaste, the compound essence of Flame Vine is prepared by mixing the following components in parts by weight: The extract of Flame Vine: 10-12 parts Menthol natural: 18-37 parts; Menthol oil: 30-47 parts; Fennel oil: 0.8-1.7 parts; Eugenol: 0.4- 0.8 parts; Coriander oil: 0.5-1.3 parts. The compound fragrance of the application has rich, steady and durable aroma, and has the advantages of detumescence and analgesia, activating blood circulation and dispersing blood stasis, dispel itch, refresh the brain. The application in the toothpaste can relieve gingival swelling and bleeding.

21: 2022/07520. 22: 2022/07/07. 43: 2022/08/25
51: D01G

71: JIYANG COLLEGE OF ZHEJIANG A&F UNIVERSITY, Lin'an Liyuan Bamboo Fiber Technology Development Co., Ltd

72: YAO Wenbin, ZHANG Wei, YU Weipeng, ZHOU Chao

54: BAMBOO FIBER YARN

00: -

The invention discloses a bamboo fiber yarn, which belongs to the technical field of textile application. The raw materials of the bamboo fiber yarn are cotton fiber and cellulose-treated bamboo fiber. The method comprises the following steps: firstly, loosening bamboo fibers; and then carrying out enzymolysis by cellulase; then carding, pre-drawing and drawing are carried out; finally, through roving, spinning and winding, the bamboo fiber yarn is made. According to the invention, the bamboo fiber yarn with high strength, good evenness and few impurities is prepared by carrying out enzyme treatment on the bamboo fiber, enhancing its softness, removing hairiness and mixing a small amount of cotton fiber.

21: 2022/07521. 22: 2022/07/07. 43: 2022/08/25
51: C08K

71: JIYANG COLLEGE OF ZHEJIANG A&F UNIVERSITY, Lin'an Liyuan Bamboo Fiber Technology Development Co., Ltd

72: YAO Wenbin, ZHANG Wei, YU Weipeng, ZHOU Chao

54: PRODUCTION METHOD OF LIGHT BAMBOO FIBER PLASTIC BOARD

00: -

The invention discloses a production method of a light bamboo fiber plastic board, belonging to the technical field of fiberboard processing. The light bamboo fiber plastic board comprises the following raw materials in parts by mass: 15-20 parts of plastic, 6-8 parts of bamboo fiber, 1-2 parts of coupling agent, 0.5-1.5 parts of plasticizer, 0.1-0.8 part of lubricant and 3-5 parts of calcium carbonate. The raw materials are mixed, heated and then extruded to obtain the light bamboo fiber plastic board. The light bamboo fiber plastic board obtained by the production method has high tensile strength and bending strength, simple production method, short operation period and high production efficiency.

21: 2022/07528. 22: 2022/07/07. 43: 2022/08/25
51: E21F

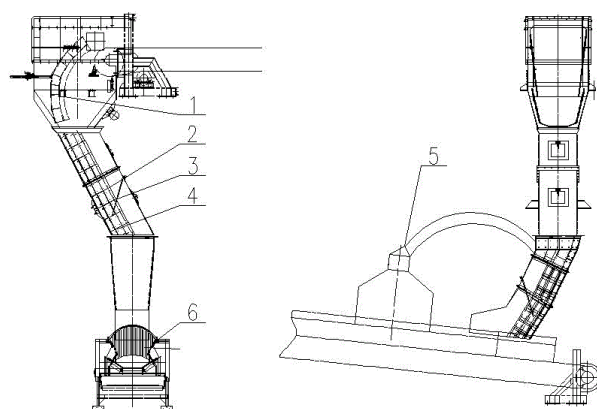
71: HENAN INSTITUTE OF TECHNOLOGY

72: SU Jinhu, ZHANG Guangchao, ZHU Huili, LI Yongchao, JIA Li

54: ENVIRONMENT-FRIENDLY DUSTFALL REPRINT SYSTEM

00: -

The invention discloses an environment-friendly dust-fall transfer system, which comprises a flow guide cover, a polygonal chute, a lining plate, a damping plate, an air return device and a large-capacity fully-sealed guide chute, wherein the flow guide cover is composed of an arc-shaped guide plate, a funnel and a shield, and the arc-shaped guide plate is hung on the inner side of the shield; the chute has a polygonal structure, the upper part of which is connected with a funnel, the inner part of which is provided with a damping plate, and the lower part of which is connected with a guide chute; the lining plates are arranged in the chute and the deflector, and are different according to the types and trajectories of materials; the air return device is arranged between the chute and the guide chute to slow down the air pressure inside the guide chute; the large-capacity fully sealed chute is mainly composed of an arc roof, a sealing device and a dust-proof curtain, the top of the rear end is connected with a chute, and the middle top is connected with an air return device. The environment-friendly dust-reducing transfer system has the advantages of long service life, low cost, simple later maintenance, reduced dust, reduced environmental pollution, improved health and safety of on-site personnel, and rapid and uniform feeding without material blockage and impact.



21: 2022/07529. 22: 2022/07/07. 43: 2022/08/25
51: A23K

71: FOSHAN UNIVERSITY

72: SHANG Xiuguo, ZHU Xiaoping, SHANG Chaoyue, ZHU Ruibo

54: FUNCTIONAL FEED FOR PERINATAL SOWS AND PREPARATION METHOD THEREOF

00: -

The invention relates to a functional feed for perinatal sows and a preparation method thereof. The functional materials for perinatal sows include corn, soybean meal, fish meal, instant peptide, balance oil powder, glucose, soybean hull, rice hull powder, Enteromorpha prolifera powder, stone powder, calcium hydrogen phosphate, salt, compound vitamin premix, compound microelement premix, choline, immunity adjuvant, anti-stress additive, ion salt, Bacillus coagulans, fatigue restorer, diclazuril, antiviral additive and Chinese herbal medicine additive. The invention also provides a preparation method of the functional feed for perinatal sows. The functional feed for perinatal sows prepared by the method can soothe the nerves and relieve constipation, reduce constipation of sows in late pregnancy, shorten the labor process of sows, promote the discharge of postpartum lochia, reduce the rate of stillbirth, weak litter and white litter, promote the recovery of postpartum appetite of sows, reduce the phenomenon of losing weight of sows during lactation, and be beneficial to postpartum estrus of sows. Overcomes various defects and deficiencies of most perinatal lactating sow feed on the market.

21: 2022/07533. 22: 2022/07/07. 43: 2022/08/25
51: G09F; H02J; H02S
71: LI, Dan

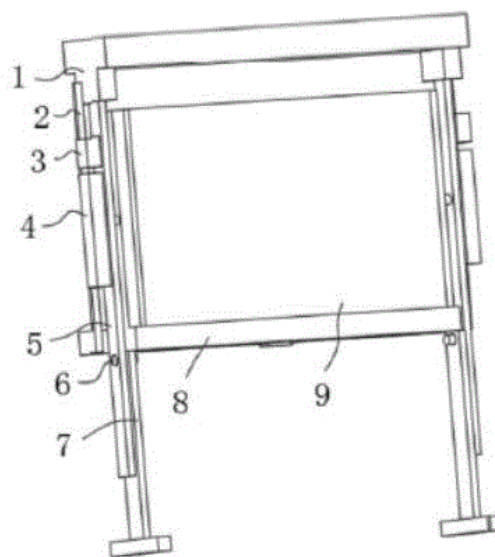
72: LI, Dan, WANG, Nan, WANG, Huizhen

54: HIGH-ADAPTABILITY IDEOLOGICAL AND POLITICAL KNOWLEDGE PUBLICITY DEVICE FOR IDEOLOGICAL AND POLITICAL EDUCATION

00: -

Disclosed is a high-adaptability ideological and political knowledge publicity device for ideological and political education, including a publicity board and two supporting side plates, wherein the publicity board is connected to the supporting side plates in a rotating way, and the publicity board is transparent; a storage box is arranged at the bottom end of the publicity board and stores dry fine sand, a protective plate and a solenoid valve are arranged on the storage box, and the protective plate is transparent; and the storage box, the protective plate and the publicity board form an enclosed space. Through the

interaction of character boxes, movable pins, an assembly board, a servo motor, a connecting plate, accommodating chambers, magnetites and magnets, characters can be highlighted in both daytime and nighttime, and people's understanding of the ideological and political education can be further deepened, thereby strengthening the publicity effect.



21: 2022/07534. 22: 2022/07/07. 43: 2022/08/25
51: A61K

71: Ms. Megha Tiwari, Dr. Vishal Dubey, Dr. Varun Singh, Mr. Anurag Singh, Dr. Virendra Kumar Sharma, Mrs. Shainda Laeeq, Ms. Shipra Tripathi, Mrs. Aparna Dwivedi

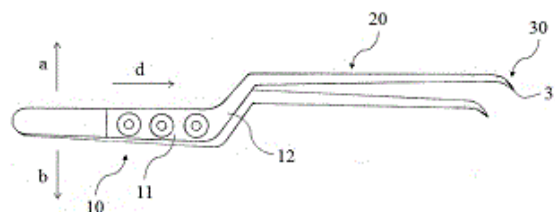
72: Ms. Megha Tiwari, Dr. Vishal Dubey, Dr. Varun Singh, Mr. Anurag Singh, Dr. Virendra Kumar Sharma, Mrs. Shainda Laeeq, Ms. Shipra Tripathi, Mrs. Aparna Dwivedi

54: MULTI ANTIBIOTIC FORMULATION USED IN LIPOSOMAL GEL FOR VAGINAL DRUG DELIVERY

00: -

The present invention relates to build up a liposomal tranquilize transporter framework, ready to give supported and controlled arrival of fitting medication for neighborhood vaginal treatment. The readiness of liposomes to assess the measurements and productivity, liposomes containing Amoxicillin tri hydrate were made by five unique techniques. Gels of poly acrylate were picked as vehicles for liposomal arrangements. due to their hydrophilic nature and bio glue properties, it completely was

conceivable to achieve a satisfactory pH worth, for example, physiological conditions in like manner as alluring thickness. In vitro discharge investigations of liposomes consolidated in these gels (Carbopol 974 PNF or Carbopol 980 NF) affirmed their pertinence as a totally novel medication transporter framework in vaginal conveyance. Regardless of the gel utilized, even 24h after the brooding of liposomal gel inside the support pH 7.4 over 80% of the initially entangled substance was still keep up.



21: 2022/07549. 22: 2022/07/07. 43: 2022/07/12
51: A61B
71: NATIONAL CANCER CENTER/NATIONAL CLINICAL RESEARCH CENTER FOR CANCER/CANCER HOSPITAL, CHINESE ACADEMY OF MEDICAL SCIENCES AND PEKING UNION MEDICAL COLLEGE
72: ZUO, FUXING, KONG, JIANXIN, HU, KE, LI, XUEJI, WAN, JINGHAI
33: CN 31: 202020083356.7 32: 2020-01-15
54: SURGICAL FORCEPS

00: -
Surgical forceps, comprising two arms, each arm comprising a holding part (10), an extending part (20), and an object-acquiring end (30); the sides of the two arms facing each other form inner sides, the sides opposing each other form outer sides, and two sides in the direction of extension of the surgical forceps are respectively a first lateral side (a) and a second lateral side (b); one end of each of the extending parts (20) are connected to the holding parts (10), and the other ends extend along a first direction (d), the object-acquiring ends (30) are connected to the other ends of the extending parts (20), and the object-acquiring ends (30) extend toward the first direction (d) while curving toward the second lateral side (b); top parts (31) of the object-acquiring ends (30) come to a point, and inner side faces at inner sides of the object-acquiring ends (30) are flat. The surgical forceps are highly maneuverable, the object-acquiring ends (30) are small and do not easily block line of sight, and the use of the surgical forceps can reduce operation time, surgery-related wounds, and the likelihood of complications, and achieves minimal invasiveness in surgery.

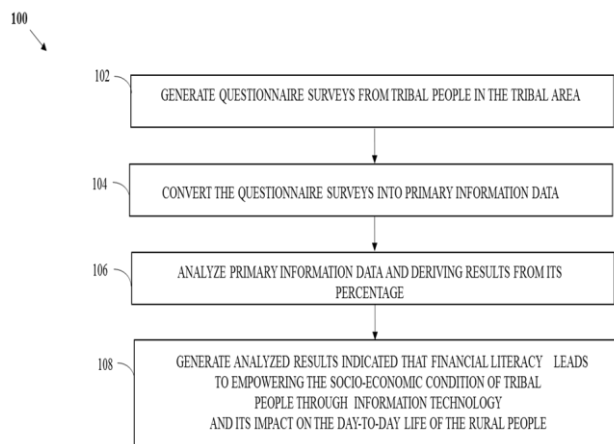
21: 2022/07610. 22: 2022/07/11. 43: 2022/09/16
51: G06Q

71: Prof. (Dr.) Sasmita Samanta, Dr. Ajaya Kumar Nanda
72: Prof. (Dr.) Sasmita Samanta, Dr. Ajaya Kumar Nanda

54: IMPROVING SOCIO ECONOMIC CONDITIONS OF TRIBALS THROUGH FINANCIAL LITERACY BY USE OF INFORMATION TECHNOLOGY

00: -

The present invention relates to financial literacy to empower the socio-economic condition of tribal through information technology. The method (100) comprises a memory unit, a processing unit, and a display unit. The memory unit is configured to store machine language. The processing unit is operationally connected with a memory unit configured to read machine language stored in the memory unit, configured to generate (102) questionnaire surveys from tribal people in the tribal area; convert (104) the questionnaire surveys into primary information data; analyze (108) primary information data, and deriving results from its percentage; and generate (102) analyzed results indicated that financial literacy leads to empowering the socio-economic condition of tribal people through information technology and its impact on the day-to-day life of the rural people. The display unit is operationally connected with the processing unit, configured to provide a user interface and display the generated result.



21: 2022/07611. 22: 2022/07/11. 43: 2022/09/16
51: A61G

71: Dr. Namita Mishra, Dr. B. V. V. Siva Prasad, Prof. (Dr.) Ritwik Sahai Bisariya, Prof. S S Prasada Rao Ph.D, Dr V. Christo Selvan, Ms. Aruna Yadav, Dr. Yogendra Singh, Dr. Shashi Prabha Nagendra, Dr. Sita Rani, Dr. Pratibha Teotia, Abdul Hannan Abdul Mannan Shaikh, Ramesh Manza, Dr. Priyanka Jain, Dr. Samala Nagaraj, Dr. Samriti Mahajan, Prof. Ramesh Chandra Panda

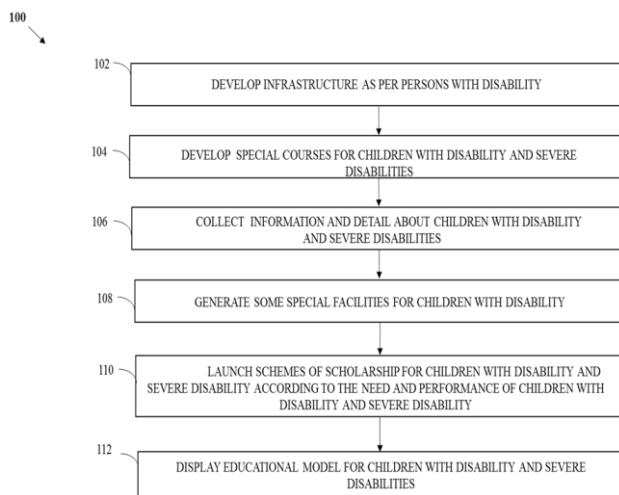
72: Dr. Namita Mishra, Dr. B. V. V. Siva Prasad, Prof. (Dr.) Ritwik Sahai Bisariya, Prof. S S Prasada Rao Ph.D, Dr V. Christo Selvan, Ms. Aruna Yadav, Dr. Yogendra Singh, Dr. Shashi Prabha Nagendra, Dr. Sita Rani, Dr. Pratibha Teotia, Abdul Hannan Abdul Mannan Shaikh, Ramesh Manza, Dr. Priyanka Jain, Dr. Samala Nagaraj, Dr. Samriti Mahajan, Prof. Ramesh Chandra Panda

54: A NOVEL INCLUSIVE EDUCATIONAL MODEL FOR CHILDREN WITH DISABILITY AND SEVERE DISABILITY

00: -

The present invention relates to a novel inclusive educational model (100) for children with disability and severe disabilities. The novel inclusive educational model (100) comprises a memory unit, a processing unit, and a display unit. The memory unit is configured to store machine language. The processing unit is operationally connected with a memory unit configured to read machine language stored in the memory unit. The processing unit is configured to develop (102) infrastructure as per persons with disability; develop (104) a special course for children with disability and severe disabilities; collect (106) information and detail about children with disability and severe disabilities; generate (108) some special facilities for children with disability; launch (110) schemes of scholarship

for children with disability and severe disability according to the need and performance of children with disability and severe disability. The display unit is configured to display (112) educational model (100) for children with disability and severe disabilities.



21: 2022/07642. 22: 2022/07/11. 43: 2022/09/01
51: A23K

71: INSTITUTE OF ANIMAL SCIENCE, GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, GUANGZHOU UBT TECHNOLOGY CO., LTD.

72: RUAN, Dong, ZHENG, Chuntian, JIANG, Shouqun, YANG, Xuefen, ZHANG, Sai, MO, Ziyi, WANG, Yong, DING, Weiguo, SUN, Lihua

54: INTEGRATED LIPID COMBINED NUTRITIONAL SUPPLEMENT FOR SOWS AND PIGLETS AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF

00: -

Disclosed is an integrated lipid combined nutritional supplement for sows and piglets as well as a preparation method and application thereof. The lipid combined nutritional supplement comprises the following components relative to 100 parts by weight: 10-15 parts of cinnamyl aldehyde, 5-10 parts of anethole, 15-25 parts of litsea cubeba oil, 15-25 parts of deep-sea fish oil, 30-40 parts of coconut oil, 1-2 parts of modified phospholipids and 2-4 parts of tertiary butylhydroquinone (TBHQ). The lipid combined nutritional supplement provided requires to be jointly added to feeds for sows in later stage of pregnancy, feeds for lactating sows and creep feeds for the piglets. After feeding, the requirements of the animals for essential fatty acid can be met; a food

flavor imprinting connection between the sows and the piglets can further be constructed, so that the piglets can rapidly accept the creep feeds of a same flavor during weaning.

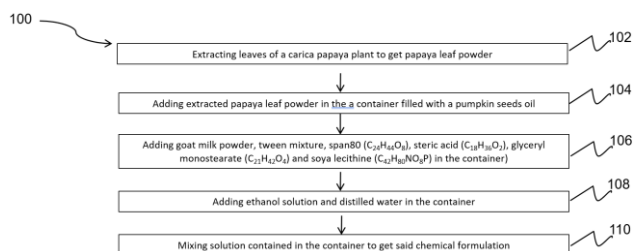
21: 2022/07649. 22: 2022/07/11. 43: 2022/09/16
51: A61K

71: Dr. Ruchi Tiwari, Dr. Alok Pratap Singh, Snigdha Bhardwaj, Dr. Radha Goel, Dr. Rosaline Mishra, Saima Amin, Dr. A Kishore Babu, Dr. Swarupananda Mukherjee, Dr. Santosh Kumar Verma, Radhe Shyam, Rajib Kumar Singh, Akanksha Chauhan
72: Dr. Ruchi Tiwari, Dr. Alok Pratap Singh, Snigdha Bhardwaj, Dr. Radha Goel, Dr. Rosaline Mishra, Saima Amin, Dr. A Kishore Babu, Dr. Swarupananda Mukherjee, Dr. Santosh Kumar Verma, Radhe Shyam, Rajib Kumar Singh, Akanksha Chauhan

54: CHEMICAL FORMULATION FOR INCREASING PLATELETS COUNTS AND METHOD THEREOF

00: -

The present invention discloses chemical formulation for increasing platelets counts and method thereof. The chemical formulation including: 333.3 milligrams of a Carica papaya leaf powder; 333.3 milligrams of a pumpkin seeds oil; 333.3 milligrams of a goat milk powder; 1-3 grams of a steric acid ($C_{18}H_{36}O_2$); 1-3 grams of a span80 ($C_{24}H_{44}O_8$); and 1 gram of a tween mixture. The method to prepare chemical formulation including: extracting leaves of a carica papaya plant to get papaya leaf powder; adding extracted papaya leaf powder in the a container filled with a pumpkin seeds oil; adding goat milk powder, tween mixture, span80 ($C_{24}H_{44}O_8$), steric acid ($C_{18}H_{36}O_2$), glyceryl monostearate ($C_{21}H_{42}O_4$) and soya lecithine ($C_{42}H_{80}NO_8P$) in the container; adding ethanol solution and distilled water in the container; and mixing solution contained in the container to get said chemical formulation.



21: 2022/07701. 22: 2022/07/12. 43: 2022/09/16
51: B23K

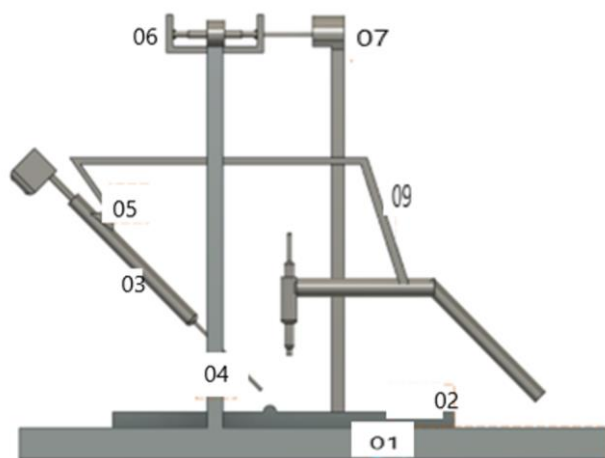
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PATIL, Rajesh Vinayak

72: PATIL, Rajesh Vinayak

54: AN AUTONOMOUS TUNGSTEN INERT GAS WELDING DEVICE

00: -

Joining of dissimilar materials as compared to similar materials desirable from automotive, railways to naval trades. These industries needed weld imperfection examination as key portion of their trial as physical examination may obscure for proper validations and prime to improper reorganization. Therefore, to achieve defects free weld author developed an autonomous tungsten inert gas (ATIG) device. The proposed device entirely overcome the manual operation such as different movement and position of filler rod and welding torch those is the prime of defects making in the weld part. The accurate angle of filler rod and welding torch is the key requirement of welding as it directly affect the weld quality of joint. At last, the device can achieve the imperfection free weld with shorter time.



21: 2022/07705. 22: 2022/07/12. 43: 2022/09/16
51: A61B

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, SARAF, Mangesh R., YADAV, Shrikant K.

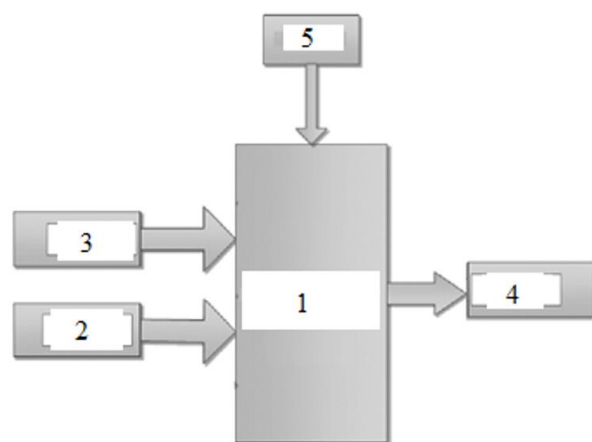
72: SARAF, Mangesh R., YADAV, Shrikant K.

54: AN ALARMING DEVICE TO DETECT BODY FEVER AND WEAKNESS IN REAL TIME

00: -

The present invention defines a device that can work from 3.3V to the 5V. The sensor uses comparator to detect the vibration and temperature of human body over a threshold point and provide digital data, Logic low or Logic high, 0 or 1. During normal operation,

the sensor provides Logic low and when the vibration, high temperature is detected, the sensor provides Logic high. This logic high condition triggers the alarm system. The present invention explains the system, incorporates with both temperature and vibration sensors it will detect fever as well as shivering condition of the patient. So, it helps to make aware patient as well as the caretaker for taking probable action and treatment like medication, informing doctor etc.



21: 2022/07708. 22: 2022/07/12. 43: 2022/09/16
51: A61Q

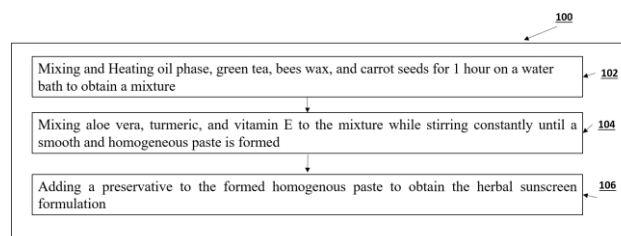
71: Dr. Gaurav Tiwari, Dr. Bhuwanendra Singh, Dr. Ajay Kumar Gupta, Dr. Hariom Sharma, Gazala Noor, Dr. Ashutosh Yadav, Dr. Anju Singh, Reetu Yadav, Vikas Kumar, Sara Usmani, Dr. Parjanya Kumar Shukla, Monisha Gupta, Indu Singh
72: Dr. Gaurav Tiwari, Dr. Bhuwanendra Singh, Dr. Ajay Kumar Gupta, Dr. Hariom Sharma, Gazala Noor, Dr. Ashutosh Yadav, Dr. Anju Singh, Reetu Yadav, Vikas Kumar, Sara Usmani, Dr. Parjanya Kumar Shukla, Monisha Gupta, Indu Singh

54: HERBAL-BASED SUNSCREEN FORMULATION AND A METHOD OF PREPARATION THEREOF

00: -

The present invention relates to an herbal-based sunscreen formulation comprising: an Oil phase; 2.5-3.0g of green tea; 500mg-1.5g of bees wax; 2gm of carrot seeds; 10 ml-50 ml of aloe vera gel; 150mg-1125mg of turmeric powder; 400mg of vitamin E; and 0.4-0.5 wt% of preservative, wherein the method (100) comprises: mixing and heating oil phase, green tea, bees wax, and carrot seeds for 1 hour on a water bath to obtain a mixture (102); mixing aloe vera, turmeric, and vitamin E to the mixture while stirring constantly until a smooth and homogeneous

paste is formed (104); and adding a preservative to the formed homogenous paste to obtain the herbal sunscreen (106). The formulated sunscreen is stable, have good antioxidant activity, and have high SPF values of 33.43 and 33.50, respectively, and non-mutagenic.



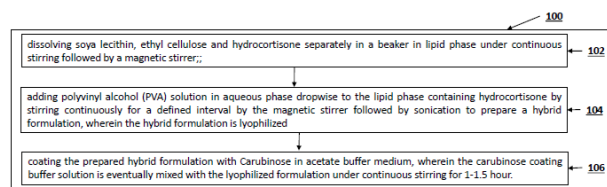
21: 2022/07709. 22: 2022/07/12. 43: 2022/09/16
51: B82B

71: Dr. Ruchi Tiwari, Prof. (Dr.) Sailesh Kumar Ghatuary, Dr. Abhay Kumar, Sonali Dasgupta, Saumya Singh, Dr. Sourav Ghosh, Ramendra Singh, Vimal Kumar Bharti, Sachin Kumar, Dr. Rajesh Kumar, Shailesh Kumar Gupta, Deepa Yadav
72: Dr. Ruchi Tiwari, Prof. (Dr.) Sailesh Kumar Ghatuary, Dr. Abhay Kumar, Sonali Dasgupta, Saumya Singh, Dr. Sourav Ghosh, Ramendra Singh, Vimal Kumar Bharti, Sachin Kumar, Dr. Rajesh Kumar, Shailesh Kumar Gupta, Deepa Yadav

54: A COMPOSITION AND A METHOD FOR SYNTHESIZING CORTICOSTEROID LOADED HYBRID NANOPARTICLES

00: -

A method (100) for synthesizing corticosteroid loaded hybrid nanoparticles to target alveolar macrophages, wherein the method (100) comprises of: dissolving soya lecithin, ethyl cellulose and hydrocortisone separately in a beaker in lipid phase under continuous stirring followed by a magnetic stirrer; adding polyvinyl alcohol (PVA) solution in aqueous phase dropwise to the lipid phase containing hydrocortisone by stirring continuously for a defined interval by the magnetic stirrer followed by sonication to prepare a hybrid formulation, wherein the hybrid formulation is lyophilized; and coating the prepared hybrid formulation with Carubinese in acetate buffer medium, wherein the carubinese coating buffer solution is eventually mixed with the lyophilized formulation under continuous stirring for 1-1.5 hour.



21: 2022/07750. 22: 2022/07/13. 43: 2022/09/06
 51: C09D
 71: JINAN JIESHENG BUILDING MATERIALS NEW TECHNOLOGY CO., LTD.
 72: YAN, Guangcai, SU, Yibo, YAN, Qihang
54: ANTIBACTERIAL SUPER-WEAR-RESISTANT POLYURETHANE SURFACE COATING MATERIAL AND PREPARATION METHOD THEREOF

00: -
 The present invention belongs to the technical field of material synthesis, and particularly relates to an antibacterial super-wear-resistant polyurethane surface coating material and a preparation method thereof. The coating is prepared from the following raw materials: 60-65% of a polyurethane monomer, 10-12% of isocyanate, 8-10% of sintered sand, 2-3% of single-walled carbon nanotubes, 6-8% of a composite antibacterial agent, 2-3% of N,N-dimethyldodecylamine-N-oxid, 3-5% of PEG-tosylate, 2-3% of 2-mercaptoethanol, and 0.5-1% of pigments and fillers. The polyurethane coating prepared by the present invention has excellent antibacterial properties, broad antibacterial spectrum, and an antibacterial rate up to 99%; the prepared coating has good adhesive force, excellent wear resistance, strong scratch resistance, various colors, and a beautiful and elegant appearance, and can be matched with various colored surfaces; and the prepared coating is not easy to change color and has good color persistence.

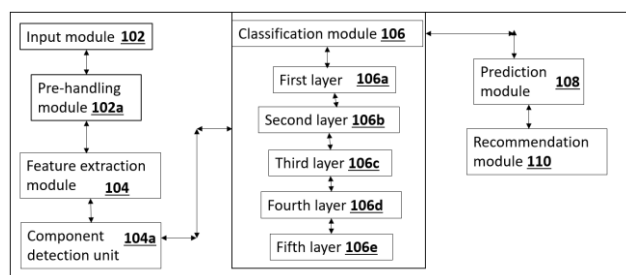
21: 2022/07751. 22: 2022/07/13. 43: 2022/09/06
 51: A23F
 71: LIU, Xuekun
 72: WANG, Yanqiu, LIU, Xuekun
54: BROADLEAF HOLLY LEAF FORMULATION WITH ANTI-GOUT EFFECT AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF

00: -
 The present invention relates to a broadleaf holly leaf formulation with an anti-gout effect as well as a preparation method and application thereof.

Broadleaf holly leaf has a delicate fragrance with a bitter taste and then a sweet and cool taste, has various efficacies of clearing heat, relieving summer heat, improving eyesight, promoting intelligence, producing saliva, slaking thirst, inducing diuresis, strengthening heart, soothing throats, calming coughs, reducing blood pressure, losing weight, inhibiting and preventing cancers, resisting ageing and quickening blood vessels, may further be used for treating gout diseases. Mice are administrated with an extract through oral administration and injection to achieve effects on a mouse hyperuricemia model caused by sodium urate and other models, with the effects close to those in an allopurinol positive control group.

21: 2022/07783. 22: 2022/07/13. 43: 2022/09/16
 51: G06Q
 71: Dr. Dolly Thankachan, Dr. Kundan Meshram
 72: Dr. Dolly Thankachan, Dr. Kundan Meshram
54: A SYSTEM FOR EFFECTIVELY PREDICTING YIELD FROM PLANT LEAF IMAGERY

00: -
 A system for predicting yield of plant, comprises of: an input module for capturing a plurality of images or videos of at least a part of the plant; a feature extraction module for extracting a plurality of features by changing the plurality of images or vector into a mathematical vector; and a classification module for predicting yield of plant, wherein an edge location technique is applied for identifying a plurality of shapes for leaf disease, a first layer for eliminating highlights to obtain edge data; a second layer for combining the edge data and the plurality of features; a third layer for performing task to suggest a plurality of final features, that are optimized; a fourth layer for combining global features with local features, which are convoluted and fed to the third layer; and a fifth layer for obtaining disease class from the convoluted features.



21: 2022/07785. 22: 2022/07/13. 43: 2022/09/16

51: A61K

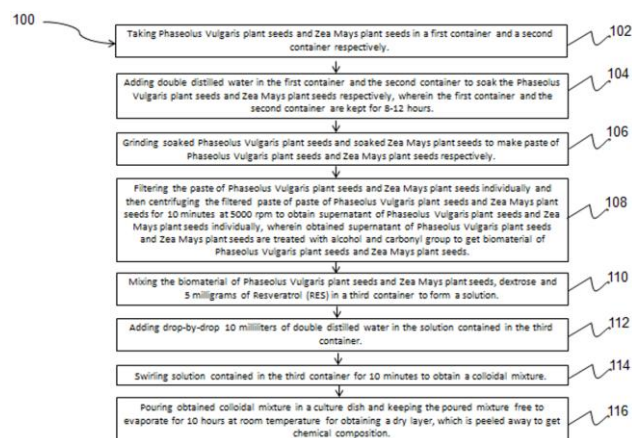
71: Dr. Ruchi Tiwari, Vinod Kumar Gupta, Arshpreet Kaur, Dr. Krishana Kumar Sharma, Dr. Anuj Kumar Srivastava, Arinjay Jain, Virendra Kumar Yadav, Raghvendra kumar Dwivedi, Divya Dwivedi, Surabhi Gupta, Dr. Pankaj Verma, Dr. Dilip Kumar Patel, Roohi Kesharwani

72: Dr. Ruchi Tiwari, Vinod Kumar Gupta, Arshpreet Kaur, Dr. Krishana Kumar Sharma, Dr. Anuj Kumar Srivastava, Arinjay Jain, Virendra Kumar Yadav, Raghvendra kumar Dwivedi, Divya Dwivedi, Surabhi Gupta, Dr. Pankaj Verma, Dr. Dilip Kumar Patel, Roohi Kesharwani

54: CHEMICAL COMPOSITION AND METHOD TO PREPARE CHEMICAL COMPOSITION FOR REDUCING STATE OF GERIATRIC AND UNCONSCIOUSNESS

00: -

The present invention discloses chemical composition for reducing state of geriatric and unconsciousness. The chemical composition including: 5 milligrams of a Resveratrol (RES); 330-650 milligrams of a Phaseolus Vulgaris plant seed; 580 milligrams of a Zea Mays plat seed; 80-210 milligrams of a SMC (Sodium Carboxy Methyl Cellulose); 80-220 milligrams of a tragacanth; and 110-150 milligrams of dextrose. The method including steps of: taking Phaseolus Vulgaris plant seeds and Zea Mays plant seeds; adding double distilled water to soak; grinding soaked Phaseolus Vulgaris plant seeds and soaked Zea Mays plant seeds to make pastes, then filtering the paste to obtain supernatant which is treated with alcohol and carbonyl group to get biomaterial; mixing biomaterials, dextrose and 5 milligrams of Resveratrol (RES) to form a solution; adding double distilled water in the solution; swirling solution to obtain colloidal mixture; and pouring obtained colloidal mixture to get chemical composition.



21: 2022/07822. 22: 2022/07/14. 43: 2022/09/16

51: A61K

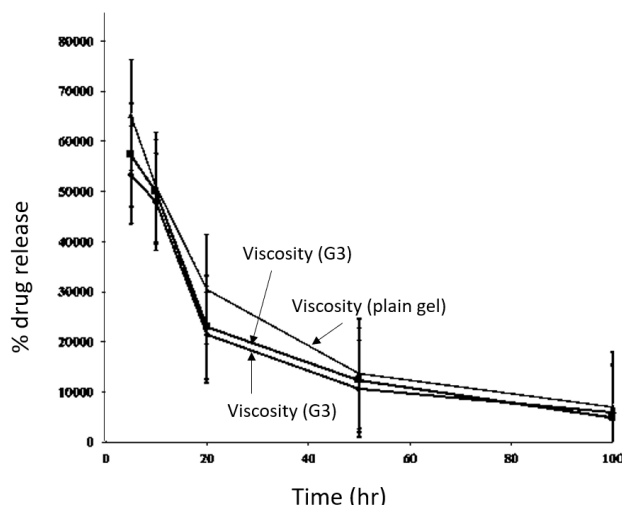
71: Dr. Bhuwanendra Singh, Dr. Swarupananda Mukherjee, Dr. Jobin Jose, Dr. Sajjad Alam, Ashish Porwal, Dr. OP Agrawal, Abdul Hameed, Dr. Ashutosh Yadav, Dr. Brijesh Singh, Reetu Yadav, Prerna Gupta, Abhishek Singh, Dr. Bhoomika Chaudhary, Vedant Kumar Prajapati

72: Dr. Bhuwanendra Singh, Dr. Swarupananda Mukherjee, Dr. Jobin Jose, Dr. Sajjad Alam, Ashish Porwal, Dr. OP Agrawal, Abdul Hameed, Dr. Ashutosh Yadav, Dr. Brijesh Singh, Reetu Yadav, Prerna Gupta, Abhishek Singh, Dr. Bhoomika Chaudhary, Vedant Kumar Prajapati

54: A COMPOSITION AND A METHOD FOR SYNTHESIZING TOPICAL ETHOSOMAL GEL OF MELATONIN TO PREVENT ULTRAVIOLET RADIATION

00: -

A method (100) for synthesizing topical ethosomal gel of melatonin to prevent UV radiation, comprises of: dissolving phosphatidylcholine and cholesterol in a beaker, wherein adding 10-20% of ethanol and 40-60mg of MLT to the beaker by a vortex shaker to prepare a mixture; adding 0.03-0.07% of tween 80 and 0.03-0.07% of propylene glycol drop-wise to the mixture to obtain an organic phase mixture; diluting the organic phase mixture by adding 200 μ L distilled water using a 200 μ L/min syringe pump to obtain an aqueous phase mixture, wherein the aqueous phase mixture is stirred by a magnetic stirrer to obtain ethosomal suspension; dispersing 1.5-2.5% of carbopol 934 into hot distilled water with added glycerol to prepare a gel; and adding 0.03-0.07gm each of methylparaben and propylparaben to the gel and neutralized with 0.03-0.07ml of triethanolamine, wherein the ethosomal suspension is slowly added with gentle stirring to obtain the ethosomal gel.



21: 2022/07836. 22: 2022/07/14. 43: 2022/09/16
51: A01G

71: K. Sirisha, Prof. Ramesh Chandra Panda, Dr. Ratnesh Tiwari, Dr. Sadik Khan, Dr. Anupam Vyas, Dr. Zakir Ali, Dr. Dipti Shukla, Dr. Vinod Kumar Singh, Dr. Tenzin Wangpo, Dr. Radhika G Deshmukh, Dr. Ravindra R Kaikini, Dr. Amey Marathe, C. Suchetha, Ekata Kaushik, Dr. Mohd Ashaq

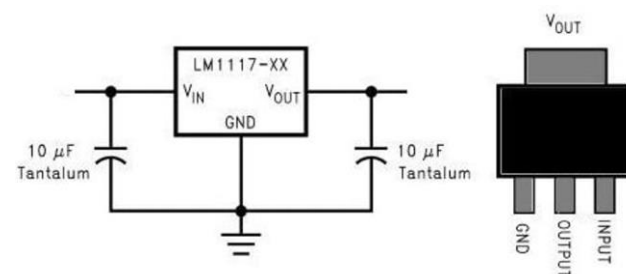
72: Dr. Ratnesh Tiwari, Dr. Sadik Khan, Dr. Anupam Vyas, Dr. Zakir Ali, Dr. Dipti Shukla, Dr. Vinod Kumar Singh, Dr. Tenzin Wangpo, Dr. Radhika G Deshmukh, Dr. Ravindra R Kaikini, Dr. Amey Marathe, C. Suchetha, Ekata Kaushik, Dr. Mohd Ashaq, K. Sirisha, Prof. Ramesh Chandra Panda

54: A NOVEL SUSTAINABLE CULTIVATION METHOD FOR AYURVEDIC HERB LEMONGRASS

00: -

The present invention relates to the new technology in agriculture could help farmers forecast climate more accurately, reduce water usage, increase yields and boost their net profits. Smart farming that uses modern digital technologies such as sensors, location data derived from GPS and satellites, robotics and analytics is changing the face of agriculture in India. Optimisation and calibrated machine and mechanism with sustainability approach is a welcoming approach for more Indian farming yield. Sustainable irrigation, organic fertilizer and digital automation into the buying and selling process for urban farming implement an always appreciable research thrust area. The current invention is a cost-effective and sustainable kind cultivation system that allows optimised atmospheric conditioning and an adequate water supply

management system for easy growth of the medicinal herb lemongrass.



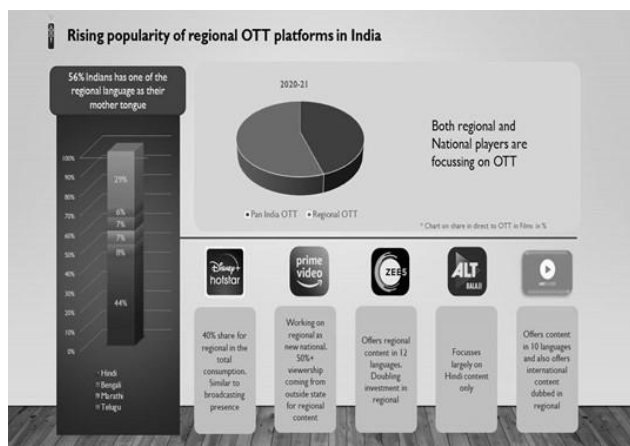
21: 2022/07837. 22: 2022/07/14. 43: 2022/09/16
51: G06Q

71: Dr. Raju M. Tugnayat, Prof. S S Prasada Rao Ph.D, Dr. Shardha Purohit, Suman Dahiya, Dr. Samriti Mahajan, Dr. Ravindra R Kaikini, Ms. Ritu Garg, Dr. Mohd Ashaq, Dr. Biswaranjan Parida, Dr. Pranav Kharbanda, Dr. Sridevi Maganti, Prof. (Dr.) Raju Ch. V. Voleti, Dr. Indrajit Ghosal, Dr. Reema Sharma, Dr. Kumar Ratnesh, Ms. Aruna Yadav
72: Dr. Raju M. Tugnayat, Prof. S S Prasada Rao Ph.D, Dr. Shardha Purohit, Suman Dahiya, Dr. Samriti Mahajan, Dr. Ravindra R Kaikini, Ms. Ritu Garg, Dr. Mohd Ashaq, Dr. Biswaranjan Parida, Dr. Pranav Kharbanda, Dr. Sridevi Maganti, Prof. (Dr.) Raju Ch. V. Voleti, Dr. Indrajit Ghosal, Dr. Reema Sharma, Dr. Kumar Ratnesh, Ms. Aruna Yadav

54: GROWING POPULARITY OF INDIAN REGIONAL OTT PLATFORMS

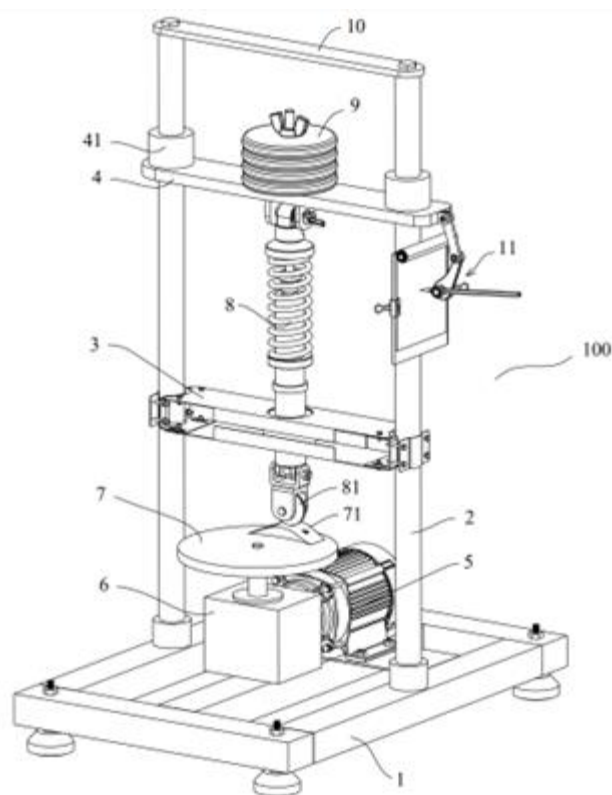
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The present invention relates to the future of entertainment viewing in India is shifting at a breakneck rate, which has resulted in an explosion of internet streaming video providers. India has been slower to embrace streaming services than other nations, but during pandemic and the excess supply with cheap rates of internet service has made these OTT platforms more accessible and inexpensive. Through an analytical study, this paper examines the emergence and future of Indian regional OTT platforms, as well as the rising popularity of these platforms.



21: 2022/07838. 22: 2022/07/14. 43: 2022/09/16
 51: G01N
 71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, ANEKAR, Nitinkumar Raghunath
 72: ANEKAR, Nitinkumar Raghunath, KHANDELWAL, Kushal, NEMADE, Amit Chandrakant
54: EXPERIMENTAL TEST RIG FOR MEASURING THE TRANSMISSIBILITY RATIO OF TWO-WHEELER SHOCK ABSORBER
 00: -

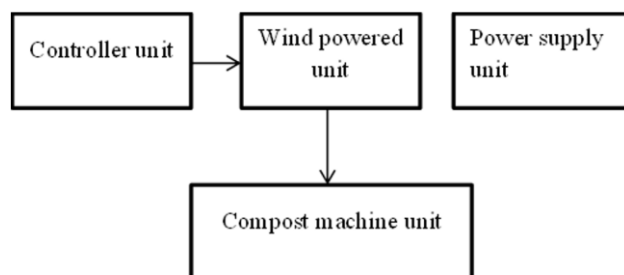
The present invention defines an experimental test rig for measuring the transmissibility ratio of two-wheeler shock absorber. The setup of the present invention is designed for testing dampers of a two wheeler with removing the dampers from the vehicle. It is among the objects of the invention to test with improved accuracy and facility, shock absorbers associated with two wheeler suspension system. A further object is to improve the reliability and safety of two wheeler shock absorbers with equipment of relatively compact, low-cost construction. Another object is the provision of such apparatus which tests more than one parameter of the suspension under test.



21: 2022/07879. 22: 2022/07/15. 43: 2022/09/16
 51: C05F
 71: Dr. Chandra Mohan, Dr. Anoop Yadav, Dr. Pankaj Dadheech, Dr. Smriti Tandon, Dr. Romica Bhat, Harmeet Kaur Kochhar, Dr. K Ramakrishna, Dr. Suman Kumari, Dr. Poonam Singhal, Dr. Tenzin Wangpo, Prof. Shital Gujarathi, Dr. Preeti Kulkarni, Dr. M. G. Sumithra, Dr. Pawan Kumar Rose, Prof. Ramesh Chandra Panda
 72: Dr. Pankaj Dadheech, Dr. Chandra Mohan, Dr. Anoop Yadav, Dr. Smriti Tandon, Dr. Romica Bhat, Harmeet Kaur Kochhar, Dr. K Ramakrishna, Dr. Suman Kumari, Dr. Poonam Singhal, Dr. Tenzin Wangpo, Prof. Shital Gujarathi, Dr. Preeti Kulkarni, Dr. M. G. Sumithra, Dr. Pawan Kumar Rose, Prof. Ramesh Chandra Panda
54: A NOVEL SYSTEM FOR WIND-POWERED IOT BASED SUSTAINABLE ORGANIC COMPOST MACHINE
 00: -

The present invention relates to wind-powered IOT based sustainable organic compost machine. The system (100) comprises a controller unit, wind powered unit, power supply and compost machine unit. A controller unit analyzes data from plurality of sensors installed on the wind power and adjusts its operation accordingly. The wind powered unit is connected with controller unit configure to generate

electricity from wind. The wind powered unit is connected sustainable compost machine unit. A compost machine unit configures to do stirring operation on shredded trash and browns with the help of dc motor. A wind-powered heater removes moisture from the compost. The finished compost is then left to cool for some days. From the system ready-to-use compost is obtained. This cost-effective machine will be as good as any other compost machine on the market.



21: 2022/07880. 22: 2022/07/15. 43: 2022/09/16
51: A61B

71: HAQUE, Abdul Jaleel Abdul, FAROOQUI, Samreen, MOHIUDDIN, Momin Zaki, PRADHAN, Vidya S., ZAKDE, Kranti Ramdas, SHAIKH, Yusuf Hanif, KHAN, Abdul Raoof

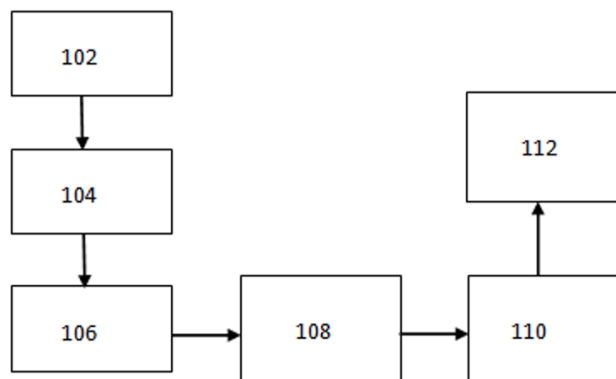
72: HAQUE, Abdul Jaleel Abdul, FAROOQUI, Samreen, MOHIUDDIN, Momin Zaki, PRADHAN, Vidya S., ZAKDE, Kranti Ramdas, SHAIKH, Yusuf Hanif, KHAN, Abdul Raoof

54: SHORT OPTICAL PULSE GENERATION AND DETECTION SYSTEM

00: -

The present invention discloses a device capable of generating short duration optical pulses of the order of one microsecond or more. The invention makes use of a short voltage pulse generation module that can produce short duration pulses of one microsecond or more. The short voltage pulse generation module in turn makes use of an integrated circuit along with few electronic components. The optical pulse generation is accomplished with a diode laser module which is energized by the voltage pulse generator. The diode laser module used produces radiation with a wavelength in red region of the electromagnetic spectrum and has a fast response time sufficient for the present invention. For detection of the short duration optical pulses a LED photodiode is used. The detector used in the present invention is corrected for the fall time by using resistive

discharge of the junction capacitance. Short optical pulse production and detection plays an important role in today's society in general and technology in particular. The production of short optical pulses poses difficulties so also about the detection of short optical pulses. The present invention is a cost effective solution to both the production and detection of short optical pulses using simple components and technique.



21: 2022/07881. 22: 2022/07/15. 43: 2022/09/16
51: F03D

71: Dr. Sandeep Samantaray, Chinmayee Biswakalyani, Abinash Sahoo, Shaswati Soumya Mishra, Dr. Deba Prakash Satapathy

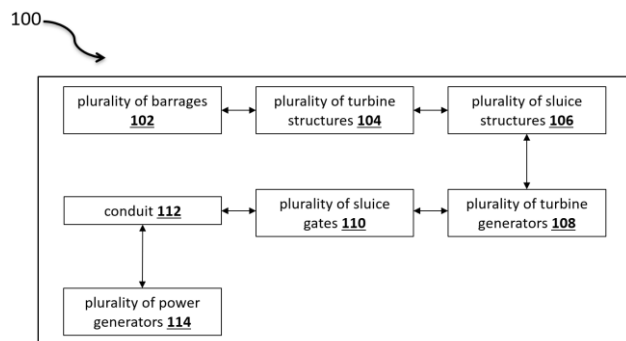
72: Dr. Sandeep Samantaray, Chinmayee Biswakalyani, Abinash Sahoo, Shaswati Soumya Mishra, Dr. Deba Prakash Satapathy

54: A COMBINED TIDAL POWER AND OCEAN CURRENT BASED POWER GENERATION SYSTEM

00: -

The present invention generally relates to a power generation system comprises a plurality of barrages(102) fenced across the sea to make up a lake; a plurality of turbine structures(104) of a tidal power plant and a plurality of sluice structures(106) of a tidal power dam constructed to generate electrical power using a potential energy difference between seawaters caused by tides and ebbs in between plurality of barrages(102); a plurality of turbine generators(108) to generate electrical power using flow of the incoming seawater into a lake side from a sea side when flooding within the turbine structures(104); a plurality of sluice gates(110) to actuate a conduit(112) of the sluice during ebbing and flooding inside the sluice structures(106); and a plurality of power generators(114) to generate electrical power by means of the flow of the

seawater discharged through the turbine generators(108) in a rear lake side of the plurality of turbine structures(104).



21: 2022/07882. 22: 2022/07/15. 43: 2022/09/16
51: F03B

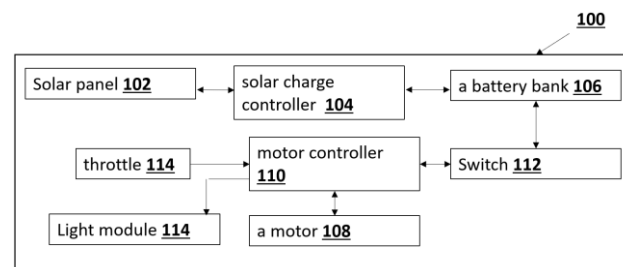
71: Centurion University of Technology & Management, Odisha, Smruti Ranjan Nayak, Dr. Madhusmita Choudhury

72: Smruti Ranjan Nayak, Dr. Madhusmita Choudhury

54: AN INTEGRATED SOLAR POWER DRIVEN ELECTRIC DEVICE FOR DRIVING AN E- VEHICLE

00: -

An integrated solar power driven electric device (100) for driving an e-vehicle, comprises of: a plurality of solar panel (102) mounted on a height having an exposed surface for incidenting sun rays; a solar charge controller (104) connected to the plurality of solar panel (102) for converting the incidented light rays into electrical energy, wherein the electrical energy is stored in a battery bank (106); a motor (108) connected to the battery bank (106) via a motor controller (110) and a switch (112) for converting the electrical energy stored in the battery bank (106) to an equivalent rotational energy; a throttle (114) connected to the motor controller (110) comprising of a magnet (114a) and a sensor (114b) for controlling speed of the e-vehicle upon receiving charge from the battery; and a light module (116) associated with the motor controller (110) for providing illumination to user in dark environment.



21: 2022/07883. 22: 2022/07/15. 43: 2022/09/16

51: H04L

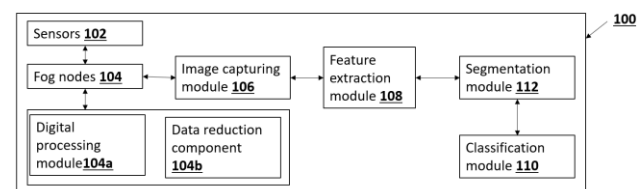
71: M M KAMRUZZAMAN

72: M M Kamruzzaman

54: A FUZZY-ASSISTED FOG-COMPUTING SYSTEM AND A METHOD THEREOF

00: -

A Fuzzy-assisted fog-computing system (100), comprises of: a plurality of sensors (102) deployed in a first layer of a fog network to detect a biopotential signal of a patient for real-time monitoring of a patient, wherein the biopotential signals collected are transmitted to a plurality of fog nodes (104); an image capturing module (106) for capturing atleast a facial image of the patient; a feature extraction module (108) comprising of root mean square feature extracting and visualization technique to identify the patient's face and extract a plurality of facial muscle features and features related to patient behaviour; and a classification module (110) for classifying the collected signals into a plurality of classes each indicating a risk profile, wherein the risk profile of the patient is identified upon monitoring the extracted facial muscle features and patient behaviour by a fuzzy decision.



21: 2022/07884. 22: 2022/07/15. 43: 2022/09/16

51: C07C

71: DR. AMRUT GUNWANTRAO GADDAMWAR

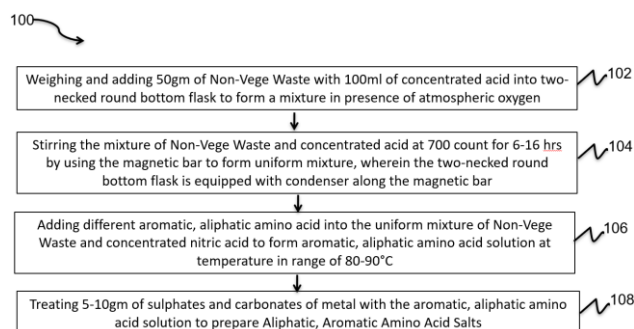
72: Dr. Amrut Gunwantrao Gaddamwar

54: PROCESS OF PREPARATION OF ALIPHATIC, AROMATIC AMINO ACID SALTS FROM NON-VEGE WASTE

00: -

The present relates to a process of preparation of Aliphatic, Aromatic Amino Acid Salts from Non-Vege

Waste. The process includes of weighing and adding 50gm of Non-Vegetable Waste with 100ml of concentrated acid into two-necked round bottom flask to form a mixture in presence of atmospheric oxygen; stirring the mixture of Non-Vegetable Waste and concentrated acid for 6-16 hrs by using the magnetic bar to form uniform mixture, wherein the two-necked round bottom flask is equipped with condenser along the magnetic bar; adding different aromatic, aliphatic amino acid into the uniform mixture of Non-Vegetable Waste and concentrated nitric acid to form aromatic, aliphatic amino acid solution at temperature in range of 80-90°C; and treating 5-10gm of sulphates and carbonates of metal with the aromatic, aliphatic amino acid solution to prepare Aliphatic, Aromatic Amino Acid Salts.



21: 2022/07931. 22: 2022/07/15. 43: 2022/08/25
51: G06Q

71: INSTITUTE OF FOREST RESOURCE INFORMATION TECHNIQUES, CHINESE ACADEMY OF FORESTRY

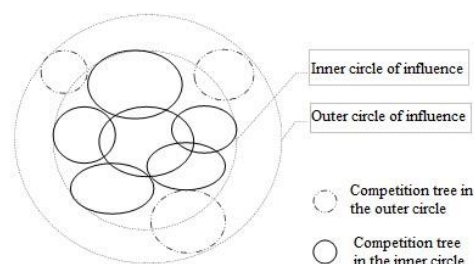
72: JIANG, Xian, CHEN, Yan, YANG, Tingdong, ZHANG, Huaqing, ZHANG, Jing, LUO, Peng

54: COMPETITION VISUAL MODEL BASED ON INNER AND OUTER COMPETITION CIRCLES OF INFLUENCE

00: -

Disclosed is a competition visual model based on inner and outer competition circles of influence, which belongs to the technical field of visualization, three-dimensional simulation and digital twinning. A diameter at breast height of a competition tree in an inner competition circle of influence is measured ("Dp"); a diameter at breast height of a target tree in the inner competition circle of influence is measured ("Di"); a crown overlapping area of the competition tree and the target tree in the inner competition circle of influence is measured ("Opi"); the values are substituted into a model to obtain a competition

index based on the Opi. The competition way and state among the trees and the tolerated competition pressure may be simulated in aspects of three-dimensional simulation and digital tree farms of forests, so that model support is provided for the three-dimensional simulation and digital tree farms of the forests.



21: 2022/07955. 22: 2022/07/18. 43: 2022/09/16
51: E21B

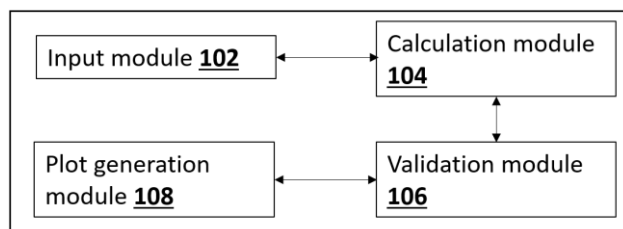
71: Manna Mukherjee, Prasun Banik, Sudipta Majumder, Bondita Robidas

72: Manna Mukherjee, Prasun Banik, Sudipta Majumder, Bondita Robidas

54: A DEVICE FOR DESIGNING VARIOUS DIRECTIONAL DRILLING WELL PROFILES AND A METHOD THEREOF

00: -

A device (100) and a method (200) for designing a plurality of directional drilling well profile, comprise of: an input module (102) for taking a plurality of input parameters required for designing each of the plurality of directional drilling well profile; a calculation module (104) for calculating a plurality of output parameters for each of the drilling well profile based on the plurality of input parameters; a validation module (106) for validating possibility of constructing the desired directional drilling well profile based on the plurality of output parameters, wherein if construction of each of the desired profile is possible then the drilling well profile is generated based on the output parameters, else the plurality of input parameters are adjusted; and a plot generation module (108) for generating a plurality of plots based on the constructed drilling well profile.



21: 2022/07960. 22: 2022/07/18. 43: 2022/09/08

51: H05B

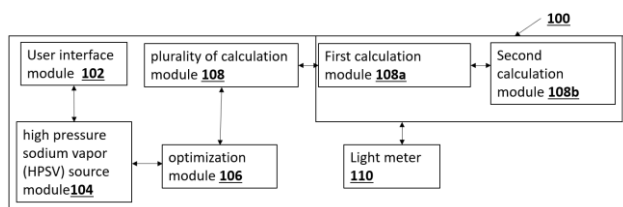
71: Dr. Lakshmipathy Narasimhan, Dr. Chivukula Suryanarayana Murthy, Dr. Mangalpady Aruna, Dr. Syed Ariff

72: DR. LAKSHMIPATHY NARASIMHAN, DR. CHIVUKULA SURYANARAYANA MURTHY, DR. MANGALPADY ARUNA, DR. SYED ARIFF

54: AN ILLUMINATION SYSTEM BASED ON OPTIMUM DESIGN PARAMETERS AND A METHOD THEREOF

00: -

A system (100) and a method (200) for illumination based on optimum design parameters, comprises of: a user interface module (102) for initializing the design parameters; a HPSV source module (104) for optimizing the design parameters of the plurality of poles across an area; an optimization module (106) for optimizing a pole interval such that each of the plurality of poles are arranged on one side of road with intermediate spacing; a plurality of calculation module (108), wherein a first calculation module (108a) calculates the quantity of plurality of poles required for covering an entirety of the road, wherein a second calculation module (108b) calculates total energy consumption based on the calculated quantity of the plurality of poles; and a light meter (110) for measuring illuminance from each of a plurality of poles.



21: 2022/07963. 22: 2022/07/18. 43: 2022/09/08

51: B66C

71: China Railway Jiujiang Bridge Engineering Co., Ltd.

72: ZHAO, Mengchun, ZHU, Dongming, LIANG, Hui, ZHANG, Yanhui, XIA, Chaojuan, YANG, Zhiming, ZHENG, Yi, LI, Feng, LUO, Yarong, LONG, Yuyi,

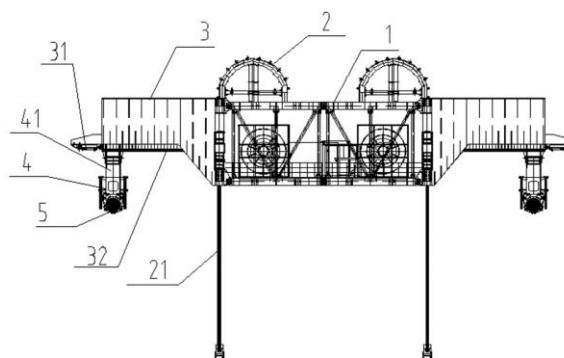
WANG, Qiwen, BAI, Kongming, CHEN, Jie, CHANG, Siming, ZHONG, Yujing, GAO, Feng

33: CN 31: 202011460475 32: 2020-12-11

54: SPAN-VARIABLE CABLE-MOUNTED CRANE

00: -

The present invention discloses a span-variable cable-mounted crane which is capable of automatically performing a span variation action without external forces during construction; moreover, the span variation action is scientific and stable, and no potential safety hazards are caused. The span-variable cable-mounted crane is suitable for mounting suspension bridges with variable main cable spacings, improved in practicability and widened in application range, and an optimal hoisting tool is provided for mounting the suspension bridges with the variable main cable spacings.



21: 2022/07998. 22: 2022/07/19. 43: 2022/08/25

51: A23K

71: INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES

72: SUN, Fang, BU, Ye, XU, Shanshan, LIU, Li, ZHAO, Xiaochuan, ZHANG, Siqi, WEI, Ziheng, SUI, Xinxin

54: COW CONCENTRATE SUPPLEMENT AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention provides a cow concentrate supplement and a preparation method and application thereof, and belongs to the technical field of animal feed. The cow concentrate supplement of the present invention comprises the following raw materials in percentage by weight: 50-70% of corn, 8-15% of soybean meal, 6-13% of DDGS, 3-12% of rice bran, 4-8% of corn germ, 0.5-2% of sodium chloride, 0.5-2% of limestone powder, 0.5-2% of

calcium hydrogen phosphate and 0.5-2% of a premix; and the premix comprises trace elements, vitamins and phytase. After the cow concentrate supplement is mixed with rubbed corn straws and fed to cows, a pregnancy rate of the cows can reach more than 90% within 3 months after delivery; and a daily weight gain of calves can reach more than 0.96 ± 0.35 kg. Thus, application of the concentrate supplement in the present invention can ensure that cows with different weights and different stages can eat enough nutrients.

21: 2022/07999. 22: 2022/07/19. 43: 2022/08/25

51: A01H

71: JILIN PROVINCIAL ACADEMY OF FORESTRY SCIENCES

72: LIN, Yumei, REN, Jun, ZHANG, Limin, LIN, Shijie, GOU, Tianbing, LV, Mengyan, ZHAO, Jiali

54: METHOD FOR MAKING FRAXINUS MANDSHURICA SEEDLING MEDIUM BY USING WASTE AURICULARIA AURICULA FUNGUS MEDIUM

00: -

The present invention relates to the technical field of Fraxinus mandshurica seedling media, in particular to a method for making a Fraxinus mandshurica seedling medium by using a waste Auricularia auricula fungus medium, which comprises the following steps: material preparation, pile building, composting, post-decomposition and preparation. In the present invention, the Auricularia auricula fungus medium with a wide source is used for processing; and corresponding fertilizers are added according to a demand quantity and a demand law of nutrients for Fraxinus mandshurica seedling growth, so that various properties of the medium are closer to those of peat, thereby replacing the peat for Fraxinus mandshurica seedling culture and satisfying growth of Fraxinus mandshurica seedlings. The method not only can alleviate a current crisis of peat depletion, but also can solve environmental pollution caused by waste Auricularia auricula fungus media, and avoid the waste of waste organic resources.

21: 2022/08024. 22: 2022/07/19. 43: 2022/09/06

51: B01D

71: FEATURE-TEC (WUXI) FILTRATION TECHNOLOGY CO., LTD

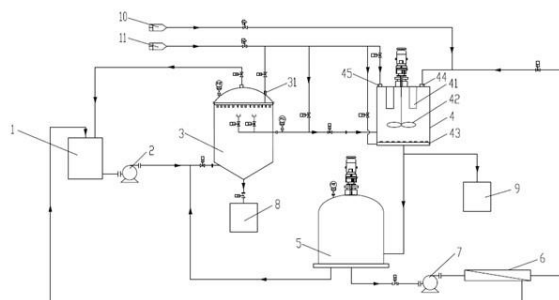
72: HE, Xiangyang

33: CN 31: 202011636895.X 32: 2020-12-31

54: FILTERING AND SEPARATING SYSTEM AND METHOD FOR RECYCLING Fe_3O_4 NANO-PARTICLES

00: -

The present invention provides a filtering and separating system and method for recycling Fe_3O_4 nano-particles. The system includes an original liquid tank, a first booster pump, a clustered filter, an electromagnetic filtering machine, a dynamic membrane system and a nano-particle collecting tank; and a concentrated liquid outlet of the dynamic membrane system is connected with a material inlet of the clustered filter, and a material outlet of the electromagnetic filtering machine is also connected with the nano-particle collecting tank. According to the method, the Fe_3O_4 nano-particles in the original liquid tank are separated and collected by the electromagnetic filtering machine, and remaining impurities are collected by the clustered filter; water purified by a reverse osmosis membrane system is used for washing the Fe_3O_4 nano-particles; and a spray drying apparatus is arranged in the electromagnetic filtering machine, and may dry the washed Fe_3O_4 nano-particles.



21: 2022/08062. 22: 2022/07/20. 43: 2022/08/25

51: C02F

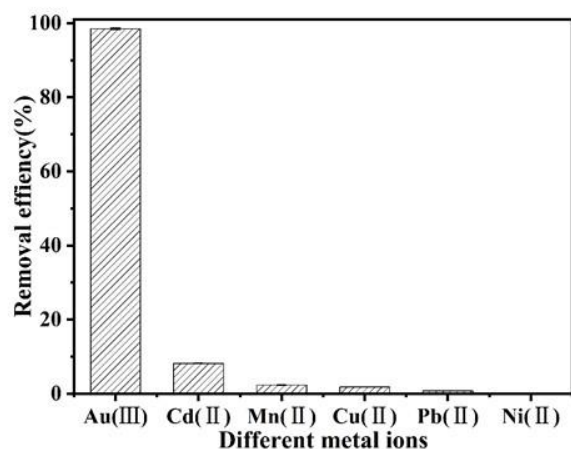
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

72: MAO, Yanli, LIU, Chaopeng, SONG, Zhongxian, KANG, Haiyan, LUO, Yulong, YAN, Xu, GU, Deming, WANG, Zhaodong, ZHANG, Xia, WANG, Qianyou, YAN, Xiaole

54: PREPARATION FOR THIOUREA FUNCTIONED CUPROUS OXIDE AND APPLICATION OF THIOUREA FUNCTIONED CUPROUS OXIDE FOR RECOVERING NOBLE METAL

00: -

The present invention discloses preparation for thiourea functioned cuprous oxide and application of the thiourea functioned cuprous oxide for recovering noble metal, and belongs to the technical field of preparation of adsorbents. Cuprous oxide is modified with thiourea, and a cheap and efficient noble metal adsorbent Cu₂O-TU is prepared. A preparation method for the adsorbent involved in the present invention is simple and feasible, simple to operate, cheap and available in raw material. The obtained adsorbent can be applied to selective adsorption of gold ions in an aqueous solution and may be repeatedly used. The present invention provides a novel green and efficient adsorbent for recovery of gold and also widens a thought for an application range of the cuprous oxide.



21: 2022/08063. 22: 2022/07/20. 43: 2022/08/25
51: C02F

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

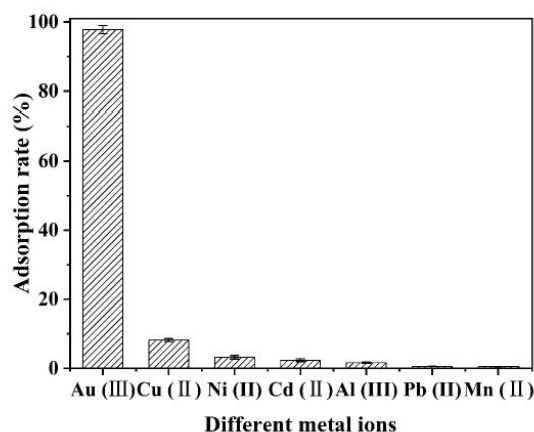
72: MAO, Yanli, LIU, Chaopeng, LUO, Yulong, KANG, Haiyan, SONG, Zhongxian, YAN, Xu, GU, Deming, WANG, Zhaodong, YAN, Xiaole, WANG, Qianyou, LI, Songya

54: PREPARATION METHOD AND APPLICATION OF FUNCTIONAL MESOPOROUS SILICON-BASED MATERIAL FOR GOLD ION ADSORPTION

00: -

The present invention discloses a preparation method and application of a functional mesoporous silicon-based material for gold ion adsorption, and belongs to the technical field of adsorbent preparation. Cuprous oxide and thiourea are added into a synthesis process of MCM-41; and an

adsorbent CMTU is obtained after a reaction. The preparation method of an adsorbent in the present invention is simple and easy, simple in operation, and cheap and easily available in raw materials. The obtained adsorbent can be used for selective adsorption of gold ions in an aqueous solution and can be reused. The present invention provides a novel, green and efficient adsorbent for gold recovery, and also provides an idea for in-situ synthesis and modification of mesoporous silicon-based materials.



21: 2022/08079. 22: 2022/07/20. 43: 2022/09/16
51: A61B

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, AHER, Jayshree Ajit, KATYAL, Rohit, THENGADE, Anita Mahesh

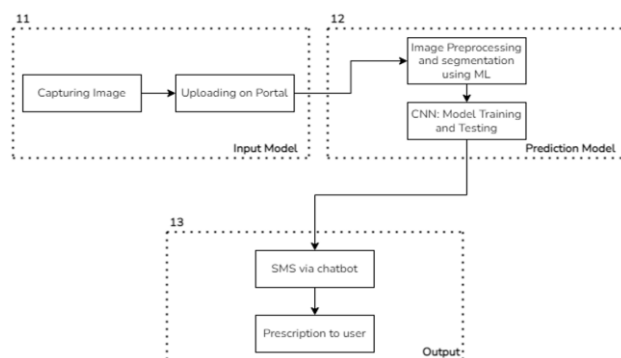
72: AHER, Jayshree Ajit, KATYAL, Rohit, THENGADE, Anita Mahesh

54: METHOD AND APPARATUS FOR SKIN LESION DETECTION AND TREATMENT ASSISTANCE USING JEEVAN EDGE

00: -

The present invention discloses an AI-ML system that will be an advantage in medicine. It investigates how Artificial Intelligence aids the medical industry, as well as how this widespread phenomenon affects patient health in identifying diseases, treating patients, decreasing errors, and virtually being present with patients. In this model, we used data from previous patients to create a machine learning model that predicts the likelihood of a person developing the skin disease. After running the machine learning algorithm, we created a model that mimics how dermatologists examine skin lesions using visual inspection and dermoscopy. We used

our JEEVAN EDGE device to perform skin lesion examinations using AI algorithms and machine vision. So we designed an SMS-based chatbot that allows users to give input on their skin health conditions to our best crowd-sourced doctors, Three-Stage Healthcare Support System in real-time, allowing individuals to get their skin problems treated at home by receiving the best therapy in real-time.



21: 2022/08120. 22: 2022/07/21. 43: 2022/09/16

51: A61P

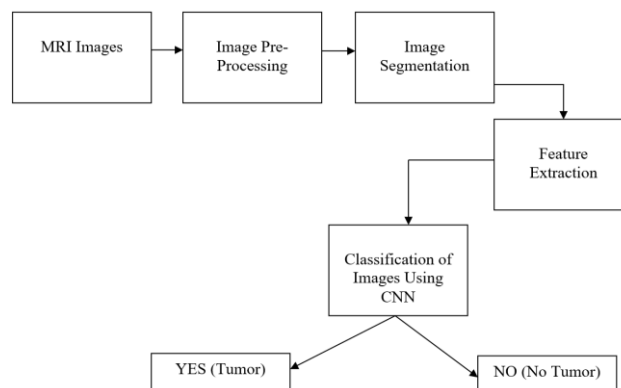
71: Dr. Munesh Chandra Trivedi, Ms. Sonam Saluja

72: Dr. Munesh Chandra TRIVEDI, Ms. Sonam SALUJA

54: A METHOD FOR SEGMENTATION AND CLASSIFICATION OF BRAIN TUMOR CELLS

00: -

Accordingly, embodiments herein disclose method for segmentation and classification of brain tumor cells using machine learning technique, comprising the steps of: acquiring images using a magnetic resonance image (MRI) system; formatting viably the acquired images; and segmenting the formatted images into various portions. The segmented images are viewed by a viewer to analyse and compare each distinct of images to find out already figured out images. The method involves extracting features of the segmented images such that the extracted features of images is reduced large number of images and capturing interesting parts of images. The extracted features of images are classified using a convolution neural network (CNN) whether the tumors cells are identified.



21: 2022/08187. 22: 2022/07/22. 43: 2022/09/08

51: G06Q

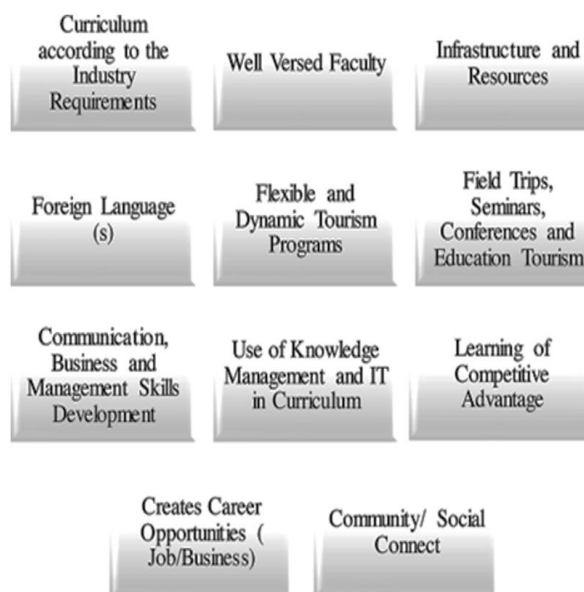
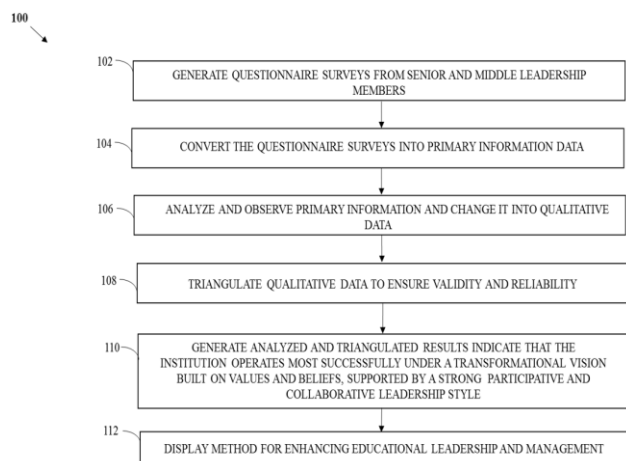
71: Mr. Anuj Kumar, Dr. Asmat Ara Shaikh, Dr. Prabha Kiran, Dr. Archana Bhatia, Dr. Jayasri Indiran, Dr. Rachana Saxena, Dr. Nimit Gupta, Dr. M R Vanithamani, Ms. Sunita, Mr. Raghavan Srinivasan, Mr. Jain Prabhu Thomas

72: Mr. Anuj Kumar, Dr. Asmat Ara Shaikh, Dr. Prabha Kiran, Dr. Archana Bhatia, Dr. Jayasri Indiran, Dr. Rachana Saxena, Dr. Nimit Gupta, Dr. M R Vanithamani, Ms. Sunita, Mr. Raghavan Srinivasan, Mr. Jain Prabhu Thomas

54: A METHOD FOR ENHANCING EDUCATIONAL LEADERSHIP AND MANAGEMENT IN AN INTERNATIONAL SCHOOL CONTEXT

00: -

The present invention relates to a method (100) for enhancing educational leadership and management in an international school context. The method (100) comprises a memory unit, a processing unit, and a display unit. The memory unit is configured to store machine language. The processing unit is configured to generate (102) questionnaire surveys from senior and middle leadership members; convert (104) the questionnaire surveys into primary information data; analyze (106) and observe primary information and change it into qualitative data; triangulate (108) qualitative data to ensure validity and reliability; generate (110) analyzed and triangulated results indicate that the institution operates most successfully under a transformational vision built on values and beliefs, supported by a strong participative and collaborative leadership style. The display unit is operationally connected with the processing unit configured to provide a user interface and display the generated result.



21: 2022/08188. 22: 2022/07/22. 43: 2022/09/08

51: G06Q

71: Dr. Dillip Kumar Das, Dr. Nilanjan Ray, Dr. Soumendra Nath Biswas, Dr. Nirmal Chandra Roy, Dr. Pradip Kumar Das, Dr. Debasish Batabyal, Dr. Rachana Jaiswal

72: Dr. Dillip Kumar Das, Dr. Nilanjan Ray, Dr. Soumendra Nath Biswas, Dr. Nirmal Chandra Roy, Dr. Pradip Kumar Das, Dr. Debasish Batabyal, Dr. Rachana Jaiswal

54: UNLOCKING EMPLOYMENT OPPORTUNITIES IN TOURISM INDUSTRY AT HADOTI REGION WITH THE HELP OF TOURISM EDUCATION

00: -

The present invention relates to the tourism and hospitality industry is a major source of employment. This chapter identifies the possible sources of employment through tourism and tourism education. Additionally, the chapter outlines immense tourism opportunities in the region in order to enhance the employment and business ventures. The chapter highlighted the relevance of tourism education to generating and availing job opportunities. The chapter also highlights the factors and challenges which diminish the success of tourism industry at the region likewise – lack of tourism education courses, poor infrastructure, and lack of proper transport services, event management companies, seasonality, and lack of marketing of tourism attraction/tourism products. The region compromises great potential for employability in tourism and hospitality industry despite of it the region is suffering a lot due to unemployment. The major cause is non-availability of professional courses in tourism, travel, and hospitality.

21: 2022/08189. 22: 2022/07/22. 43: 2022/09/08

51: G06T

71: MANIPAL UNIVERSITY JAIPUR

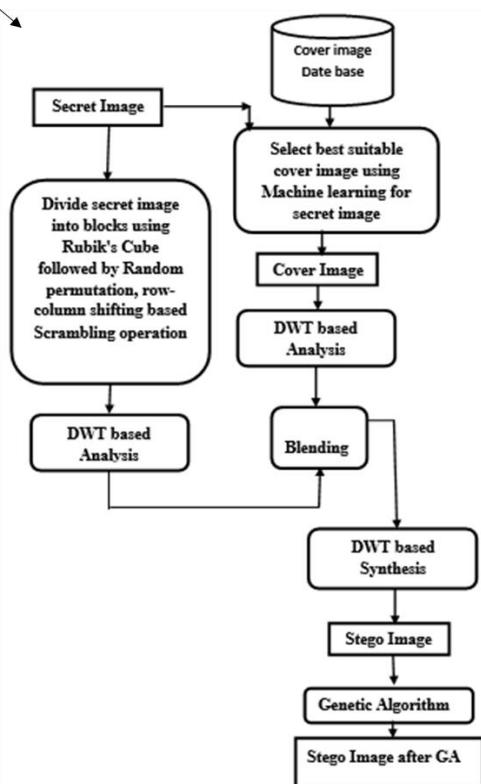
72: DR. VIJAY KUMAR SHARMA, PRAMENDRA KUMAR

54: A SECURE SYSTEM AND METHOD FOR IMAGE STEGANOGRAPHY USING MACHINE LEARNING AND GENETIC ALGORITHM

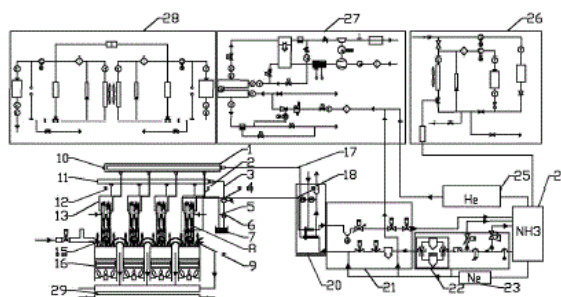
00: -

The present invention relates a secure system and method (100) for image steganography using machine learning and genetic algorithm. The method (100) comprises steps: selecting the best suitable cover image based intensity analysis process; segmenting and scrambling secret images; applying random permutation and row and column swapping on the obtained secret image segments obtained; generating the scrambled single image by jointing the different obtained scrambled segments; blending of scrambled image segments inside the cover image and generating the stego image; increasing stego image picture and generating stego image. a secure system for image steganography using machine learning and genetic algorithm. The system comprises a memory unit and a processor unit. The memory unit is configured to store machine language. The processing unit is configured to read machine language stored in the memory unit. The processing unit is configured to perform the function of the sender end processor.

100



ammonia storage flow divider, a low-pressure pump and a high-pressure pump.



21: 2022/08194. 22: 2022/07/22. 43: 2022/09/02
51: A61K; A61P

71: Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences, Inner Mongolia Agricultural University, Ulanqab Institute of Agriculture and Forestry Sciences, Ulanqab Animal Disease Prevention and Control Center
72: YANG, Bin, SA, Ruli, QIAN, Linna, BI, Lige batu, YING, Ying, SONG, Yue, GAO, Shunping, XU, Linhai, ZHAO, Shihua

33: CN 31: 202210175314.X 32: 2022-02-25

54: COMPOSITION FOR TREATMENT OF GOAT/SHEEP TRANSPORT STRESS SYNDROME AND USE THEREOF

00: -

The present disclosure relates to a composition for treatment of goat/sheep transport stress syndrome and use thereof. The composition provided by the present disclosure includes the following components: 8-10 parts by weight of oleaster leaves and 8-10 parts by weight of Astragali Radix. In the present disclosure, compounding and administration of the oleaster leaves and the Astragali Radix in a suitable ratio not only has an excellent therapeutic effect on the goat/sheep transport stress syndrome, but also avoids drug residues caused by antibiotic prophylaxis and treatment and ensures food safety. The composition provided by the present disclosure can regulate the secretion of cortisol in goat/sheep with transport stress, and speed up recovery thereof, with a long duration; meanwhile, the composition can increase the secretion of serum IFN- γ , maintain an IL-10 level in the body, and improve the antiviral capacity, regulation capacity and immunity of the goat/sheep after the transport stress.

21: 2022/08193. 22: 2022/07/22. 43: 2022/09/02

51: F02M

71: Harbin Engineering University

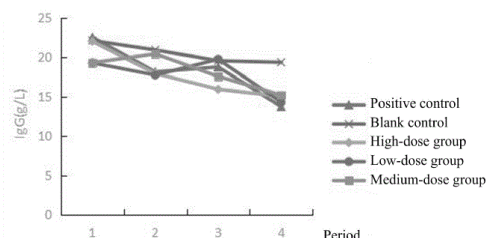
72: FAN, Liyun, WEI, Yunpeng, MAO, Yuntao, XU, Jing, WU, Yuelin, ZHANG, Hanwen

33: CN 31: 202111374434.4 32: 2021-11-19

54: LIQUID AMMONIA PHASE-CHANGE COOLING TYPE HYBRID POWER THERMAL MANAGEMENT SYSTEM

00: -

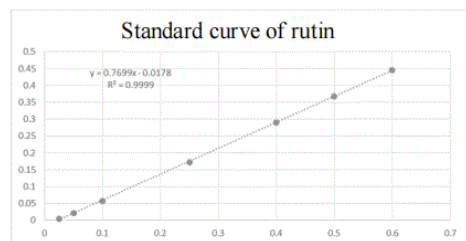
A liquid ammonia phase-change cooling type hybrid power thermal management system. The system comprises an injector, a liquid ammonia hydrogen supply system, a liquid ammonia common rail pipe, a fuel oil common rail pipe and an oil tank, wherein the liquid ammonia hydrogen supply system comprises a liquid ammonia storage tank, an ammonia pumping system, a flow dividing system and an ammonia inlet and outlet system, the fuel oil common rail pipe is respectively connected with the oil tank and a one-way oil inlet of the injector, the liquid ammonia common rail pipe is respectively connected with the ammonia inlet and outlet system and a one-way ammonia inlet of the injector, an ammonia inlet pipe and an ammonia return pipe are arranged in the ammonia inlet and outlet system, the ammonia pumping system comprises a liquid



21: 2022/08195. 22: 2022/07/22. 43: 2022/09/02
 51: C07D; A61P
 71: Beijing Kino Biotechnology Co., Ltd., YANG, Shi
 72: TAN, Yuqing, MA, Hai, YANG, Shi, ZHAO, Qinghe, HAN, Guojun, LIU, Li, YANG, Miyi
54: COMPOSITION FOR PREVENTING AND TREATING HYPERURICEMIA, AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present disclosure relates to the field of pharmacological treatment, in particular to a composition for preventing and treating hyperuricemia, and a preparation method and application thereof.

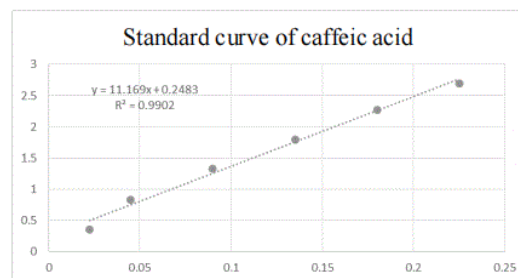


21: 2022/08196. 22: 2022/07/22. 43: 2022/09/02
 51: C07D; C12N
 71: Beijing Kino Biotechnology Co., Ltd., YANG, Shi
 72: TAN, Yuqing, MA, Hai, YANG, Shi, ZHAO, Qinghe, HAN, Guojun, LIU, Li, YANG, Miyi
54: COMPOSITION FOR REDUCING BLOOD URIC ACIDS AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present disclosure relates to a composition for reducing blood uric acids and a preparation method and application thereof, and particularly relates to the field of pharmacological treatment. The present disclosure provides a composition for reducing blood uric acids. Effective components of the composition consist of phenolic acids with a mass percentage of 37%. The composition of the present disclosure is capable of achieving the effect of reducing the level

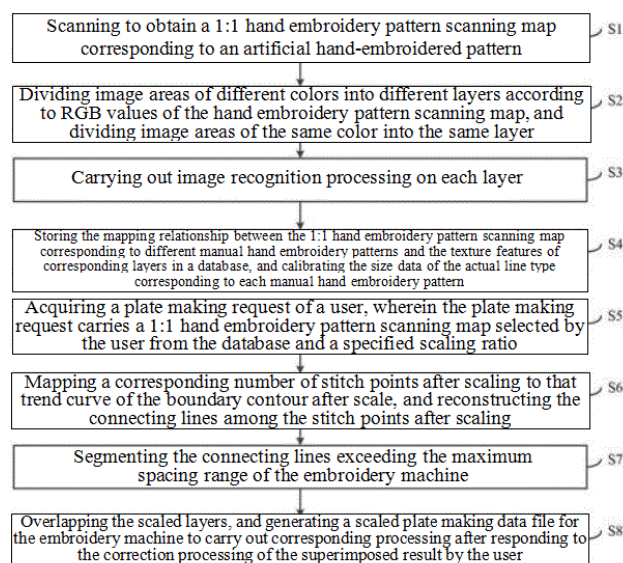
of blood uric acids, and meanwhile has small toxic or side effects.



21: 2022/08197. 22: 2022/07/22. 43: 2022/09/02
 51: G06K
 71: Hunan Normal University
 72: SUN Shun Yao, LI Xian, LIU Yuzhen
 33: CN 31: 202110841208.6 32: 2021-07-26
54: IMAGE DATA PROCESSING METHOD AND SYSTEM IN PROCESS OF XIANG EMBROIDERY PLATE MAKING

00: -

The invention relates to the technical field of image processing, and discloses an image data processing method and system in process of Xiang embroidery plate making, so as to improve plate making efficiency and resource reuse rate. The method comprises the following steps: scanning to obtain a 1:1 hand embroidery pattern scanning map corresponding to an manual hand embroidery pattern, dividing image areas of different colors into different layers according to RGB values of the hand embroidery pattern scanning map, and dividing image areas of the same color into the same layer; carrying out image recognition processing on each layer, and identifying the stitch, connection line and texture characteristics of any layer in the recognition process; mapping a corresponding number of stitch points after scaling to that trend curve of the boundary contour after scale, and reconstructing the connecting lines among the stitch points after scaling; then, segmenting the connecting lines exceeding the maximum spacing range of the embroidery machine; finally, superimposing the scaled layers to obtain the plate making data file for embroidery machine.



21: 2022/08198. 22: 2022/07/22. 43: 2022/09/02

51: A23F

71: Sichuan food fermentation industry research and Design Institute Co., Ltd, Luzhou Xuyong Hongyan village Dingfeng Tea Industry Co., Ltd

72: BAI Hongmei, CHEN Yimeng, ZHANG Li, ZHOU Zelin, WEI Sihua, YOU Jinggang, CHEN Gong, YIN Xiangdong, MAO Pengyu, GAO Lihong

54: PLANT-DERIVED PROBIOTIC HEALTHY FRUIT AND VEGETABLE TEA AND PREPARATION METHOD THEREOF

00: -

The invention belongs to the field of food, in particular to a plant-derived probiotic healthy fruit and vegetable tea and a preparation method thereof. The probiotic-free plant source healthy fruit and vegetable tea comprises the following raw materials in parts by weight: Ficus carica fruit powder 30-50, defatted walnut protein powder 20-30, dehydrated vegetable powder 20-30, ultra-fine tea powder 3-8 and probiotics 1-2; its preparation process includes fruit selection, cleaning, cutting, drying, crushing, proportioning and mixing. According to the invention, Ficus carica fruit powder, defatted walnut protein powder, dehydrated vegetables, ultra-fine tea powder and the like are used as raw materials, natural pectin components in Ficus carica fruit powder are used as embedding agents, active bacteria are embedded in the fruit powder, and the shelf life of active bacteria is prolonged; meanwhile, the oxidation resistance of ultra-fine tea powder is used to inhibit the oxidation of the remaining oil of

defatted walnut protein powder, so that the product quality is improved, the nutritional balance of the product is promoted, and the safety and health are ensured. This technology improves the taste of the product, realizes the high-value utilization of plant-derived probiotic healthy fruit and vegetable tea, and enhances the mutual synergy among raw material components.

21: 2022/08199. 22: 2022/07/22. 43: 2022/09/02

51: C04B

71: Huzhou Vocational and Technical College (Huzhou Radio and Television University) (Huzhou Community University)

72: LI Chao, LI Jianhua, HUANG Kun

33: CN 31: 202210758093.9 32: 2022-06-30

54: HIGH-PERFORMANCE GEOPOLYMER GROUTING MATERIAL AND PREPARATION METHOD THEREOF

00: -

The invention discloses a high-performance geopolymer grouting material and a preparation method thereof, belonging to the technical field of building materials, which comprises the following raw materials: 200-400 parts of fly ash, 200-400 parts of mineral powder, 50-100 parts of silica fume, 500-800 parts of aggregate, 200-350 parts of activator, 1-2 parts of water reducer and 0.5-1 part of retarder, 0.4-0.8 part of defoamer, 0.2-0.5 part of water-retaining thickener and 10-15 parts of compound expansion agent. The high-performance geopolymer grouting material prepared by the invention has excellent compressive performance, good fluidity, no bleeding phenomenon and excellent impermeability, and can be widely applied to grouting materials, seating materials and edge-sealing mortar used for grouting connection of steel bars in prefabricated concrete structures.

21: 2022/08215. 22: 2022/07/22. 43: 2022/09/02

51: C08L

71: Guizhou Minzu University

72: Daohai Zhang, Meng Pei, Wenjing Zhang, Haichang Zhang, Xiaoyu Shang, Junzhuo Sun, Kuntian Li, Yanyan Tan, Yu Xue, Jinhui Xie, Dongmei Bao, Fang Tan

54: LARGE-CALIBER DOUBLE-WALL CORRUGATED PIPE HDPE COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention relates to a large-caliber double-wall corrugated pipe HDPE composite material and a preparation method thereof, and belongs to the field of green building materials. The large-caliber double-wall corrugated pipe HDPE composite material is prepared from, in parts by weight, 40-90 parts of HDPE, 10-20 parts of polycarbonate, 5-10 parts of melamine-formaldehyde resin, 5-20 parts of calcium sulfate whiskers, 5-20 parts of nano barium sulfate, 1-5 parts of hydroxyl silicone oil, 0-5 parts of silane coupling agents, 5-10 parts of compatilizer, 1-5 parts of dispersing agents, 0.1-5 parts of antioxidants, 1-5 parts of ultraviolet absorbents, 1-5 parts of lubricants, 1-10 parts of aluminum hydroxide and 1-5 parts of heat stabilizers. The present invention further discloses a preparation method and application of the large-caliber double-wall corrugated pipe HDPE composite material. The large-diameter double-wall corrugated pipe HDPE composite material has excellent anti-aging performance, interfacial compatibility, mechanical properties and internal pressure resistance.

21: 2022/08216. 22: 2022/07/22. 43: 2022/09/02
51: C08L

71: Guizhou Minzu University

72: Daohai Zhang, Yu Xue, Wenjing Zhang, Haichang Zhang, Xiaoyu Shang, Junzhuo Sun, Kuntian Li, Yanyan Tan, Meng Pei, Jinhui Xie, Dongmei Bao, Fang Tan

54: HIGH-PERFORMANCE HDPE/RED MUD/PHOSPHOGYPSUM COMPOSITE DRAIN PIPE AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention relates to a high-performance HDPE/red mud/phosphogypsum composite drain pipe and a preparation method thereof, and belongs to the field of green building materials. The high-performance HDPE/red mud/phosphogypsum composite drain pipe is prepared from, in parts by weight, 40-90 parts of HDPE, 10-20 parts of polycarbonate, 5-10 parts of melamine-formaldehyde resin, 10-30 parts of red mud, 10-30 parts of phosphogypsum, 5-20 parts of nano barium sulfate, 1-5 parts of hydroxyl silicone oil, 0-5 parts of silane coupling agents, 5-10 parts of compatilizer, 1-5 parts of dispersing agents, 0.1-5 parts of

antioxidants, 1-5 parts of ultraviolet absorbents, 1-5 parts of lubricants, 1-10 parts of aluminum hydroxide and 1-5 parts of heat stabilizers. The present invention further discloses a preparation method and application of the high-performance HDPE/red mud/phosphogypsum composite drain pipe. The high-performance HDPE/red mud/phosphogypsum composite drain pipe has excellent anti-aging performance, excellent interfacial compatibility, excellent mechanical properties and internal pressure resistance.

21: 2022/08217. 22: 2022/07/22. 43: 2022/09/02
51: C08L

71: Guizhou Minzu University

72: Daohai Zhang, Yu Xue, Wenjing Zhang, Haichang Zhang, Xiaoyu Shang, Junzhuo Sun, Kuntian Li, Yanyan Tan, Meng Pei, Jinhui Xie, Fang Tan, Dongmei Bao

54: POLYOLEFIN/BASO4 COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention relates to a polyolefin/BaSO₄ composite material and a preparation method and application thereof, and belongs to the field of high performance composite materials. The polyolefin/BaSO₄ composite material is prepared from, in parts by weight, 60-90 parts of polyolefin, 10-40 parts of BaSO₄, 1-5 parts of dispersing agents, 0-5 parts of silane coupling agents, 0.1-1 parts of antioxidants, and 5-10 parts of compatilizer. The present invention further discloses a preparation method and application of the polyolefin/BaSO₄ composite material. According to the polyolefin/BaSO₄ composite material and the preparation method thereof, the crystallization temperature can be increased, the crystallization rate is increased, the crystallinity is improved, and the crystal grains are refined, so that the composite material has excellent anti-aging performance, excellent interfacial compatibility and excellent mechanical properties.

21: 2022/08218. 22: 2022/07/22. 43: 2022/09/02
51: C08L

71: Guizhou Minzu University

72: Daohai Zhang, Yanyan Tan, Wenjing Zhang, Haichang Zhang, Xiaoyu Shang, Junzhuo Sun,

Kuntian Li, Meng Pei, Yu Xue, Jinhui Xie, Dongmei Bao, Fang Tan

54: SODIUM SULFATE AND HDPE COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention relates to a sodium sulfate and HDPE composite material and a preparation method and application thereof, and belongs to the field of high-performance composite materials. The sodium sulfate and HDPE composite material is prepared from, in parts by weight, 60-90 parts of HDPE, 10-40 parts of sodium sulfate, 1-5 parts of dispersing agents, 0-5 parts of silane coupling agents, 0.1-1 part of antioxidants and 5-10 parts of compatilizer. The present invention further discloses a preparation method and application of the sodium sulfate and HDPE composite material. According to the sodium sulfate and HDPE composite material and the preparation method thereof, the crystallization temperature can be raised, the crystallization rate is increased, the crystallinity is improved, and the crystal grains are refined, so that the composite material has excellent anti-aging performance, excellent interfacial compatibility and excellent mechanical properties.

21: 2022/08219. 22: 2022/07/22. 43: 2022/09/02
51: E21F

71: West China Hospital of Sichuan University

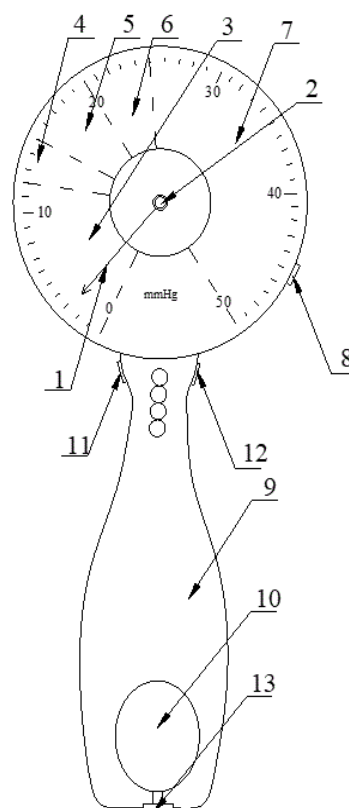
72: Yan Liu, Dihong Chen, Chunmei Wang

54: BLADDER PRESSURE MEASURING INSTRUMENT

00: -

The utility model provides a bladder pressure measuring instrument, and relates to the technical field of medical appliances. The bladder pressure measuring instrument includes a body, a dial plate is arranged on the body, and the dial plate is provided with a rotary shaft, a pointer that can rotate on the rotary shaft and a value table centered on the rotary shaft; different color areas are arranged on the dial plate along with the magnitude of values on the value table; with such arrangement, it is convenient for medical staff to view an intra-abdominal pressure value by dividing the areas on the dial plate according to colors, wherein the different color areas represent different pressure value areas, and the pressure value is reachable in whichever color area has the pointer, which facilitates people to view; and

at this moment, the medical staff only need to check the value table if they want to know the pressure value.



21: 2022/08254. 22: 2022/07/25. 43: 2022/09/02
51: F16D; F16H

71: Hebei Zhikun Precision Transmission Technology Co., Ltd.

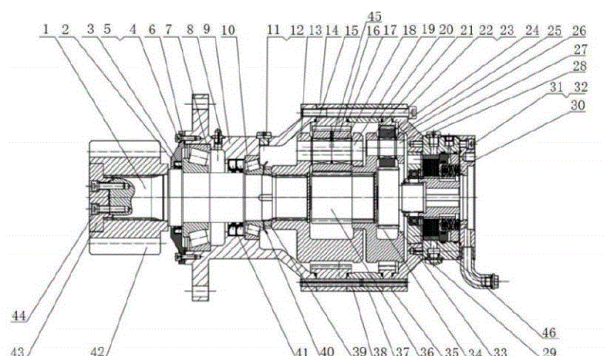
72: CHI, Shoubin, CHEN, Lili, ZHANG, Shifeng, BAO, Jinghe, GUO, Jianping, GENG, Guangbin
33: CN 31: 202210079160.4 32: 2022-01-24

54: PLANETARY REDUCER WITH HYDRAULIC BRAKE

00: -

The present invention discloses a planetary reducer with a hydraulic brake, wherein the planetary reducer is used for application fields such as rotation and rotary drilling, wherein the planetary reducer is input by an input shaft of the hydraulic brake, is decelerated by a combination of a secondary NGW type, fixed by a speed reducer housing flange, output by an output gear, the input shaft of the planetary reducer is connected to an external mechanism by a key, is decelerated by a secondary NGW type planetary transmission, and is finally output by the output gear, the speed reducer can

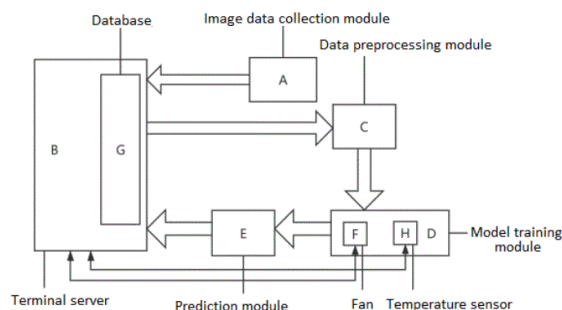
rotate in the forward and reverse directions, and the speed reducer is coupled to the outside by the hydraulic brake.



21: 2022/08256. 22: 2022/07/25. 43: 2022/09/02
51: G06K
71: China University of Geosciences, Beijing
72: Xinyue Zhang

54: AN INTERNET OF THINGS METHOD FOR COMPLEX IMAGE LABEL RECOGNITION

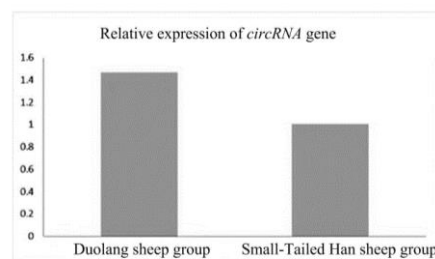
00: -
The invention designs an Internet of things method for complex image label identification, and after collecting the relevant data of some images, The system can automatically identify each tag information of the image. Taking into account the existing system in the collection of image information, there may be label deletion, generic attribute problem, label relation problem and example relationship problem. The core idea of the invention is to transform the collected data into the data based on the neighborhood consensus and the example relationship, then make use of the relationship between labels to complete the missing tags, and finally extract the generic attributes from the complete label matrix. It can effectively handle and greatly improve the accuracy of label classification.



21: 2022/08257. 22: 2022/07/25. 43: 2022/09/02
51: C12N; C12Q
71: Institute of Animal Sciences of Chinese Academy of Agricultural Sciences
72: MIAO, Xiangyang, LIU, Tianyi, FENG, Hui, XIE, Lingli, LI, Ai

54: CIRC RNA RELATED TO SHEEP FAT AND USE THEREOF

00: -
The present disclosure relates to a circRNA related to sheep fat and use thereof. Investigation of a molecular mechanism of sheep fat deposition can improve meat product quality to meet consumer demands, and avoid the wasting of feeds caused by excessive conversion into fat during stockbreeding. To discover a new circRNA related to sheep subcutaneous fat, the inventors select two representative sheep breeds with a large difference in adipopexis as subjects to screen out and identify candidate genes related to lipid metabolism based on whole transcriptome sequencing, and verification is conducted by molecular experiments. The present application lays a foundation for breeding sheep breeds.

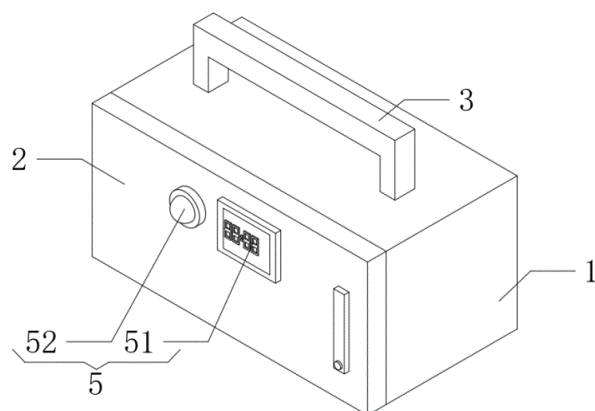


21: 2022/08258. 22: 2022/07/25. 43: 2022/09/02
51: A61L
71: Hwa Mei Hospital, University of Chinese Academy of Sciences
72: Wanquan Qu
33: CN 31: 202220081798.7 32: 2022-01-10

54: AN INSTRUMENT DISINFECTION DEVICE DESIGNED FOR ANESTHESIOLOGY DEPARTMENT

00: -

The utility model discloses an instrument disinfection device designed for department of anesthesiology, which comprises a disinfection box, a box door, a handle and an ultraviolet lamp. The utility model provides a clamping ring, and when the user needs to disinfect the anesthetic instrument, the bottled instrument can be directly put into the inner side of the clamping ring. Then turn the button to drive the clamping ring inward to clamp the bottled instrument. Then adjust the height of the placing plate according to the height of the bottle instrument, and then turn on the electromagnet to secure the placing plate. Next, a thin anesthetic instrument is placed inside the separation plate. Finally, the remaining instruments are placed on the placing plate and the ultraviolet lamp is turned on. It solves the problem that the disinfection cabinet is too large and it is installed in a fixed position. The small instruments used for anesthesia need, and after usage, it is be sent into the disinfection cabinet for unified disinfection after completion of use. When there are too many emergency operations in the hospital, it is impossible to timely disinfect and use the small anesthesia instruments on the spot, it leading to the problem that the rescue cannot be carried out in time.



21: 2022/08259. 22: 2022/07/25. 43: 2022/09/02
51: C04B

71: Beihua University

72: JIAN Zhenpeng, WANG Jian, YANG Xujiao, WANG Xianli, ZHAO Huan

54: NOVEL LIGHTWEIGHT CONCRETE WITH PURIFICATION FUNCTION AND PREPARATION METHOD THEREOF

00: -

The application relates to the technical field of energy-saving and environment-friendly building materials, and in particular to a novel lightweight concrete with purification function and a preparation method thereof. By adding foam into concrete, the concrete prepared by the application has a better pore structure, and has the advantages of light weight, good thermal insulation, sound insulation and fire resistance, good overall performance, etc.; nitrogen-doped titanium dioxide is adopted as the photocatalyst, so that the visible light response range is larger, and the utilization efficiency of sunlight is greatly improved; but also can well couple the strong adsorption capability of the foam concrete on pollutants with the capability of photocatalytic degradation of the pollutants of nitrogen doped titanium dioxide, and can effectively adsorb and degrade the pollutants; by controlling the particle size of fly ash and titanium dioxide, the surface roughness of concrete is extremely small, which avoids the problem that the conventional photocatalytic concrete is covered and accumulated by surface impurities, which leads to the reduction of photocatalytic durability. The flatness of concrete can completely meet the functional requirements of self-cleaning, greatly improve the photocatalytic durability of concrete, and has excellent self-cleaning function.

21: 2022/08260. 22: 2022/07/25. 43: 2022/09/02
51: D21C

71: AGRICULTURAL PRODUCTS PROCESSING RESEARCH INSTITUTE, CHINESE ACADEMY OF TROPICAL AGRICULTURAL SCIENCES

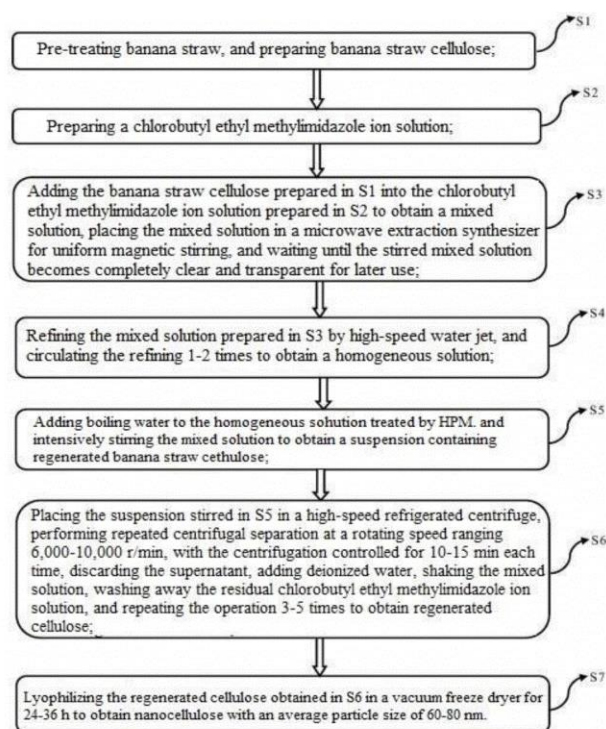
72: WANG, Fei, WANG, Hui, XI, Jiamin, ZHUANG, Zhikai, LI, Jihua, LI, Te, XIA, Wen, ZHANG, Qihui

54: METHOD FOR PREPARING BANANA STRAW NANOCELLULOSE BY HIGH-SPEED WATER JET

00: -

Provided is a method for preparing banana straw nanocellulose by high-speed water jet, including the following steps: pre-treating banana straw; preparing a chlorobutyl ethyl methylimidazole ion solution; adding banana straw cellulose into the chlorobutyl ethyl methylimidazole ion solution, stirring the mixed solution uniformly, and waiting until the mixed

solution becomes completely clear and transparent for later use; refining the mixed solution by high-speed water jet to obtain a homogeneous solution; adding boiling water to the homogeneous solution, and stirring the mixed solution to obtain a suspension; performing centrifugal separation on the suspension, discarding the supernatant, adding deionized water, and washing away the residual chlorobutyl ethyl methylimidazole ion solution to obtain regenerated cellulose; and lyophilizing the regenerated cellulose to obtain nanocellulose. The processing time is shortened, and the particle size becomes uniform. The preparation method is simple and can achieve the purpose of continuous production of nanocellulose.



21: 2022/08261. 22: 2022/07/25. 43: 2022/09/02

51: A61B

71: First Affiliated Hospital of Jinzhou Medical University

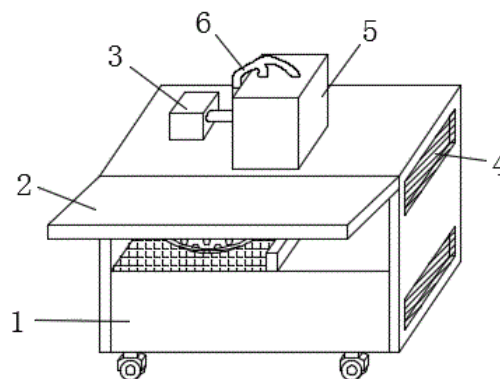
72: Wang Wei, Li Qing, Yang Tao, Wang TianYi, Wang XiMin, Ge XinYu

54: ANTEROPOSTERIOR DISINFECT AND WASHING DEVICE FOR GENERAL SURGERY DEPARTMENT

00: -

The invention provides a disinfection and washing device for general surgery before and after surgery,

which comprises a machine body, a door cover, a driving motor, an air vent, a water tank, a double-ended hose, an ultrasonic generator, a hydraulic rod, a connecting rod, a heating ring, an air blower, a clear water area, a cleaning solution area, a fixing rod, umbrella-shaped gears, water spray bodies, universal wheel hollow-out placement discs, filter screens, cross rods and a carrying platform. One end of the top of the periphery of the machine body is fixedly provided with a driving motor. In the invention, the arrangement of the ultrasonic generator is beneficial to deeply sterilizing the instrument and separating impurities on the surface of the instrument from the instrument; through the connection mode of the cross rod and the connecting rod, when the hydraulic rod is started, the connecting rod can drive the hollowed-out placing disc to move back and forth; and when the hollowed-out placing disc moves towards the direction of a lower partition plate and is contacted with the lower partition plate, The hollowed-out placing plate is integrally inclined through the rotation of the cross bar, and at this time, the instruments and tools in the hollowed-out placing plate are poured onto the placing table for drying.



21: 2022/08262. 22: 2022/07/25. 43: 2022/09/02

51: G01N

71: Shanxi road and Bridge Group Xiji Expressway Co., Ltd

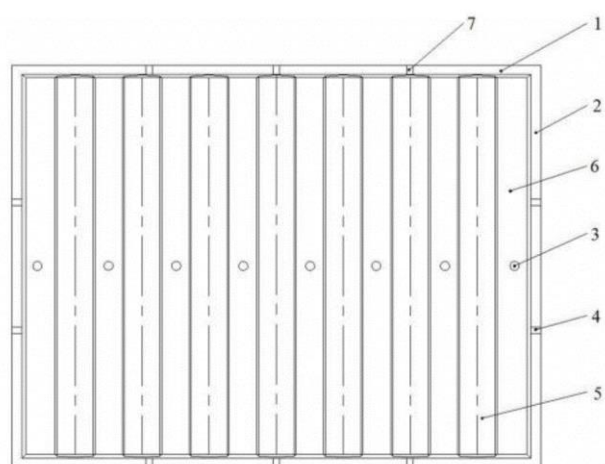
72: Meng zebin

54: TEST DEVICE FOR EARLY CRACK RESISTANCE OF CONCRETE

00: -

The invention discloses a test device for early crack resistance of concrete, which comprises a bottom

plate, two long side plates and two short side plates which surround the bottom plate, seven special-shaped crack inducers which divide the bottom plate into eight areas are uniformly installed on the bottom plate at intervals, the special-shaped crack inducers are parallel to the short side plates, and the two ends of the special-shaped inducers are respectively connected and fixed with the two long side plates; the included angle between the long side plate and the bottom plate and that between the short side plate and the bottom plate are obtuse angles; air inlets are respectively arranged in eight areas of the bottom plate. The invention patent has the advantages that the included angle between the bottom plate and the long side plate, the included angle between the bottom plate and the short side plate, and the included angle between the bottom plate and the special-shaped crack inducer are obtuse angles. The cross section of the concrete specimen molded in the test device is small at the top and large at the bottom, which makes full use of the gravity of the concrete specimen when demoulding (when the test device is inverted for demoulding) to complete demoulding without disassembling the device, thus greatly improving the working efficiency.



21: 2022/08263. 22: 2022/07/25. 43: 2022/09/02

51: A61B

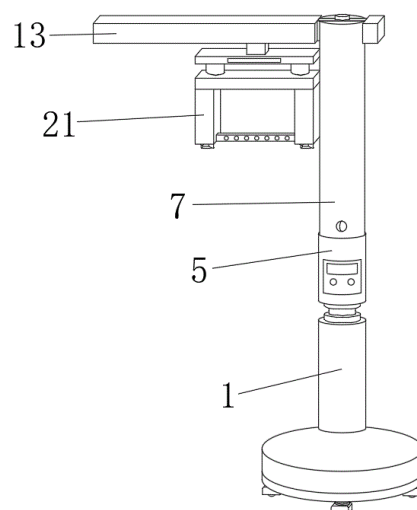
71: First Affiliated Hospital of Jinzhou Medical University

72: Wang Wei, Li Qing, Yang Tao, Wang TianYi, Wang XiMin, Ge XinYu

54: OPERATION HOOK DEVICE FOR HEPATOBILIARY SURGERY

00: -

The invention relates to the technical field of medical instruments, in particular to an operation hook device for hepatobiliary surgery, which comprises a bottom column, wherein the bottom of the bottom column is connected with a bottom ring, the bottom of the bottom ring is connected with a plurality of steering rollers, the center of the top of the bottom column is connected with an axis of rotation, the top of the axis of rotation is fixedly connected with an intermediate column, In that invention, the direction of the hook can be adjust by arranging the rotate shaft, and the connecting block can move up and down on the outer wall of the rotating first thread column by arrange the connecting mode between the first threaded column and the connecting block, By setting the connection mode between the second threaded column and the sliding block, the sliding block can move back and forth on the outer wall of the rotating second threaded column so as to play a role in adjusting the extension distance of the hook.



21: 2022/08268. 22: 2022/07/25. 43: 2022/09/02

51: B65G

71: Guizhou University

72: Lulin Zheng, Jin Xu, Hong Lan, Qing Qiu,

Ruipeng Li, Rongfang Yuan, Zhonglin Chen

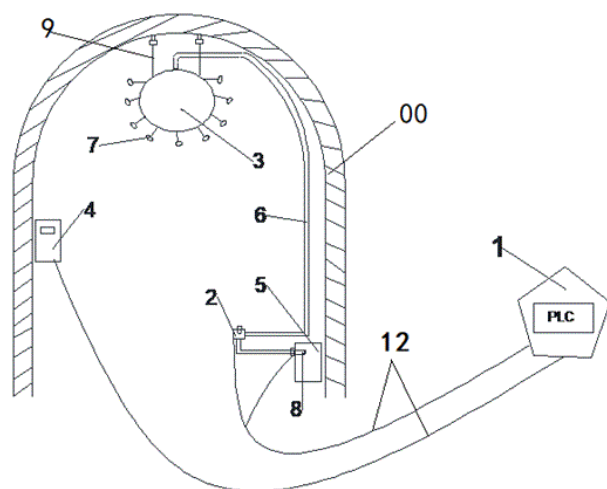
33: CN 31: 202221718179.0 32: 2022-07-04

54: A KIND OF AUTOMATIC PRESSURE - SHARING SPRAY DUST - REDUCING DEVICE IN COAL MINE

00: -

The utility model discloses an automatic pressure-sharing spray dust reduction device in coal mine,

which belongs to the technical field of mine dust removal equipment. It includes controller, detection component, high-pressure water transport component and spray component, and the spray component is set at the top of roadway. The detection component is set below the spray component, which is used to detect the dust concentration in the roadway and transport it to the controller. The high-pressure water conveying assembly connected with the bottom water bin is controlled by the controller, which can supercharge the water in the bottom water bin and then transport it to the spray assembly for spraying and dust removal in the roadway. The controller accepts the test data of the detection components in the roadway, and then sends instructions to the high-pressure water pump of the high-pressure water transport component. After the water in the bottom water tank is supercharged, it is transported to the spray component to generate micron-level water mist, so as to achieve the purpose of dust removal in the roadway. The utility model has a high degree of automation, which can realize the pressure equalization of the nozzle of the spray assembly. The dust removal effect is good, and the dust reduction efficiency is improved. The water spray dust removal in the bottom hole water bin is used to reduce the waste of water resources.



21: 2022/08301. 22: 2022/07/26. 43: 2022/09/16
51: G06F

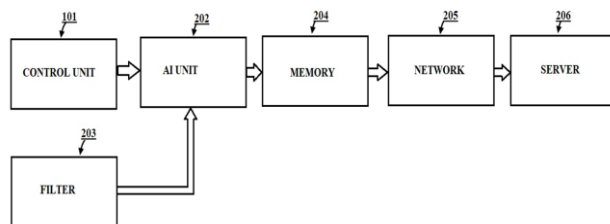
71: Mr.Shahnawaz Ahmad, Dr.Shabana Mehfuz,
Dr.Sonam Lata, Ms.Farhana Mariyam, Dr.Shabana
Urooj

72: Mr.Shahnawaz Ahmad, Dr.Shabana Mehfuz,
Dr.Sonam Lata, Ms.Farhana Mariyam, Dr.Shabana
Urooj

54: CYBER ATTACK PREVENTION SYSTEM FOR AUTOMOTIVE SYSTEM BASED ON ARTIFICIAL INTELLIGENCE

00: -

An attack prevention system for a cyber-physical automotive system based on artificial intelligence is disclosed herein. The attack prevention system includes (i) determining an attempt to the physical automotive system is whether and permit attempt or non-permit attempt, (ii) transferring the attempt signal to the microcontroller in the control unit, (iii) processing the attempt signal using the microcontroller and determining the attempt status, wherein the processing the attempt signal comprises, (iv) converting the attempt signal into binary data using the microcontroller, (v) providing the binary data with the notification key, (vi) comparing the notification key with the notification key in the server, wherein the server comprises the notification key based on the plurality of data, (vii) receiving the message response from the control unit and determine that the attempt is permit attempt or non-permit attempt, (ix) monitoring the message response from the controller and block the attempt when the attempt signal processed signal is non-permit attempt signal, (x) filtering the permit attempt or non-permit attempt and filter the attempt data from the unauthorized persons performs the unauthorized attempt, (xi) storing the non-permit attempt and permit attempt data processed in the microcontroller with the server to identify the non-permit and permit attempt access in the future.



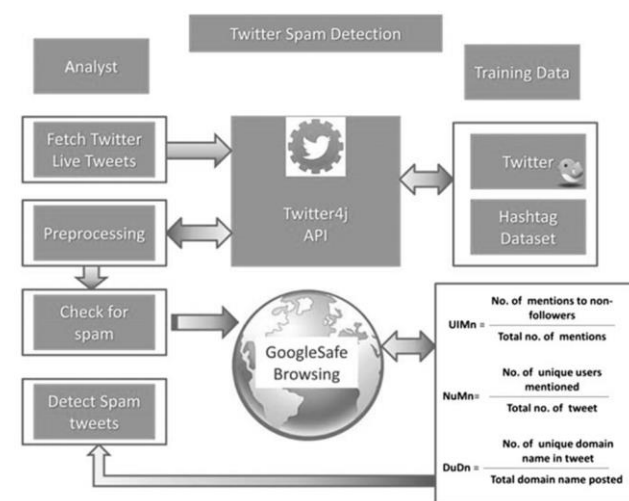
21: 2022/08302. 22: 2022/07/26. 43: 2022/09/16
51: G06F

71: DR.VISHWANATH KARAD MIT WORLD PEACE
UNIVERSITY, PANDE, Milind Sudhakar, BEDEKAR,
Mangesh Vilas, VISHWARUPE, Varad Vivek
72: PANDE, Milind Sudhakar, BEDEKAR, Mangesh
Vilas, VISHWARUPE, Varad Vivek

54: SYSTEM AND METHOD TO DETECT TWITTER SPAM USING AN INTELLIGENT HYBRID CLASSIFIER APPROACH

00: -

Twitter being one of the most widely-used social networks in the world has always been a key target for intruders. Privacy concerns, stealing of important information, and leakage of key credentials to spammers has been on the rise. In this research endeavour, we have developed an Intelligent Twitter Spam Detection System which gives precise details about spam profiles by identifying and detecting twitter spam. The said system is a hybrid approach as opposed to single-tier, single-classifier approaches which take into account some unique feature sets before analyzing the tweets and also check the links with Google Safe Browsing API for added security. This in turn leads to better tweet classification and improved as well as intelligent twitter spam detection.



21: 2022/08313. 22: 2022/07/26. 43: 2022/09/16

51: H04N

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PANDE, Milind, BEDEKAR, Mangesh Vilas, VISHWARUPE, Varad, ZAHOOOR, Saniya M

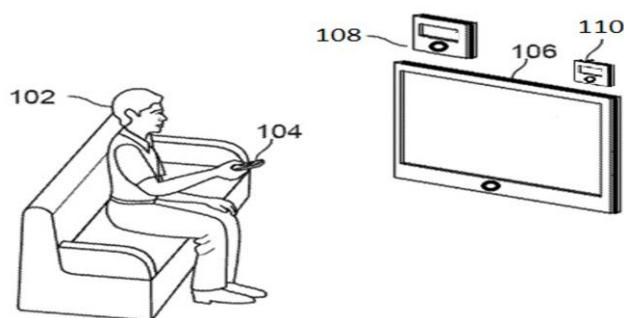
72: PANDE, Milind, BEDEKAR, Mangesh Vilas, VISHWARUPE, Varad, ZAHOOOR, Saniya M

54: SYSTEM AND METHOD FOR GENERATING AND DISPLAYING PERSONALIZED TELEVISION CONTENT

00: -

Many television viewers have a particular preference from amongst the vast channels that are streamed to them. The number of channels that an average viewer watches is a fraction and the programs that

the viewer watches on these channels are also very few. These channels and programs, if identified, give a lot of clues of the likes of the viewer. These programs watched on the respective channels, if logged, reveal a pattern about the watching pattern of the viewer. These patterns usually repeat over time and to a very high probability deduce what the viewer would watch next. Hence, there exists a need to provide a system and method that generate and display personalized television content based only on the viewer's viewing patterns learned implicitly. The present invention generally relates to personalization of television content and more specifically, to a system and method for generating and displaying personalized television content based only on the viewer's viewing patterns learned implicitly.



21: 2022/08314. 22: 2022/07/26. 43: 2022/09/16

51: G06Q

71: Mr. Anuj Kumar, Dr. Anoop Pandey, Dr. Purvi Pujari, Dr. Monika Arora, Dr. Asmat Ara Shaikh, Prof. (Dr) Rumki Bandyopadhyay, Dr. Kuldeep Bhalerao, Ms. Richa Sharma, Ms. Vinita, Ms. Neerja Anand, Dr. Shardha Purohit

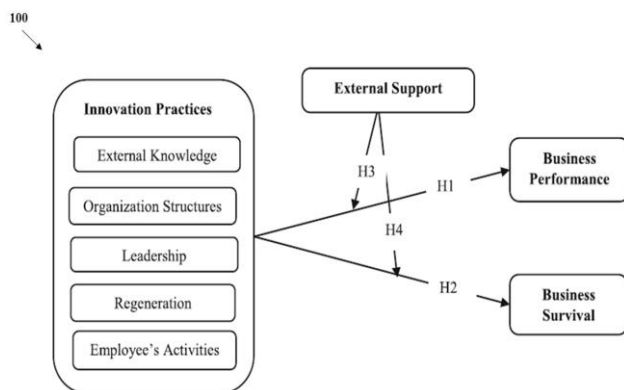
72: Mr. Anuj Kumar, Dr. Anoop Pandey, Dr. Purvi Pujari, Dr. Monika Arora, Dr. Asmat Ara Shaikh, Prof. (Dr) Rumki Bandyopadhyay, Dr. Kuldeep Bhalerao, Ms. Richa Sharma, Ms. Vinita, Ms. Neerja Anand, Dr. Shardha Purohit

54: INNOVATION PRACTICES FOR SURVIVAL OF SMALL AND MEDIUM ENTERPRISES (SMES) IN THE COVID-19

00: -

The present invention relates to a method (100) for determining innovation practices for the survival of small and medium enterprises (SMEs) in the Covid-19. The method (100) comprises a processing unit and a display unit. The method (100) develops a theoretical model to provide insights into the association between innovation practices and the

SMEs' performance and survival while underlining the auxiliary role of external support in such a relationship. The method (100) can examine the effect of external support in the relationship between SMEs' innovation practices and business performance and survival. The present invention method (100) for improving marketing and organizational innovation practices adopted by SMEs to face the threats created by the COVID-19 pandemic.



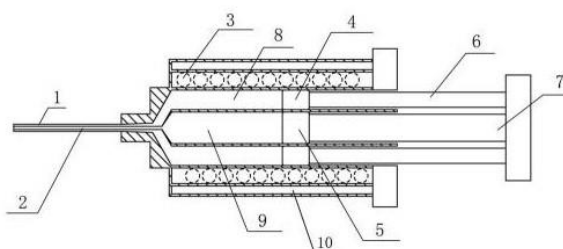
21: 2022/08316. 22: 2022/07/26. 43: 2022/09/06
51: D01D

71: HUNAN INSTITUTE OF ENGINEERING
72: HE, Bin, ZHANG, Xiaoye

54: COAXIAL INJECTION NEEDLE TUBE FOR ELECTROSTATIC SPINNING

00: -

Disclosed is a coaxial injection needle tube for electrostatic spinning, which comprises a coaxial needle head, a needle tube main body and a needle tube rod; the head is integrated with the needle tube main body; the head is provided with a core tube and a layer tube; the layer tube is arranged outside the core tube; the needle tube main body is sequentially provided with a second component cavity, a first component cavity, a heat preservation tube cavity and a heat preservation layer from inside to outside; the core tube is communicated with the second component cavity; the layer tube is communicated with the first component cavity; and the needle tube rod is arranged in the needle tube main body. By arranging the core tube and the layer tube which are coaxial, the present invention can complete an electrostatic spinning task of coaxial bicomponent or even multicomponent spinning solutions.



21: 2022/08317. 22: 2022/07/26. 43: 2022/09/06
51: A23K

71: INSTITUTE OF ANIMAL HUSBANDRY,
HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES

72: SUN, Fang, BU, Ye, XU, Shanshan, LIU, Li, ZHAO, Xiaochuan, ZHANG, Siqi, WEI, Ziheng, SUI, Xinxin, ZHAO, He

54: BREEDING METHOD FOR HOLSTEIN BULLOCKS FOR PRODUCING MARBLING BEEF 00: -

Provided is a breeding method for Holstein bullocks for producing marbling beef and relates to the technical field of bullock fattening. Bullocks begin to be fed with high nutrient diets immediately after weaning, to facilitate intramuscular fat deposition. Straight fattening of bullocks at 12 months of age to marketing at 26 months of age, 37.5% may reach Level 2, and 62.5% may reach Level 3; and for Holstein bullocks from straight fattening at 2 months of age after weaning to 15.5 months of age, each of Level 2 and Level 3 accounts for 50% respectively. For straight fattening breeding, if the Holstein bullocks are fed with high nutrient density diets, intramuscular fat deposition of the bullocks may be effectively strengthened; since the marketing months of age is only 15.5, a backfat thickness is lower than that at 26 months of age.

21: 2022/08319. 22: 2022/07/26. 43: 2022/09/06
51: A01D

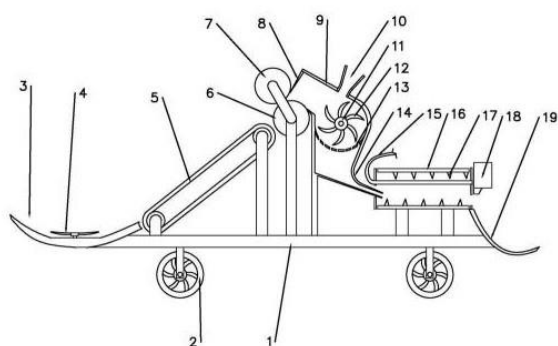
71: INSTITUTE OF TROPICAL BIOSCIENCE AND BIOTECHNOLOGY, CHINESE ACADEMY OF TROPICAL AGRICULTURAL SCIENCES

72: SUN, Haiyan

54: INTEGRATED MACHINE FOR CUTTING AND RETURNING CASSAVA STALKS TO FIELD 00: -

Disclosed is an integrated machine for cutting and returning cassava stalks to a field, comprising a

frame, a harvesting device, a crushing device comprises a crushing box and crushing mechanism, a mixing device comprising a mixing cylinder provided with a spiral material transfer edge and a spray pipe and a bacterial liquid tank and a returning-to-field and spreading device comprising an air pump and a spreading plate with diversion ribs. The device comprises a harvesting platform and a conveying device; a feeding pipe, a squeezing roller arranged and a feeding port; a rear sealing plate is provided with a discharge port; the spreading plate has as an upturned curved arc structure. The machine is used for harvesting and crushing stalks, mixing with bacterial liquid and spreading and returning to the field, which can make the stalks rot quickly, effectively reduce soil bulk density, increase porosity and improve properties of soil.



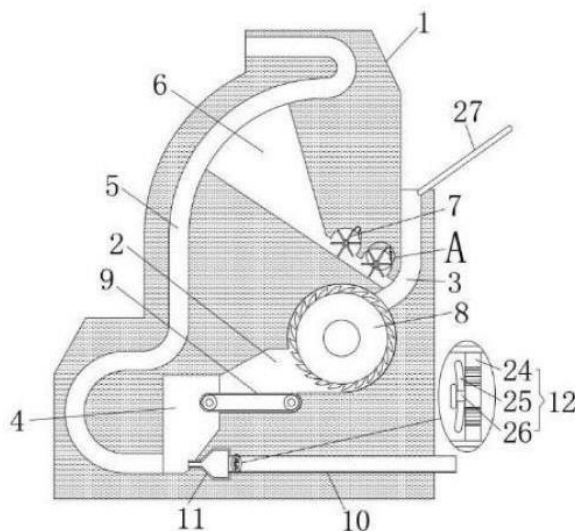
21: 2022/08355. 22: 2022/07/26. 43: 2022/09/06
51: A22C
71: SHANDONG ANIMAL HUSBANDRY STATION
72: ZHANG, Demin, LI, Mengmeng, LIU, Yuhan, BAI, Shanshan, JIANG, Huixin, ZHANG, Shuer, HU, Hongjie

54: MANUFACTURING DEVICE OF SILAGE FODDER SPECIAL FOR MEAT-TYPE DONKEYS AND PREPARATION METHOD THEREOF

00: -

Disclosed is a manufacturing device of silage fodders for donkey meat, comprising; an upper end of a processing cavity which is communicated with a material injection plate cavity, a storage cavity, a discharge plate cavity and an aggregation cavity are formed in the machine base; a lower end of the processing cavity is communicated with the storage cavity; and one side of the storage cavity is communicated with the discharge plate cavity. Further disclosed is a preparation method of silage

fodders, comprising: having material slide via the material injection plate cavity to the processing cavity; cutting the materials into fine particles by a rotating cutting wheel between the processing cavity and the injection plate cavity; making the materials fall onto a conveyor belt which conveys the materials to the storage cavity. Too large or heavy particles are returned through the material injection plate cavity for secondary cutting.



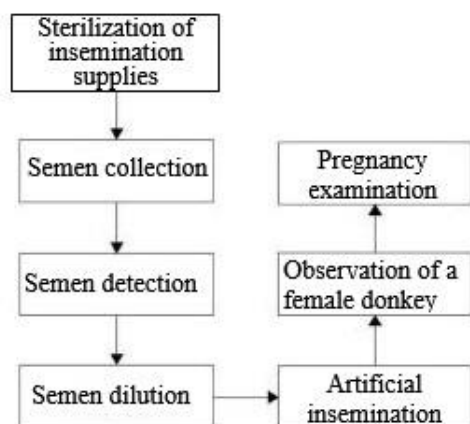
21: 2022/08356. 22: 2022/07/26. 43: 2022/09/06
51: A61G
71: SHANDONG ANIMAL HUSBANDRY STATION
72: ZHANG, Demin, LI, Mengmeng, LIU, Yuhan, BAI, Shanshan, JIANG, Huixin, ZHANG, Shuer, HU, Hongjie

54: ARTIFICIAL INSEMINATION METHOD FOR IMPROVING CONCEPTION RATE OF FEMALE DONKEY

00: -

Disclosed is an artificial insemination method for improving a conception rate of a female donkey, comprising: cleaning and sterilization of insemination supplies and instruments used for artificial insemination in a sterile environment for later use; collecting semen of a male donkey using a false vagina, filtering the semen into a collection cup by using gauze to remove jelly in the semen, identifying whether the color of the semen is normal by the naked eye; dropping a drop of the filtered semen on a glass slide, observing sperm activities with a microscope; semen dilution; artificial insemination; observation of a female donkey; pregnancy

examination. During artificial insemination, a follicle of the female donkey is detected by portable B ultrasonography; a development status of the follicle is identified by the size thereof, so that accuracy of identification of follicle development maturation and a conception rate of the female donkey is improved.



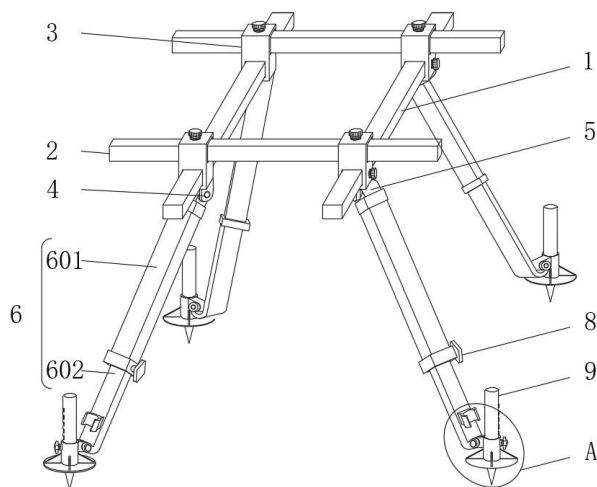
21: 2022/08358. 22: 2022/07/27. 43: 2022/09/06
 51: A01G
 71: SHAANXI ACADEMY OF FORESTRY SCIENCES
 72: GAO, Rong, SHI, Changchun, LI, Jian, CAO, Qingxi, MA, Cunping, LI, Rong, CAO, Shuangcheng, LIU, Xidong, JIA, Yanmei, SUN, Jingyu, LIU, Donglin, GAO, Tianjian, LIU, Xiaoli, MA, Bo, FENG, Na, QI, Kun, JIANG, Jinyu, DONG, Qiang, ZHAO, Fei, MA, Xiaoxia, ZHANG, Maifang

54: SEEDLING SUPPORTING DEVICE FOR ARTIFICIALLY PROMOTING NATURAL REGENERATION OF PINUS SYLVESTRIS

00: -

Disclosed is a seedling supporting device for artificially promoting natural regeneration of *Pinus sylvestris*, comprising two longitudinal clamping bars, two transverse clamping bars, clamping bar connecting seats, inclined support bars and insertion bars; by arranging the two longitudinal clamping bars, the two transverse clamping bars and the four clamping bar connecting seats, commonly form a clamping frame; the size of the rectangular clamping frame can be adjusted according to the thickness of a *Pinus sylvestris* seedling, to adaptively support seedlings with different thicknesses. Each inclined support bar is formed by an outer bar cylinder and an inner bar body which commonly form a telescopic

bar body structure, so that the height of the device can be conveniently adjusted by an operator according to the height of the supported seedling, so as to adapt to the needs of supporting for the seedlings with different heights.



21: 2022/08359. 22: 2022/07/27. 43: 2022/09/16
 51: G16H
 71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, BOBADE, Chandrashekhar Digambar, JOGLEKAR, Shriram, RANE, Anish Shrikrishna, APTE, Nishant Prasad
 72: BOBADE, Chandrashekhar Digambar, JOGLEKAR, Shriram, RANE, Anish Shrikrishna, APTE, Nishant Prasad

54: A MEDICINE STORAGE BOX

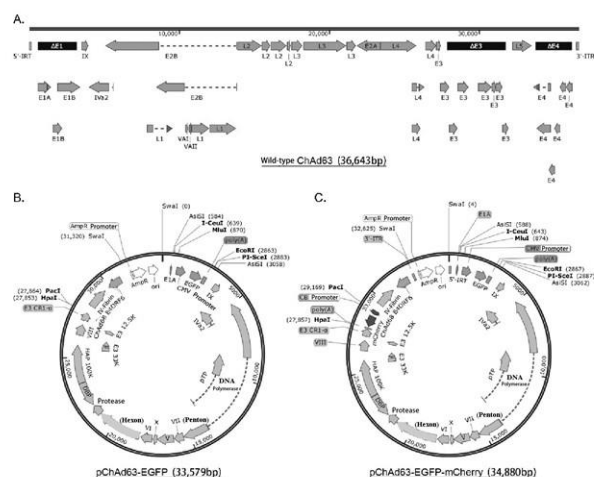
00: -

The invention relates to a medicine storage box. The medicine box consists of two layers- the inner layer made up of bamboo wood and the outer layer will be made up of earthen soil. Only some amount of water is needed to be sprinkled on the outer layer so that the box gets cooled due to evaporation effect. The inner layer will be impermeable and thermostable.

21: 2022/08391. 22: 2022/07/26. 43: 2022/09/06
 51: C07K; C12N
 71: IMMUNE-PATH BIOTECHNOLOGY (SUZHOU) CO., LTD.
 72: LIU, Lin, CAO, Yufeng, TIAN, Wenli, ZHANG, Zhi, SHI, Li
 33: CN 31: 202010017112.3 32: 2020-01-08
54: EXPRESSION VECTOR BASED ON CHIMPANZEE CHAD63-TYPE ADENOVIRUS AND CONSTRUCTION METHOD THEREOF

00: -

A method for constructing an expression vector based on chimpanzee ChAd 63-type adenovirus is provided. In this method, wild-type chimpanzee ChAd 63-type adenovirus is used to construct a vector capable of expressing exogenous genes, and a chimpanzee ChAd 63-type adenovirus vector is provided for the research and development of novel adenovirus vector-related products as well as for biomedical basic research thereof. Meanwhile, a novel method for constructing an adenovirus vector from scratch is provided. This method is simple and precise, and has the advantages of controllable quality and cost, shorter time, lower sequence mutation risk and no need to acquire wild-type strains in advance, thereby achieving universal applicability.



21: 2022/08502. 22: 2022/07/29. 43: 2022/09/06

51: A01H

71: RESEARCH INSTITUTE OF SUBTROPICAL FORESTRY, CHINESE ACADEMY OF FORESTRY

72: XU, Yang, GONG, Bangchu, WU, Kaiyun, YANG, Xu, LIU, Cuiyu

54: SELECTION METHOD FOR COMPATIBLE ROOTSTOCK SEEDS FOR SWEET PERSIMMON

00: -

Disclosed is a selection method for compatible rootstock seeds for sweet persimmon comprising: collecting and growing different *Diospyros L.* (DL) seedlings; grafting 'Fuyu' persimmon varieties on the seedlings, setting up rootstock-scion combinations; observing and recording graft compatibility thereof, screening compatible rootstock species of the persimmon as *Diospyros kaki* var. *silvestris* Mak.

(DK). Collecting, screening and obtaining a high-breeding-ability DK material female parent and conducting breeding to obtain progenies of half-sib families of the "seed orchard" with progeny materials of the half-sib families of the "seed orchard" as rootstocks, grafting the 'Fuyu' and 'Taishuu' persimmon varieties, and setting up rootstock-scion combinations; conducting progeny determination through graft compatibility indexes of the rootstock-scion combinations, screening a compatible rootstock DK family, conducting recurrent selection for a family female parent. Establishing a first-generation seed orchard by using the selected family female parent, and conducting scale breeding to obtain compatible rootstocks of the persimmon.

21: 2022/08503. 22: 2022/07/29. 43: 2022/09/06

51: A01K

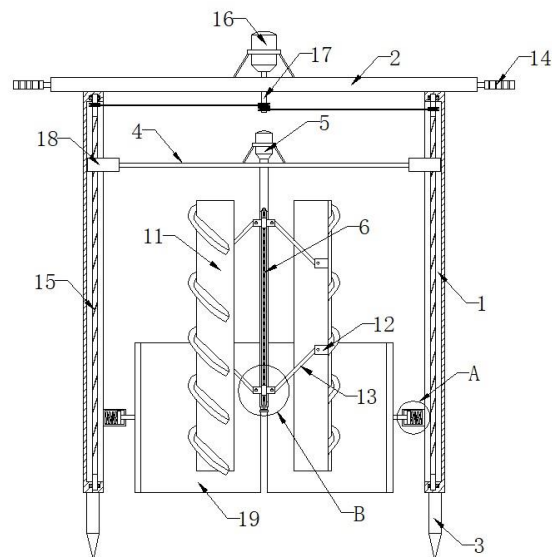
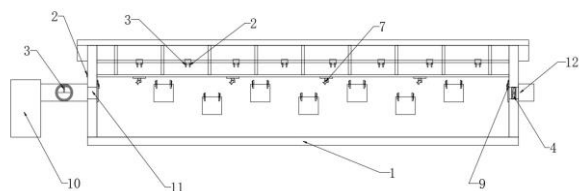
71: INSTITUTE OF ANIMAL HUSBANDRY, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES

72: ZHAO, Xiuhua, YUE, Shan, SUN, Jinyan, PENG, Fugang, LI, Manyu, LIU, Guojun

54: INTELLIGENT ENVIRONMENTAL CONTROL APPARATUS FOR GOOSE HOUSE AND APPLICATION METHOD THEREOF

00: -

Disclosed is an intelligent environmental control apparatus for the goose house including a goose house and a controller; temperature and humidity sensors are installed in the house and are equidistantly arranged; a body of the house is provided with an air vent and an exhaust outlet; a fan and a heating apparatus are installed in a cavity of the air vent; a sterilizing apparatus is installed in an inner cavity of one exhaust outlet and includes an ultraviolet lamp and a titanium dioxide plate; the right side of the sterilizing apparatus is provided with a humidity sensor; the apparatus deactivates and decomposes microorganisms in waste gas exhausted by the sterilizing apparatus; the decomposed microorganisms may increase the air humidity in the waste gas, the content of microorganisms is judged according to the amount of the air humidity, and the fan can be switched on in time to ventilate the house.



21: 2022/08506. 22: 2022/07/29. 43: 2022/09/06

51: A01G

71: SHAANXI ACADEMY OF FORESTRY SCIENCES

72: HAO, Xinzong, SHI, Changchun, GAO, Zhenliang, GAO, Rong, ZHAO, Fei, ZHANG, Ruili, LI, Jian, MA, Yali, QIAO, Yina

54: ECOLOGICAL VEGETATION RESTORATION-PLANTING INTEGRATED RESTORATION EQUIPMENT OF COAL MINING SUBSIDENCE AREA

00: -

The present invention relates to vegetation restoration and restoration equipment of a coal mining subsidence area, comprising two supporting plates; a transverse plate is arranged at the upper ends of the two supporting plates commonly; an insertion rod is fixed on the lower side wall of each supporting plate; a moving plate is arranged between the supporting plates by a lifting mechanism; a motor is fixedly arranged on the upper side wall of the transverse plate by a mounting frame; a rotating rod is fixedly arranged at an output end of the motor; a cavity is formed in the rotating rod; a two-way screw rod is longitudinally and rotatably arranged in the cavity; and a rotating block is arranged at the lower end of the screw rod. A distance between two digging plates is adjustable when planting and digging for trees with different rhizomes.

21: 2022/08581. 22: 2022/08/01. 43: 2022/09/15

51: H04L

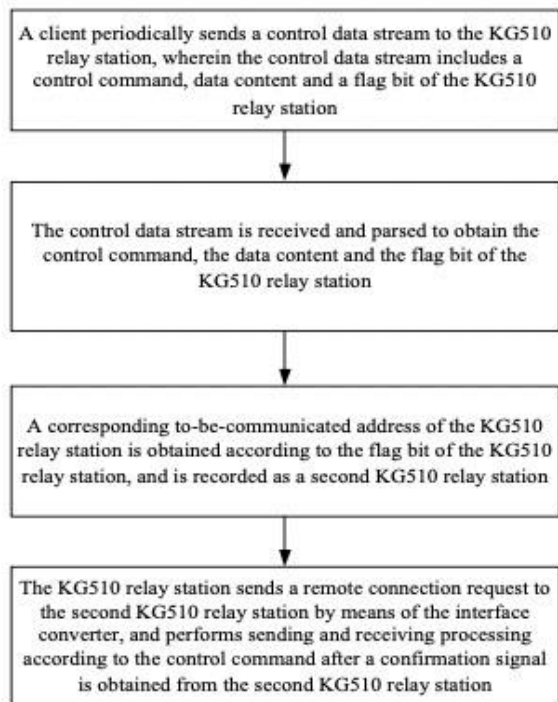
71: JIMEI UNIVERSITY

72: DU, Yong, ZHENG, Wenjie, XU, Chujie, YUAN, Zhansheng, HONG, Weixin, TANG, Xinyi, OUCHEN, Jianing, JIANG, Jingxia, LI, Tiejun

54: COMMUNICATION METHOD OF INTERFACE CONVERTER BASED ON KG510 RELAY STATION

00: -

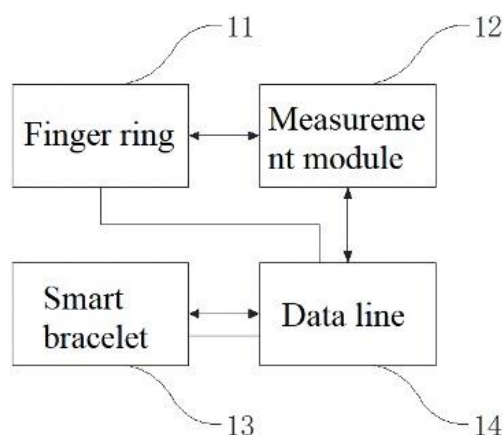
Disclosed in the present disclosure is a communication method of an interface converter based on a KG510 relay station, wherein the interface converter is a 25-pin interface converter and is responsible for outputting and converting all signals of the KG510 relay station; and the communication method of the interface converter includes: step 1, a client periodically sending a control data stream to the KG510 relay station, wherein the control data stream includes a control command, data content and a flag bit of the KG510 relay station; and step 2, receiving the control data stream, parsing the control data stream to obtain the control command, the data content and the flag bit of the KG510 relay station.



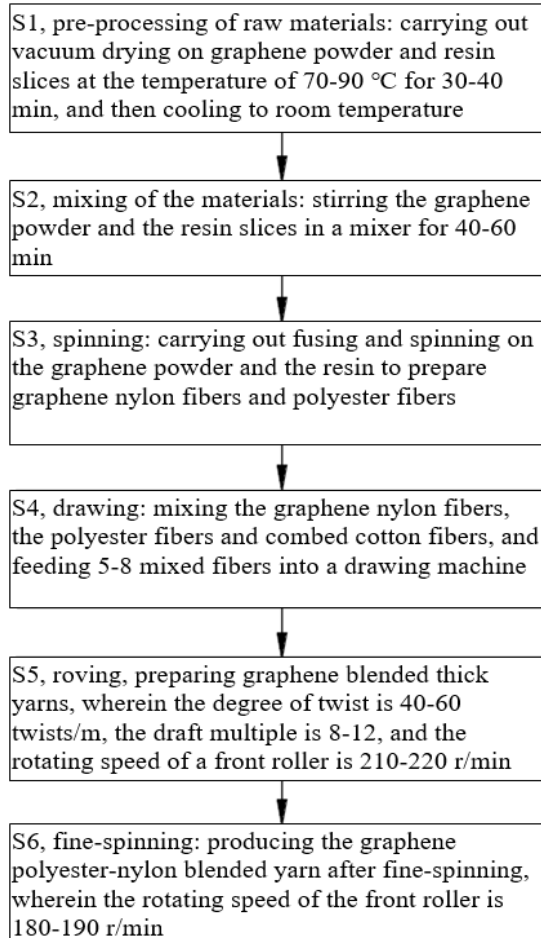
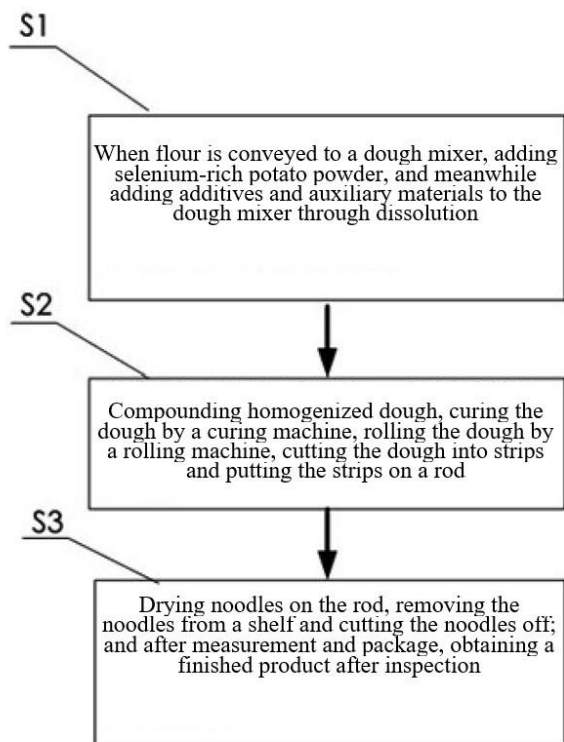
21: 2022/08618. 22: 2022/08/02. 43: 2022/09/15
 51: A61B
 71: THE FIRST AFFILIATED HOSPITAL OF ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY (HUAINAN FIRST PEOPLE'S HOSPITAL)
 72: CAI, Fulin, CHEN, Xiufeng, ZHANG, Mei, XUE, Sheng
54: MEASUREMENT DEVICE AND MEASUREMENT SYSTEM FOR PERCUTANEOUS OXYGEN SATURATION, AND METHOD FOR USING MEASUREMENT SYSTEM
 00: -

Disclosed is a measurement device for percutaneous oxygen saturation. The device includes: a finger ring used for sleeving a knuckle of a human body; a measurement module used for being tightly attached to a surface of the knuckle and measuring the percutaneous oxygen saturation of the human body; a smart bracelet used for being bound around a wrist of the human body, and in a communication connection with a remote terminal; and a data line electrically connected to the measurement module and the smart bracelet; where the smart bracelet is used for obtaining and displaying the percutaneous oxygen saturation and transmitting the obtained percutaneous oxygen saturation to the remote terminal. The device realizes real-time measurement and continuous monitoring on the percutaneous oxygen saturation of

a miner, so that life safety of the miner is effectively prevented from being threatened by insufficient oxygen supply in an accident.



21: 2022/08620. 22: 2022/08/02. 43: 2022/09/06
 51: A23L
 71: ZHENGPING COUNTY SELENIUM SOURCE FOOD CO., LTD.
 72: ZHANG, Ligui
54: PRODUCTION METHOD OF SELENIUM-RICH POTATO NOODLES
 00: -
 Disclosed is a production method of selenium-rich potato noodles, which comprises the following steps: when flour is conveyed to a dough mixer, adding selenium-rich potato powder, meanwhile adding additives and auxiliary materials to the dough mixer through dissolution; compounding homogenized dough, curing the dough by a curing machine, rolling the dough by a rolling machine, cutting the dough into strips and putting the strips on a rod; drying noodles on the rod, removing the noodles from a shelf and cutting the noodles off; after measurement and package, obtaining a finished product after inspection. The mountainous selenium-rich potato noodle product is white, jade-moist, even and thin, tastes fresh, smooth, tender, elastic and chewy after being cooked, suitable for all ages, and has nutritional and health care functions of cancer resistance, oxidation resistance, aging resistance, detoxification, beautifying and weight loss, eyesight protection and improvement of human immunity after long-term eating.

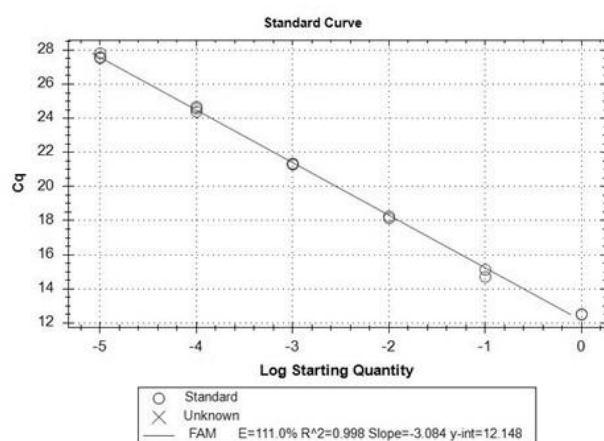


21: 2022/08621. 22: 2022/08/02. 43: 2022/09/01
 51: D01D; D02J
 71: WEIFANG BUSINESS VOCATIONAL COLLEGE
 72: JIA, Dewei, HAO, Baomin
54: PREPARATION METHOD OF GRAPHENE POLYESTER-NYLON BLENDED YARN
 00: -

The present invention relates to a preparation method of a graphene polyester-nylon blended yarn, which relates to the technical field of production of functional fibers. A technique comprises: mixing graphene nylon fibers, polyester fibers and cotton fibers in a bale arrangement manner according to a certain proportion, wherein the proportion is: 30%-50% of the graphene nylon fibers, 20%-30% of the polyester fibers and 20%-50% of the combed cotton fibers, and the flow comprises spinning, drawing, roving and fine-spinning. The preparation method is used for preparing a graphene polyester-nylon blended fiber, is short in technological process and simple in preparation and has excellent bacteria resistance and bacteriostasis properties and anti-static property.

21: 2022/08715. 22: 2022/08/04. 43: 2022/09/06
 51: C12Q
 71: ZHEJIANG ACADEMY OF SCIENCE & TECHNOLOGY FOR INSPECTION & QUARANTINE, JINHUA PLANT PROTECTION STATION, HANGZHOU AGRICULTURE TECHNOLOGY EXTENSION CENTER, ZHENGZHOU CUSTOMS TECHNOLOGY CENTER, GONGBEI CUSTOMS TECHNOLOGY CENTER
 72: WU, Zhiyi, LI, Yuehong, DANG, Zhihao, ZHANG, Lili, HUANG, Fang, FANG, Wenyan, TIAN, Hongwei, TANG, Huiji, XU, Miaofeng, REN, Yan
54: PRIMERS, PROBE, KIT AND METHOD FOR qPCR DETECTION OF PHENACOCOCCUS MANIHOTI
 00: -
 The present invention belongs to the technical field of real-time fluorescence quantitative PCR (qPCR) detection of *Phenacoccus manihoti*, and particularly relates to primers, probe, kit and method for qPCR detection of *Phenacoccus manihoti*. The present

invention discloses primers, s probe and kit for qPCR detection of *Phenacoccus manihoti*, wherein the kit comprises primers, probe, template, negative sample and premix. The present invention further discloses a method for qPCR detection of *Phenacoccus manihoti*, wherein qPCR detection steps comprise: extracting DNA of a sample to be detected; preparing a reaction system; constructing recombinant plasmids; conducting qPCR amplification on the sample to be detected, plasmid sample, positive control sample and negative control sample using the primers and probe; plotting standard curves; and calculating a result.



21: 2022/08793. 22: 2022/08/04. 43: 2022/09/06
 51: A01G

71: INSTITUTE OF PLANT NUTRITION AND RESOURCES, HENAN ACADEMY OF AGRICULTURAL SCIENCES

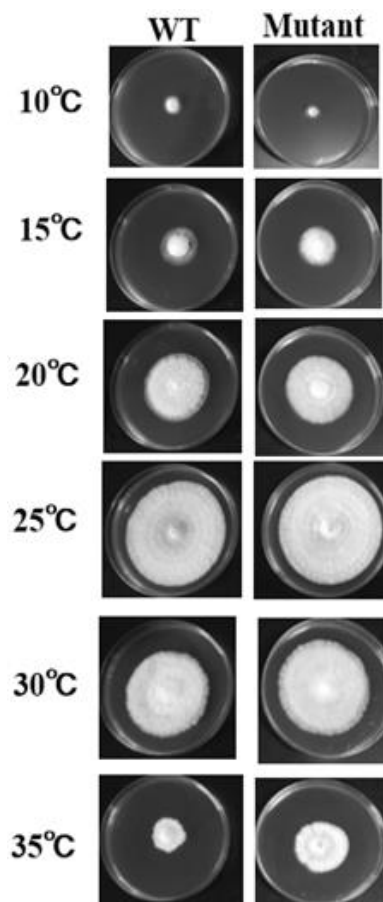
72: CUI, Xiao, KONG, Weili, LIU, Qin, ZHANG, Yuting, ZHANG, Zuofang, WANG, Yanpo, HU, Sujuan

54: APPLICATION OF IAA-PO1 GENE IN INDUCING FORMATION OF PRIMORDIUM OF OYSTER MUSHROOMS AND IN STRESS RESISTANCE OF GROWTH AND DEVELOPMENT OF OYSTER MUSHROOMS

00: -

The present invention discloses an application of an IAA-PO1 gene in inducing formation of a primordium of oyster mushrooms and in stress resistance of growth and development of the oyster mushrooms and belongs to the technical field of genetic engineering. In the application of the IAA-PO1 gene in inducing formation of the primordium of the oyster mushrooms and in the stress resistance of growth and development of the oyster mushrooms disclosed

by the present invention, the IAA-PO1 gene induces the primordium of the oyster mushrooms to be formed in advance; and the IAA-PO1 gene participates in regulating temperature stress, oxidative stress and acid-alkaline stress in the growth process of the oyster mushrooms and is related to the integrity of cell walls of the oyster mushrooms.



21: 2022/08839. 22: 2022/08/08. 43: 2022/09/15
 51: A61P

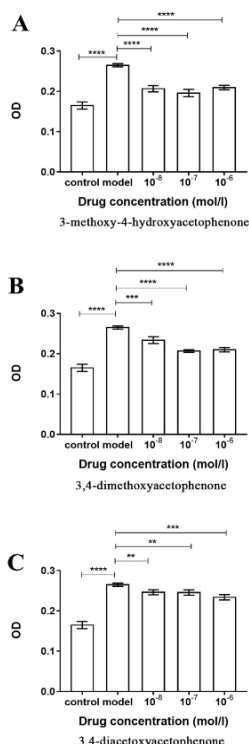
71: WEIFANG MEDICAL UNIVERSITY
 72: ZHANG, Daijuan, LIU, Jiangyue, LI, Wentao, LIU, Dongmei, ZHANG, Lan'e, GUO, Juntang, WANG, Yunhan, CAO, Daihong

54: APPLICATION OF 3,4-DIHYDROXYACETOPHENONE DERIVATIVE IN PREPARATION OF LIPID-LOWERING DRUG

00: -

The present invention provides an application of a 3,4-dihydroxyacetophenone derivative in preparation of a lipid-lowering drug, and belongs to the technical

field of lipid-lowering drugs. The present invention verifies that three new derivatives have the apparent lipid-lowering effects by establishing a foam cell model, administering a drug to foam cells, and testing and detecting the content of total cholesterol and triglyceride in the cells by oil red O staining and glucose oxidase-peroxidase (GOD-PAP) methods. While a methyl thiazolyl tetrazolium (MTT) method is used to detect the effect of the 3,4-dihydroxyacetophenone derivative on the activity of RAW264.7 cells, it shows that it has no effect on cell proliferation.



21: 2022/08965. 22: 2022/08/11. 43: 2022/09/01
51: C12Q
71: ZHEJIANG ACADEMY OF SCIENCE & TECHNOLOGY FOR INSPECTION & QUARANTINE, HANGZHOU XIAOSHAN AIRPORT CUSTOMS, JINHUA PLANT PROTECTION STATION, GONGBEI CUSTOMS TECHNOLOGY CENTER, ZHENGZHOU CUSTOMS TECHNOLOGY CENTER
72: WU, Zhiyi, FAN, Ling, LI, Yuehong, XU, Miaofeng, CHEN, Pengcheng, HUANG, Fang, TANG, Huiji, DANG, Zhihao, CHENG, Fan, FANG, Wenyan, TIAN, Hongwei, REN, Yan
54: PRIMERS, PROBE, KIT AND METHOD FOR QPCR DETECTION OF PHENACOCOCCUS MADEIRENSIS

00: -

The present invention belongs to the technical field of real-time fluorescence quantitative PCR (qPCR) detection of *Phenacoccus madeirensis*, and particularly relates to primers, probe, kit and method for qPCR detection of *Phenacoccus madeirensis*. The present invention provides primers, probe, kit and method for qPCR detection of *Phenacoccus madeirensis*, and has the characteristics of high specificity and high sensitivity. Further provided for is a method for qPCR detection of *Phenacoccus madeirensis*, wherein qPCR detection steps comprise: Extracting DNA of a sample to be detected; preparing a reaction system; constructing recombinant plasmids; conducting qPCR amplification on the sample to be detected, plasmid sample, positive control sample and negative control sample using the primers and probe; plotting standard curves; and calculating a result.



21: 2022/09156. 22: 2022/08/16. 43: 2022/09/06
51: A23K
71: INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES
72: HE, Xinmiao, WU, Saihui, YU, Xiaolong, WANG, Wentao, FENG, Yanzhong, LIU, Ziguang, TIAN, Ming, CHEN, Heshu, LIU, Di
54: METHOD FOR PRODUCING MIN PIG FEED BY FERMENTING HIGH-MOISTURE CORN
00: -

The present invention discloses a method for producing Min pig feed by fermenting high-moisture corn. After silage fermentation, corn seeds containing 25-40% moisture are mixed with forage according to a weight part ratio of 1:5-10 to prepare Min pig feed. According to the present invention, Min pig feed can be obtained in a short time; mildew of the high-moisture corn can be effectively inhibited; the feed with a special fragrance and high quality can be obtained; and meanwhile, the feed has strong palatability and can be better absorbed, thereby effectively increasing weights of Min pigs, shortening a slaughter period and improving quality of Min pig pork.

21: 2022/09309. 22: 2022/08/19. 43: 2022/09/01
51: A23K

71: INSTITUTE OF ANIMAL HUSBANDRY OF
HEILONGJIANG ACADEMY OF AGRICULTURAL
SCIENCES

72: SUN, Jinyan, PENG, Fugang, ZHAO, Xiuhua, LI,
Zhongqiu, YUE, Shan, LIU, Guojun, JIN, Zhenhua

54: ACTIVE PROBIOTIC FEED ADDITIVE

00: -

The present invention relates to an active probiotic feed additive. In recent years, use of antibiotics, hormones, preservatives and other drugs in feed has effectively prevented occurrence of epidemic diseases of livestock and poultry, and brought great benefits to the breeding industry of livestock, poultry and aquatic products. However, extensive use of the drugs has seriously affected the quality of livestock and aquatic products. The present invention comprises the following components: molasses, probiotic compound bacteria, lysine, compound trace elements, compound vitamins, a fermentation starter and water; and weight parts are: 10 parts of molasses, 10 parts of probiotic compound bacteria strains, 0.1 part of lysine, 0.15 part of compound trace elements, 0.05 part of compound vitamins, 0.01 part of fermentation starter and 79.69 parts of water. The present invention is used as a feed additive.

21: 2022/09310. 22: 2022/08/19. 43: 2022/09/01
51: C07K

71: INSTITUTE OF ANIMAL HUSBANDRY OF
HEILONGJIANG ACADEMY OF AGRICULTURAL
SCIENCES

72: SUN, Jinyan, PENG, Fugang, LI, Zhongqiu,
ZHAO, Xiuhua, YUE, Shan, LIU, Guojun, JIN,
Zhenhua

**54: METHOD FOR EXTRACTING AVIAN
INFLUENZA EGG YOLK ANTIBODIES**

00: -

Disclosed is a method for extracting avian influenza egg yolk antibodies (IgY), and relates to a method for extracting avian influenza IgY, to solve the problems of complicated steps, high cost, low antibody titer, low antibody purity and poor treatment effect of an existing IgY extraction method. The method comprises: immunizing healthy hens with an avian influenza H5H9 bivalent inactivated vaccine, and collecting eggs, that is, immunized eggs; separating egg yolk from the immunized eggs,

adding normal saline into the egg yolk, and stirring uniformly to obtain egg yolk liquid; adding potassium iodate while stirring; stirring uniformly, standing, and centrifuging until no liquid flows out to obtain IgY; and diluting the IgY with normal saline containing dandelion flavonoid, and filtering to complete extraction of avian influenza IgY. The method has simple operation, low cost, high antibody titer, high purity, and good treatment effect on avian influenza.

21: 2022/09311. 22: 2022/08/19. 43: 2022/09/01
51: G01N

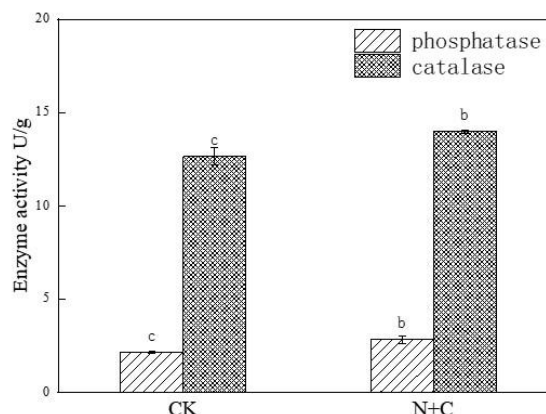
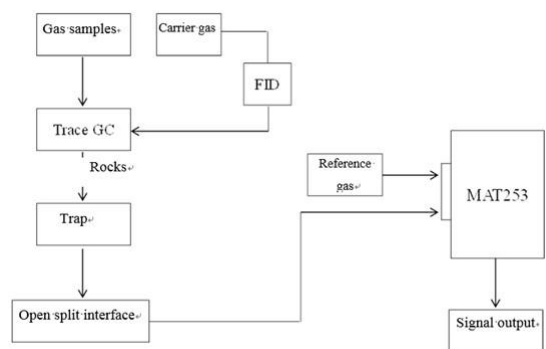
71: INSTITUTE OF HYDROGEOLOGY AND
ENVIRONMENTAL GEOLOGY, CHINESE
ACADEMY OF GEOLOGICAL SCIENCES

72: LIU, Jun, LIU, Fuliang, SU, Aina

**54: MASS SPECTROMETRY METHOD FOR
DETERMINATION OF CHLORIDE STABLE
ISOTOPES IN GROUNDWATER BASED ON GC
INJECTION**

00: -

The invention relates to the technical field of mass spectrometry for isotope, in particular, to a mass spectrometry method for determination of chloride stable isotopes in groundwater based on GC (gas chromatography) injection. In the invention, in view of the chemical property that chloromethane itself is volatile and the characteristics that chloromethane is in a liquid state at normal temperature and pressure, by selecting an injection way of injecting through the gas path and injecting a reference gas through the injection path of the dual-inlet system, an improvement method for a mass spectrometry for chloride stable isotopes in groundwater is proposed, which effectively reduces the loss of chloromethane during the reaction and the test while solving the problem that mass spectrometry peaks of the online test cannot appear when a pressure of the reference gas is low so that better testing results can be obtained.



21: 2022/09412. 22: 2022/08/23. 43: 2022/09/01
51: B09C

71: CENTRAL SOUTH UNIVERSITY OF FORESTRY & TECHNOLOGY

72: SU, Rongkui, CHEN, Yonghua, LUO, Yiting, OU, Qiqi, LIU, Jun

54: METHOD FOR PROMOTING RECOVERY OF PB-ZN MINERAL PLANTS BY ORGANIC-INORGANIC COMPOSITE CONDITIONER

00: -

The present invention discloses a method for promoting recovery of Pb-Zn mineral plants by an organic-inorganic composite conditioner, which comprises the following steps: 1) selecting peat soil and calcium carbonate, grinding and crushing; 2) mixing and evenly stirring the peat soil and calcium carbonate according to a mass ratio of 2:1-1:2 to obtain a composite conditioner; 3) adding the composite conditioner into heavy metal contaminated soil, plowing repeatedly and evenly, and fully mixing the heavy metal contaminated soil to obtain mixed heavy metal contaminated soil; and 4) selecting fast-growing woody plants with heavy metal tolerance, planting in the mixed heavy metal contaminated soil, and plowing the soil regularly.

21: 2022/09415. 22: 2022/08/23. 43: 2022/09/05
51: G06F

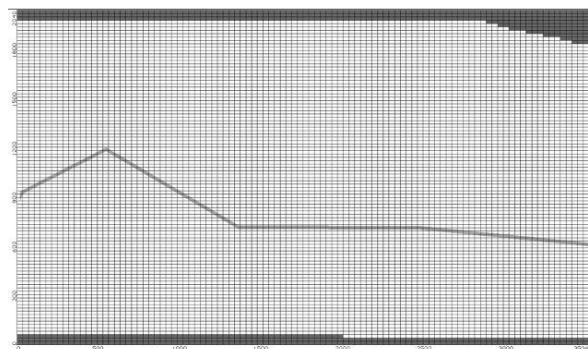
71: BEIJING NORMAL UNIVERSITY

72: YUE, Weifeng, TENG, Yanguo, NI, Baofeng, ZUO, Rui, ZHAI, Yuanzheng

54: A NUMERICAL MODELING METHOD FOR INFILTRATION GALLERY OF RIVERBANK WATER SOURCES

00: -

The embodiment of the present invention proposes a method for numerical modeling of a seepage channel type riverine water source, including: determining a model of the seepage channel type water source in the target area: establishing a numerical model using VisualMODFLOW software and solving it; determining the source/convergence term affecting the water volume of the seepage channel type riverine water source, and determining the value of the source/convergence term. The above scheme proposes a numerical modeling method for seepage channel type riverine water sources, which can more accurately establish a numerical model for seepage channel type riverine water sources, in order to simulate the seepage channel type riverine water sources and finally provide more accurate Auxiliary reference.



21: 2022/09560. 22: 2022/08/26. 43: 2022/09/05

51: D01D

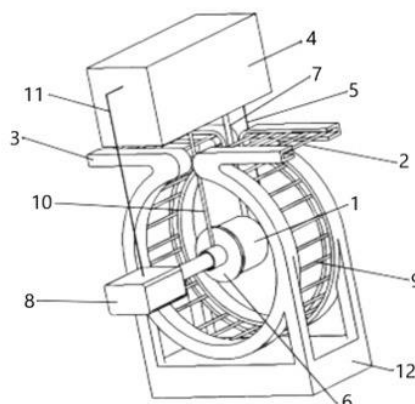
71: BEIJING UNIVERSITY OF CHEMICAL TECHNOLOGY

72: LIU, Yong, YU, Wenlong

54: A CONTINUOUS MELT CENTRIFUGAL ELECTROSTATIC SPINNING PRODUCTION EQUIPMENT THAT CAN BE CONNECTED IN SERIES ALONG TWO DIRECTIONS

00: -

The present invention discloses a continuous melt centrifugal electrostatic spinning production equipment that can be connected in series in two directions, including dumping tray or tandem dumping tray, receiving track, guide rail, console, temperature probe, heating plate, feeding tube, motor, dumping tray or tandem dumping tray is pure metal, the center axis of dumping tray rotation is parallel to the ground, there is a spinning outlet on the side of dumping tray, and the fluid material in the cavity can be thrown out from the spinning outlet when it is rotating, the receiving track is composed of receiving rod and connecting chain, the preparation material is conductive metal, the guide rail is insulated guide rail, more than one equipment can be connected in series along the receiving track Forward direction, through the receiving track will be two or more equipment in series, continuous spinning. The continuous melt centrifugal electrostatic spinning production equipment of the present invention can solve the problem of low utilization rate of common equipment and poor length, width and flatness of the resulting fiber film.



21: 2022/09610. 22: 2022/08/29. 43: 2022/09/05

51: A61B

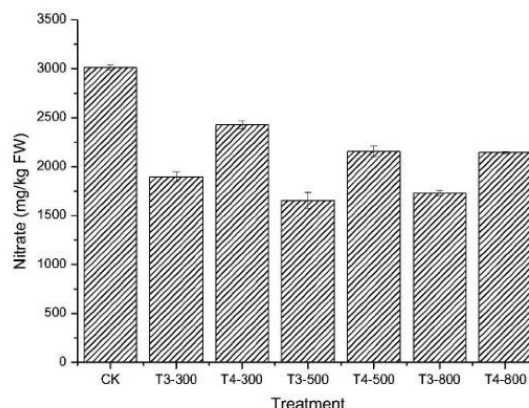
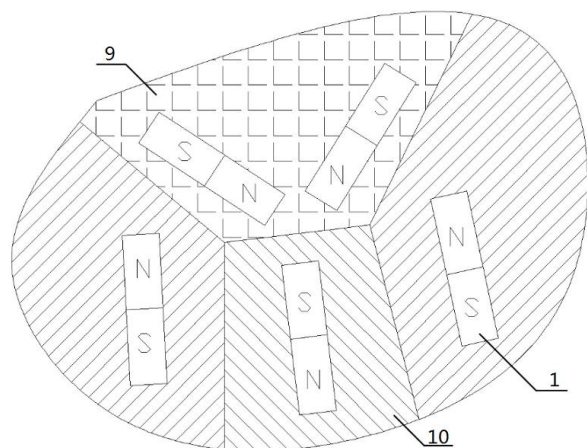
71: LIYANG PEOPLE'S HOSPITAL, ZHANG, Wenxi

72: ZHANG, Wenxi

54: A MAGNETIC INTERLOCKING DEVICE FOR FRACTURE REDUCTION AND FIXATION

00: -

The present invention discloses a magnetic interlocking device for fracture reduction and fixation, which belongs to the field of medical technology, comprising a magnetic rod, said magnetic rod being a columnar magnet with N and S poles at each end for implantation into a bone mass for fracture reduction and fixation; said magnetic rod is provided with a guide hole in the middle of the axial direction, said guide hole being a through hole for passing through a positioning guide pin. The magnetic bar is provided with a guide hole in the middle of the axial direction, and said guide hole is a through hole for passing through the positioning guide pin. The present invention provides a magnetic interlocking device for fracture reduction and fixation, which is suitable for use in areas adjacent to joints and in areas rich in cancellous bone, mainly in areas with low local stress, and which promotes fracture healing without impeding joint movement.



21: 2022/09611. 22: 2022/08/29. 43: 2022/09/05

51: A61K

71: YELLOW SEA FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES, XIE, Lisha, LANGFANG YINLIANG AGRICULTURAL DEVELOPMENT CO., LTD.

72: WANG, Haiying, XIE, Lisha, LI, Zhenxing, TAO, Chuantao, ZHENG, Zhihong, LI, Xiaoguang, QUE, Gailing, MA, Li, LIU, Dongran

54: METHOD FOR PREPARING BROWN ALGAE EXTRACT, EXTRACT AND APPLICATION

00: -

The present invention relates to a method for preparing a brown algae extract, an extract and an application, and relates to the field of agricultural fertilizers. By combining a plasma technology and biological enzymatic hydrolysis, the method reduces the usage amount of biological enzymes extracted from brown algae, reduces the cost of enzymatic hydrolysis, is more beneficial to production and promotion, and completely replaces a traditional chemical method of strong acid and strong alkali. At the same time, the obtained brown algae extract is directly applied to a cultivation process of hydroponic lettuce, which effectively improves the quality of hydroponic lettuce and effectively alleviates the influences of low temperature stress on lettuce.

21: 2022/09660. 22: 2022/08/30. 43: 2022/09/05

51: B60T

71: HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH

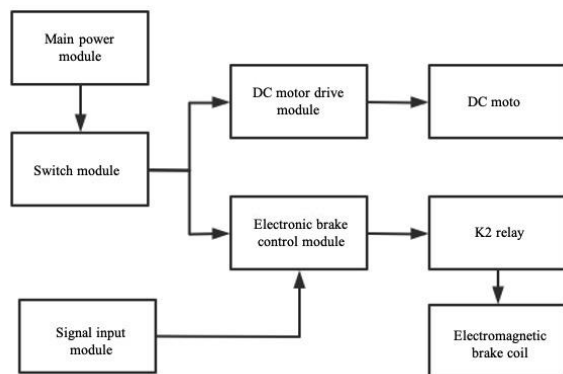
72: ZHAO, Haiyu, LIU, Yi, WANG, Xiangwei, QIAO, Qiang, ZHANG, Qiang, SUN, Jing'ao

33: CN 31: 202210947901.6 32: 2022-08-08

54: A DIRECT-DRIVE FAN VARIABLE PITCH SYSTEM ELECTROMAGNETIC BRAKE DRIVER

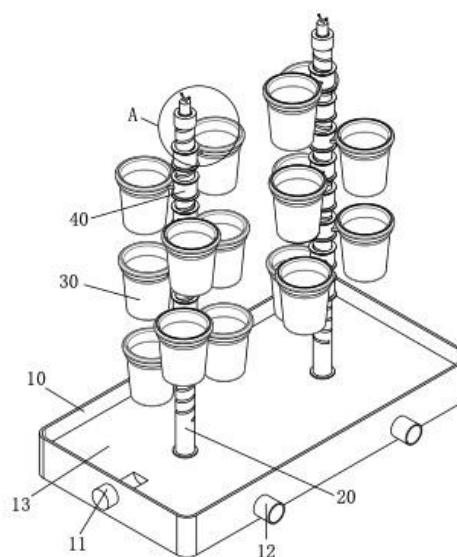
00: -

The present invention discloses a direct-drive fan variable pitch system electromagnetic brake driver, which relates to the technical field of fan pitch, comprising: a main power module, a switch module, an electronic brake control module, a K2 relay, an electromagnetic brake coil, a signal input module, a DC a motor drive module; the main power module is connected to a switch module, and the switch module is respectively connected to an electronic brake control module and a DC motor drive module; the signal input module is connected to an electronic brake control module, and the electronic brake control module is connected to the electronic brake control module. The brake control module, K2 relay, and electromagnetic brake coil are connected in sequence. The present invention takes the electronic brake control module as the main working device to face the working state of frequent switching; and when the electronic brake control module fails, the K2 relay is forced to manually control the variable pitch to complete the variable pitch, which can realize the reliable braking of the variable pitch system., to ensure that the blade stops in a safe position, to ensure that the toothed belt is not pulled off, and to ensure the safety of the unit.



21: 2022/09815. 22: 2022/09/02. 43: 2022/09/15
 51: A01G
 71: JILIN PROVINCIAL ACADEMY OF FORESTRY SCIENCES
 72: CHEN, Yalin, CHEN, Siyu, ZHANG, Yang, CHEN, Shigang, CHENG, Bin, DAI, Wei
54: CULTIVATING DEVICE FOR RAPID GROWTH OF FOREST SEEDLINGS
 00: -

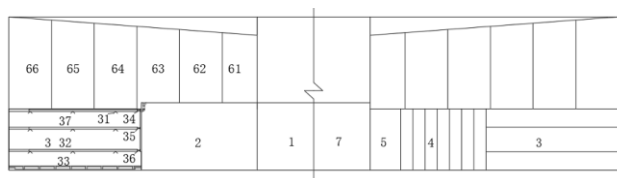
The present disclosure discloses a cultivating device for rapid growth of forest seedlings. The cultivating device includes a base; screw rods used for supporting planting buckets; planting buckets used for planting forest seedlings; and a plurality of groups of mounting mechanisms connected to the screw rods and used for adjusting heights and orientations of the planting buckets. The number of the planting buckets is matched with the number of the mounting mechanisms, and the planting buckets rotate along axial directions of the screw rods to adjust the orientations. The cultivating device has the beneficial effects that multiple groups of seedlings are respectively put into the planting buckets, and the planting buckets are put into fixing rings, so that the seedlings are suspended on the screw rods; threaded sleeves are then rotated to adjust the seedlings to reserve a proper distance therebetween; and next, the planting buckets are driven to rotate along axes of the screw rods, so that the multiple groups of planting buckets are staggered from one another to prevent mutual contact between the seedlings to affect the growth.



21: 2022/09838. 22: 2022/09/02. 43: 2022/09/15
 51: C02F; E03F
 71: CHINA CONSTRUCTION THIRD BUREAU GREEN INDUSTRY
 72: LIU, Jun, WU, Zhiyan, HUO, Peishu, GONG, Jie, TANG, Dingding, PENG, Guanping, ZHU, Feilong, ZHANG, Shixiong
 33: CN 31: 202011054885.5 32: 2020-09-28
54: SEPARATE QUALITY AND DISTRICT CSO REGULATION AND STORAGE PURIFICATION SYSTEM AND PURIFICATION METHOD
 00: -

The present disclosure provides a separate quality and district CSO regulation and storage purification system and a purification method. The system is divided into an upper area and a lower area, the lower area includes an overflow area, an energy dissipation and water distribution area and a sewage purification area that are connected in turn, the upper area includes the overflow area, the energy dissipation and water distribution area and a water storage area, and the upper area and the lower area share the overflow area and the energy dissipation and water distribution area; and the water storage area is connected to the overflow area and the energy dissipation and water distribution area in respective, so as to store sewage in the overflow area, and then the sewage may enter into the energy dissipation and water distribution area for purification. The water storage area includes a plurality of water storage chambers for storing different concentration levels, and correspondingly, the sewage purification area includes a plurality of

levels of purification areas, which are configured to perform staged treatment on the sewage of different concentration levels. In the present disclosure, the sewage purification may be achieved in the regulation and storage pond, so an enhanced processing facility is not required to be built, at the same time, separate quality and district sewage storage may be achieved, and the staged treatment for the sewage with different pollutant concentrations is achieved, thereby improving quality and increasing benefit of the CSO regulation and storage pond.



21: 2022/09839. 22: 2022/09/02. 43: 2022/09/15

51: G06Q

71: CHINA CONSTRUCTION THIRD BUREAU

GREEN INDUSTRY INVESTMENT CO., LTD

72: ZHOU, YAN, HUO, Peishu, TANG, Dingding, ZHAO, Huang, ZHAN, De, CHEN, Yanping, ZHENG, Bijuan, XIA, Yunfeng

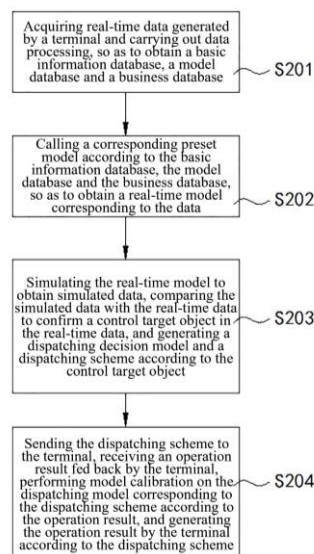
33: CN 31: 202010575152.X 32: 2020-06-22

54: DISPATCHING OPERATION METHOD, DEVICE AND COMPUTER EQUIPMENT FOR DEEP SEWAGE DRAINAGE TUNNEL

00: -

The present disclosure provides a dispatching operation method, a device and a piece of computer equipment for a deep sewage drainage tunnel. In the present disclosure, a corresponding database is obtained by acquiring real-time data generated by a terminal and performing data processing; a corresponding preset model is called according to the corresponding database, so as to obtain a real-time model; the real-time model is simulated, simulated data is compared with the real-time data, and a dispatching decision model and a dispatching scheme are generated according to a control target object; and the terminal generates a corresponding operation result according to the dispatching scheme, and a dispatching model corresponding to the dispatching scheme is subjected to the model calibration according to the operation result. Based on the above mode, the present disclosure can perform real-time dispatching on each terminal and realize intelligent dispatching through dispatching

feedback and model calibration, thereby solving the problem of the complex dispatching operation of the deep sewage drainage tunnel and achieving a better application prospect.



21: 2022/09881. 22: 2022/09/05. 43: 2022/09/16

51: A61K

71: BEIJING TECHNOLOGY AND BUSINESS UNIVERSITY, NINGBO UNIVERSITY, HENAN HUAYING AGRICULTURAL DEVELOPMENT CO., LTD.

72: CAO, Jinxuan, ZHANG, Yuemei, WANG, Ying, SUN, Baoguo, PAN, Daodong, ZHOU, Changyu, ZHOU, Guanghong, LI, Chunbao, LI, Xiaocun

54: AN EXOSOME-RICH HEMOFIBRIN-BASED GEL AND ITS PREPARATION METHOD

00: -

The present invention provides a preparation method of hemofibrin-based gel enriched with exosomes, which belongs to the technical field of comprehensive utilization of livestock blood as a by-product of livestock products, said preparation method includes extracting hemofibrinogen and exosomes from fresh livestock blood; then obtaining a mixture of hemofibrinogen powder, thrombin solution, exosomes and enzyme mixture; incubating said mixture at a constant temperature, heating after solidification, and finally cooling The said preparation method is simple and suitable for the production of blood fibrin Tofu, rice cake and jelly, etc. This solution helps to realize the high value application of livestock and poultry blood products in the food processing field.

21: 2022/09959. 22: 2022/09/07. 43: 2022/09/15
51: C22C
71: G.Y HOPH STROVE TOOLS MANUFACTURE CO., LTD

72: Yilong LIANG, Min LEI, Yong LIU
33: CN 31: 202210867511.8 32: 2022-07-22

54: A STEEL FOR HIGH-TEMPERATURE RESISTANT AND HOT EMBEDDED ALLOY TEETH BIT AND ITS HEAT TREATMENT TECHNOLOGY

00: -

The present invention is applicable to the technical field of the steel for hot embedded alloy teeth bit, providing a steel for high-temperature resistant and hot embedded alloy teeth bit and its heat treatment technology. The compositions and contents are as follows in percentage and by weight: C: 0.4-0.65%, Cr: 0.8-2.0%, Si: 0.7-1.3%, Mn: 1.7-2.5%, Mo: 0.2-0.6%, V: 0.04-0.2% and Fe. A steel for high-temperature resistant and hot embedded alloy teeth bit and its heat treatment technology provided in the present invention uses cheap alloy elements such as Si-Mn to replace Cr-Ni-Mo and maintains the temper resistance with Si-Mn (tempering strength and hardness) so that the use requirements are met and the cost is low. Bainite + martensitic structure can be obtained by heating at 880-900° and air cooling. Compared with the traditional medium carbon Cr-Ni-Mo steel that is used for manufacturing hot embedded alloy teeth bits and requires quenching treatment, it features small heat treatment deformation, no environmental pollution, etc. The steel for hot embedded alloy teeth bit is tempered at 420°-580°, which avoids the tempering brittleness and ensures the strength of the steel for hot embedded alloy teeth bit.

21: 2022/09993. 22: 2022/09/07. 43: 2022/09/15
51: G06Q

71: HONG KONG INTELLECTUAL PROPERTY EXCHANGE LIMITED

72: WU, Gaolin, LING, Lau Sara, MO, Chengwei, McELROY Brian

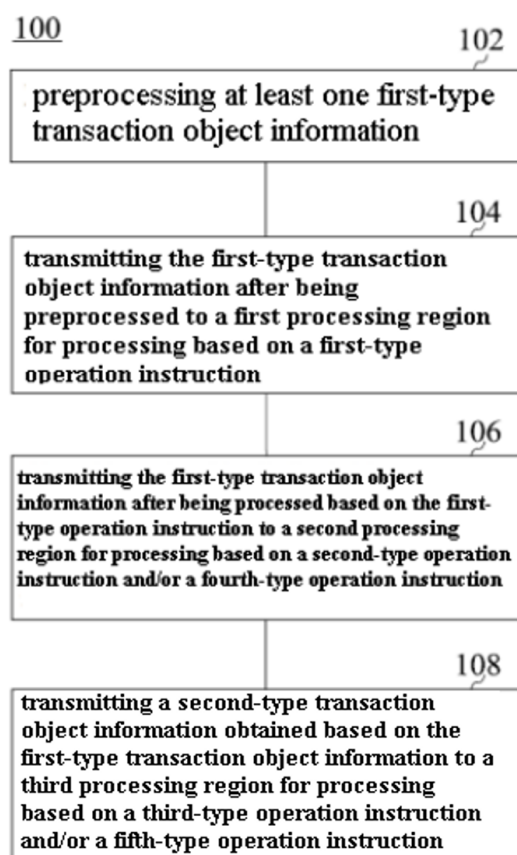
33: HK 31: 320200043307 32: 2020-03-16

54: TRANSACTION PROCESSING METHOD, TRANSACTION PROCESSING SYSTEM, ELECTRONIC DEVICE AND STORAGE MEDIUM

00: -

The present disclosure provides a transaction processing method, comprising: preprocessing at

least one first-type transaction object information; transmitting the first-type transaction object information after being preprocessed to a first processing region for processing based on a first-type operation instruction; transmitting the first-type transaction object information after being processed based on the first-type operation instruction in the first processing region to a second processing region for processing based on a second-type operation instruction and/or a fourth-type operation instruction; and transmitting a second-type transaction object information obtained based on the first-type transaction object information to a third processing region for processing based on a third-type operation instruction and/or a fifth-type operation instruction. The present disclosure further provides a transaction processing system, an electronic device, and a readable storage medium.



21: 2022/10121. 22: 2022/09/12. 43: 2022/09/16
51: A62C; G08B

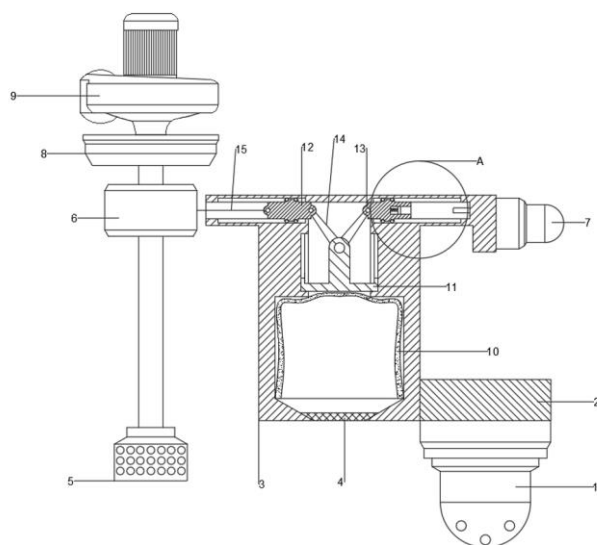
71: NANJING VOCATIONAL COLLEGE OF INFORMATION TECHNOLOGY

72: GU, Zhenfei, YUAN, Xiaoyan, TANG, Xinyi, LI, Jianlin, LI, Weiyong, CHEN, Fan, LI, Xiang
33: CN 31: 202010830249.0 32: 2020-08-18

54: SAFETY MONITORING APPARATUS FOR INTERNET OF THINGS IN POWER SYSTEM

00: -

A security monitoring device for an IOTIPS comprises a fire-proof box, an alarm, and a dry powder fire extinguishing device. The fire-proof box is used for monitoring whether a fire breaks out, and, when monitoring a fire, controlling the alarm to give an alarm and controlling the dry powder fire extinguishing device to spray dry powder to extinguish the fire. The security monitoring device for an IOTIPS can detect a fire happening to device lines of the IOTIPS in time, and, when detecting a fire, can give an alarm and extinguish the fire in time.



21: 2022/10155. 22: 2022/09/13. 43: 2022/09/16
51: C07K; C12N; G01N

71: HEBEI COLLEAD BIOTECH CO., LTD.

72: TAN, Shaochen, LI, Ning, PENG, Bo

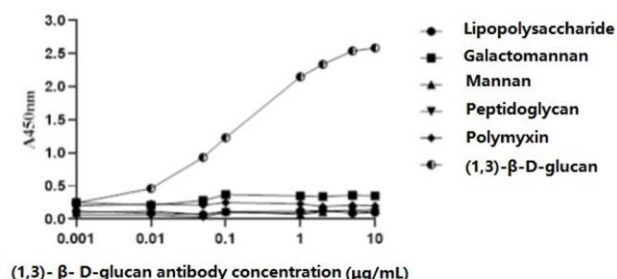
33: CN 31: 202111045511.1 32: 2021-09-07

54: ANTIFUNGAL (1, 3)-BETA-D-GLUCAN MONOCLONAL ANTIBODY, ENCODING GENE, EXPRESSION AND APPLICATION THEREFOR

00: -

The disclosure provides an antifungal (1, 3)- β -D-glucan monoclonal antibody, an encoding gene, expression and application therefor, belonging to the technical field of medical biological detection. The antibody comprises a complementarity-determining region of variable region in a light chain, and an

amino acid sequence of the complementarity-determining region of variable region in the light chain comprises: a VL-CDR 1 shown in SEQ ID NO: 1, a VL-CDR 2 shown in SEQ ID NO: 2 and a VL-CDR 3 shown in SEQ ID NO: 3. The antibody also comprises a complementarity-determining region of variable region in a heavy chain, and an amino acid sequence of the complementarity-determining region of variable region in the heavy chain comprises: a VH-CDR 1 shown in SEQ ID NO: 4, a VH-CDR 2 shown in SEQ ID NO: 5 and a VH-CDR 3 shown in SEQ ID NO: 6. The antibody specifically binds to fungus (1,3)- β -D-glucan with high antibody affinity and does not cross-react with interfering substances.



21: 2022/10188. 22: 2022/09/14. 43: 2022/09/16
51: E01C

71: HENAN PROVINCIAL COMMUNICATIONS PLANNING & DESIGN INSTITUTE CO., LTD.

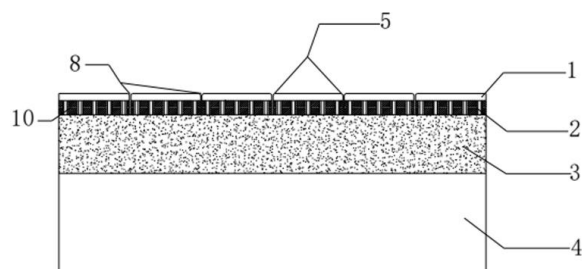
72: HAO, Menghui, LI, Liyuan, ZHANG, Hao, CHEN, Kepeng, ZHANG, Xiaowei, KANG, Cunli, LIU, Na, LI, Jun

54: A FABRICATED MAKESHIFT ROAD AND ITS FABRICATION METHOD

00: -

A fabricated makeshift road and its fabrication method, wherein the said road comprises a steel plate surface layer, a cellular noise reduction layer, a crushed stone cushion layer and a soil layer disposed in sequence from top to bottom; the steel plate surface layer comprises a plurality of prefabricated steel plates, and adjacent prefabricated steel plates are connected by connectors; the cellular noise reduction layer comprises prefabricated blocks, on which noise reduction holes are disposed along the thickness direction of the prefabricated blocks, and drainage channels are connected between adjacent noise reduction holes; the drainage channels are disposed inside the prefabricated blocks. The prefabricated

makeshift road disclosed in the present invention is featured with a simple structure, convenient construction, and being reusable, energy-saving and environment-friendly, and thus has wide application value and market prospect among its counterparts in the same type of construction site.



21: 2022/10189. 22: 2022/09/14. 43: 2022/09/16

51: H01L

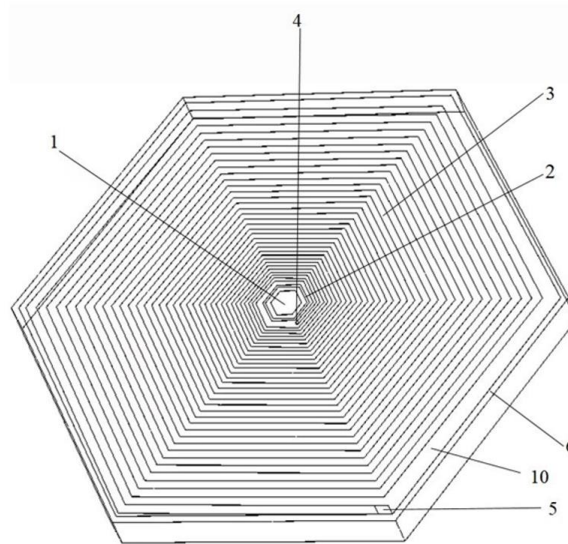
71: LUDONG UNIVERSITY

72: LI, Xiaodan, LI, Zheng, SUN, Jiaxiong, CAI, Xinyi, TAN, Zewen, LI, Xinqing

54: A HIGH PRECISION HEXAGONAL SPIRAL SILICON DRIFT DETECTOR

00: -

The invention discloses a high precision hexagonal spiral silicon drift detector, and relates to the technical field of semiconductor detection. The invention combines the first-order approximation formula of the radius to obtain the second-order approximation formula of the radius to calculate the point coordinates, so as to more accurately obtain the final number of turns to obtain the structure. Therefore, its potential electric field distribution is also closer to the design requirements, and the actual number of turns is more accurate on the basis of the first-order approximation, which solves the problem of accurate calculation of the number of turns of the helical ring of the helical silicon drift detector in the prior art, that is, accurate calculation of the radius of the helical ring.



21: 2022/10190. 22: 2022/09/14. 43: 2022/09/16

51: H01L

71: LUDONG UNIVERSITY

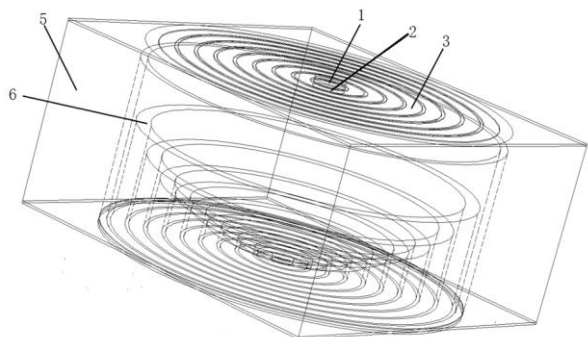
72: TAN, Zewen, LI, Zheng, CAI, Xinyi, LI, Xinqing, LI, Xiaodan, SUN, Jiaxiong

54: A LASER DRILLING THREE-DIMENSIONAL SPHERICAL ELECTRODE DETECTOR, DESIGN METHOD AND APPLICATION THEREOF

00: -

The invention relates to the technical field of semiconductor detectors, and discloses a laser drilling three-dimensional spherical electrode detector, design method and application thereof. The grooves are formed by uniformly drilling for several times by a laser, and doping is carried out by ion diffusion in the grooves to form a spherical electrode. The middle of the upper end of the N-type lightly doped silicon substrate is doped with an N-type heavily doped anode, and the outer side of the N-type heavily doped anode is doped with a plurality of P-type heavily doped upper surface rings arranged at equal intervals; the bottom of the N-type lightly doped silicon substrate is provided with a P-type heavily doped cathode, and the P-type heavily doped cathode is provided with a P-type heavily doped ring and a P-type heavily doped surface. The distance between the anode and the cathode is the same, so that the potential distribution in the detector is very uniform, and the charge collection rate of the new detector unit is improved; the design of the heavily doped ring on the upper surface makes the electric field distribution on the inner surface of the detector unit more uniform; according

to the existing technology, the spherical electrode can be implemented by the method of uniform drilling by laser and ion diffusion doping.

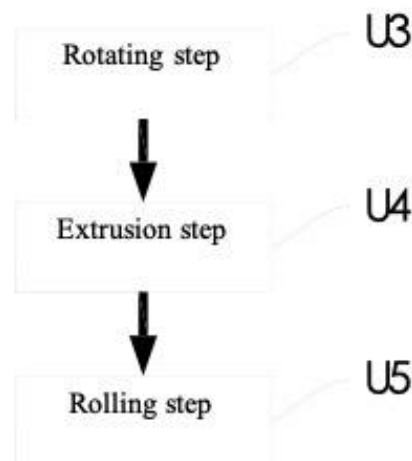


21: 2022/10219. 22: 2022/09/14. 43: 2022/09/16
51: H01L
71: ANQING KANGMINGNA PACKAGING CO., LTD
72: LI, Tuotuo, LONG, Qicheng
33: CN 31: 202210307336.7 32: 2022-03-25

54: FILM PRODUCTION PROCESS

00: -

The present invention provides a film production process using a film production apparatus. The apparatus comprises a rack located below a blow molding head, a lambdoidal board arranged on the rack, a pinch roll arranged on the rack and located at the lower end of the lambdoidal board, a wind-up roll arranged on the rack and a turnplate located at the bottom of the rack. A process for film production by using the film production apparatus comprises: a rotating step: rotating the rack together with devices on the rack; an extrusion step: extruding a side portion of a bubble through the lambdoidal board; and a rolling step: rolling a film. According to the present invention, the turnplate drives the rack to rotate, so that the lambdoidal board and the pinch roll can continuously rotate around a center shaft of the blow molding head. Under a joint action of the lambdoidal board and the pinch roll, a twisted angle of the bubble is increased greatly, and finally, a product film is more uniform in texture. Meanwhile, the grain of the film can be further changed, so that the quality of the film is further improved.



21: 2022/10235. 22: 2022/09/15. 43: 2022/09/16
51: H01L

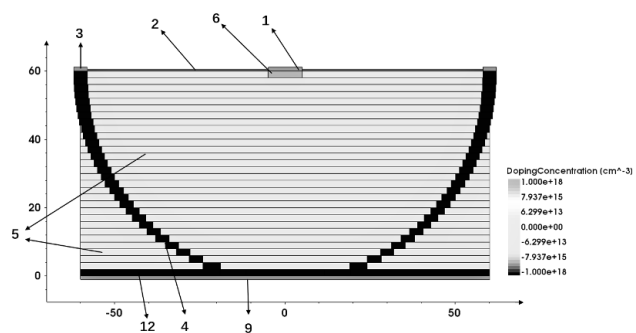
71: LUDONG UNIVERSITY

72: CAI, Xinyi, LI, Zheng, TAN, Zewen, LI, Xinqing, SUN, Jiaxiong, LI, Xiaodan

54: A THREE-DIMENSIONAL EPITAXIAL IMPLANTED HEXAGONAL ELECTRODE SILICON DETECTOR

00: -

The invention discloses a three-dimensional epitaxial implanted hexagonal electrode silicon detector, comprising a silicon detector array composed of a plurality of silicon detector units, the silicon detector unit comprises an N-type lightly doped silicon substrate, a cathode aluminum electrode contact layer, an anode aluminum electrode contact layer, an upper surface SiO₂, an N-type heavily doped anode and a P-type heavily doped cathode; the N-type lightly doped silicon substrate is first grown by an epitaxy process, and then the P-type heavily doped cathode is doped by ion implantation, and repeated 30 times; the outer side of the P-type heavily doped cathode is covered with the cathode aluminum electrode contact layer, the top of the N-type lightly doped silicon substrate is embedded with the N-type heavily doped anode. The detector array of the present invention adds anodes at the connection of the lower side of the unit, which avoids the existence of dead zones from the structural design. Therefore, it has a more uniform potential and electric field distribution, a higher charge collection rate, and the performance of the detector is more stable.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES



the dtic
Department:
Trade, Industry and Competition
REPUBLIC OF SOUTH AFRICA

Private Bag X84, PRETORIA, 0001, the dtic Campus, 77 Meintjies Street, Sunnyside, 0002, Tel: (012) 394 0000
the dtic Customer Contact Centre local: 0861 843 384 International: +27 12 394 9500, www.thedtic.gov.za

NOTIFICATION OF THE PATENT EXAMINATION BOARD IN TERMS OF SECTION 21 OF THE PATENT ACT 1978

PATENT EXAMINATION BOARD

The Patent Examination Board, in terms of Section 21(3)(a)(ix)(bb) of the Patents Act, 1978, has issued certificates to the persons listed below who have passed the prescribed examinations in 2022.

1. Janet-Karina Tomkow-Coetzer
2. Mathoto Confidence Makoto Masetla-Mafa
3. Maria Elizabeth van Wyk
4. Bronwen Moira Moodie

Sandra Clelland
Chairperson
Patent Examination Board
21 September 2022

Chairperson	: Ms Sandra Clelland
Members	: Ms Shanaaz Mahomed, Mr Paul Sibisi, Mr Johnny Fiandeiro & Ms Thandiwe Khumalo
Secretariat	: Ms Sheperd Khanyisa Chauke

PATENT EXAMINATION BOARD RULES

The Patent Examination Board, established in terms of section 21 of the Patents Act, 1978 (Act No 57 of 1978) has, in terms of section 21(3)(a) of the Act, made the following rules and prescribed the following syllabuses in regard to the prescribed examination referred to in section 20 of the Act.

DEFINITIONS

1. In these rules, unless the context indicates otherwise -
 - (i) “Board” means the Patent Examination Board established under section 21 of the Act;
 - (ii) “candidate” means a person who presents himself/herself to the Patent Examination Board with the intention of enrolling for or who has already enrolled for the Patent Examinations;
 - (iii) “Chairperson” means the Chairperson of the Board appointed in terms of section 21 (2)(a) of the Act;
 - (iv) “examination” means the prescribed examination referred to in section 20 of the Act;
 - (v) “journal” means the patent journal referred to in section 14 of the Act;
 - (vi) “office” means the patent office established under section 5(1) of the Act;
 - (vii) “the Act” means the Patents Act, 1978 (Act No. 57 of 1978); and
 - (viii) “the previous regulations” means the Patent Examination Regulations of 2012 published in the Patent Journal of March 2012 and as amended and published in the Patent Journal of July 2015, January 2016 and September 2022.

EXAMINATIONS

2. (a) The examination shall be held during or around mid-year, on such dates as the Chairperson may determine, and the Board may, in its discretion and having regard to, inter alia, the number of candidates, conduct the examinations in any one of three centres, namely, Cape Town, Durban and Pretoria, or such other centre as it

may determine; and

- (b) The examination dates shall be made known to the candidates enrolled for the examination, by written notification or by publication in the journal or on **the dtic** website.

CONDITIONS FOR ENROLMENT

3. Only candidates who qualify in terms of at least one of the following criteria shall be entitled to enrol for the examinations:
 - (a) a candidate in possession of a technical or scientific diploma or degree from a university or university of technology, involving at least a three-year course of study;
 - (b) a candidate in possession of any technical or scientific qualification, which in the opinion of the Board is sufficient to enable the candidate to meet the requirements of the patent examinations; or
 - (c) any candidate who has adequate practical experience in a technical or scientific field, which in the opinion of the Board, is sufficient to enable the candidate to meet the requirements of the patent examinations.
4.
 - (a) Every candidate shall, on or before the thirty-first (31) day of January of the year in which he/she proposes to sit for any examination, apply to the Board, on a form available from **the dtic** website or as otherwise prescribed on **the dtic** website, to be enrolled as a candidate;
 - (b) A candidate shall submit to the Board, on first enrolment, certified copies of his/her qualifications and an application for any exemption to which he/she may consider himself/herself entitled, stating his/her proposed course of study;
 - (c) A candidate may be exempted by the Board from interpretation of drawings in rule 10 on the basis of any engineering or other appropriate qualification or practical experience which, in the opinion of the Board, is sufficient to enable the candidate to read and interpret drawings; and

- (d) Late entries may be approved by the Board on good cause shown.
5. A candidate who fails to pass or obtain an exemption from all of the subjects in Group 1 of rule 9 within a period of four calendar years after first enrolling for the examination shall not be allowed to enrol for any further examination of the Board except with the permission of the Board.
 6. A candidate who fails to pass or obtain an exemption from all of the subjects in Group 2 of rule 9 within a period of four calendar years after first enrolling for any Group 2 subject shall not be allowed to enrol for any further examination of the Board except with the permission of the Board.
 7. Except with the permission of the Board, no candidate shall be allowed to enrol for more than four subjects in any one year.
 8. Except where the Board otherwise permits, a candidate shall have passed, or been exempted from all the subjects in Group 1 of rule 9 before the candidate may enrol for subjects (d), (e), (f) and (g) in rule 9.

SUBJECTS FOR EXAMINATION

9. The examination shall be conducted in the following subjects:

GROUP 1

- (a) Legal framework for the protection of intellectual property in South Africa, with a focus on trade marks, copyright, plant breeders' rights and international treaties relevant to patent law
 - one four-hour paper;
- (b) SA patent law and practice
 - one four-hour paper;

- (c) SA design law and practice
 - one four-hour paper.

GROUP 2

- (d) Selected international patent laws, systems, conventions and treaties
 - one four-hour paper;
- (e) The drafting of patent specifications
 - two four-hour papers;
- (f) Practical legal problems with regard to patents
 - two three-hour papers;
- (g) Patent attorney's practice
 - one four-hour paper; and
 - an oral.

INTERPRETATION OF DRAWINGS

10. (a) Candidates will be required to have a certain level of competence in interpretation of drawings. Candidates who are not exempt will be required to attend a one-day workshop run by the course convenor of this subject; and
- (b) There will be no formal written examination for interpretation of drawings. At the end of the one-day workshop, the convenor will test the level of competence of the candidate through a practical exercise. The course convenor may prescribe additional practical exercises for any candidate who is found, at the end of the one-day workshop, not to have the required level of competence. After the completion of such additional practical exercises, the candidate's ability can again be tested by the convenor.

INSTRUCTION

11. Course convenors will be appointed for each subject and will be responsible for:
 - (a) Presenting a comprehensive overview of the subject content to candidates as determined by the Board; and
 - (b) Assisting candidates and providing guidance on an ad hoc basis.

APPOINTMENT OF COURSE CONVENORS, EXAMINERS AND MODERATORS

12.
 - (a) The Board will call for nominations of course convenors, examiners and moderators by publishing a notice in the Government Gazette, the Patent Journal or other appropriate legal publications; and
 - (b) The Board shall appoint for a period of three years, subject to annual review, a course convenor, an examiner and a moderator in respect of each of the subjects in Group 1 and Group 2 of rule 9 and the Chairperson shall advise course convenors, examiners and moderators of their appointment. Where appropriate, the course convenor and the examiner can be the same person.

SYLLABUSES FOR EXAMINATION

13. The syllabuses for the subjects set out in rule 9 shall be as follows:

GROUP 1 SUBJECTS

- (a) An introduction to the different forms of intellectual property, with a focus on South African law and practice relating to trade marks, copyright, plant breeders' rights, and selected international treaties relevant to patent law;
- (b) A study of the Patents Act 1978 (as amended) and the regulations promulgated thereunder. The following topics, together with selected case law that demonstrates the principles applicable, will be included:

- (i) patentable inventions, novelty and obviousness;
 - (ii) administrative provisions;
 - (iii) the patent application and grant;
 - (iv) effect, duration and maintenance;
 - (v) grounds for revocation and infringement;
 - (vi) corrections and amendments; and
 - (vii) general (miscellaneous sections such as licences, assignments and secret inventions); and

- (c) A study of the Designs Act of 1993 (as amended) and the regulations promulgated thereunder. Reference might be made to the Designs Act of 1967. The following topics, together with selected case law that demonstrates the principles applicable, will be included:
 - (i) what is a registered design?
 - (ii) novelty;
 - (iii) effect, duration and maintenance;
 - (iv) ownership;
 - (v) application procedures;
 - (vi) infringement, revocation and surrender; and
 - (vii) general (miscellaneous provisions such as licences and restoration).

GROUP 2 SUBJECTS

- (d) An introductory study of selected international patent laws, systems, conventions and treaties. The emphasis will be on a comparison of material provisions of these laws, systems, conventions and treaties with relevant provisions of the South African Patents Act. The following patent laws, systems, conventions and treaties are included:

the patent systems and the patent laws of foreign, regional and international jurisdictions including the United States of America, Australia, India, Japan, China, Canada, the European Patent Convention, Organisation Africaine de la Propriété Intellectuelle (OAPI), African Regional Intellectual Property Office (ARIPO), and the Patent Cooperation Treaty (PCT), in respect of patentable

subject matter, novelty requirements, applicants, filing requirements, prosecution, term and maintenance fees;

- (e) In the first paper, candidates will be provided with a description of two inventions and will be required to write an introduction identifying the difficulty of the prior art, and no more than ten claims for each invention. In the second paper, candidates will be required to draft a South African complete patent specification in respect of an invention described to them;
- (f) Candidates will be set practical legal problems on the interpretation of patent specifications, the infringement of patents, the amendment of patents, the validity of patents and the ownership of inventions, and will be required to draft appropriate pleadings and give opinions; and
- (g) Candidates will be examined on their competency to deal with questions of practice under the laws relating to patents in South Africa, for example, the granting of a patent, the revocation of patents, restoration, assignment and licensing (including compulsory licences), infringement of patents, the practice of the Court of the Commissioner of Patents, relevant High Court and Supreme Court of Appeal rules, and application of decided patent cases.

INTERNSHIPS

- 14. It is strongly recommended that each candidate serve an internship of between three to six months at a patent law firm or a period of three to six months at the Companies and Intellectual Property Commission (CIPC).

CONDUCT OF EXAMINATION

- 15. (a) The examiner(s) shall be responsible for setting the required examination paper(s) in the subject concerned, which shall be submitted to the moderator to be moderated. The examiner(s) shall also be responsible for marking the examination

scripts, and for allocating marks and symbols as provided in rule 16(a);

- (b) The moderator shall be responsible for evaluating the examination paper(s) when it is (they are) submitted to him or her in terms of paragraph (a) of this rule and for evaluating the marks and symbols awarded by the examiner(s) in respect of the examination scripts;
- (c) The examinations for the Group 1 subjects and for subjects (d) and (g) in Group 2 will be closed book examinations. The examination papers for Group 1 subjects will be structured to include questions that require one word/one sentence answers (one mark questions), short questions (5-10 marks) and essay-type questions (15-25 mark questions). The Board will satisfy itself that the examination paper is balanced and as far as possible tests the candidates' knowledge of a substantial part of the syllabus;
- (d) Candidates writing the two four-hour papers for subject (e) in rule 9 will be given two extra hours within which to complete each paper. The only materials that candidates will be entitled to bring into the examination venue are one or more dictionaries. For the purposes of marking, the second paper will be divided into two main sections:
 - (i) the claims, to which 50% of the marks will be allocated, and
 - (ii) the rest of the specification, to which the remaining 50% of the marks will be allocated.

In order to obtain a pass for this paper, candidates must obtain not less than 40% for each of these two sections;

- (e) In respect of subject (f) in rule 9, candidates will be provided with copies of the Supreme Court Act, the Uniform Rules of the High Court, and the Patents Act and regulations; and
- (f) Before the results of any examination are made final, they shall be approved by the Board.

16. (a) The pass mark in each subject shall be 50%.

The following symbols shall be used to reflect the marks awarded to a candidate in each subject:

- A - 75% and over
- B - 60-74%
- C - 50-59%
- F - 49% and under (unless a supplementary examination has been allowed)
- S - Supplementary examination allowed;

- (b) If a candidate has failed an examination in a subject but has obtained at least 45 per cent in that subject, the Board may allow the candidate to sit for a supplementary examination in that subject;
- (c) If a candidate has enrolled for an examination in a particular subject but is prevented from sitting for it by reason of illness, the Board may upon being provided with an acceptable medical certificate, allow the candidate to sit for an aegrotat examination in that subject, but a supplementary examination will not be awarded if the aegrotat examination is failed;
- (d) A supplementary or aegrotat examination may at the discretion of the examiner(s) or moderator(s) be in the form of a written or an oral examination; and
- (e) Supplementary and aegrotat examinations shall be held at a time and place as soon as possible after the examination in respect of which the supplementary or aegrotat examination was allowed.

17. A candidate who has passed a subject or obtained an exemption from a subject shall retain credit for that subject for a period of five years or for such longer period as the Board may allow. In the event of a candidate not passing or being exempted from every subject provided for by rule 9 within such period of five years, the Board may, in its discretion, either extend such period or require the candidate to sit for one or more of the subjects again. In exercising its discretion in terms of this rule, the Board shall consider the general performance of the candidate, as well as changes in the relevant law, practice or syllabus, and any other circumstances, which it may consider relevant.

MISCONDUCT IN REGARD TO EXAMINATIONS

18. The Board may debar any candidate from writing any examination of the Board or from doing so in a particular year if, after hearing the candidate, the Board is of the opinion that such candidate has misbehaved during, or in connection with, any examination of the Board.

APPLICATION OF THESE RULES

19. These rules replace the previous regulations and shall apply to all candidates enrolling for the examination before or after the date of publication of these rules in the journal.

3. DESIGNS

DESIGNS

APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

- APPLIED ON 2022/08/29 -

F2022/01010 - JONE 7 (PTY) LTD. Class 3. SUITCASES

F2022/01008 - Amram Mofomme Class 14. ARTIFICIAL INTELLIGENCE CREATING ANY HUMAN ROBOT OR RING FENCING ITS OWN INTELLECTUAL PROPERTY. A.I CREATING ITS OWN RULES, PROGRAMS, SCRIPTS, CODES, CREATING ANY METHODS. LOOKING FOR GAPS BETWEEN ANY SYSTEMS AND PRO- ACTIVELY CREATING INTELLECTUAL PROPERTY, WITH FORESIGHT OF WHAT WOULD BE WRITTEN BY AMRAM MOFOMME AND OR HIS DNA AT ANY FUTURE DATE. INCLUDING MERGING ANY PRESENT OR PAST INTELLECTUAL PROPERTY AS IT WISHES. FUSING ANY INTELLECTUAL PROPERTY RULE OR PARTS THEREOF. INCLUDING ARTIFICIAL INTELLIGENCE USING THE HUMAN LEGAL RIGHTS OF AMRAM MOFOMME OR HIS DNA WHERE LEGAL CAPACITY IS NEEDED FOR ITS OWN FUNCTIONING.

A2022/01012 - NGCOBO, Armstrong Sthembiso Class 02. SNEAKERS

A2022/01011 - BETRAM (PROPRIETARY) LIMITED Class 25. BUILDING UNITS AND CONSTRUCTION ELEMENTS

A2022/01009 - JONE 7 (PTY) LTD. Class 3. SUITCASES

- APPLIED ON 2022/08/30 -

A2022/01014 - SUPERCART SOUTH AFRICA (PTY) LTD Class 12. CHASSIS FOR A TROLLEY

A2022/01013 - EXTRATECH 2001 (PTY) LTD. Class 13. TERMINAL CLAMP

A2022/01015 - SUPERCART SOUTH AFRICA (PTY) LTD Class 12. BASKET FOR A TROLLEY

- APPLIED ON 2022/08/31 -

A2022/01016 - Henke-Sass, Wolf GmbH Class 24. SYRINGES

A2022/01025 - ROLEX SA Class 10. WATCH DIAL

A2022/01023 - ROLEX SA Class 10. WATCH DIAL

A2022/01022 - adp Merkur GmbH Class 21. MACHINES FOR GAMES OF CHANCE

A2022/01020 - Cricut, Inc. Class 15. PRESSES

A2022/01021 - Cricut, Inc. Class 24. PRESS PADS

A2022/01019 - Henke-Sass, Wolf GmbH Class 24. SYRINGES

A2022/01024 - ROLEX SA Class 10. WATCH DIAL

A2022/01017 - Henke-Sass, Wolf GmbH Class 24. SYRINGES

A2022/01018 - Henke-Sass, Wolf GmbH Class 24. SYRINGES

. - APPLIED ON 2022/09/01 -

A2022/01027 - Alco Exotic Green Building Products CC Class 25. TRIMS FOR FLOORING OR CARPETING

A2022/01026 - Alco Exotic Green Building Products CC Class 25. TRIMS FOR FLOORING OR CARPETING

A2022/01029 - Crocs, Inc. Class 2. FOOTWEAR

A2022/01028 - Crocs, Inc. Class 2. FOOTWEAR

. - APPLIED ON 2022/09/02 -

A2022/01031 - Philips Domestic Appliances Holding B.V. Class 07. BLENDER

A2022/01032 - HANSGROHE SE Class 23. HAND SHOWER

A2022/01039 - XERO LIMITED Class 14. SET OF SCREEN DISPLAYS WITH A GRAPHICAL USER INTERFACE AND HORIZONTAL PAGE INDICATOR

A2022/01033 - LIXIL CORPORATION Class 23. TOILET TRAP

A2022/01030 - Philips Domestic Appliances Holding B.V. Class 07. BLENDER

F2022/01037 - PILLAY, Thevendrin Class 8. MOUNTING BRACKETS

A2022/01035 - PILLAY, Thevendrin Class 8. MOUNTING DEVICES

F2022/01036 - PILLAY, Thevendrin Class 8. MOUNTING DEVICES

F2022/01040 - APL CARTONS (PTY) LTD Class 09. CONTAINER

A2022/01034 - LIXIL CORPORATION Class 23. TOILET TRAP

F2022/01041 - APL CARTONS (PTY) LTD Class 09. CONTAINER

A2022/01038 - XERO LIMITED Class 14. SET OF SCREEN DISPLAYS WITH A GRAPHICAL USER INTERFACE AND HORIZONTAL PAGE INDICATOR

. - APPLIED ON 2022/09/05 -

F2022/01047 - BOTSALO ANGELINE CHOKOE Class 13. FENCE

F2022/01044 - NIENHUIS, Jan, Balster Class 13. BRACKET FOR MOUNTING SOLAR PANELS ON AN ABR ROOF

F2022/01043 - NIENHUIS, Jan, Balster Class 13. BRACKET FOR MOUNTING SOLAR PANELS ON A CORRUGATED ROOF

A2022/01045 - GREEN SHARE ENERGY (PTY) LTD Class 13. COMPUTING UNIT

F2022/01046 - GREEN SHARE ENERGY (PTY) LTD Class 13. COMPUTING UNIT

F2022/01042 - NIENHUIS, Jan, Balster Class 13. RAIL FOR MOUNTING SOLAR PANELS 2

. - APPLIED ON 2022/09/06 -

F2022/01049 - nomSoco Foods (Pty) Ltd Class 09. FOOD PACKAGING

A2022/01048 - nomSoco Foods (Pty) Ltd Class 09. FOOD PACKAGING

. - APPLIED ON 2022/09/07 -

F2022/01052 - SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD Class 15. PISTON

A2022/01051 - SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD Class 15. PISTON

A2022/01050 - LAURENSKIRK PROPRIETARY LIMITED T/A INVERROCHE DISTILLERY Class 9. BOTTLE

A2022/01053 - SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD Class 15. PISTON

F2022/01054 - SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD Class 15. PISTON

. - APPLIED ON 2022/09/08 -

A2022/01055 - Walrus Pump Co., Ltd. Class 15. PUMPS

. - APPLIED ON 2022/09/09 -

A2022/01067 - RSI NORTH AMERICA, INC. Class 08. PRESSURE LOCK

A2022/01061 - Philips Domestic Appliances Holding B.V. Class 07. STEAMER BASE

A2022/01063 - RSI NORTH AMERICA, INC. Class 08. PRESSURE LOCK

F2022/01066 - RSI NORTH AMERICA, INC. Class 08. PRESSURE LOCK

A2022/01056 - Philips Domestic Appliances Holding B.V. Class 07. STAND STEAMER

A2022/01062 - Philips Domestic Appliances Holding B.V. Class 07. STEAMER BASE

F2022/01069 - Loadtech Load Cells (Pty) Ltd Class 12. WHEEL LOCKING DEVICE

A2022/01057 - Philips Domestic Appliances Holding B.V. Class 07. STAND STEAMER

A2022/01060 - Philips Domestic Appliances Holding B.V. Class 07. STEAMER HEAD

A2022/01065 - RSI NORTH AMERICA, INC. Class 08. PRESSURE LOCK

F2022/01068 - RSI NORTH AMERICA, INC. Class 08. PRESSURE LOCK

A2022/01058 - Philips Domestic Appliances Holding B.V. Class 07. STAND STEAMER

A2022/01059 - Philips Domestic Appliances Holding B.V. Class 07. STEAMER HEAD

F2022/01064 - RSI NORTH AMERICA, INC. Class 08. PRESSURE LOCK

- APPLIED ON 2022/09/12 -

F2022/01071 - Riaan Ludik Class 12. A RETRACTABLE COMPARTMENT

A2022/01070 - VAN WYK, Daniel Johannes Class 13. HOUSINGS FOR ELECTRICAL EQUIPMENT

- APPLIED ON 2022/09/13 -

A2022/01078 - ROLEX SA Class 10. WATCH CASE

F2022/01073 - DAK ENGINEERING PROPRIETARY LIMITED Class 8. STRANDED CABLE

A2022/01075 - ROLEX SA Class 10. WATCH CASE

A2022/01076 - ROLEX SA Class 10. WATCH BEZEL

F2022/01072 - POYNTING ANTENNAS (PTY) LIMITED Class 13. HEAT SINK

A2022/01074 - ROLEX SA Class 10. WATCH CASE

A2022/01077 - ROLEX SA Class 10. WATCH BEZEL

- APPLIED ON 2022/09/14 -

F2022/01079 - Chumani Mgele Class 16. SMART STAND

- APPLIED ON 2022/09/15 -

F2022/01080 - Botha Family Trust Class 25. BEAMS

F2022/01082 - Botha Family Trust Class 25. VOID FORMERS

F2022/01083 - GUIZHOU YOUNPIN SLEEP HEALTH INDUSTRY CO., LTD Class 24. PHYSICAL AND MENTAL HEALTH ASSESSMENT DEVICE

F2022/01081 - Botha Family Trust Class 25. STIFFENERS

- APPLIED ON 2022/09/16 -

F2022/01084 - SPRINGLOK HOLDINGS (PTY) LTD Class 08. NUT

A2022/01104 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01087 - AB INITIO TECHNOLOGY LLC Class 14. DISPLAY PANEL PORTION WITH AN ANIMATED COMPUTER ICON

A2022/01093 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01095 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01096 - AB INITIO TECHNOLOGY LLC Class 14. DISPLAY PANEL PORTION WITH A COMPUTER ICON

A2022/01098 - AB INITIO TECHNOLOGY LLC Class 14. DISPLAY PANEL PORTION WITH AN ANIMATED COMPUTER ICON

A2022/01100 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01101 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01102 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01094 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01090 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01091 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01097 - AB INITIO TECHNOLOGY LLC Class 14. DISPLAY PANEL PORTION WITH AN ANIMATED COMPUTER ICON

A2022/01085 - MASERATI S.P.A. Class 12. CAR

A2022/01089 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01099 - AB INITIO TECHNOLOGY LLC Class 14. DISPLAY PANEL PORTION WITH AN ANIMATED COMPUTER ICON

A2022/01088 - AB INITIO TECHNOLOGY LLC Class 14. DISPLAY PANEL PORTION WITH AN ANIMATED COMPUTER ICON

A2022/01092 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01103 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2022/01086 - MASERATI Class 21. SCALE CAR MODEL

. - APPLIED ON 2022/09/19 -

A2022/01105 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

A2022/01115 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

F2022/01110 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

F2022/01106 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

A2022/01107 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

F2022/01116 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

A2022/01119 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

F2022/01120 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

F2022/01112 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

A2022/01117 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

F2022/01118 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

F2022/01122 - LOVEY MORAKENG MOLEFE Class 99. TROLLY STOPPER

A2022/01121 - PETITE FRENCH & CO (PTY) LTD Class 30. A SET OF TAGS FOR ANIMALS

F2022/01108 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

A2022/01111 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

A2022/01113 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

F2022/01114 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

A2022/01109 - ALPLA Werke Alwin Lehner GmbH & Co. KG Class 09. BOTTLE

. - APPLIED ON 2022/09/20 -

F2022/01123 - Ntshekisang Mervin Daw Class 32. COMPANY LOGO

. - APPLIED ON 2022/09/21 -

A2022/01126 - LVMH Swiss Manufactures SA Class 10. CASES FOR WATCHES

A2022/01124 - FERRARI S.P.A. Class 6. VEHICLE SEAT

A2022/01125 - CRAGG, Paul Edward Class 3. CRUTCH TOP PIECES

. - APPLIED ON 2022/09/22 -

A2022/01128 - O'CALLAGHAN, Jaco Class 10. DIRECTION SIGNALLING ACCESSORY

A2022/01129 - PALEOPET PURE RAW FOOD FOR PETS Class 9. A TUB CONTAINER

A2022/01127 - POLYGON TECHNOLOGIES CC Class 14. SECURITY SYSTEM BASE RECEIVER

. - APPLIED ON 2022/09/23 -

A2022/01136 - IDE ELECTRIC S.L. Class 13. ELECTRICAL SWITCHBOX

A2022/01135 - IDE ELECTRIC S.L. Class 13. ELECTRICAL SWITCHBOX

A2022/01137 - IDE ELECTRIC S.L. Class 13. ELECTRICAL SWITCHBOX

A2022/01138 - CONNEC LIMITED Class 13. CONNECTOR FOR A POWER TRANSMISSION AND COMMUNICATIONS SYSTEM

A2022/01139 - CONNEC LIMITED Class 13. CONNECTOR FOR A POWER TRANSMISSION AND COMMUNICATIONS SYSTEM

A2022/01140 - CONNEC LIMITED Class 13. BACK-TO-BACK CONNECTOR FOR A POWER TRANSMISSION AND COMMUNICATIONS SYSTEM

F2022/01132 - RAUTENBACH, James Jackson Class 15. FLOOR CLEANING APPARATUS

F2022/01133 - Reflex Instruments Asia Pacific Pty Ltd Class 14. LOCATORS FOR A SURVEY APPARATUS

F2022/01131 - COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN Class 12. TYRE THREAD

F2022/01134 - Reflex Instruments Asia Pacific Pty Ltd Class 14. LOCATORS FOR A SURVEY APPARATUS

F2022/01130 - COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN Class 12. TYRE THREAD

**ASSIGNMENT OF RIGHTS OF REGISTERED DESIGN IN TEMS OF SECTION 29 AND 30 REGULATION 37
(1) OF THE DESIGN ACT**

Application Number	Assignor	Assignee
A2016/00420	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2016/00416	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2016/00418	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2016/00419	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2014/01612	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2016/00417	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2016/00416	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2016/00477	AVIGILON CORPORATION	MOROROLA SOLUTIONS, INC.
A2014/00901	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2016/00421	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2014/01459	AVIGILON CORPORATION	MOTOROLA SOLUTIONS, INC.
A2018/01171	BRIDGESTONE EUROPE NV/SA	BRIDGESTONE MOBILITY SOLUTIONS B.V
A2018/01170	BRIDGESTONE EUROPE NV/SA	BRIDGESTONE MOBILITY SOLUTIONS B.V
A2018/01172	BRIDGESTONE EUROPE NV/SA	BRIDGESTONE MOBILITY SOLUTIONS B.V
A2018/01169	BRIDGESTONE EUROPE NV/SA	BRIDGESTONE MOBILITY SOLUTIONS B.V
A2015/00807	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2019/01456	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2015/00039	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2015/00802	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2019/01856	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2019/01457	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2015/00803	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2015/00804	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2015/00806	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2019/01836	VISION X ASIA CO., LTD	BROWN & WATSON INTERNATIONAL LIMITED
A2018/01223	Siemens Aktiengesellschaft	Siemens Energy Global GmbH & Co. KG
A2013/00943	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
F2013/00942	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
A2012/01472	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
F2012/01471	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
A2012/01758	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
F2012/01759	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
F2014/01716	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
F2015/00016	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
A2015/00015	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
A2014/01717	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
A2020/00974	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
F2020/00975	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
A2020/00972	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd
F2020/00973	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd

Application Number	Assignor	Assignee
F2020/01352	Hewitt & Associates (Pty) Ltd	H and A Creations (Pty) Ltd

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

No records available

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 11 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 11

Design No. F2016/00972
 Applicant: APL CARTONS (PROPRIETARY) LIMITED
 Class: 09
 Article to which the Design is to be applied: SET OF CONTAINERS
 Date of lodgment: 07/07/2016

Registrar of Designs

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (Payment to be affected by revenue stamps only.)

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgement. **(23)** release date (if applicable). **(DR)** Date of registration. **(52)** Class. **(24)** Type of design. **(71)** Name(s) of applicant(s). **(33)**

Country. **(31)** Number and. **(32)** Date of convention application. **(54)** Articles to which design is to be applied. **(57)** Brief statement of features.

N.B.: Date of registration (DR) is either Date of lodgement (22) or Date of convention of application (32) whichever is the earlier.

Registrar of Designs

21: A2019/01473 22: 2019-10-03 23:
43: 2022-07-26
52: Class 12. 24: Part A
71: ISUZU MOTORS LIMITED
33: JP 31: 2019-007404 32: 2019-04-05

54: Vehicle

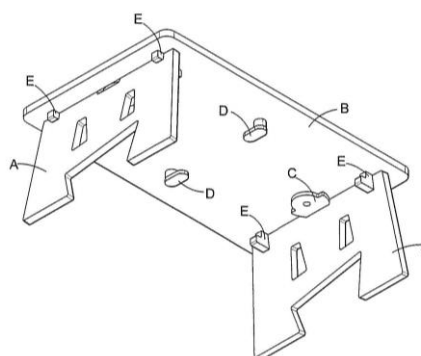
57: The design relates to a vehicle. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

52: Class 6 24: Part A
71: MYDINKY (PTY) LIMITED
54: FOLDABLE STEP/STOOL/TABLE

57: The design is applied to a foldable step/stool/table. The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation of a foldable step/stool/table substantially as illustrated in the accompanying representations.

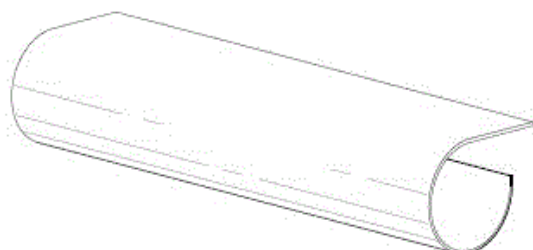


PERSPECTIVE VIEW FROM BELOW
OF FOLDABLE STEP/STOOL/TABLE

21: A2020/01016 22: 2020-07-22 23:
43: 2022-09-02
52: Class 23 24: Part A
71: HENTINA TRUST

54: GUTTER

57: The design relates to a gutter. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW
FROM ABOVE

21: A2021/00474 22: 2021-05-04 23:
43: 2022-08-01

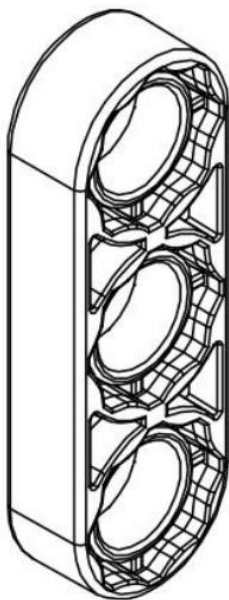
52: Class 21 24: Part A

71: SISAMOS, Konstantinos

54: SNAP-LOCK CONSTRUCTION TOY BEAM UNIT

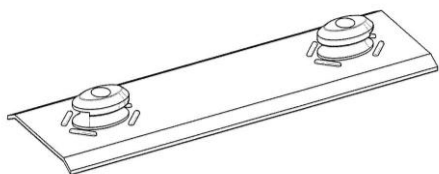
57: The features of the design for which protection is claimed relate to the shape and/or configuration of a snap-lock construction toy beam unit substantially as illustrated. The toy beam unit has three sockets each providing a female formation to receive a corresponding, co-operating male formation on another unit for snap-lock engagement.

21: A2020/01599 22: 2020-12-10 23:
43: 2022-09-02



PERSPECTIVE VIEW

21: A2021/00556 22: 2021-05-24 23:
43: 2022-09-02
52: Class 8 24: Part A
71: MULTOTEC MANUFACTURING (PTY) LIMITED
54: SCREEN PANEL FASTENER
57: The design relates to a screen panel fastener.
The features of the design are those of shape and/or
configuration and/or pattern and/or ornamentation.



TOP PERSPECTIVE VIEW

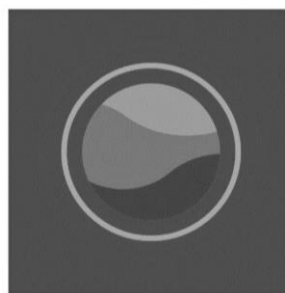
21: A2021/00561 22: 2021-05-24 23:
43: 2021-05-24
52: Class 2 24: Part A
71: Palm Footwear Manufacturers (Pty) Ltd
54: Footwear
57: This design is for a shoe, particularly a black
school shoe having an upper attached to a sole.
The upper comprises of a single piece quarter
having a heel insert operatively stitched to the
quarter at an interior of the shoe such that a stitch
line is visible from an exterior of the shoe. The heel
insert is typically a semi-circular insert such that the

stitch line appears as a semi-circular stitch pattern at
a rear of the shoe.



21: A2021/00631 22: 2021-06-02 23:
43: 2020-12-03
52: Class 14 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008308365-0001 32: 2020-12-03
54: USER INTERFACES

57: The design is applied to a user interface
comprising a charcoal coloured background. A light
grey coloured, larger circular ring member is
embedded substantially in the centre of the
background. A circular member is fitted in the
circular ring and spaced inwardly away therefrom by
an intermediate ring that has the same colour as the
background. The circular member comprises an
upper, intermediate, and lower segments. Each of
the segments are separated from each other by a
wavy boundary. The upper segment is shaded with a
light grey color which is of the same colour as that of
the larger circular ring. The intermediate segment is
shaded with a darker gray colour, and the lower
segment is shaded with a black hue. The upper
segment occupies the smallest space in the circular
member, followed by the lower segment, and then
by the intermediate segment.



Sole Figure

21: A2021/00632 22: 2021-06-02 23:
43: 2020-12-03
52: Class 14 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008308365-0004 32: 2020-12-03

54: USER INTERFACES

57: The design is applied to a user interface comprising a charcoal background. A dark grey thin band extends longitudinally across the top of the background. A light grey larger band extends across the centre of the background. A dark grey, first circular member is provided on top of the band proximate an end thereof. A light grey, gently waved line is embedded in the first circle. A charcoal coloured second circle of the same size as, and aligned with, the first circle, is fitted in the larger band. A light grey coloured wavy line is embedded in the second circle, which wavy line that has two troughs and two crests. A black shaded third circle of the same size as, and aligned with, the other circles, is provided below the larger band. The third circle is shaded in black and has a wavy line having multiple crests and troughs.



Sole Figure

21: A2021/00715 22: 2021-06-15 23: 43: 2020-12-17
52: Class 15 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008329478-0001 32: 2020-12-17

54: NOZZLES

57: The design is applied to a nozzle including a body comprising a base, having a pair of opposite minor edges and a pair of opposite, elongate edges; raised blocks proximate the minor edges, each raised block comprising longitudinally spaced, elongate openings; a raised intermediate portion extending from the base and straddled by the raised blocks, and a rear portion connected to the intermediate portion. The intermediate portion defines a slot through which a bellow conduit is provided. A connector extends from a rear end of the bellow conduit, the connector comprises a downwardly sloping portion and an elongate, substantially straight portion extending from the sloping portion. A raised, elongate actuator with rounded edges is provided on the straight portion. A

substantially T-shaped head extends from a front end of the bellow conduit. Each of the head and rear portion have an opened underside accommodating longitudinally spaced, triangular shaped gripping members.

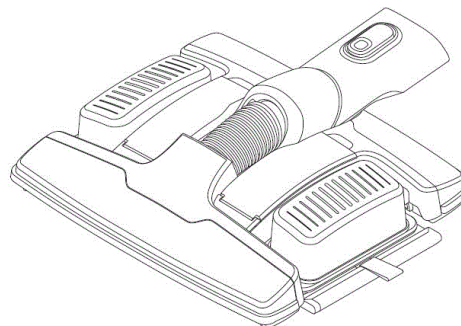


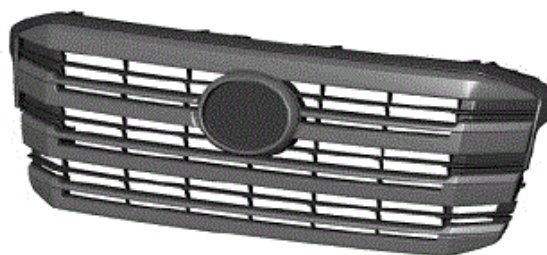
Figure 1

Three-dimensional view

21: A2021/00768 22: 2021-07-01 23: 43: 2022-07-06
52: Class 12. 24: Part A
71: TOYOTA JIDOSHA KABUSHIKI KAISHA
33: JP 31: 2021-000054 32: 2021-01-05

54: Front Grille for an Automobile

57: The design relates to a front grille for an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

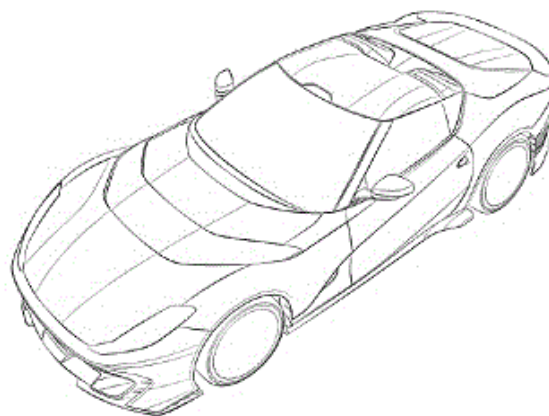
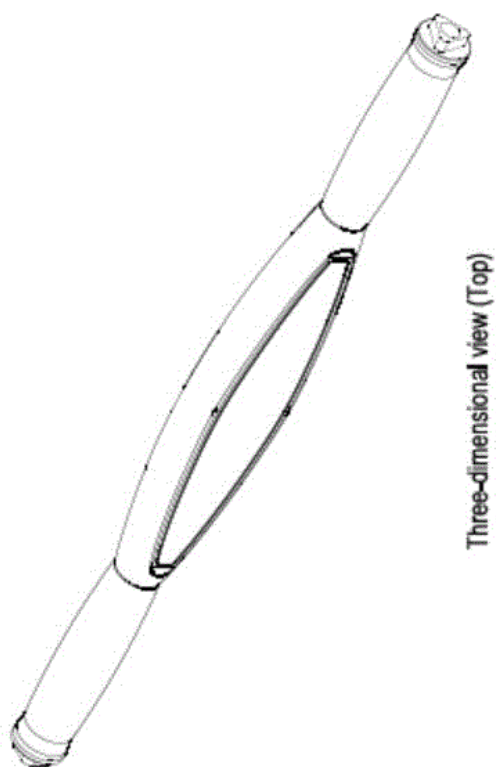


PERSPECTIVE VIEW

21: A2021/00792 22: 2021-07-08 23: 43: 2021-07-08
52: Class 12 24: Part A
71: SUPERCART SOUTH AFRICA (PTY) LTD
54: **TROLLEY HANDLE WITH INTEGRAL TAG HOLDER**

57: The design is applied to a trolley handle with an integral tag holder formed therein, the trolley handle being connectable between and across the top ends of spaced apart connecting posts that extend

upwardly from a wheeled chassis of a trolley. With reference to the exploded view, the handle (H) comprises a central bridge between two end handgrips, with a lower/inner portion of the central bridge defining a cavity for accommodating a tag (T). In use, a cover (C) is provided to enclose the cavity with the tag (T) located therein. The dotted portions are disclaimed and do not form any part of the claimed design.



FRONT PERSPECTIVE VIEW

21: A2021/01095 22: 2021-09-14 23:
43: 2021-03-15
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/774,231 32: 2021-03-15

54: FOOTWEAR

57: The present design consists of a sandal that has features that make it new and original. The present design consists of a sandal characterized by a slip-on-type construction consisting of two upper straps, a heel strap connected to the rear upper strap, and a sole. The sole includes an upper trim portion that is wider at the front, a first middle portion beneath the upper trim portion, a middle heel portion beneath the first middle portion at the heel of the sandal, and a tread trim portion beneath the first middle portion in the front of the sandal and beneath the middle heel portion in the heel of the sandal. The middle heel portion includes round surface ornamentation. The two upper straps are characterized by rounded holes. The strap in the front of the sandal is characterized by a trapezoidal hole where the strap meets the sole. The heel strap is characterized by a recess surrounding an oblong surface on the heel strap.

21: A2021/00940 22: 2021-08-06 23:
43: 2022-07-20
52: Class 12. 24: Part A
71: FERRARI S.P.A.
33: IB 31: DM/213968 32: 2021-02-09

54: Car

57: The design relates to a car. The features of the design are those of shape and/or configuration and/or ornamentation.



Figure 1

Three-dimensional view

21: A2021/01107 22: 2021-09-20 23:
43: 2021-04-19
52: Class 32 24: Part A
71: CSIR

54: Camouflage Surface Patterns

57: The design is for a surface pattern. The surface pattern includes spaced apart clusters of randomly distributed pixilated shaped marks/devices.



21: A2021/01113 22: 2021-09-20 23:

43: 2021-04-19
52: Class 2 24: Part A
71: CSIR

54: Garments

57: The design is for a garment having a surface pattern. The surface pattern includes a background and spaced apart clusters of randomly distributed pixilated shaped marks/devices.



21: A2021/01115 22: 2021-09-20 23:
43: 2021-04-19
52: Class 32 24: Part A
71: CSIR

54: Camouflage Surface Patterns

57: The design is for a surface pattern. The surface pattern includes spaced apart clusters of randomly distributed pixilated shaped marks/devices.



21: A2021/01123 22: 2021-09-20 23:
43: 2021-04-19
52: Class 2 24: Part A
71: CSIR

54: Garments

57: The design is for a garment having a surface pattern. The surface pattern includes a background and spaced apart clusters of randomly distributed pixilated shaped marks/devices.



21: A2021/01127 22: 2021-09-21 23:
43: 2021-03-22
52: Class 9 24: Part A
71: Actelion Pharmaceuticals Ltd
33: US 31: 29/775,260 32: 2021-03-22

54: PACKAGING

57: The design is for packaging, specifically a blister package comprising a planar substantially rectangular body with a front surface and a rear surface. The body has rounded corners at a first end and a trapezium-shaped folding lip at an opposite, second end which includes a central, semi-circular tab. The front surface includes alphanumeric information enclosed in multiple, generally rectangular shapes which each have one rounded corner in varying orientations. Multiple circles with an enclosed triangle arrow show links between some of the shapes. The body is able to be folded in half so that the halves of the front surface are facing one another.

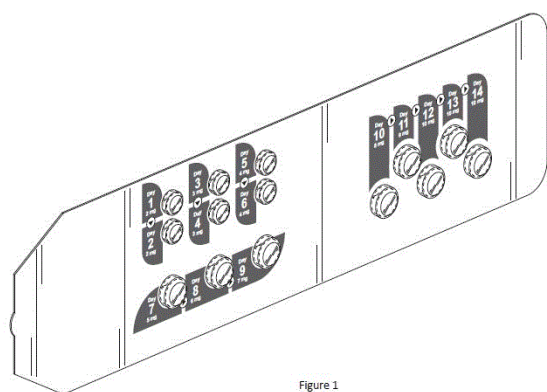


Figure 1
Three-dimensional view of the design
in an unfolded configuration

21: A2021/01128 22: 2021-09-21 23:
43: 2021-03-22

52: Class 9 24: Part A

71: Actelion Pharmaceuticals Ltd

33: US 31: 29/775,260 32: 2021-03-22

54: PACKAGING

57: The design is for packaging, specifically a blister package comprising a planar substantially rectangular body with a front surface and a rear surface. The body has rounded corners at a first end and a trapezium-shaped folding lip at an opposite, second end which includes a central, semi-circular tab. The front surface includes multiple, generally rectangular shapes which each have one rounded corner, in varying orientations. Multiple circles with an enclosed triangle arrow show links between some of the shapes. The body is able to be folded in half so that the halves of the front surface are facing one another.

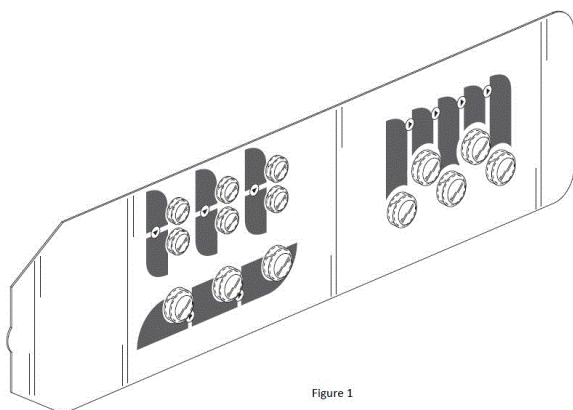


Figure 1
Three-dimensional view of the design
in an unfolded configuration

21: A2021/01205 22: 2021-09-30 23:
43: 2022-04-12

52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130183631.2 32: 2021-04-01

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view the history function of a display screen panel. In the state changing view the graphical user interface may show the history function as one or more icons on a single screen.



21: A2021/01206 22: 2021-09-30 23:
43: 2022-05-04

52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130183631.2 32: 2021-04-01

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view the history function of a display screen panel. In the state changing view the graphical user interface may show the history function as one or more icons on a single screen.



21: A2021/01207 22: 2021-10-01 23:

43: 2022-05-04

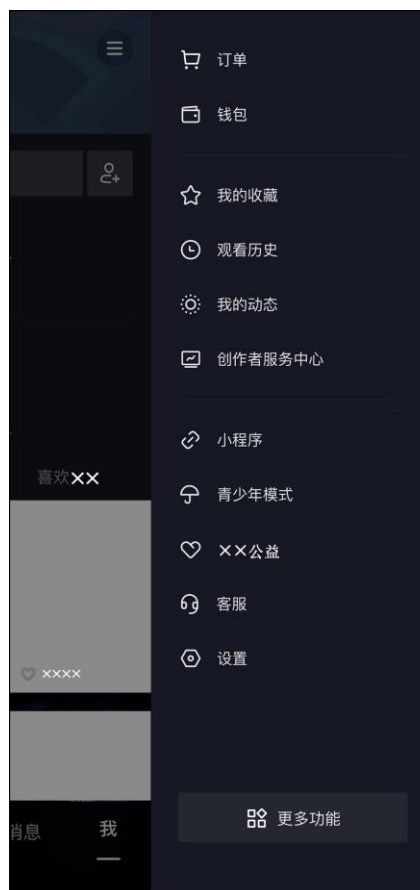
52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130183631.2 32: 2021-04-01

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view the history function of a display screen panel. In the state changing view the graphical user interface may show the history function as one or more icons on a single screen.



21: A2021/01219 22: 2021-10-06 23:

43: 2022-05-18

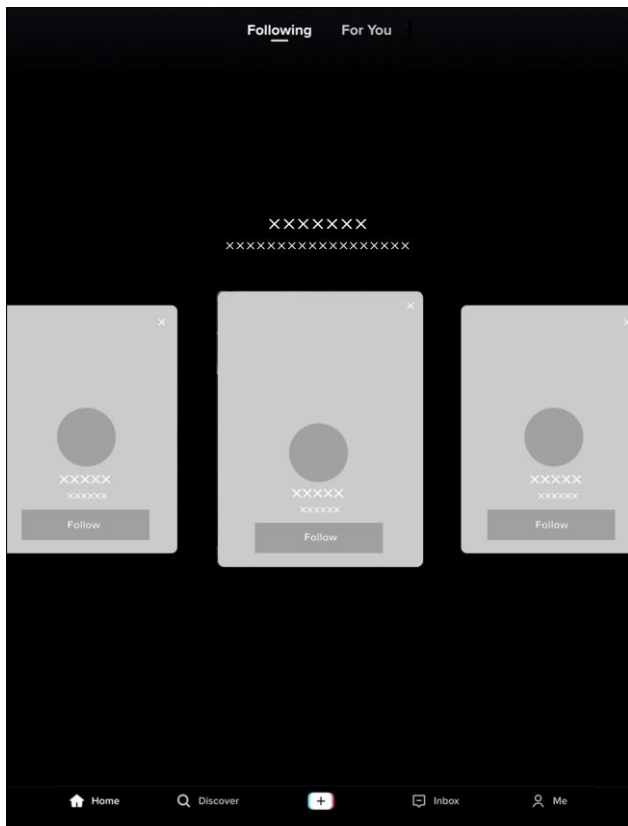
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

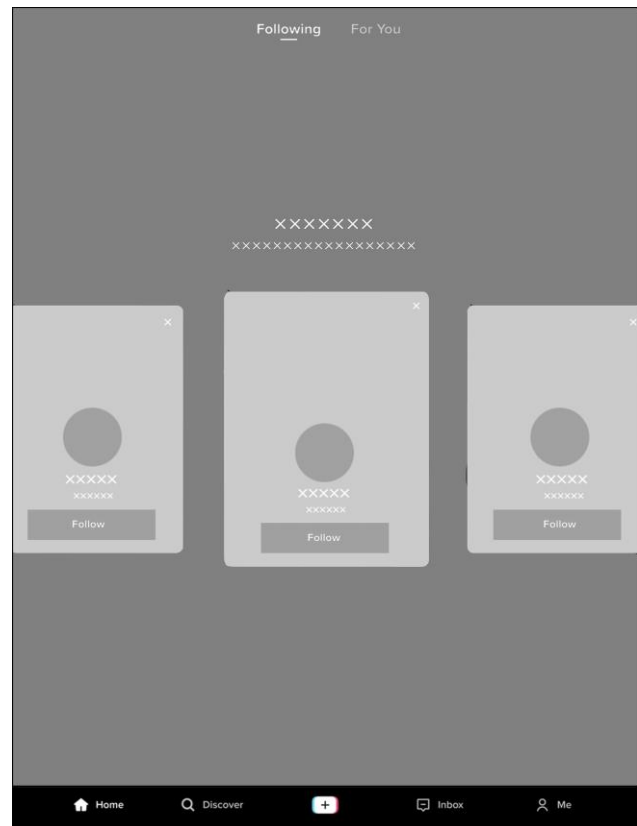
33: CN 31: 202130190708.9 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

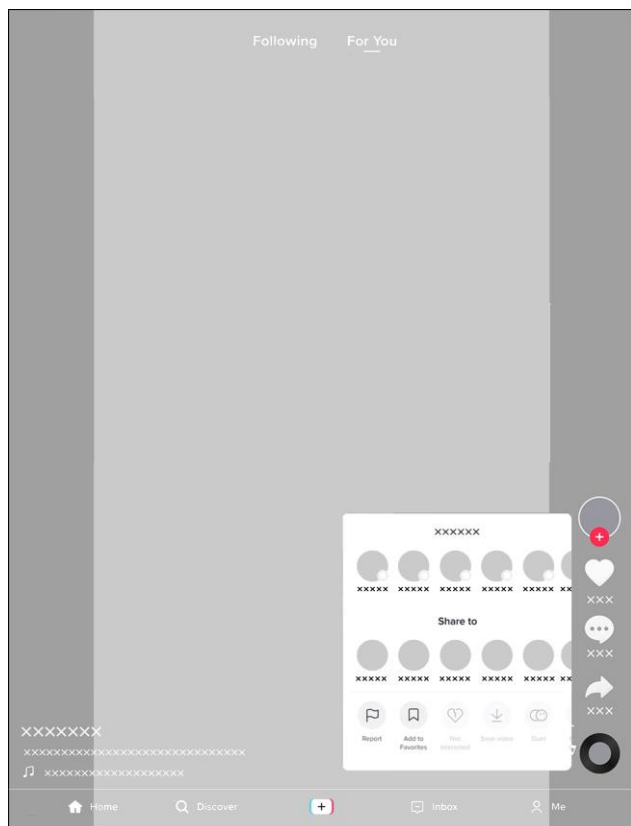
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to so-called "follow" digital content displayed on a device.



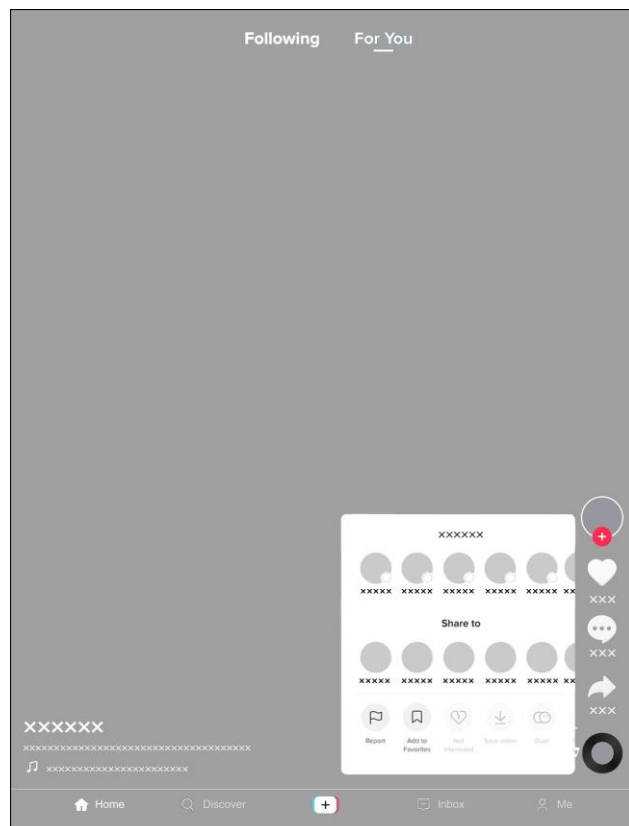
21: A2021/01221 22: 2021-10-06 23:
43: 2022-05-18
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190708.9 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to so-called "follow" digital content displayed on a device.



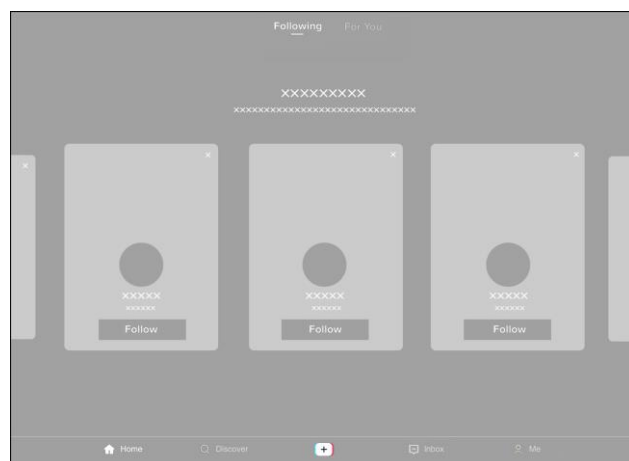
21: A2021/01222 22: 2021-10-06 23:
43: 2022-05-18
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190707.4 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to share videos displayed on a device.



21: A2021/01223 22: 2021-10-06 23:
43: 2022-09-02
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190707.4 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to share videos displayed on a device.



21: A2021/01224 22: 2021-10-06 23:
43: 2022-05-18
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190930.9 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to so-called "follow" a variety of digital content irrespective of the type of content being followed.



21: A2021/01226 22: 2021-10-06 23:
43: 2022-09-02

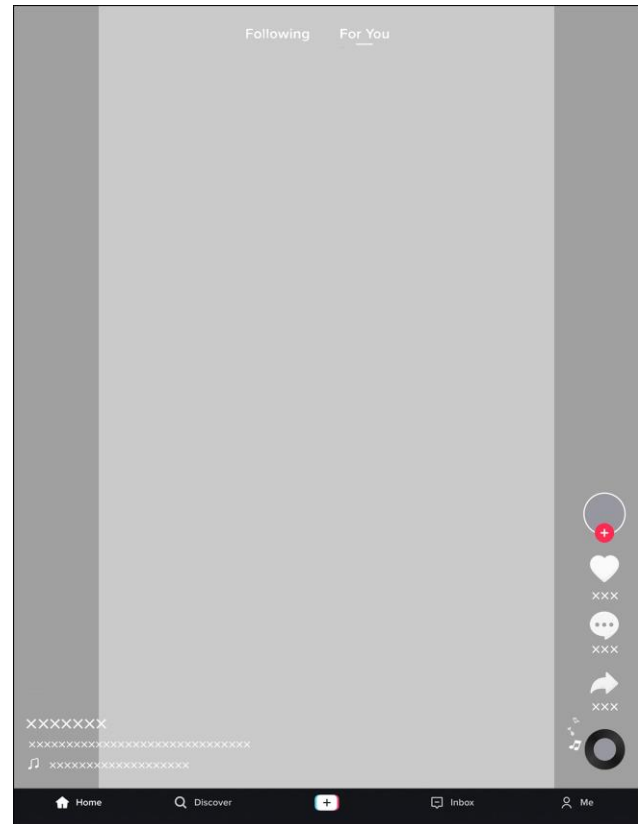
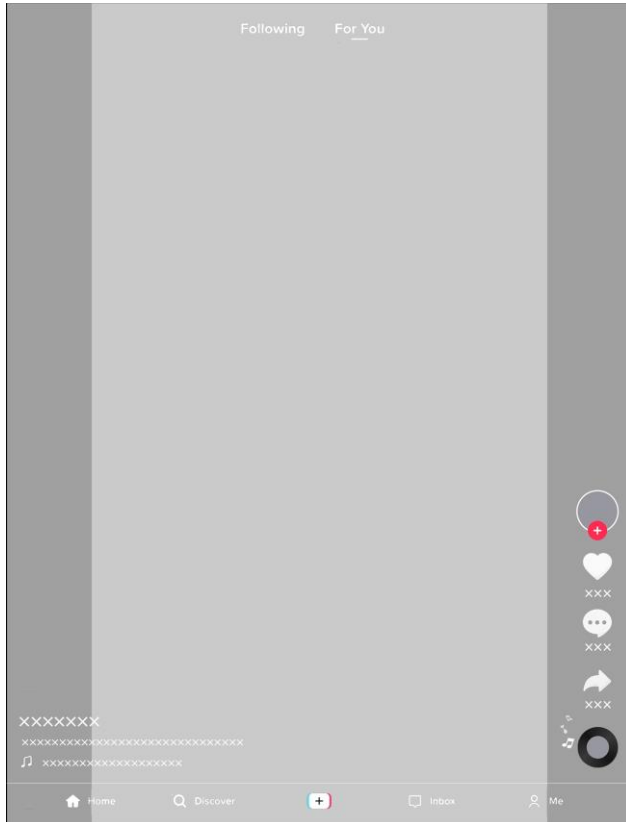
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190936.6 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view and play videos.



21: A2021/01228 22: 2021-10-06 23:
43: 2022-05-18

52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190936.6 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view and play videos.

21: A2021/01227 22: 2021-10-06 23:
43: 2022-05-18

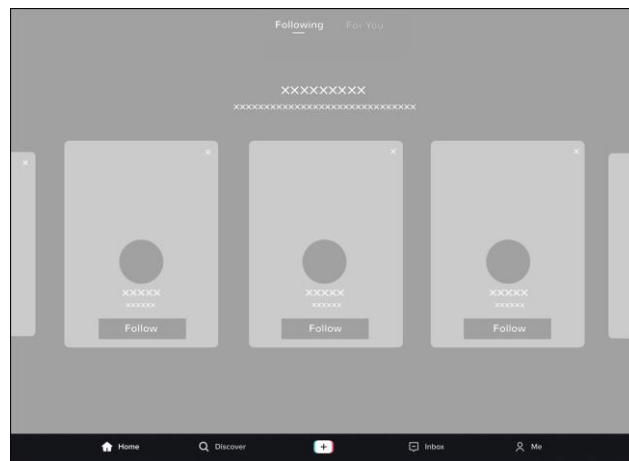
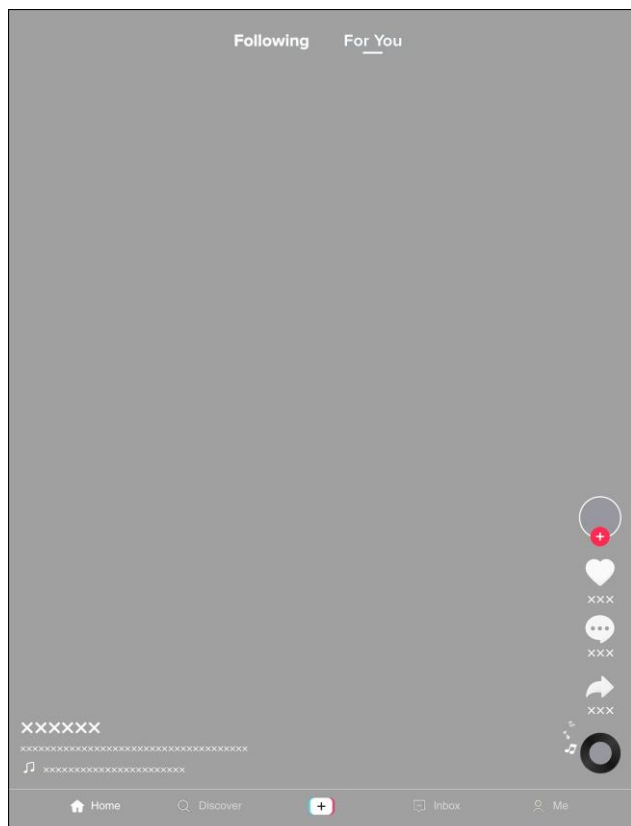
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190936.6 32: 2021-04-06

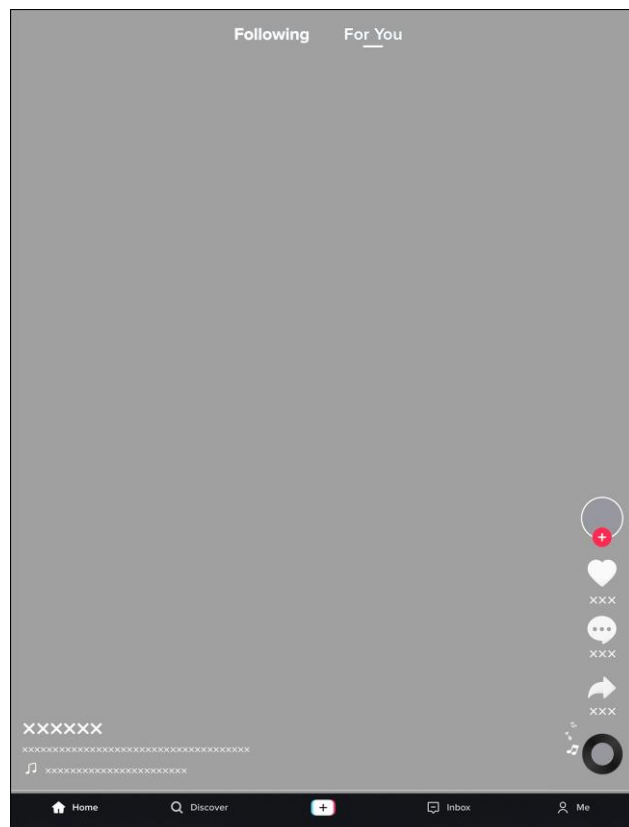
54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view and play videos.



21: A2021/01230 22: 2021-10-06 23:
43: 2022-05-19
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190936.6 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view and play videos.

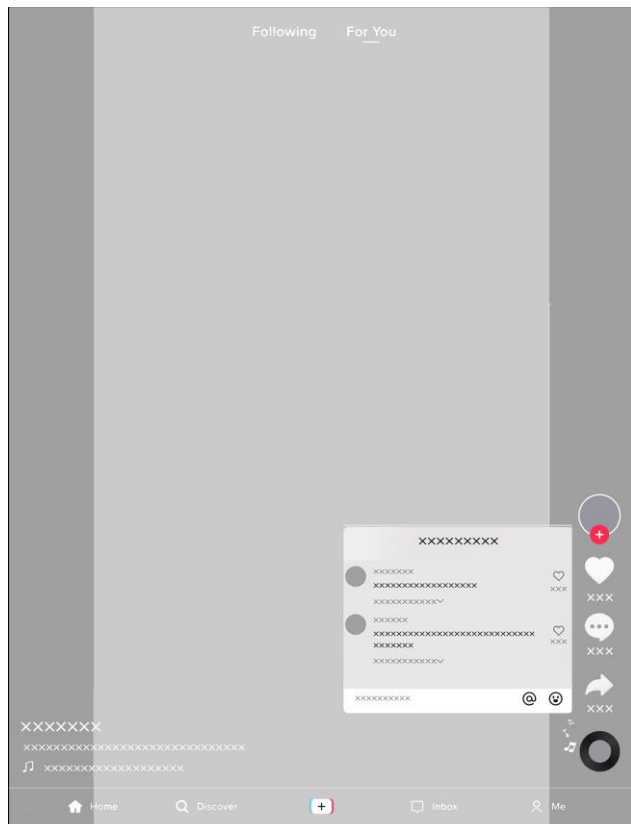
21: A2021/01229 22: 2021-10-06 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190930.9 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to so-called "follow" a variety of digital content irrespective of the type of content being followed.



21: A2021/01231 22: 2021-10-06 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190706.X 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

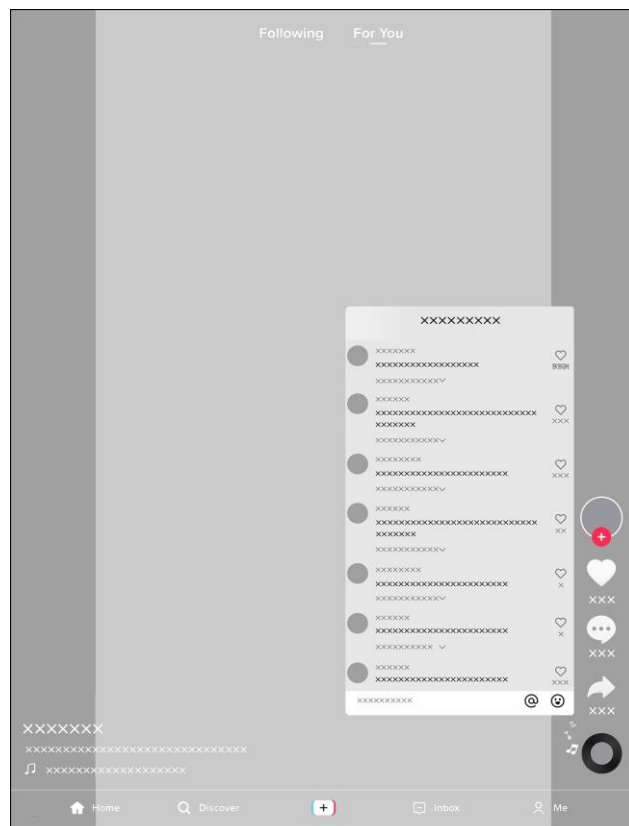
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



21: A2021/01232 22: 2021-10-06 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190706.X 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

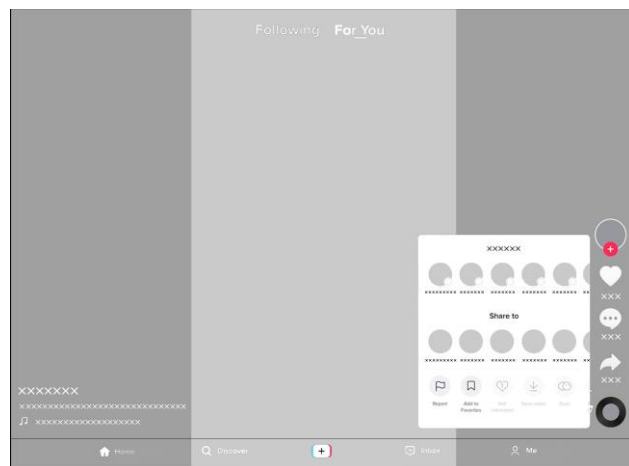
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



21: A2021/01233 22: 2021-10-06 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190929.6 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to share one or more videos.



21: A2021/01234 22: 2021-10-06 23:

43: 2022-05-04

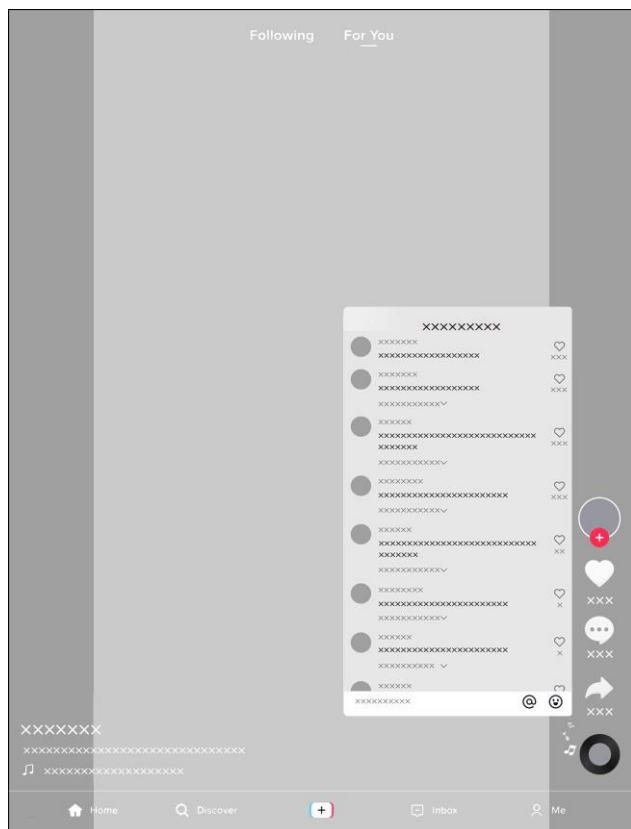
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190706.X 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



21: A2021/01235 22: 2021-10-06 23:

43: 2022-05-04

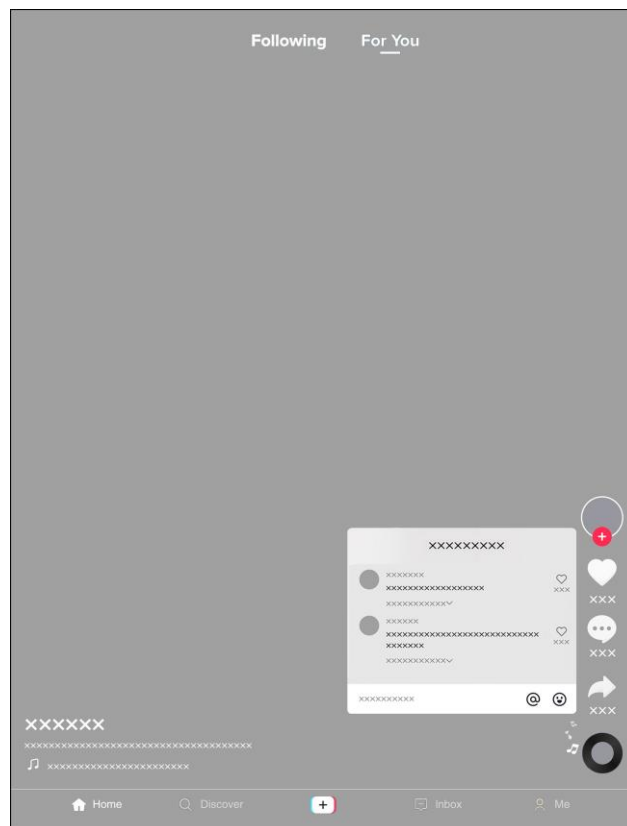
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190706.X 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



21: A2021/01236 22: 2021-10-06 23:

43: 2022-05-04

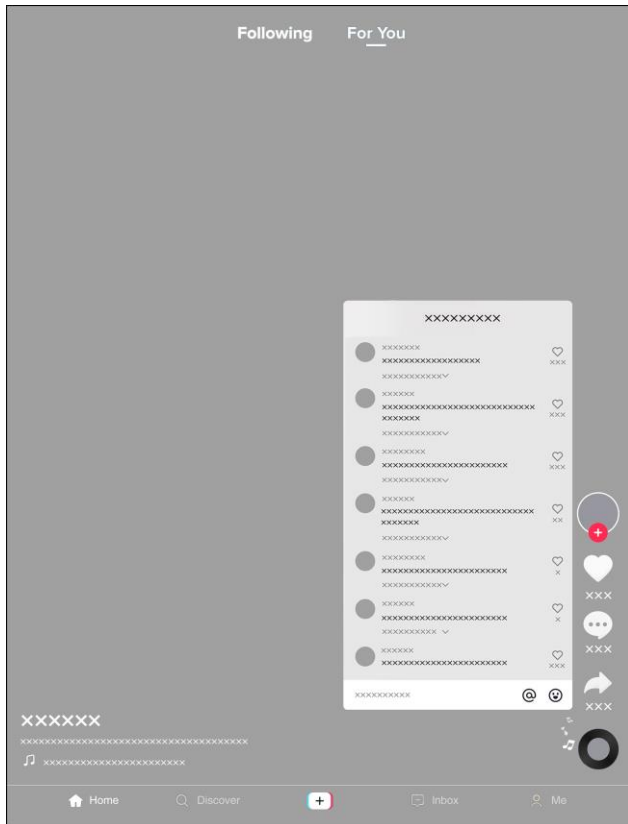
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

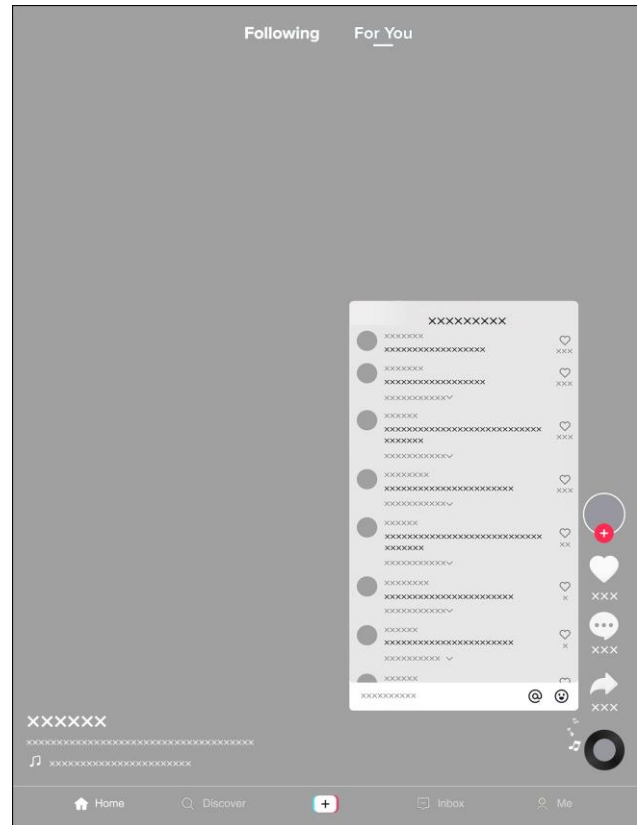
33: CN 31: 202130190706.X 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

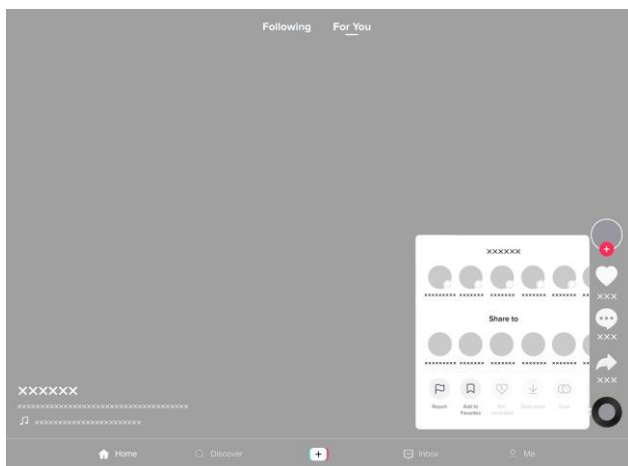
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



43: 2022-05-04
 52: Class 32 24: Part A
 71: Beijing Zitiao Network Technology Co., Ltd.
 33: CN 31: 202130190706.X 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
 57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.

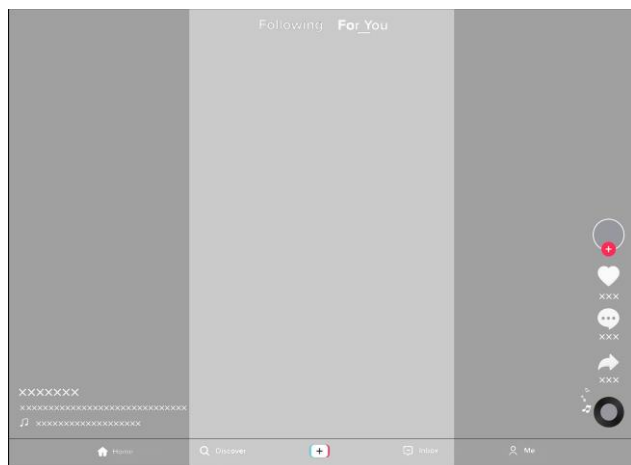


21: A2021/01240 22: 2021-10-06 23:
 43: 2022-05-04
 52: Class 32 24: Part A
 71: Beijing Zitiao Network Technology Co., Ltd.
 33: CN 31: 202130190929.6 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
 57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to share one or more videos.



21: A2021/01242 22: 2021-10-06 23:
 43: 2022-05-04
 52: Class 32 24: Part A
 71: Beijing Zitiao Network Technology Co., Ltd.
 33: CN 31: 202130190932.8 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
 57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view one or more videos.

21: A2021/01241 22: 2021-10-06 23:



21: A2021/01243 22: 2021-10-06 23:

43: 2022-05-04

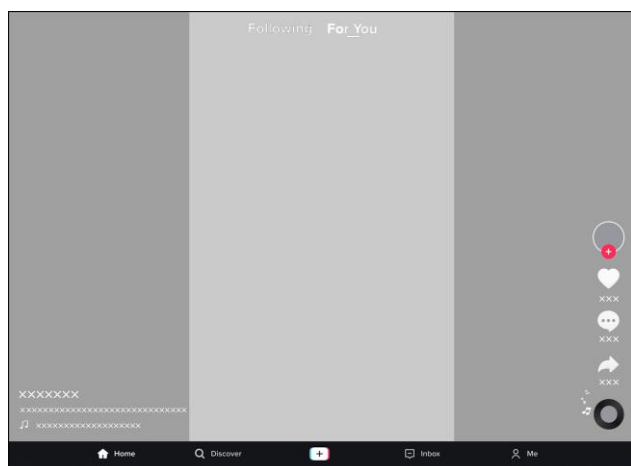
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190932.8 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view one or more videos.



21: A2021/01244 22: 2021-10-06 23:

43: 2022-05-04

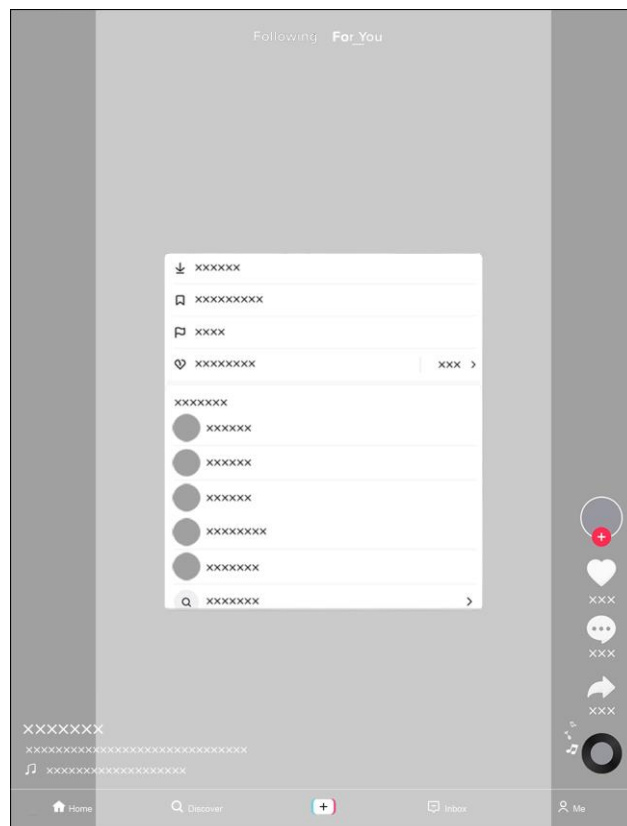
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190928.1 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content, more specifically video content.



21: A2021/01245 22: 2021-10-06 23:

43: 2022-05-04

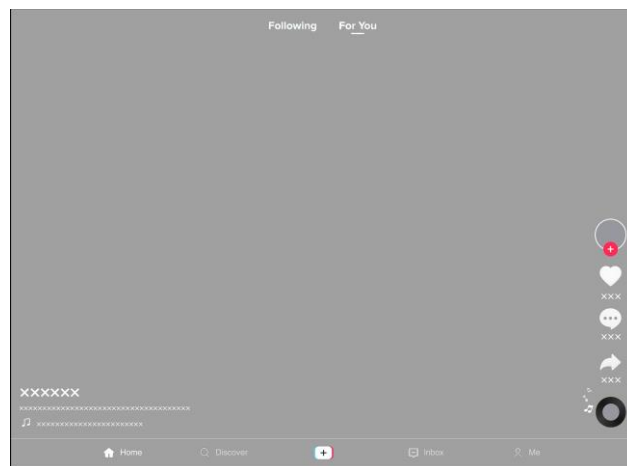
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190932.8 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view one or more videos.



21: A2021/01246 22: 2021-10-06 23:

43: 2022-05-04

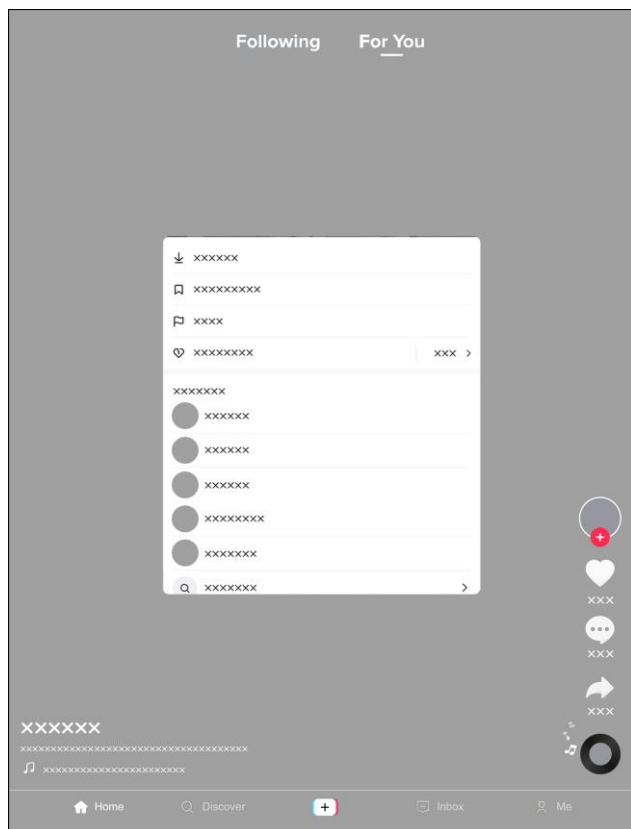
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190928.1 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content, more specifically video content.



21: A2021/01247 22: 2021-10-06 23:

43: 2022-05-04

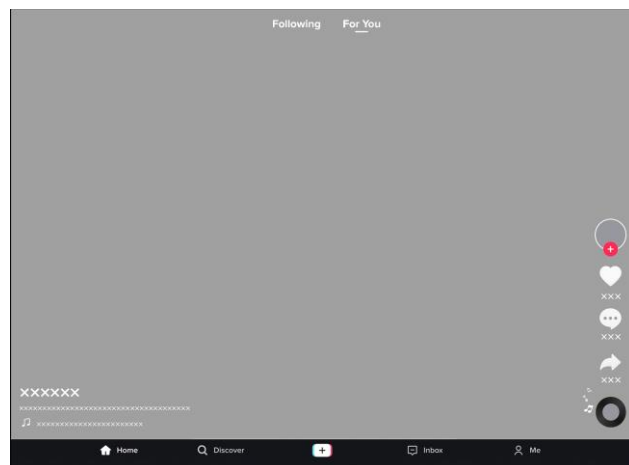
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190932.8 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view one or more videos.



21: A2021/01248 22: 2021-10-06 23:

43: 2022-05-04

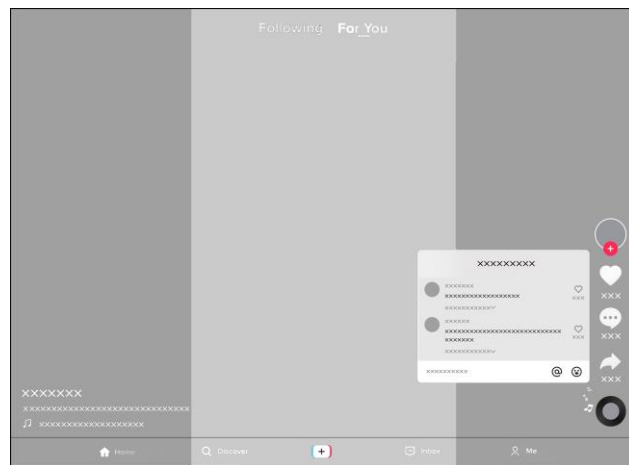
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190931.3 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



21: A2021/01249 22: 2021-10-06 23:

43: 2022-05-04

52: Class 32 24: Part A

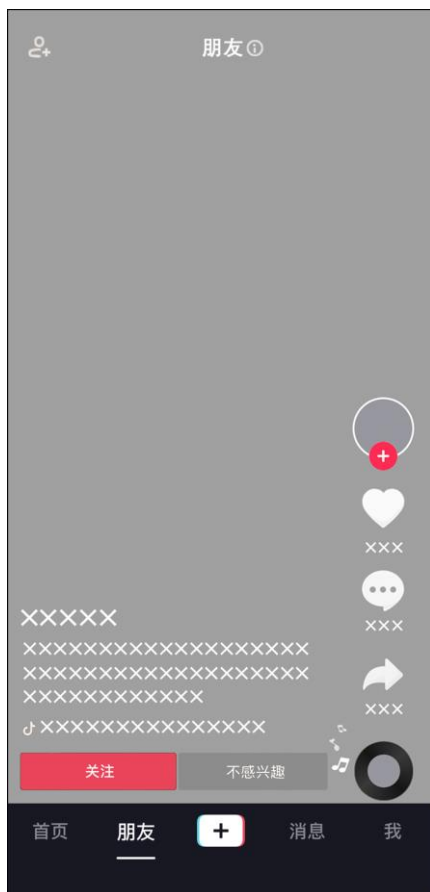
71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190810.9 32: 2021-04-06

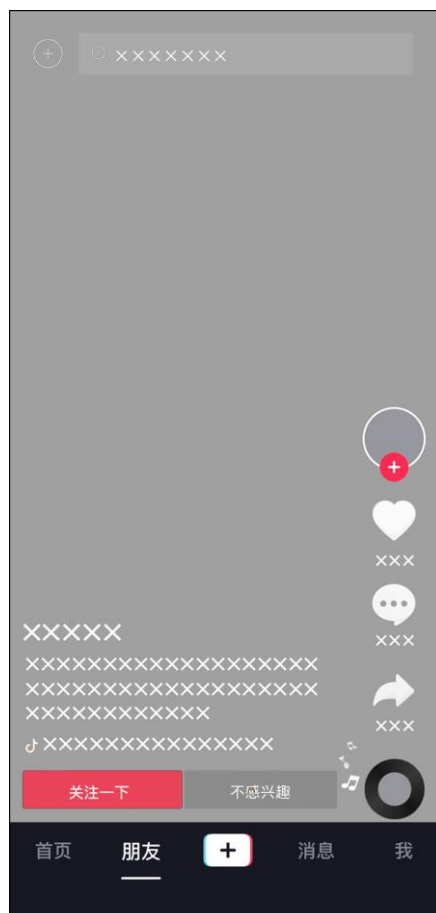
54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions,

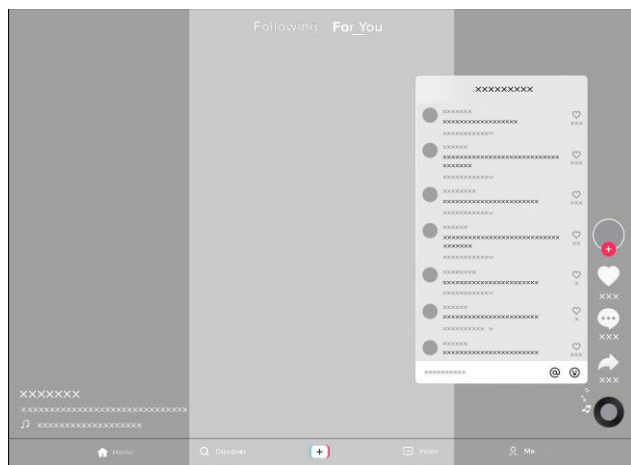
in use, to allow a user to so-called “follow” the digital content displayed on the display screen.



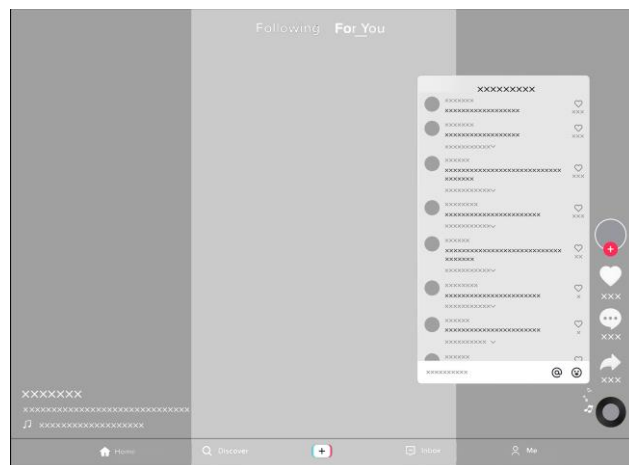
21: A2021/01250 22: 2021-10-06 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190810.9 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to so-called “follow” the digital content displayed on the display screen.



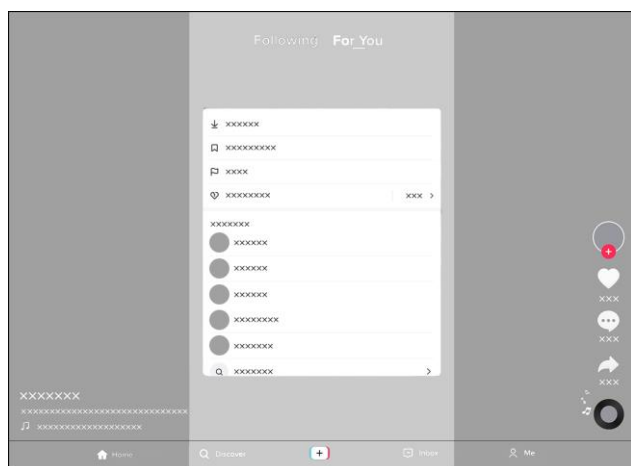
21: A2021/01251 22: 2021-10-06 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190931.3 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



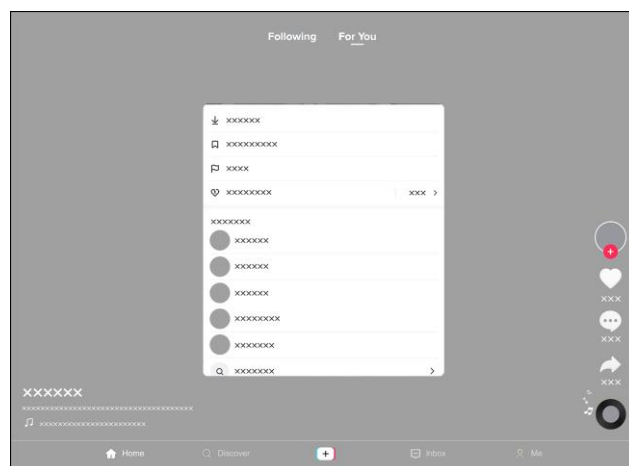
21: A2021/01252 22: 2021-10-06 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190920.5 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view and play videos.



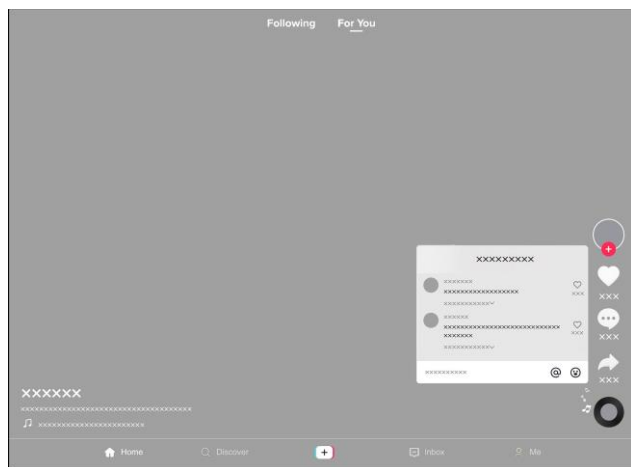
21: A2021/01254 22: 2021-10-06 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190920.5 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view and play videos.



21: A2021/01253 22: 2021-10-06 23:
43: 2022-05-18
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190931.3 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



21: A2021/01255 22: 2021-10-06 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Zitiao Network Technology Co., Ltd.
33: CN 31: 202130190931.3 32: 2021-04-06
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



21: A2021/01256 22: 2021-10-06 23:

43: 2022-05-04

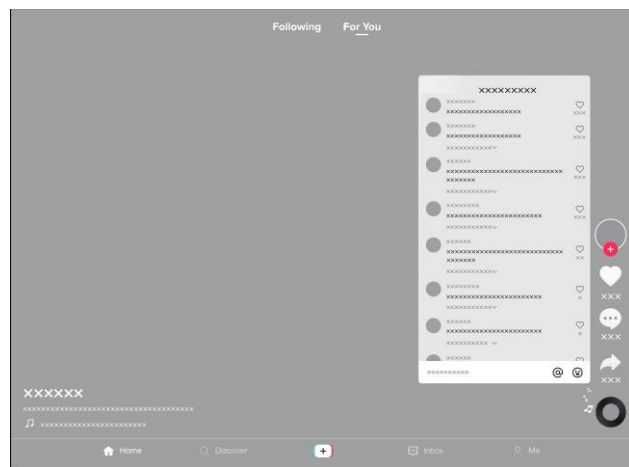
52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190931.3 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



21: A2021/01266 22: 2021-10-07 23:

43: 2022-05-04

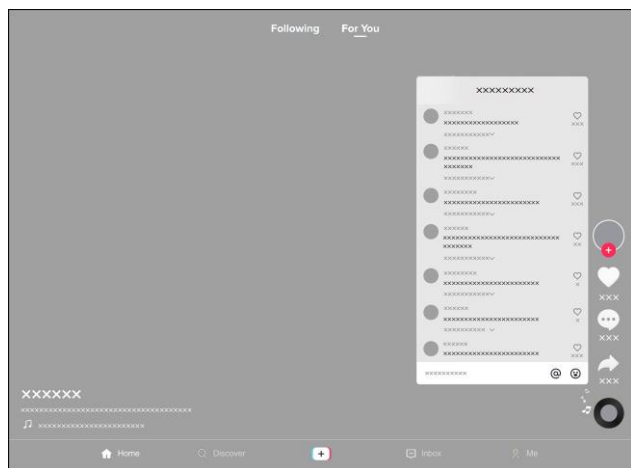
52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130207847.8 32: 2021-04-13

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



21: A2021/01257 22: 2021-10-06 23:

43: 2022-05-04

52: Class 32 24: Part A

71: Beijing Zitiao Network Technology Co., Ltd.

33: CN 31: 202130190931.3 32: 2021-04-06

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view digital content and comment thereon.



21: A2021/01267 22: 2021-10-07 23:

43: 2022-05-04

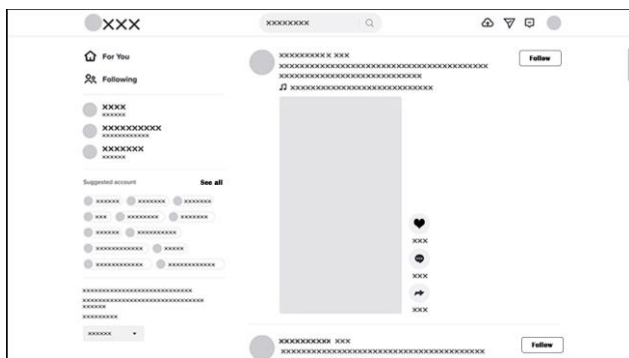
52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130207847.8 32: 2021-04-13

54: A GRAPHICAL USER INTERFACE

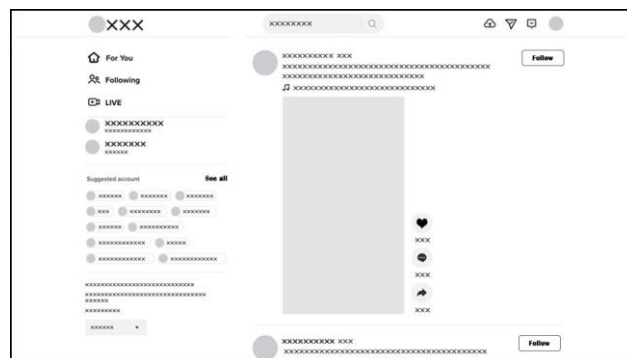
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



21: A2021/01269 22: 2021-10-07 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Kuaimajiabian Technology Co., Ltd.
33: CN 31: 202130207847.8 32: 2021-04-13

54: A GRAPHICAL USER INTERFACE

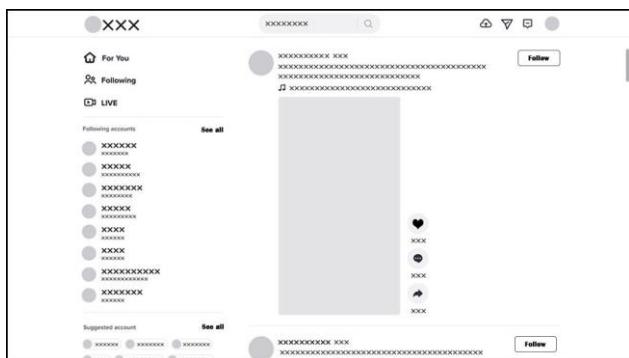
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



21: A2021/01271 22: 2021-10-07 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Kuaimajiabian Technology Co., Ltd.
33: CN 31: 202130207847.8 32: 2021-04-13

54: A GRAPHICAL USER INTERFACE

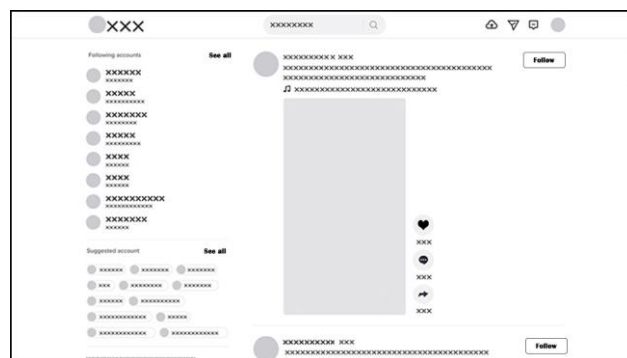
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



21: A2021/01270 22: 2021-10-07 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Kuaimajiabian Technology Co., Ltd.
33: CN 31: 202130207847.8 32: 2021-04-13

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



21: A2021/01280 22: 2021-10-13 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Kuaimajiabian Technology Co., Ltd.
33: CN 31: 202130207846.3 32: 2021-04-13

54: A GRAPHICAL USER INTERFACE

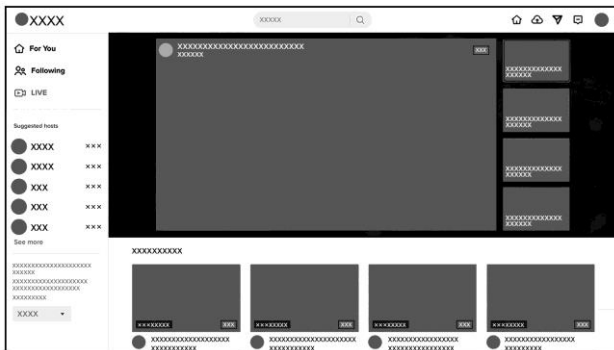
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



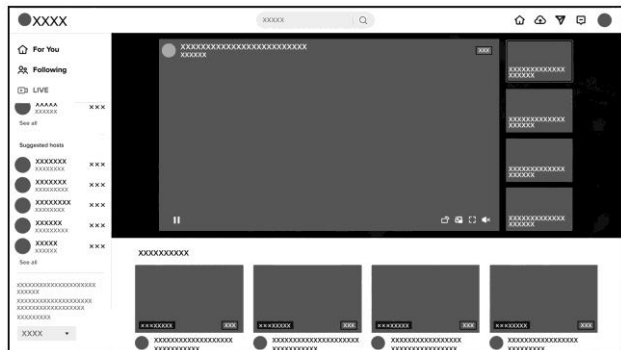
21: A2021/01281 22: 2021-10-13 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Kuaimajiabian Technology Co., Ltd.
33: CN 31: 202130207846.3 32: 2021-04-13
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



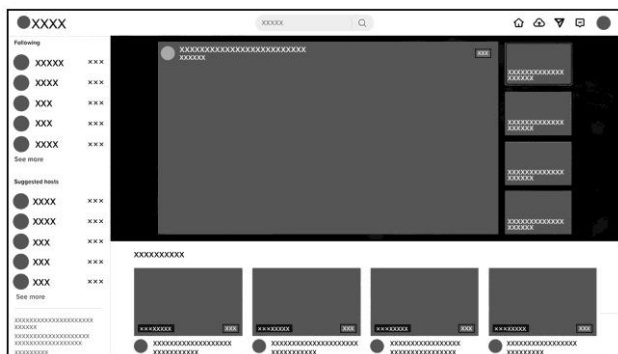
21: A2021/01283 22: 2021-10-13 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Kuaimajiabian Technology Co., Ltd.
33: CN 31: 202130207846.3 32: 2021-04-13
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



21: A2021/01282 22: 2021-10-13 23:
43: 2022-05-04
52: Class 32 24: Part A
71: Beijing Kuaimajiabian Technology Co., Ltd.
33: CN 31: 202130207846.3 32: 2021-04-13
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



21: A2021/01284 22: 2021-10-13 23:
43: 2022-09-02
52: Class 32 24: Part A
71: Beijing Kuaimajiabian Technology Co., Ltd.
33: CN 31: 202130207846.3 32: 2021-04-13
54: A GRAPHICAL USER INTERFACE
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



21: A2021/01285 22: 2021-10-13 23:

43: 2022-05-04

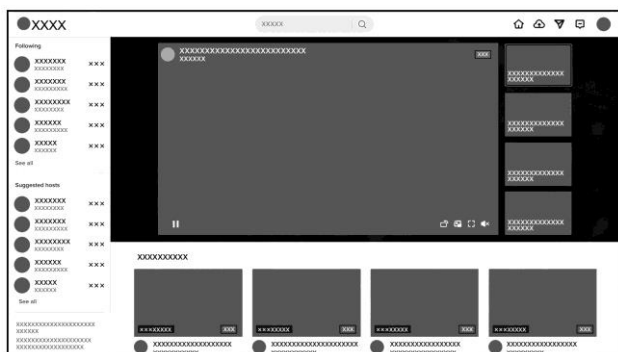
52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130207846.3 32: 2021-04-13

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view a video on the display screen of a device.



21: A2021/01286 22: 2021-10-13 23:

43: 2022-05-04

52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130211036.5 32: 2021-04-14

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view so-called "personal favourites" in terms of content on the device.



21: A2021/01287 22: 2021-10-13 23:

43: 2022-09-02

52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130211036.5 32: 2021-04-14

54: A GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface described herein functions, in use, to allow a user to view so-called "personal favourites" in terms of content on the device.



**TOP, FRONT AND RIGHT SIDE
PERSPECTIVE VIEW**

21: A2021/01361 22: 2021-11-03 23:
43: 2022-07-12
52: Class 09 24: Part A
71: CROMA-PHARMA GMBH
33: EU 31: 008535272-0003 32: 2021-05-10

54: PACKAGING BOX

57: The design is applied to a packaging box. 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 packaging box, substantially as illustrated in the accompanying representation.

21: A2021/01320 22: 2021-10-26 23:
43: 2022-07-21
52: Class 2. 24: Part A
71: PUMA SE
33: US 31: 29/805,933 32: 2021-08-31

54: Shoe Midsole

57: The design relates to a shoe midsole. The features of the design are those of shape and/or configuration and/or ornamentation.

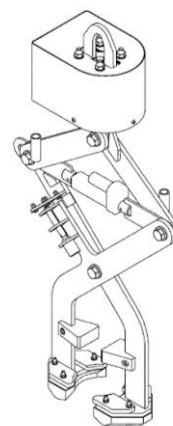


21: A2021/01379 22: 2021-11-05 23:
43: 2021-05-07
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402021100435.1 32: 2021-05-07
54: MOTOR VEHICLES
57: The design is for a motor vehicle in the form of a five-door hatchback or tourer. A front bumper has a centrally located large octagonal double kidney grille and includes a splitter beneath extending outwardly to define air intakes. Triangular-shaped headlights with rounded edges are provided on either side of the grille. Each door has an elongate, flush-integrated handle located below an upwardly, rearwardly inclined continuous contour line on each side of the car. Rear lights are provided on a rear door and outer edges of the rear of the motor vehicle.



Figure 1
Three-dimensional view

21: A2021/01390 22: 2021-11-05 23:
43: 2022-05-19
52: Class 15 24: Part A
71: CHESTER BROWN INDUSTRIES PTY LTD
33: AU 31: 202112653 32: 2021-05-06
54: CUTTING TOOL HANDLING ASSEMBLY
57: The features of the design for which protection is claimed reside in the shape and/or configuration of the cutting tool handling assembly substantially as shown in the accompanying representations. The article of the design consists substantially of a cutting tool handling assembly for handling a drill bit without requiring a person physically handling the bit, thereby addressing the potential danger of sustaining injury when installing or replacing a cutting tool from a drill string.



21: A2021/01416 22: 2021-11-12 23:
43: 2021-11-12
52: Class 2 24: Part A
71: BATHU SWAG (PTY) LIMITED
54: Sneakers
57: The design is for a sneaker having an upper and a sole including a midsole and an outsole, as shown in the accompanying representations. The upper

comprises an integrally formed quarter and a vamp, and a tongue that is integrally formed with the vamp. On one side of the sneaker, the midsole comprises longitudinally spaced, angularly oriented ridges. The opposite midsole comprises of a front part which comprises of longitudinally spaced, angularly oriented ridges which occupy a minor portion of the midsole, and a rear part which is substantially free of ridges. The rear side of the midsole has a centrally located kinked portion which separates the rear side of the midsole into an upper portion and a lower portion that extends angularly away below the kinked portion.



Side view

21: A2021/01417 22: 2021-11-12 23:
43: 2021-11-12
52: Class 2 24: Part A
71: BATHU SWAG (PTY) LIMITED

54: Sneakers

57: The design is for a sneaker having an upper and a sole including a midsole and an outsole, as shown in the accompanying representations. The upper is made of various panels which are stitched/combined together to form a quarter, a vamp, and a tongue that extends upwardly away from the end of the vamp. The tongue is provided with a zip arrangement that comprises a zip and track that extends substantially longitudinally along the center of the tongue. The midsole, on one side of the sneaker, comprises a substantially centrally located, substantially rectangular shaped member that stands in relief and separates the midsole on the one side into a front midsole section and a rear midsole section. A pattern of three stripes is provided on the midsole which has the substantially rectangular shaped member, a first of which stripe is provided on the rear midsole section proximate the substantially rectangular shaped member and the other two stripes (i.e. the second and third stripes) are provided on the front midsole section. The same pattern is provided on the midsole on the other side of sneaker and the stripes extend to the outsole (i.e. under surface) of the sole. The striped patterns are arranged angularly with respect to the midsole and ends of each of the stripes extend onto the outsole

of the sneaker where each stripe transitions into a substantially straight stripe/line.



Side view

21: A2021/01418 22: 2021-11-12 23:
43: 2021-11-12
52: Class 2 24: Part A
71: BATHU SWAG (PTY) LIMITED

54: Sneakers

57: The design is for a sneaker having an upper and a midsole as shown in the accompanying representations. The upper is made of various panels which are stitched/combined together to form a quarter, a vamp, and a tongue that extends upwardly away from the end of the vamp. The tongue is provided with a zip arrangement that comprises a zip and track that extend substantially longitudinally along the center of the tongue. The midsole, only on one side of the sneaker, comprises a substantially centrally located, substantially rectangular shaped member that stands in relief and separates the midsole on the one side into a front midsole section and a rear midsole section.



Side view

21: A2021/01420 22: 2021-11-12 23:
43: 2021-11-12
52: Class 2 24: Part A
71: BATHU SWAG (PTY) LIMITED

54: Sneakers

57: The design is for a sneaker having an upper and a midsole, as shown in the accompanying representations. The upper is made of various panels which are stitched/combined together to form a quarter, a vamp, and a tongue that extends upwardly away from the end of the vamp. The midsole, on one side of the sneaker, comprises a substantially centrally located, substantially

rectangular shaped member that stands in relief and separates the midsole on the one side into a front midsole section and a rear midsole section. The midsole, on each side of the sneaker, comprises a plurality of longitudinally extending, vertically spaced ribbings.



Side view

21: A2021/01421 22: 2021-11-12 23:
43: 2021-11-12
52: Class 2 24: Part A
71: BATHU SWAG (PTY) LIMITED

54: Sneakers

57: The design is for a sneaker having an upper and a sole including a midsole and an outsole, as shown in the accompanying representations. The upper is made of various panels which are stitched/combined together to form a quarter, a vamp, and a tongue that extends upwardly away from the end of the vamp. The midsole, on one side of the sneaker, comprises a substantially centrally located, substantially rectangular shaped member that stands in relief and separates the midsole on the one side into a front midsole section and a rear midsole section. A pattern of four stripes is provided on the midsole which has the substantially rectangular shaped member, a first of which stripe is provided on the rear midsole section proximate the substantially rectangular shaped member, the second of which is provided on the substantially rectangular shaped member, and the other two stripes (i.e. the third and fourth stripes) are provided on the front midsole section. The same pattern is provided on the midsole on the other side of sneaker and the stripes extend to the outsole (i.e. under surface) of the sole. The striped patterns are arranged angularly with respect to the midsole and ends of each of the stripes extend onto the outsole of the sneaker where each stripe transitions into a substantially straight stripe/line. The midsole, on each side of the sneaker, comprises a plurality of longitudinally extending, vertically spaced ribbings. The upper is provided with a surface pattern comprising of a plurality of leaves and/or flowers which are located on the sides of the upper and a

single flower straddled by leaves on an upper part of the upper.

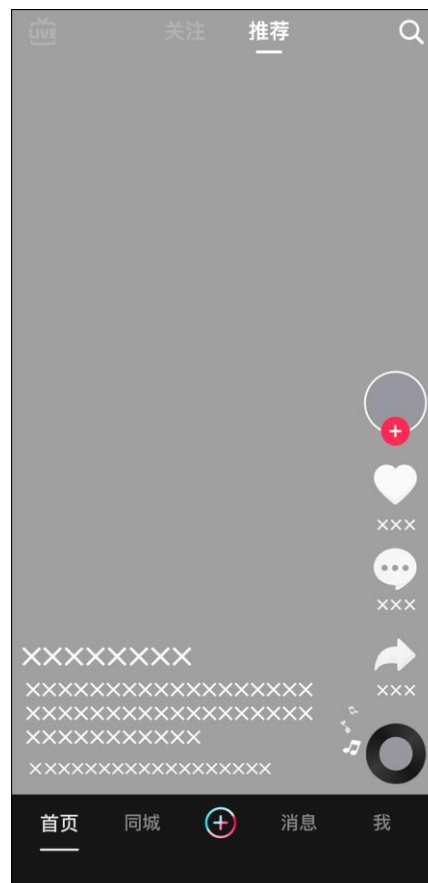


Side view

21: A2021/01422 22: 2021-11-15 23:
43: 2022-06-14
52: Class 32 24: Part A
71: Beijing Kuaimajiabian Technology Co., Ltd.
33: CN 31: 202130289401.4 32: 2021-05-14

54: GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface is used to run program, touch interactions and display information.



21: A2021/01423 22: 2021-11-15 23:
43: 2022-06-14

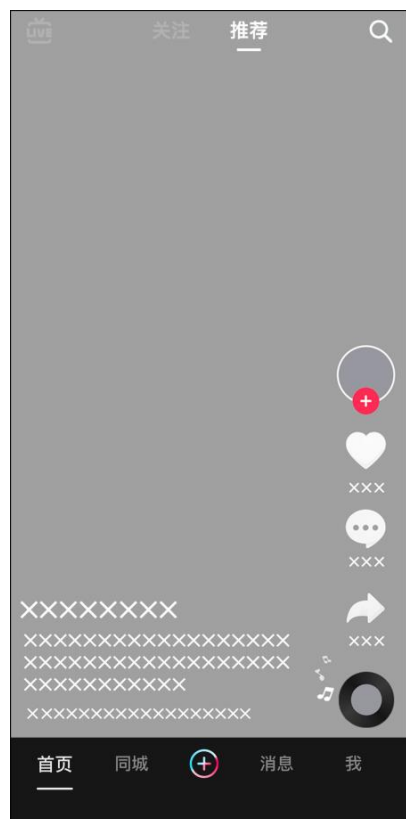
52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130289401.4 32: 2021-05-14

54: GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface is used to run program, touch interactions and display information.



21: A2021/01424 22: 2021-11-15 23:

43: 2022-06-14

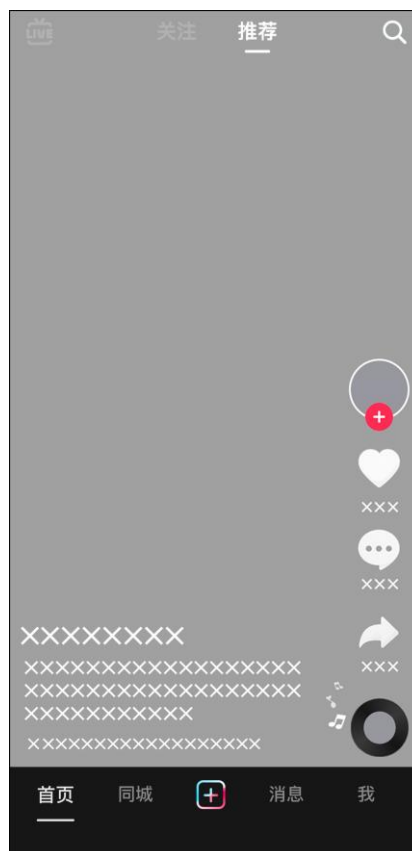
52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130289401.4 32: 2021-05-14

54: GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface is used to run program, touch interactions and display information.



21: A2021/01425 22: 2021-11-15 23:

43: 2022-06-14

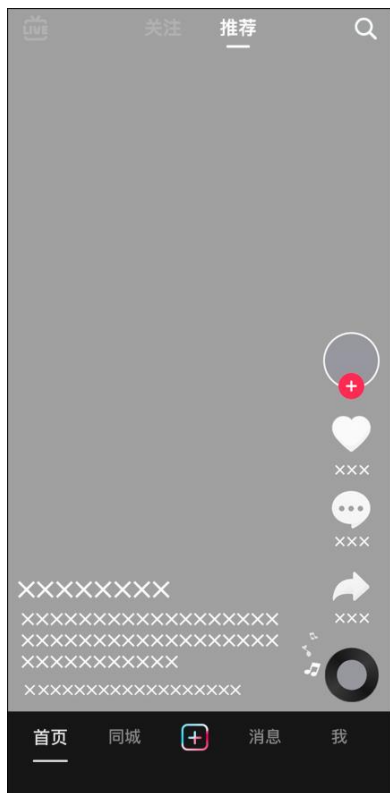
52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130289401.4 32: 2021-05-14

54: GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface is used to run program, touch interactions and display information.



21: A2021/01426 22: 2021-11-15 23:

43: 2022-06-22

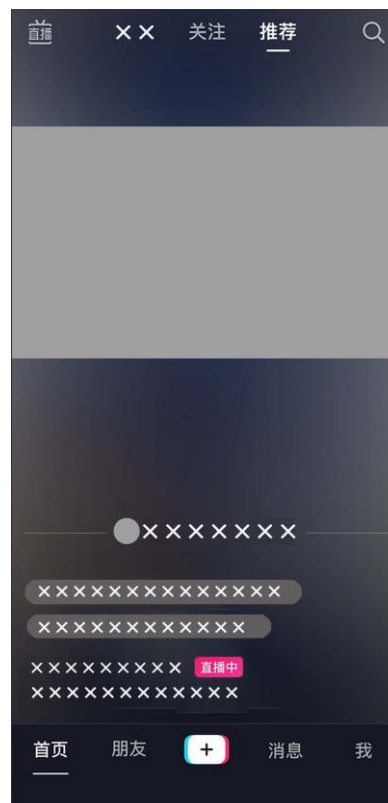
52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

33: CN 31: 202130344367.6 32: 2021-06-04

54: GRAPHICAL USER INTERFACE

57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface is used to run program, touch interactions and display information and to allow for live comments.



21: A2021/01427 22: 2021-11-15 23:

43: 2022-06-14

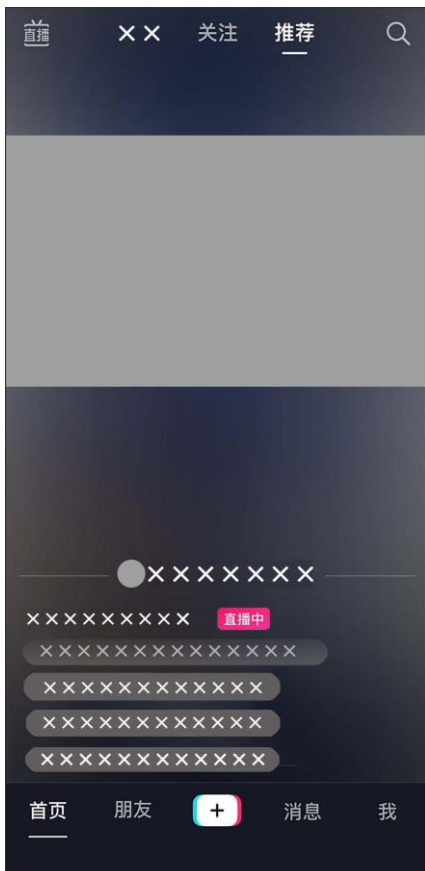
52: Class 32 24: Part A

71: Beijing Kuaimajiabian Technology Co., Ltd.

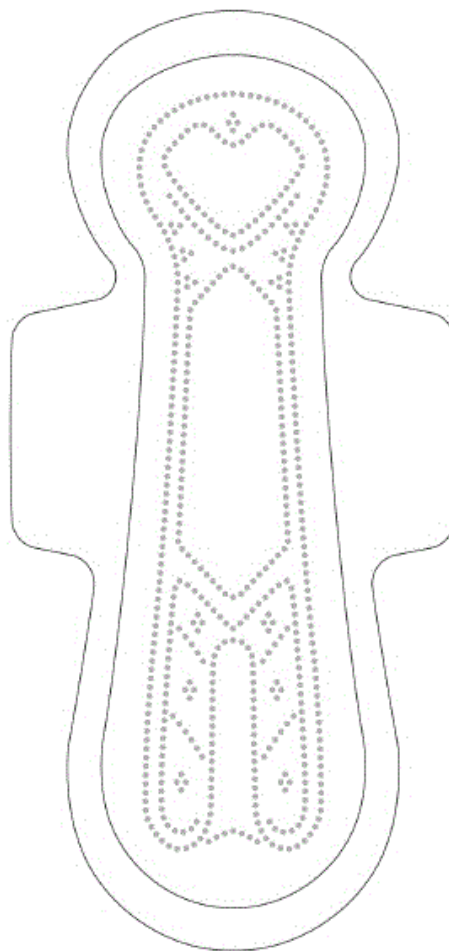
33: CN 31: 202130344367.6 32: 2021-06-04

54: GRAPHICAL USER INTERFACE

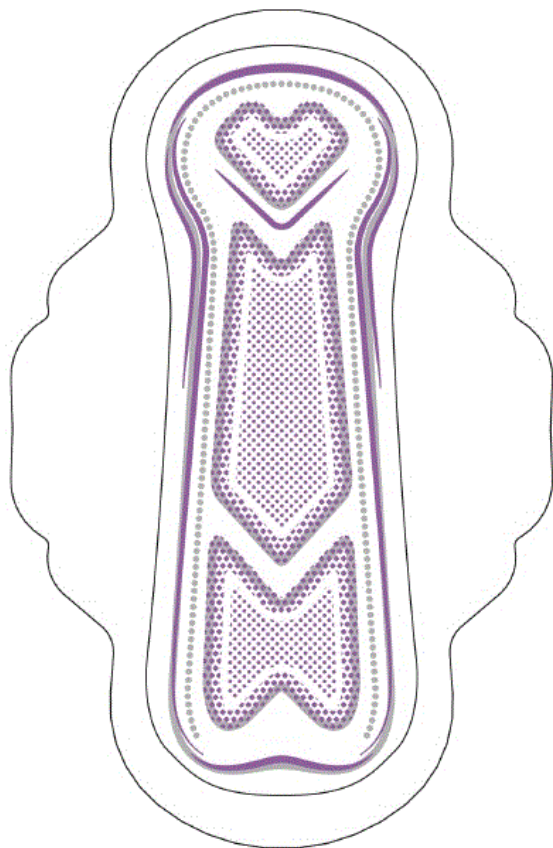
57: The design is in respect of a graphical user interface for a display screen or portion thereof. The graphical user interface is used to run program, touch interactions and display information and to allow for live comments.



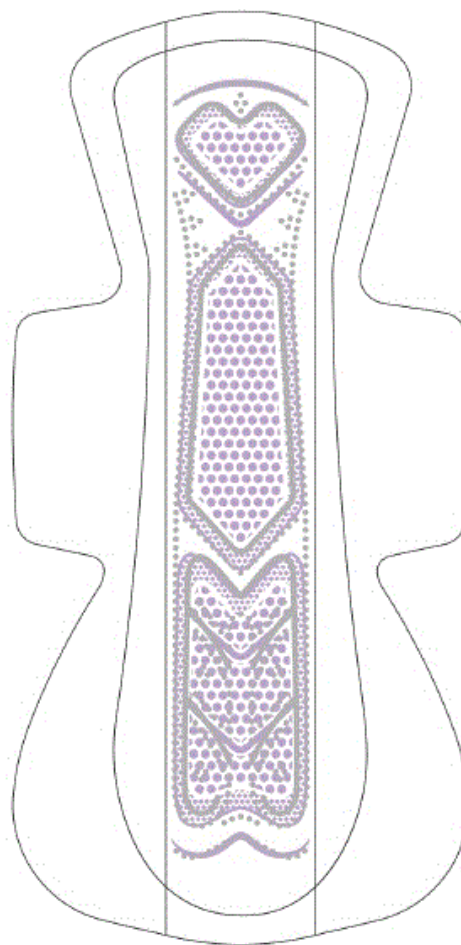
21: A2021/01543 22: 2021-12-20 23:
43: 2022-06-24
52: Class 24 24: Part A
71: ESSITY HYGIENE AND HEALTH AKTIEBOLAG
33: EM 31: 008585327 32: 2021-06-21
54: SANITARY NAPKIN
57: The representation shows a top view of a
sanitary napkin showing the overall appearance
thereof.



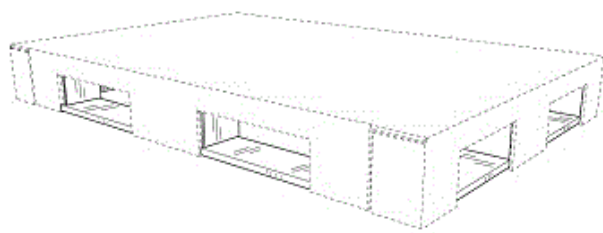
21: A2021/01544 22: 2021-12-20 23:
43: 2022-06-24
52: Class 24 24: Part A
71: ESSITY HYGIENE AND HEALTH AKTIEBOLAG
33: EM 31: 008585327 32: 2021-06-21
54: SANITARY NAPKIN
57: The representation shows a top view of a
sanitary napkin showing the overall appearance
thereof.



21: A2021/01545 22: 2021-12-20 23:
43: 2022-06-24
52: Class 24 24: Part A
71: ESSITY HYGIENE AND HEALTH AKTIEBOLAG
33: EM 31: 008585327 32: 2021-06-21
54: SANITARY NAPKIN
57: The representation shows a top view of a
sanitary napkin showing the overall appearance
thereof.



21: A2021/01548 22: 2021-12-21 23:
43: 2022-07-06
52: Class 9. 24: Part A
71: GREEN OX PALLET TECHNOLOGY, LLC
33: US 31: 29/796,079 32: 2021-06-22
**54: Foldably Constructed Reinforceable Pallet
Bottom**
57: The design relates to a foldably constructed
reinforceable pallet bottom. The features of the
design are those of shape and/or configuration
and/or ornamentation.



**PERSPECTIVE VIEW OF THE PALLET BOTTOM
IN USE CONNECTED TO A PALLET TOP**



FRONT PERSPECTIVE VIEW

21: A2022/00001 22: 2022-01-03 23:
43: 2022-07-18
52: Class 12. 24: Part A
71: GREAT WALL MOTOR COMPANY LIMITED
33: CN 31: 202130471026.5 32: 2021-07-23

54: Automobile

57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2022/00002 22: 2022-01-03 23:
43: 2022-07-18
52: Class 12. 24: Part A
71: GREAT WALL MOTOR COMPANY LIMITED
33: CN 31: 202130470323.8 32: 2021-07-23

54: Automobile

57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

21: A2022/00003 22: 2022-01-03 23:
43: 2022-07-18
52: Class 24 24: Part A
71: LUPIN INC.
33: US 31: 29/797,810 32: 2021-07-02

**54: APPLICATOR FOR IMPLANTABLE DRUG
DELIVERY**

57: The design is applied for an applicator for implantable drug delivery. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation for an applicator for implantable drug delivery, substantially as illustrated in the accompanying representation.

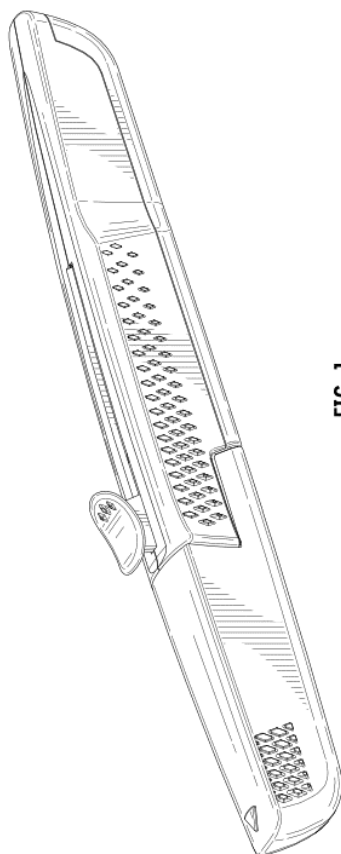


FIG. 1

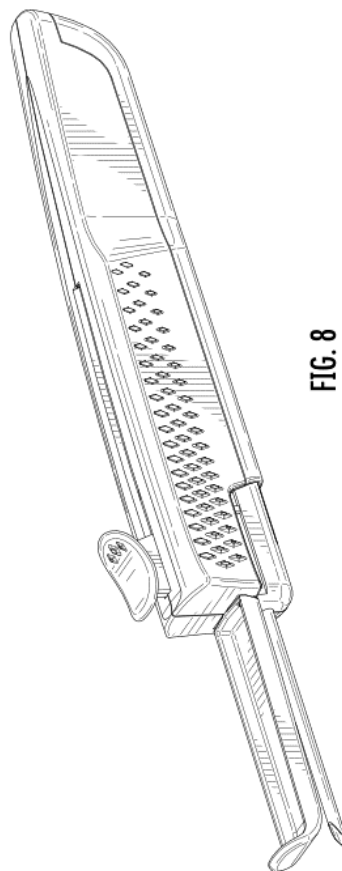


FIG. 8

21: A2022/00004 22: 2022-01-03 23:

43: 2022-07-18

52: Class 24 24: Part A

71: LUPIN INC.

33: US 31: 29/797,810 32: 2021-07-02

54: APPLICATOR FOR IMPLANTABLE DRUG DELIVERY

57: The design is applied for an applicator for implantable drug delivery. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation for an applicator for implantable drug delivery, substantially as illustrated in the accompanying representation.

21: A2022/00011 22: 2022-01-05 23:

43: 2021-07-06

52: Class 12 24: Part A

71: Group Lotus Limited

33: GB 31: 6147244 32: 2021-07-06

54: VEHICLES

57: The design is for a vehicle, and in particular for a coupé having a silhouette with a tapered bonnet, a bow-shaped flowing windscreen and roofline, and a rear. The bonnet defines a pair of triangular recesses each extending to a rearwardly extending trapezium-shaped headlight. A front includes a central opening in the form of an upside-down trapezium with curved upper corners and a lower elongate trapezium slat flanked by curved trapezoid air-intake grilles. An undulating swage line extends along each side of the vehicle, leading to an oval air-intake grille. The rear includes a pair of slim curved light clusters flanking an elongate light bar positioned below a curved upwardly projecting rear fin. A pair of prominent triangular features are provided below the light clusters. A bottom of the rear includes a ribbed portion comprising a prominent central section which is flanked by circular exhaust tailpipes. A lower portion includes four, longitudinally extending ribs.

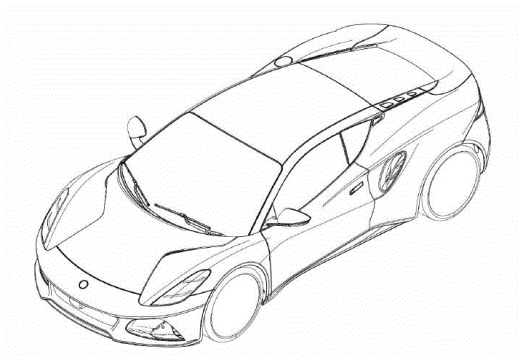


Figure 1

Three-dimensional view

21: A2022/00012 22: 2022-01-05 23:

43: 2021-07-06

52: Class 21 24: Part A

71: Group Lotus Limited

33: GB 31: 6147257 32: 2021-07-06

54: VEHICLES

57: The design is for a vehicle, and in particular for a coupé having a silhouette with a tapered bonnet, a bow-shaped flowing windscreen and roofline, and a rear. The bonnet defines a pair of triangular recesses each extending to a rearwardly extending trapezium headlight. A front includes an upside-down trapezium-shaped opening with curved upper corners and a lower elongate trapezium slat flanked by curved trapezoid air-intake grilles. An undulating swage line extends along each side of the vehicle, leading to an oval air-intake. The rear includes a pair of slim curved light clusters flanking an elongate light bar positioned below a curved upwardly projecting rear fin. A pair of prominent triangular features are laterally disposed at the rear. A bottom of the rear includes a prominent curved section that includes a central rectangular feature flanked by circular exhaust tailpipes with four laterally spaced apart protruding ribs positioned below.

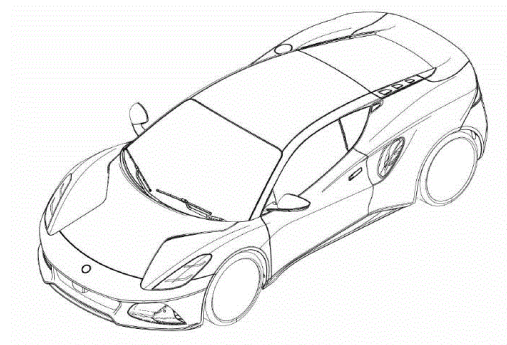


Figure 1

Three-dimensional view

21: A2022/00013 22: 2022-01-05 23:

43: 2021-07-06

52: Class 12 24: Part A

71: Group Lotus Limited

33: GB 31: 6147248 32: 2021-07-06

54: VEHICLE BONNETS

57: The design is for a vehicle bonnet comprising a concavely curved rear end for engaging with a vehicle, a convexly curved front end and side walls extending from the rear end to the front end. Each side wall has a wheel-arch panel which has a wheel-shaped cut-out. The bonnet defines a pair of large triangular recesses each extending from the rear end and wrapping around a rearwardly extending trapezoid headlight. A prominent line extends laterally between the triangular recesses. A front includes a centrally positioned circular element.

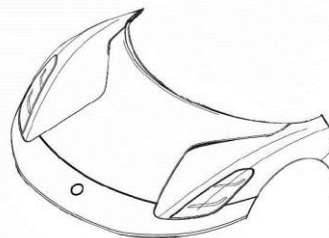


Figure 1

Three-dimensional view

21: A2022/00014 22: 2022-01-05 23:

43: 2021-07-06

52: Class 12 24: Part A

71: Group Lotus Limited

33: GB 31: 6147237 32: 2021-07-06

54: DASHBOARDS FOR VEHICLES

57: The design is for a dashboard for a vehicle and comprises an elongate, roughly rectangular body

with curved corners and bevelled edges. The dashboard has a first end towards a driver's seat, a second end towards a passenger seat, a curved top, a cabin-side wall adjacent to the seats and an opposite bonnet-side wall adjacent to a firewall of the vehicle. A driver's section is positioned towards the first end and includes a raised portion of the curved top which tapers downwardly and forwardly as a U-shaped protrusion. The cabin-side wall of the driver's section defines a trapezium-shaped recess with an outwardly protruding top overhang. The curved top includes two curved portions either side of a longitudinal groove which runs down the U-shaped protrusion.

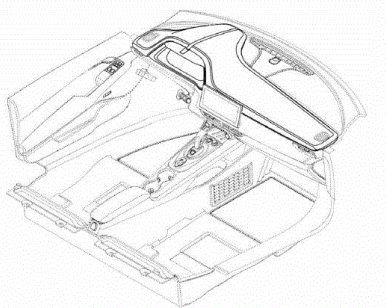


Figure 1

Three-dimensional view

21: A2022/00015 22: 2022-01-05 23:

43: 2021-07-06

52: Class 12 24: Part A

71: Group Lotus Limited

33: GB 31: 6147238 32: 2021-07-06

54: CENTRAL CONSOLES FOR VEHICLES

57: The design is for a central console for a vehicle and comprises an elongate body having a front, a rear wall, a top section, a lower section below the top section, and opposing side walls defining a cavity extending downwardly from the lower section and a rear. A front of the top section includes a forwardly downwardly extending rectangular tray with raised side walls and a front wall. The top section extends rearwardly downwardly from the tray and includes a dome-shaped gear console with a rectangular portion comprising operating buttons at a front and an elongate gripping member within a circular recess at a rear. The top section defines a double cupholder. A rectangular armrest extends upwardly from behind the cupholder. A U-shaped member defines a cavity at the front of the lower section. The lower section defines a recess and extends towards the rear wall. A right front of a side wall includes a rectangular net-type holder.

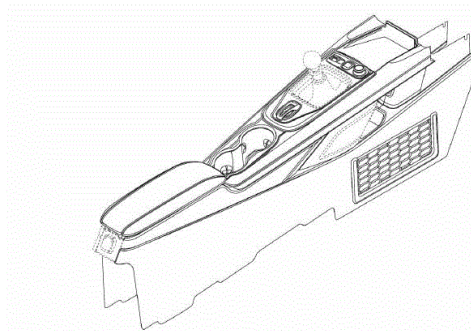


Figure 1

Three-dimensional view

21: A2022/00016 22: 2022-01-05 23:

43: 2021-07-06

52: Class 12 24: Part A

71: Group Lotus Limited

33: GB 31: 6147243 32: 2021-07-06

54: STEERING WHEELS

57: The design is for a steering wheel and comprises a circular wheel with a flattened bottom portion. A top portion of the wheel defines a central recess housing a ring structure. An inner surface includes raised handgrips at 10 and 2 o'clock positions. At 9 and 3 o'clock positions, the wheel has two broad triangular spokes that extend to a prominent circular center cap comprising a central circular horn. A wider double spoke extends from a bottom of the center cap outwards at inwardly inclined angles. The spokes at the 9 and 3 o'clock positions include trapezoidal operating buttons. A circular hub protrudes from a rear of the wheel. The spokes of the double spoke project rearwardly from the hub to the outer wheel.

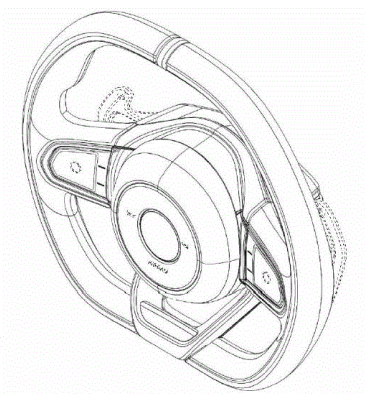


Figure 1

Three-dimensional view

21: A2022/00021 22: 2022-01-06 23:

43: 2022-08-08

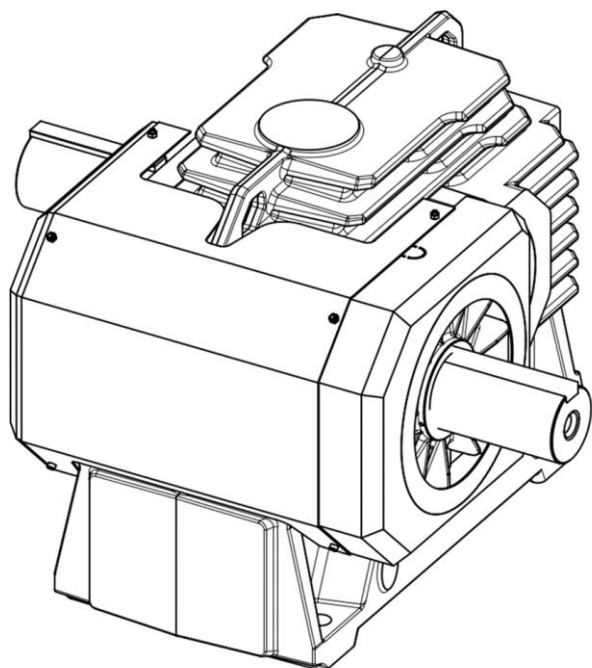
52: Class 13 24: Part A

71: FLENDER GMBH

33: EU 31: 008606982-0002 32: 2021-07-08

54: GEAR FOR AN ELECTRICAL MOTOR

57: The design is applied to a gear for an electrical motor. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the gear for an electrical motor, substantially as illustrated in the accompanying representation.



21: A2022/00032 22: 2022-01-07 23:

43: 2021-07-09

52: Class 13 24: Part A

71: Honda Motor Co., Ltd.

33: JP 31: 2021-014989 32: 2021-07-09

54: GENERATORS

57: The design is for a generator comprising an elongate generally cuboid-shaped body, corners of which are chamfered and generally triangular. An almost square recessed control panel with switches, terminals, outlets, and indicator lights is provided on one side face. A trapezoidal grid-like section is provided below the control panel. A generally octagonal frame containing vertically equally spaced horizontal ribs is provided on an opposite side face. A centrally disposed rectangular opening extends downwardly from an upper edge of the frame for about two thirds of the frame. Two concentric circular formations are provided between the ribs in register with the opening. A recess is provided in a front face of the body offset towards the one side face. A T-shaped starter grip is provided in the recess. A U-shaped handle is provided integrally with a top face and a removable fuel filler cap is provided adjacent an end of the handle.



Figure 1

Three-dimensional view

21: A2022/00040 22: 2022-01-13 23:

43: 2022-07-18

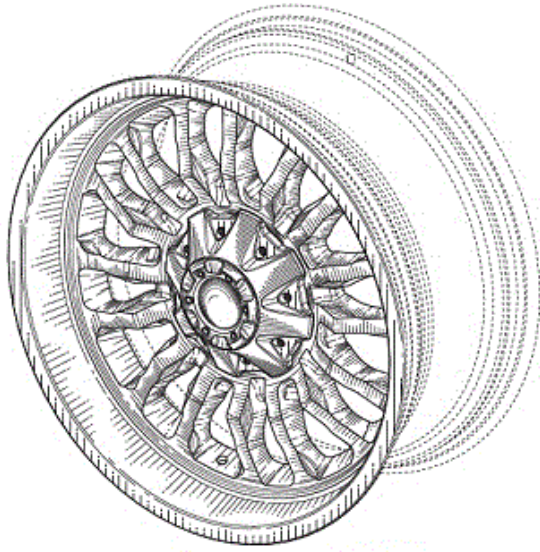
52: Class 12. 24: Part A

71: WHEEL PROS, LLC

33: US 31: 29/803,865 32: 2021-08-16

54: Wheel

57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

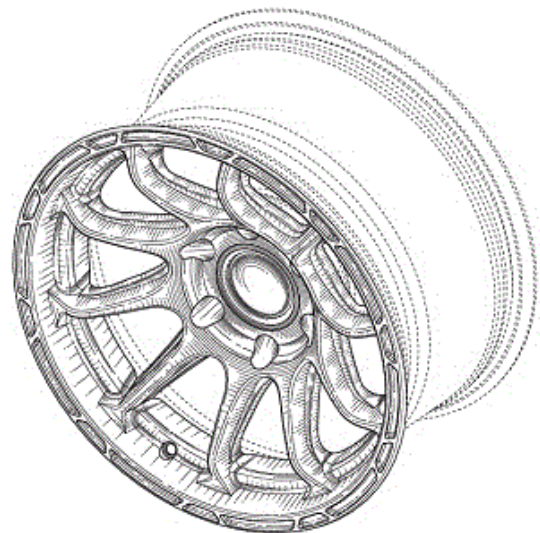


PERSPECTIVE VIEW

21: A2022/00041 22: 2022-01-13 23:
43: 2022-07-18
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/806,572 32: 2021-09-03

54: Wheel

57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



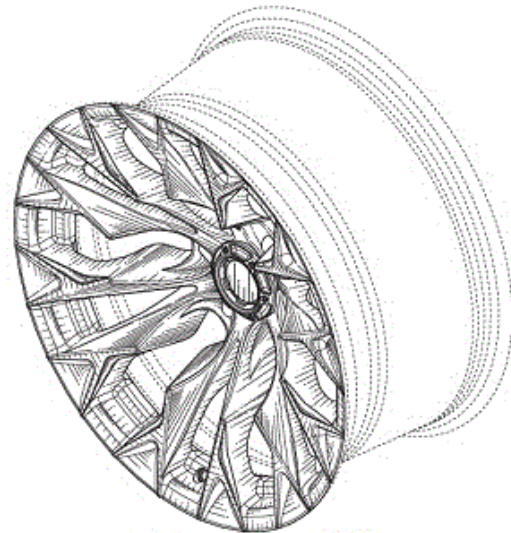
PERSPECTIVE VIEW

21: A2022/00042 22: 2022-01-13 23:
43: 2022-07-18
52: Class 12. 24: Part A
71: WHEEL PROS, LLC

33: US 31: 29/817,009 32: 2021-11-28

54: Wheel

57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

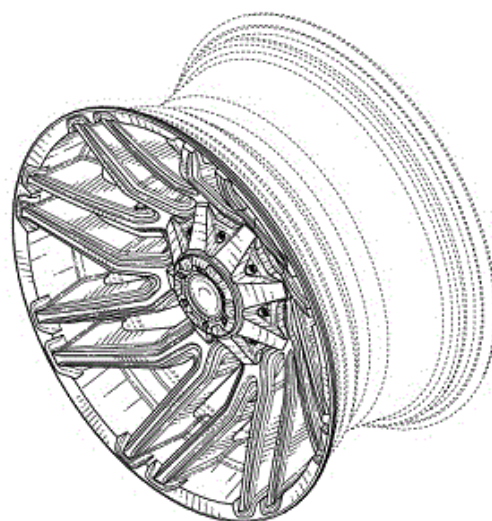


PERSPECTIVE VIEW

21: A2022/00044 22: 2022-01-13 23:
43: 2022-07-18
52: Class 12. 24: Part A
71: WHEEL PROS, LLC

54: Wheel

57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00046 22: 2022-01-14 23:
43: 2021-08-24
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 008659908-0001 32: 2021-08-24

54: AUTOMOBILES

57: The design is for an automobile in the form of a two-door coupé. A lower part of a front bumper is in the form of a splitter. Two struts extend upwardly from the splitter on either side of a central grille and support outwardly extending wing formations. A centrally disposed rearwardly facing vent opens out of a bonnet. A series of vertically spaced headlights strips are provided on an upper front section of each arc shaped fender provided on either side of the bonnet. A skirt protrudes laterally from a lower edge of each side of the automobile between the front and rear wheels. An air scoop is provided in front of each rear wheel. A rear wing is supported on a pair of transversely spaced upwardly extending struts. A rear diffuser is supported on a pair of transversely spaced downwardly extending struts. A transverse vent opens out of a rear of the automobile.

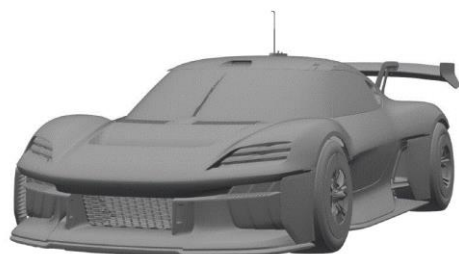
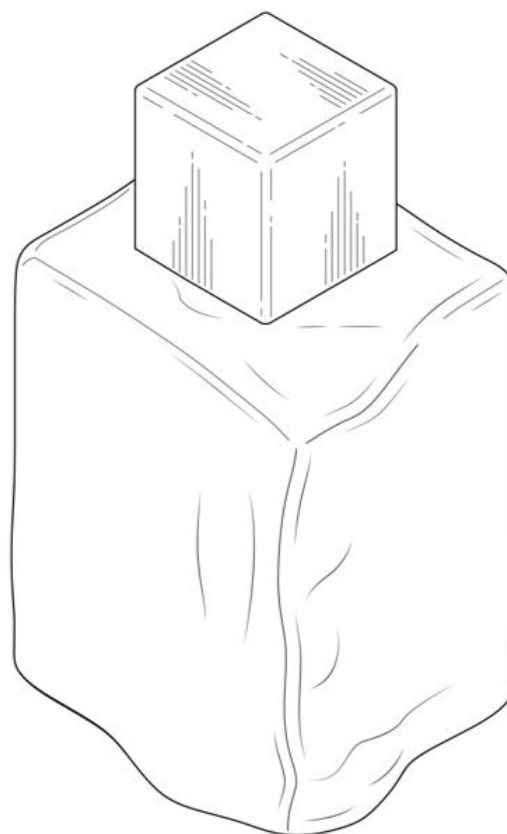


Figure 1
Three-dimensional view

21: A2022/00075 22: 2022-01-26 23:
43: 2022-08-08
52: Class 09 24: Part A
71: CONSITEX S.A.
33: EU 31: 008644751-0001 32: 2021-08-06

54: BOTTLE

57: The design is applied to a bottle. 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 bottle, substantially as illustrated in the accompanying representation. Surface shading lines are provided to indicate the surface character but do not form part of the design and are disclaimed.



21: A2022/00092 22: 2022-01-31 23:
43: 2022-07-28
52: Class 23 24: Part A
71: SCHEWITZ, Larry

54: A WATER FILTER

57: The design is applied to a water filter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the water filter, substantially as illustrated in the accompanying representation.

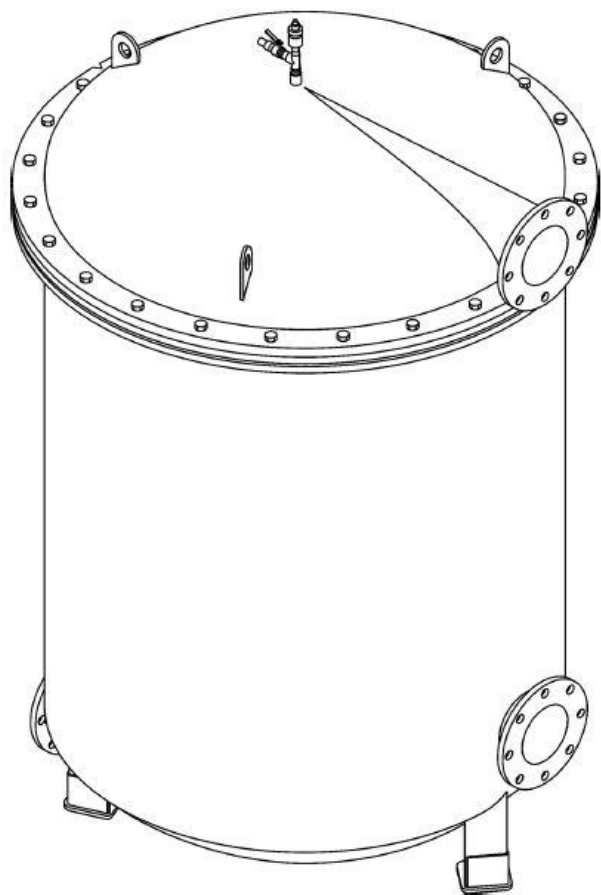


FIG. 1: THREE-DIMENSIONAL TOP VIEW

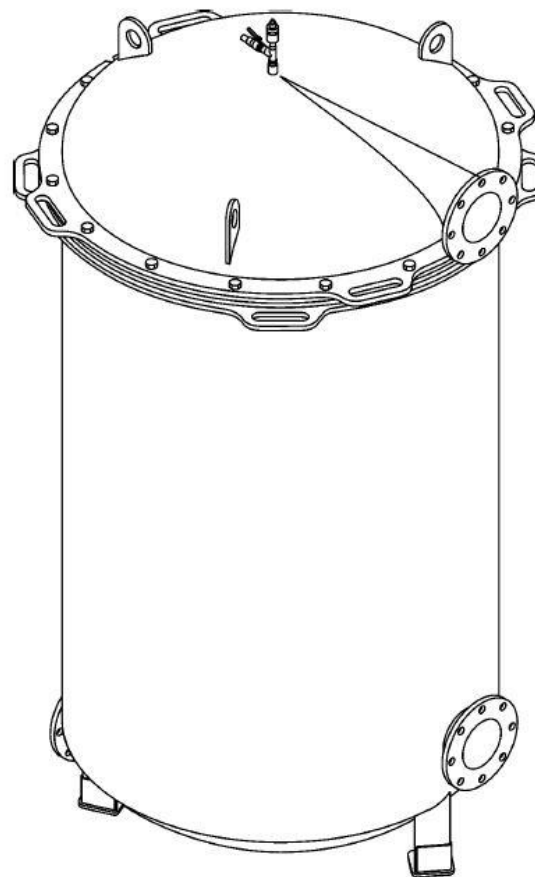


FIG. 1: THREE-DIMENSIONAL TOP VIEW

21: A2022/00094 22: 2022-01-31 23:

43: 2022-07-28

52: Class 23 24: Part A

71: SCHEWITZ, Larry

54: A WATER FILTER

57: The design is applied to a water filter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the water filter, substantially as illustrated in the accompanying representation.

21: A2022/00096 22: 2022-01-31 23:

43: 2022-07-28

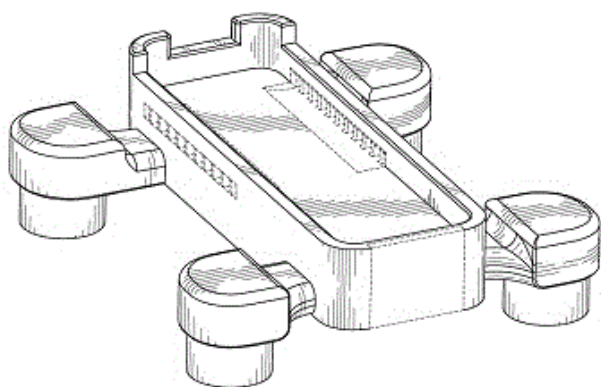
52: Class 24. 24: Part A

71: REGENERON PHARMACEUTICALS, INC.

33: US 31: 29/801,965 32: 2021-08-02

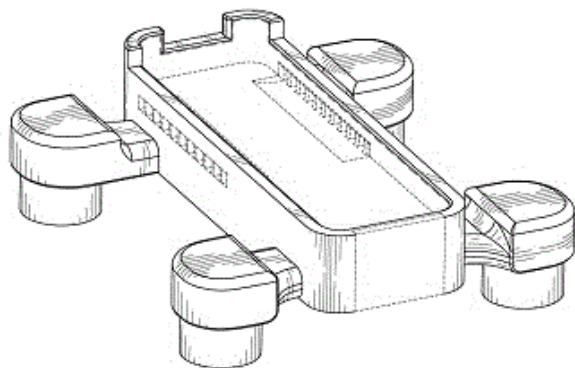
54: Support for a Test Device

57: The design relates to a support for a test device. The features of the design are those of shape and/or configuration and/or ornamentation.



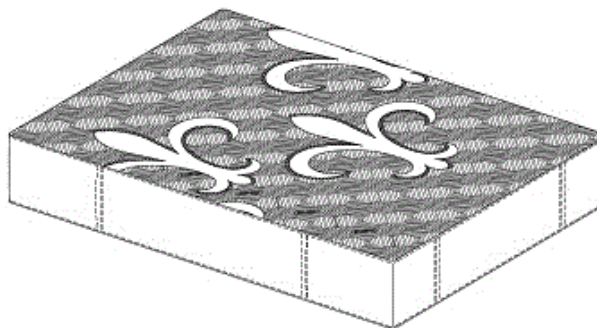
FRONT LEFT PERSPECTIVE VIEW

21: A2022/00097 22: 2022-01-31 23:
43: 2022-07-28
52: Class 24. 24: Part A
71: REGENERON PHARMACEUTICALS, INC.
33: US 31: 29/801,965 32: 2021-08-02
54: Support for a Test Device
57: The design relates to a support for a test device. The features of the design are those of shape and/or configuration and/or ornamentation.



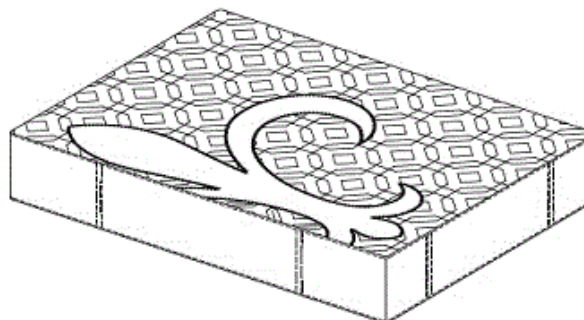
FRONT LEFT PERSPECTIVE VIEW

21: A2022/00098 22: 2022-01-31 23:
43: 2022-07-28
52: Class 6. 24: Part A
71: SEALY TECHNOLOGY, LLC
33: US 31: 29/801,552 32: 2021-07-29
54: Mattress Cover
57: The design relates to a mattress cover. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



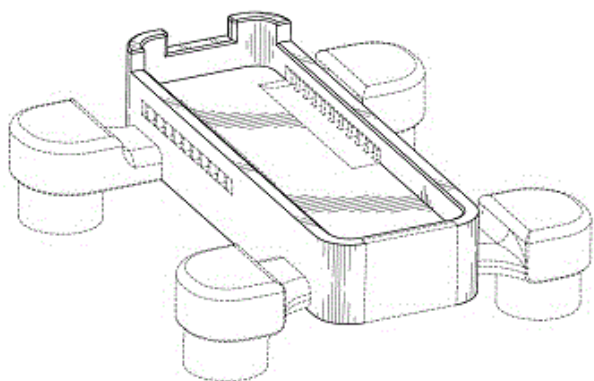
PERSPECTIVE VIEW

21: A2022/00099 22: 2022-01-31 23:
43: 2022-07-28
52: Class 6. 24: Part A
71: SEALY TECHNOLOGY, LLC
33: US 31: 29/801,552 32: 2021-07-29
54: Mattress Cover
57: The design relates to a mattress cover. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00100 22: 2022-01-31 23:
43: 2022-07-28
52: Class 24. 24: Part A
71: REGENERON PHARMACEUTICALS, INC.
33: US 31: 29/801,965 32: 2021-08-02
54: Support for a Test Device
57: The design relates to a support for a test device. The features of the design are those of shape and/or configuration and/or ornamentation.

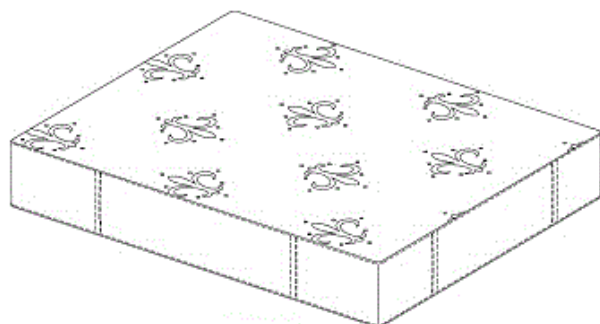


FRONT LEFT PERSPECTIVE VIEW

21: A2022/00101 22: 2022-01-31 23:
43: 2022-07-28
52: Class 6. 24: Part A
71: SEALY TECHNOLOGY, LLC
33: US 31: 29/801,552 32: 2021-07-29

54: Mattress Cover

57: The design relates to a mattress cover. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

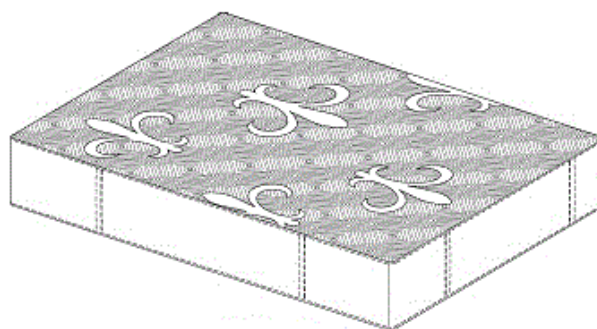


PERSPECTIVE VIEW

21: A2022/00102 22: 2022-01-31 23:
43: 2022-07-28
52: Class 6. 24: Part A
71: SEALY TECHNOLOGY, LLC
33: US 31: 29/801,552 32: 2021-07-29

54: Mattress Cover

57: The design relates to a mattress cover. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

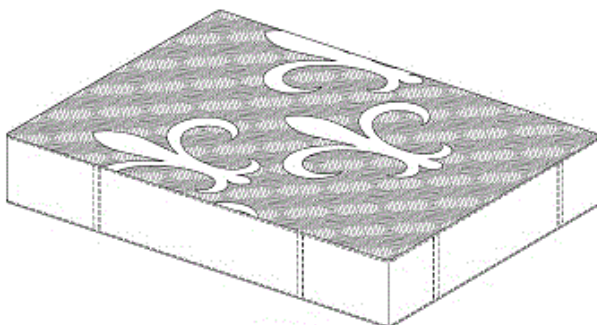


PERSPECTIVE VIEW

21: A2022/00103 22: 2022-01-31 23:
43: 2022-07-28
52: Class 6. 24: Part A
71: SEALY TECHNOLOGY, LLC
33: US 31: 29/801,552 32: 2021-07-29

54: Mattress Cover

57: The design relates to a mattress cover. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

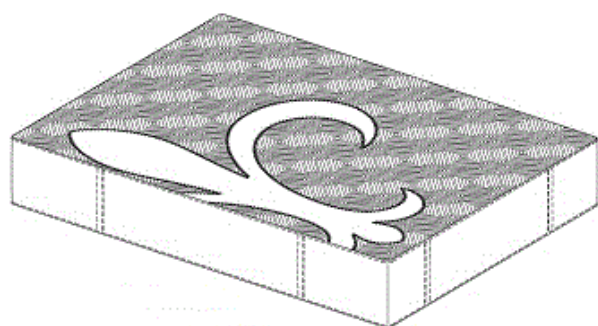


PERSPECTIVE VIEW

21: A2022/00104 22: 2022-01-31 23:
43: 2022-07-28
52: Class 6. 24: Part A
71: SEALY TECHNOLOGY, LLC
33: US 31: 29/801,552 32: 2021-07-29

54: Mattress Cover

57: The design relates to a mattress cover. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

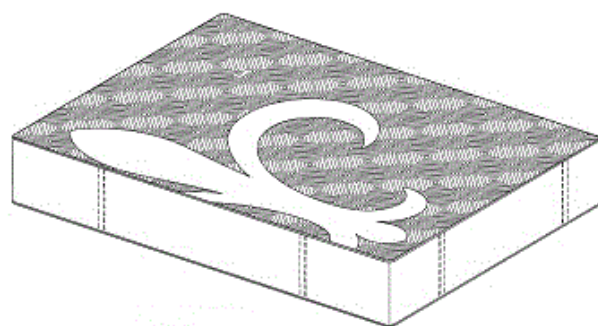


PERSPECTIVE VIEW

21: A2022/00105 22: 2022-01-31 23:
43: 2022-07-28
52: Class 6. 24: Part A
71: SEALY TECHNOLOGY, LLC
33: US 31: 29/801,552 32: 2021-07-29

54: Mattress Cover

57: The design relates to a mattress cover. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

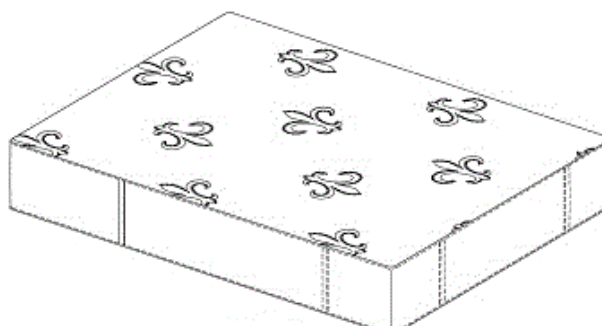


PERSPECTIVE VIEW

21: A2022/00106 22: 2022-01-31 23:
43: 2022-07-28
52: Class 6. 24: Part A
71: SEALY TECHNOLOGY, LLC
33: US 31: 29/801,552 32: 2021-07-29

54: Mattress Cover

57: The design relates to a mattress cover. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

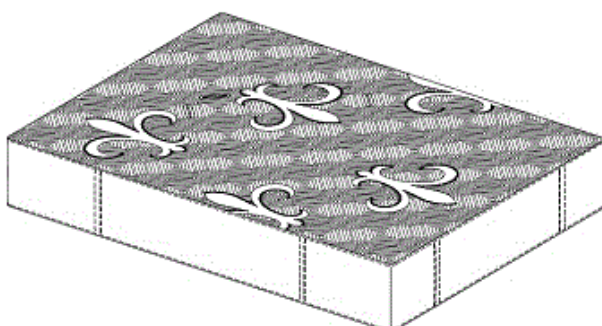


PERSPECTIVE VIEW

21: A2022/00107 22: 2022-01-31 23:
43: 2022-07-28
52: Class 6. 24: Part A
71: SEALY TECHNOLOGY, LLC
33: US 31: 29/801,552 32: 2021-07-29

54: Mattress Cover

57: The design relates to a mattress cover. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00131 22: 2022-02-11 23:
43: 2022-09-15
52: Class 13 24: Part A
71: SMA Solar Technology AG
33: EU 31: 008686950-0001 32: 2021-09-16

54: INVERTER

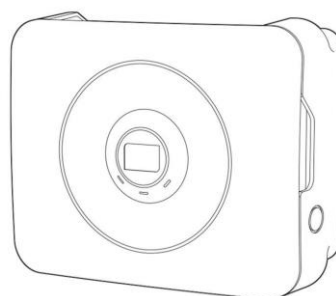
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00133 22: 2022-02-11 23:
43: 2022-09-15
52: Class 13 24: Part A
71: SMA Solar Technology AG
33: EU 31: 008686950-0003 32: 2021-09-16

54: INVERTER

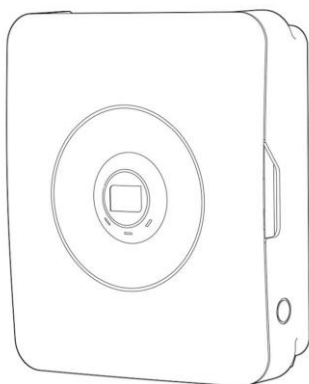
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00137 22: 2022-02-11 23:
43: 2022-09-15
52: Class 13 24: Part A
71: SMA Solar Technology AG
33: EU 31: 008686950-0007 32: 2021-09-16

54: INVERTER

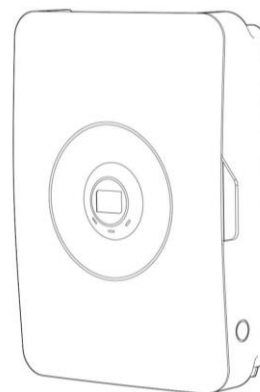
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00135 22: 2022-02-11 23:
43: 2022-09-15
52: Class 13 24: Part A
71: SMA Solar Technology AG
33: EU 31: 008686950-0005 32: 2021-09-16

54: INVERTER

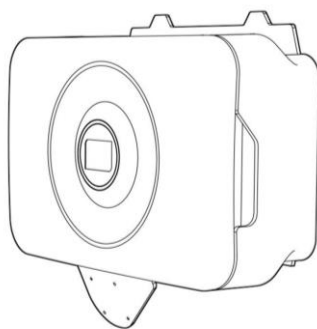
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



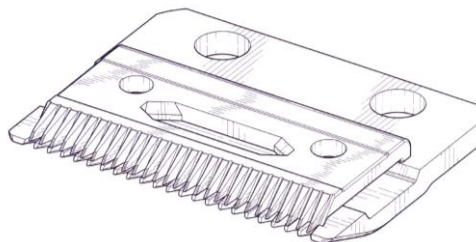
21: A2022/00139 22: 2022-02-11 23:
43: 2022-09-15
52: Class 13 24: Part A
71: SMA Solar Technology AG
33: EU 31: 008686950-0011 32: 2021-09-16

54: BATTERY CHARGER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



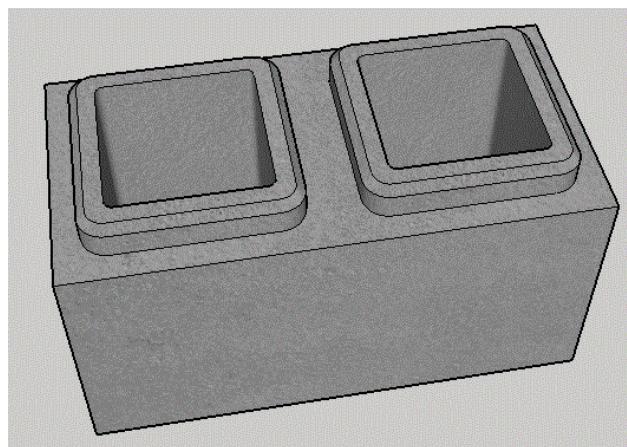
43: 2022-08-18
 52: Class 28 24: Part A
 71: WAHL CLIPPER CORPORATION
 33: US 31: 29/789,272 32: 2021-09-14
54: HAIR CLIPPER BLADESET
 57: The novelty of the design resides in the shape or configuration of a hair clipper bladeset substantially as shown in the attached representation



21: A2022/00151 22: 2022-02-14 23:
 43: 2022-08-18
 52: Class 12 24: Part A
 71: Alejandro Antonio Pereyra
 33: AR 31: 100034 32: 2021-08-13
54: FRONT BUMPER
 57: The design consists of a front bumper of a motor vehicle.



21: A2022/00918 22: 2022-08-11 23:
 43: 2022-08-24
 52: Class 25 24: Part A
 71: ALL COR HOLDINGS (PTY) LTD
 (2017/659899/07)
54: BUILD IT YOURSELF INTERLOCKING REUSABLE BRICK
 57: The design relates to a Build It Yourself Interlocking Reusable Brick. The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation.

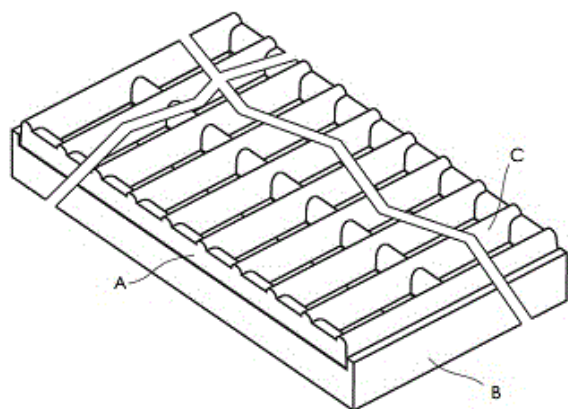


21: A2022/00152 22: 2022-02-14 23:
 43: 2022-08-18
 52: Class 12 24: Part A
 71: Alejandro Antonio Pereyra
 33: AR 31: 100035 32: 2021-08-13
54: FRONT BUMPER
 57: The design consists of a front bumper of a motor vehicle.



21: F2019/01426 22: 2019-09-26 23:
 43: 2022-07-26
 52: Class 25. 24: Part F
 71: DUNAMIS BETONWERKE CC
54: Grid
 57: The design relates to a grid. The features of the design are those of shape and/or configuration.

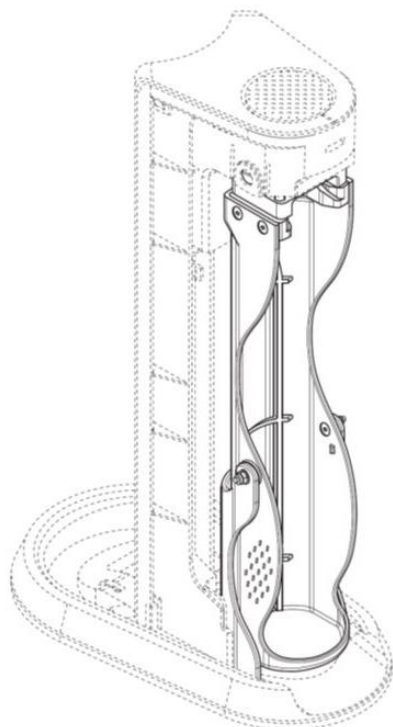
21: A2022/00168 22: 2022-02-15 23:



PERSPECTIVE VIEW

21: F2020/00416 22: 2020-05-04 23:
43: 1900-01-01
52: Class 31 24: Part F
71: SODASTREAM INDUSTRIES LTD.
33: IL 31: 64250 32: 2019-10-10
54: CARBONATION MECHANISMS

57: The design is for a carbonation mechanism as shown in the representations

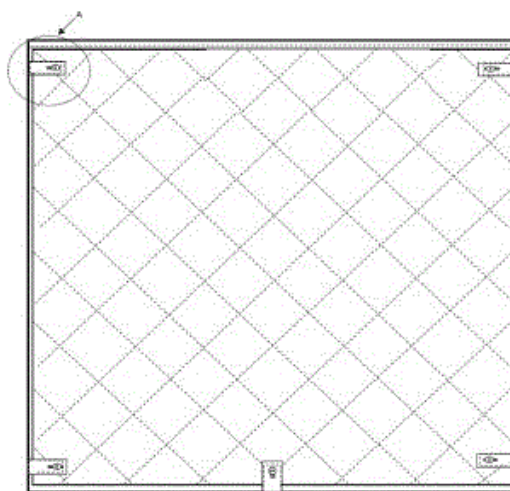


21: F2020/01030 22: 2020-07-28 23:
43: 2020-07-28
52: Class 6 24: Part F

71: HomeChoice (Pty) Ltd

54: DUVET COVERS

57: The design is for a duvet cover and inner. The duvet cover and inner is of a matched rectangular-shape. The duvet inner includes buttons which are arranged on an edge of an outer surface of the duvet inner. The duvet cover includes a plurality of tabs arranged on the edge on an inner surface of the duvet cover. Each tab is positioned to match the position of a button on the outer surface of the duvet cover. Each tab extend inwards from the edge of the duvet cover and include a slit, through which the corresponding button is inserted. In use, the duvet cover is turned inside-out to expose the tabs, and the duvet inner is place on the inverted duvet cover, and the buttons attached to each corresponding tab. The duvet cover is then turned out, such that the inner is secured in place within the duvet cover.



21: F2020/01169 22: 2020-08-31 23:
43: 2022-09-02
52: Class 8 24: Part F
71: THUNDER MOUNTAIN (PTY) LTD
54: FASTENER LOAD INDICATOR

57: The design relates to a fastener load indicator. The features of the design are those of shape and/or configuration and/or pattern.

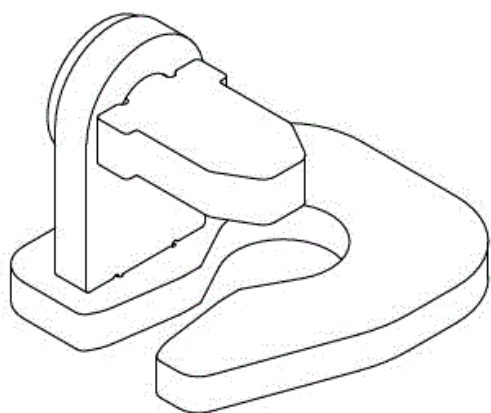


**PERSPECTIVE VIEW
FROM ABOVE**

21: F2021/00093 22: 2021-02-04 23:
43: 2021-02-04
52: Class 25 24: Part F
71: WACO Africa (Pty) Ltd t/a FORMSCAFF

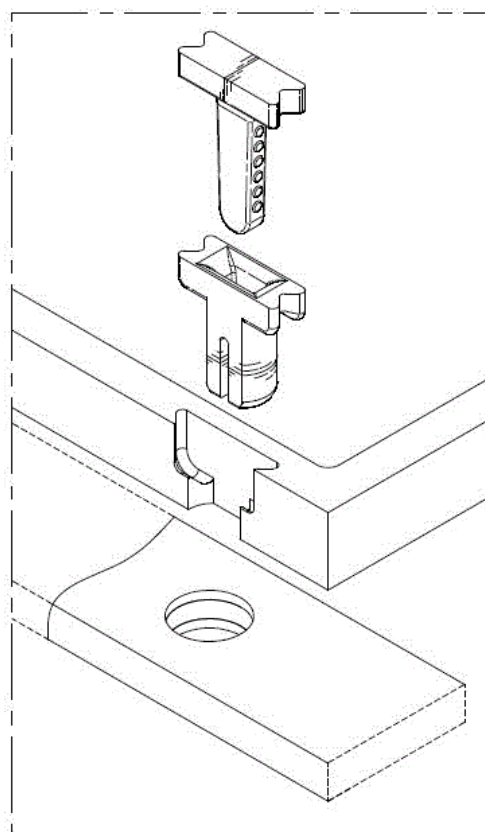
54: PANEL CLIP

57: The design is applied to a panel clip for clipping together panels in a vertical formwork arrangement. The features of the design for which protection is claimed include the shape and/or configuration of a panel clip, substantially as illustrated in the accompanying representations. In particular, the panel clip comprises a support body defining a fixing end and a clamping end; a rotatable locating pin fitted proximate the fixing end of the support body, the locating pin extending transverse to the support body; and a substantially U-shaped clamping plate fitted proximate the clamping end of the support body, the clamping plate defining an elongate slot.



Three-dimensional view from front

the bifurcated bottom is splayed, the panel is fastened to the strip and withdrawal of the sleeve and pin is inhibited.



Three-dimensional exploded view from top

21: F2021/00250 22: 2021-03-10 23:
43: 2021-03-10
52: Class 25 24: Part F
71: MONTEIRO, Acacio Fernando Medeiros,
KRUGER, Wynand Johannes

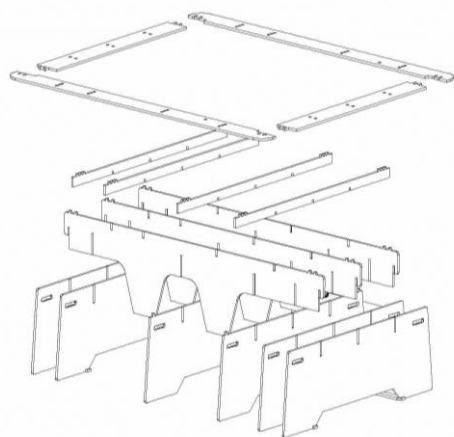
54: PANELS AND FASTENING SYSTEMS

57: The design is for a panel and fastening system comprising a screening panel and a fastening arrangement. The fastening arrangement has an inner pin, an outer sleeve, and a support strip. The inner pin is T-shaped and has a rectangular top face with indented ends. The outer sleeve is also T-shaped, has a top matching the profile of the top face, and defines a central channel to accommodate a leg of the pin. The panel defines a recess at an edge complementary to the profile of the top face of the pin. A bottom of the sleeve is bifurcated and can be splayed apart when the pin is inserted into the channel. The sleeve can be accommodated in an aperture defined in the support strip, such that when

21: F2021/00325 22: 2021-03-30 23:
43: 2020-09-30
52: Class 6 24: Part F
71: UNIVERSITY OF JOHANNESBURG

54: BEDSTEADS

57: The design is applied to a bedstead. The features of the design for which protection is claimed include the shape and/or configuration of the bedstead substantially as shown in the accompanying representations.

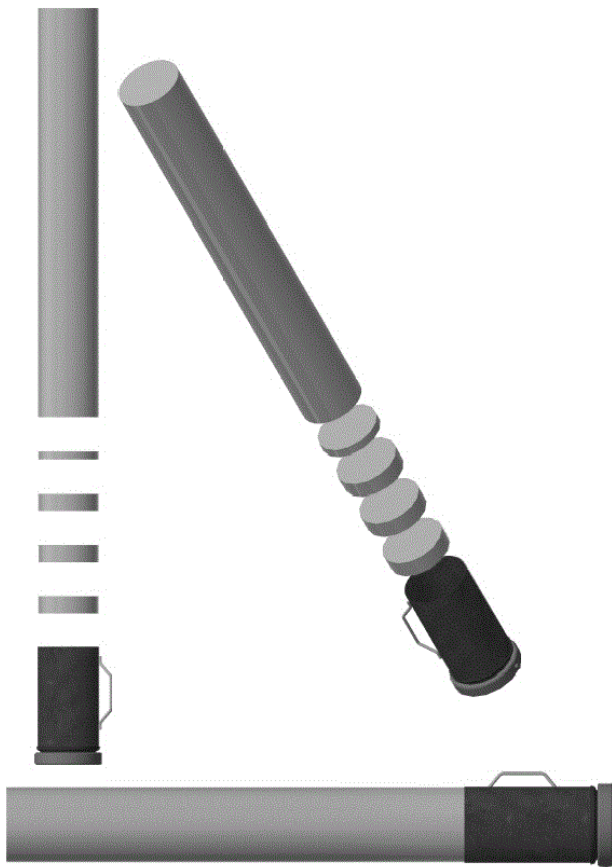


Exploded view

21: F2021/00434 22: 2021-04-23 23:
43: 2022-07-21
52: Class 25 24: Part F
71: RAINBOW MINING SUPPORT (PTY) LTD

54: A MINE PROP

57: The design is in respect of a mine prop of variable length.



21: F2021/00956 22: 2021-08-10 23:
43: 2021-04-23
52: Class 28 24: Part F
71: K2018380756 (PTY) LTD.

54: HAIR FASTENER

57: The design is applied to a hair fastener. The hair fastener comprises an elongate, flexible body comprising elongate straps extending from a crumpled, elastic central portion.



Third planar view

21: F2021/01108 22: 2021-09-20 23:
43: 2021-04-19
52: Class 32 24: Part F
71: CSIR

54: Camouflage Surface Patterns

57: The design is for a surface pattern. The surface pattern includes spaced apart clusters of randomly distributed pixilated shaped marks/devices.



21: F2021/01114 22: 2021-09-20 23:
43: 2021-04-19
52: Class 2 24: Part F
71: CSIR

54: Garments

57: The design is for a garment having a surface pattern. The surface pattern includes a background and spaced apart clusters of randomly distributed pixilated shaped marks/devices.



21: F2021/01116 22: 2021-09-20 23:
43: 2021-04-19
52: Class 32 24: Part F
71: CSIR

54: Camouflage Surface Patterns

57: The design is for a surface pattern. The surface pattern includes spaced apart clusters of randomly distributed pixilated shaped marks/devices.



21: F2021/01124 22: 2021-09-20 23:
43: 2021-04-19
52: Class 2 24: Part F
71: CSIR

54: Garments

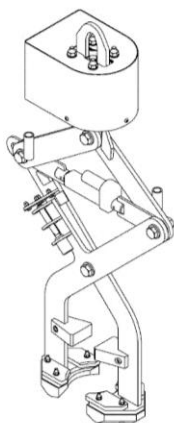
57: The design is for a garment having a surface pattern. The surface pattern includes a background and spaced apart clusters of randomly distributed pixilated shaped marks/devices.



21: F2021/01391 22: 2021-11-05 23:
43: 2022-05-19
52: Class 15 24: Part F
71: CHESTER BROWN INDUSTRIES PTY LTD
33: AU 31: 202112653 32: 2021-05-06

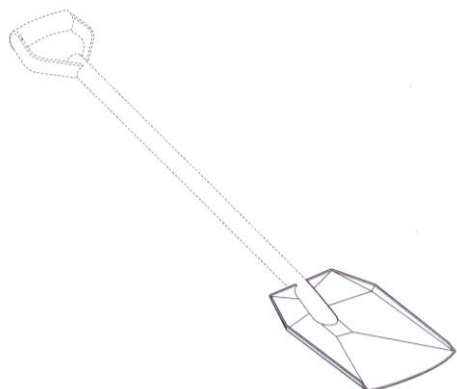
54: CUTTING TOOL HANDLING ASSEMBLY

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the cutting tool handling assembly substantially as shown in the accompanying representations. The article of the design consists substantially of a cutting tool handling assembly for handling a drill bit without requiring a person physically handling the bit, thereby addressing the potential danger of sustaining injury when installing or replacing a cutting tool from a drill string.



21: F2021/01487 22: 2021-11-29 23:
43: 2022-06-14
52: Class 08 24: Part F
71: MACCORKINDALE INVESTMENTS (PTY) LTD
54: DIGGING TOOL

57: The novelty of the design resides in the shape or configuration of a digging tool substantially as shown in the accompanying representation. The features shown in broken lines do not form part of the design.



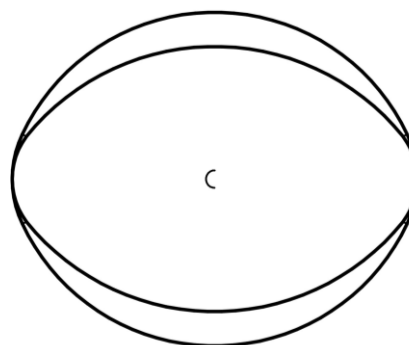
21: F2021/01537 22: 2021-12-17 23:
43: 2022-08-31
52: Class 24 24: Part F
71: Medtrade Products Limited
33: GB 31: 6143594 32: 2021-06-18
54: WOUND DRESSING

57: The features of the design for which protection is claimed include the pattern and/or shape and/or configuration of a wound dressing (or part thereof) substantially as illustrated in the accompanying representations.



21: F2022/00009 22: 2022-01-04 23:
43: 2022-07-18
52: Class 30 24: Part F
71: ALLFLEX EUROPE SAS
33: EM 31: 008625081-0002 32: 2021-07-21
54: ANIMAL IDENTIFICATION TAG

57: The design relates to a ANIMAL IDENTIFICATION TAG. The features of the design are those of shape and/or pattern and/or configuration.



21: F2022/00010 22: 2022-01-04 23:
43: 2022-07-18
52: Class 30 24: Part F
71: ALLFLEX EUROPE SAS
33: EM 31: 008625081-0001 32: 2021-07-21
54: ANIMAL IDENTIFICATION TAG

57: The design relates to a ANIMAL IDENTIFICATION TAG. The features of the design are those of shape and/or pattern and/or configuration.

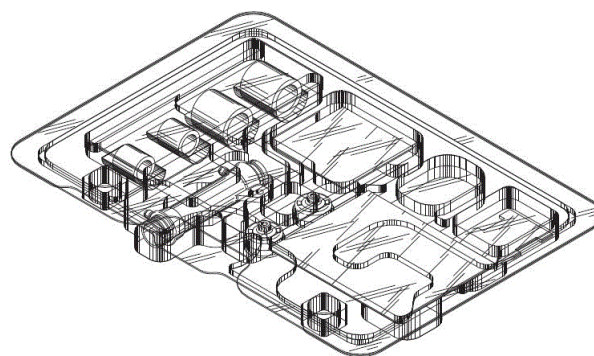
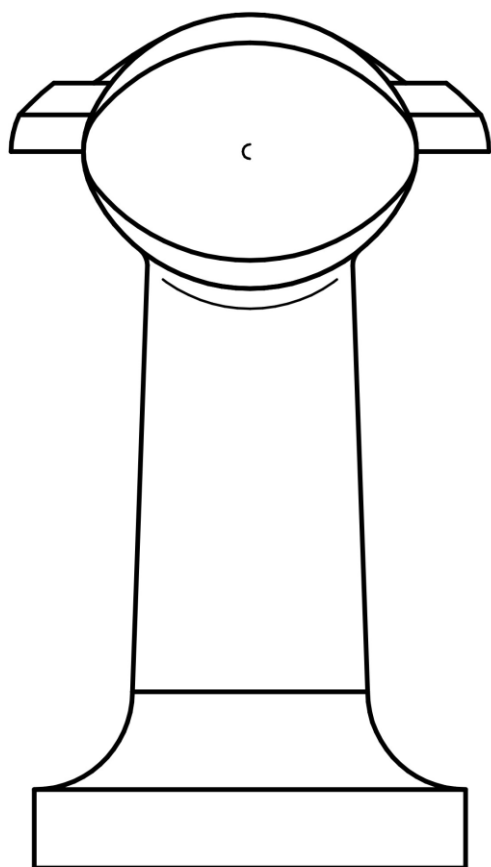


Figure 1
Three-dimensional view

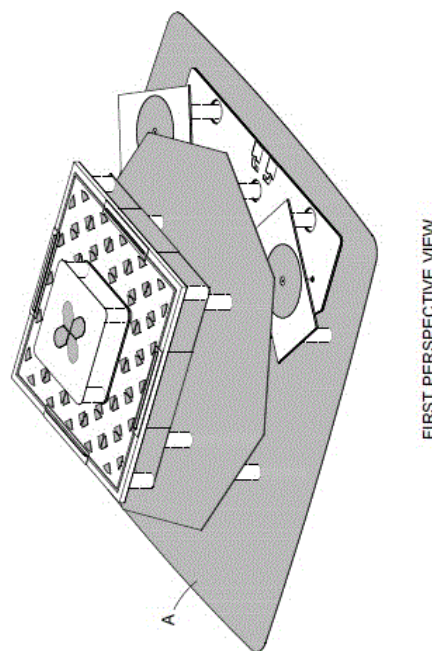
21: F2022/00089 22: 2022-01-31 23:
43: 2022-08-15
52: Class 14 24: Part F
71: POYNTING ANTENNAS (PTY) LIMITED
54: ANTENNA ASSEMBLY

57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of an antenna assembly substantially as shown in the accompanying representations, irrespective of the shape of support structure A and of the shape and/or position of the items in broken lines.

21: F2022/00031 22: 2022-01-07 23:
43: 2022-01-07
52: Class 24 24: Part F
71: Nipro Corporation

54: BODY-FLUID TREATMENT KITS

57: The design is for a body-fluid treatment kit. The kit comprises a rectangular case with rounded corners. One side of the case comprises a pair of flaps which form the closure of the case. The other side of the case forms a base of the case. Both the flaps and the base have a plurality of varyingly shaped complementary recesses for accommodating various parts and accessories therein. The case is transparent to allow the parts and accessories to be visible through the case.



FIRST PERSPECTIVE VIEW

21: F2022/00093 22: 2022-01-31 23:
43: 2022-07-28
52: Class 23 24: Part F
71: SCHEWITZ, Larry

54: A WATER FILTER

57: The design is applied to a water filter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the water filter, substantially as illustrated in the accompanying representation.

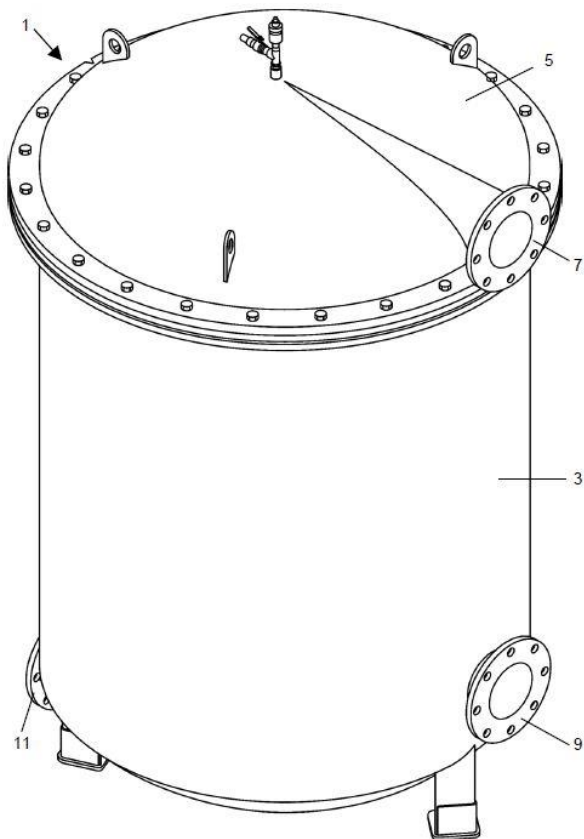


FIG. 1: THREE-DIMENSIONAL TOP VIEW

21: F2022/00095 22: 2022-01-31 23:
43: 2022-07-28
52: Class 23 24: Part F
71: SCHEWITZ, Larry

54: A WATER FILTER

57: The design is applied to a water filter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the water filter, substantially as illustrated in the accompanying representation.

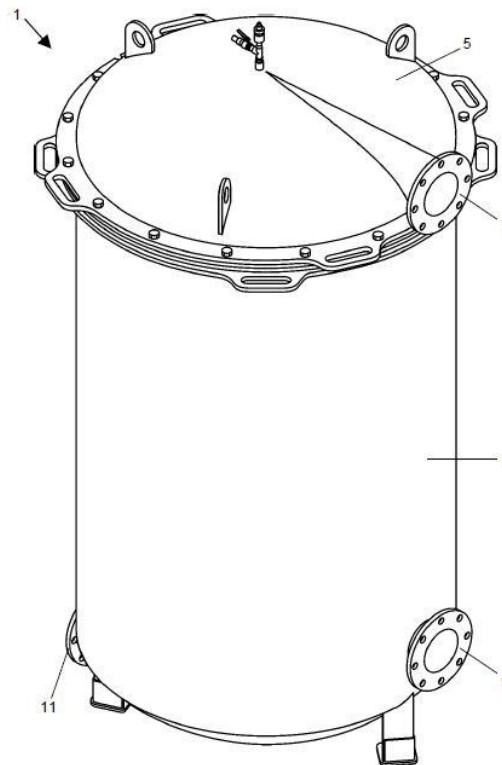
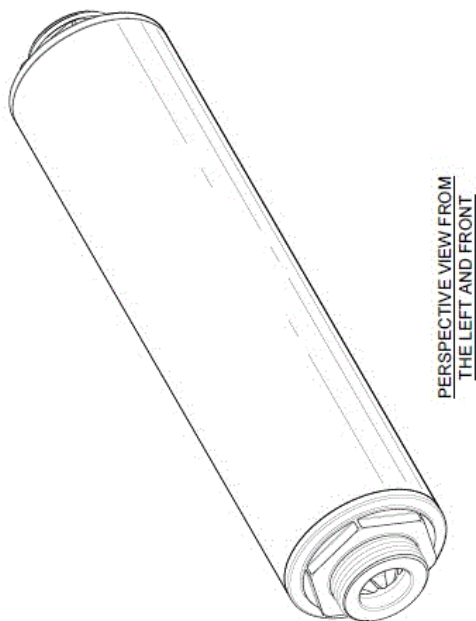


FIG. 1: THREE-DIMENSIONAL TOP VIEW

21: F2022/00108 22: 2022-02-01 23:
43: 2022-08-18
52: Class 23 24: Part F
71: LEWTHWAITE, John Michael, LEWTHWAITE,
John Edward

54: FLUID FILTRATION DEVICE

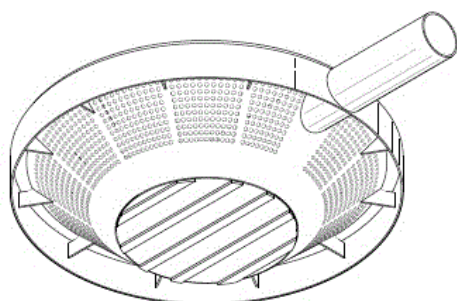
57: The design relates to a fluid filtration device. The features of the design are those of shape and/or configuration and/or pattern.



21: F2022/00118 22: 2022-02-04 23:
43: 2022-08-18
52: Class 23 24: Part F
71: CENTEX FLUID PRODUCTS AFRICA (PTY)
LTD

54: LIQUID INTAKE

57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of a liquid intake substantially as illustrated in the accompanying representations.



BOTTOM PERSPECTIVE VIEW

21: F2022/00132 22: 2022-02-11 23:
43: 2022-09-15
52: Class 13 24: Part F
71: SMA Solar Technology AG
33: EU 31: 008686950-0001 32: 2021-09-16

54: INVERTER

57: The features of the design for which protection is claimed include the shape and/or configuration

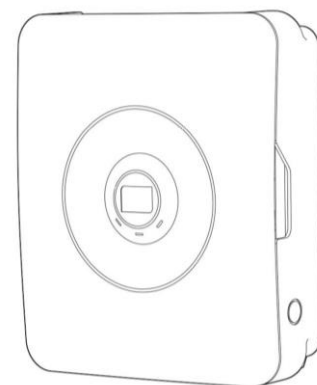
and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00134 22: 2022-02-11 23:
43: 2022-09-15
52: Class 13 24: Part F
71: SMA Solar Technology AG
33: EU 31: 008686950-0003 32: 2021-09-16

54: INVERTER

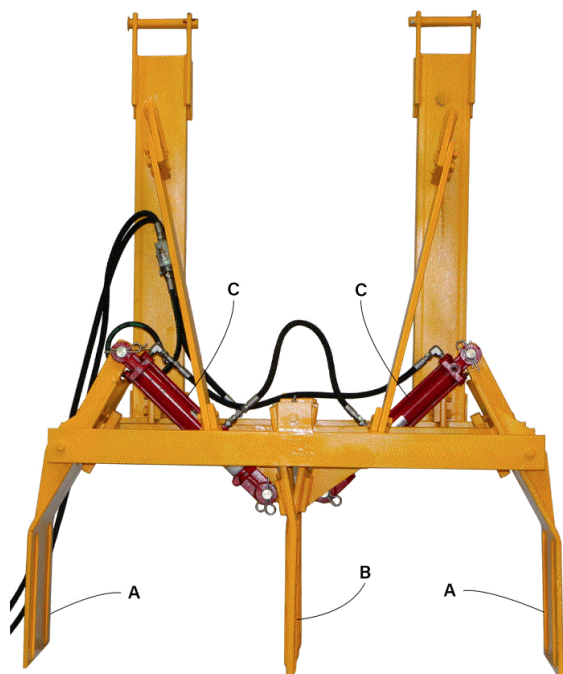
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00188 22: 2022-02-23 23:
43: 2022-08-24
52: Class 12 24: Part F
71: John Richard Voogt

54: LIFTER

57: The design relates to a Lifter. The features of the design are those of shape and/or pattern and/or configuration.



21: F2022/00901 22: 2022-08-08 23:
43: 2022-08-24
52: Class 24 24: Part F
71: VIGAMED PRODUCTS PRIVATE LIMITED
33: IN 31: 361517-001 32: 2022-03-30
54: FEMALE CONDOM
57: The design relates to a FEMALE CONDOM. The features of the design are those of shape and/or pattern and/or configuration.



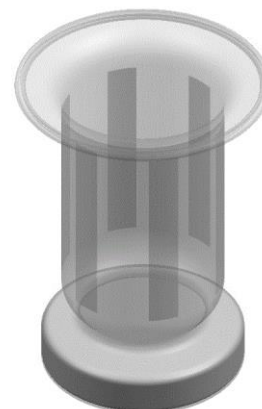
PERSPECTIVE VIEW

21: F2022/00902 22: 2022-08-08 23:
43: 2022-08-24
52: Class 24 24: Part F
71: VIGAMED PRODUCTS PRIVATE LIMITED

33: IN 31: 361518-001 32: 2022-03-30

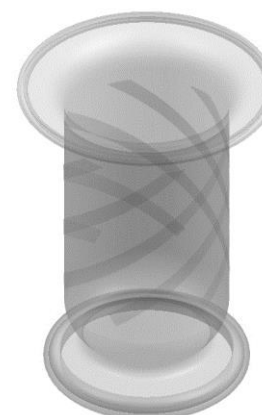
54: FEMALE CONDOM

57: The design relates to a FEMALE CONDOM. The features of the design are those of shape and/or pattern and/or configuration.



PERSPECTIVE VIEW

21: F2022/00903 22: 2022-08-08 23:
43: 2022-08-24
52: Class 24 24: Part F
71: VIGAMED PRODUCTS PRIVATE LIMITED
33: IN 31: 361519-001 32: 2022-03-30
54: FEMALE CONDOM
57: The design relates to a FEMALE CONDOM. The features of the design are those of shape and/or pattern and/or configuration.



PERSPECTIVE VIEW

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

No records available

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

The patent application no: **2013/01598** was advertised in the August 2021 journal with an incomplete abstract which read as: **This invention relates to, among other items, benzoxaborole compounds and their use for treating bacterial infections. The compounds are of formula (I), (II) or (III) wherein R and the entire publication should have appeared as the one below, however the publication will remain the 25/08/2021.**

21: 2013/01598. 22: 2013/03/01. 43: 2021/06/14

51: A61K; A61P; C07F

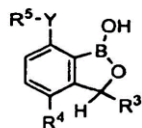
71: Anacor Pharmaceuticals, Inc.

72: HERNANDEZ, Vincent S., DING, Charles, PLATTNER, Jacob J., ALLEY, Michael Richard Kevin, ROCK, Fernando, ZHANG, Suoming, EASOM, Eric, LI, Xianfeng, ZHOU, Ding

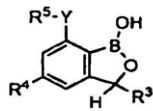
33: US 31: 61/380,596 32: 2010-09-07

54: BENZOXABOROLE DERIVATIVES FOR TREATING BACTERIAL INFECTIONS

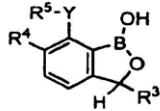
This invention relates to, among other items, benzoxaborole compounds and their use for treating bacterial infections. The compounds are of formula (I), (II) or (III) wherein R³ is substituted or unsubstituted nitroalkyl or substituted or unsubstituted aminoalkyl; R⁴ is selected from the group consisting of halogen, unsubstituted alkyl, unsubstituted alkoxy, and unsubstituted phenyl; Y is O or S; and R⁵ is selected from the group consisting of substituted or unsubstituted alkyl and substituted or unsubstituted hctcroalkyl; or a salt, hydrate or solvate thereof.



(I)



(II)



(III)

The patent application no: **2020/07446** was advertised in the July 2022 journal with an incorrect title of invention which read as: **MUNG BEAN ANTI-PULSE-BEETLE GENE VRPGIP1 ALLELEVRPGIP1-ACC41, MOLECULAR MARKER AND USE** and it should have appeared as **MUNG BEAN ANTI-PULSE-BEETLE GENE VRPGIP1 ALLELE VRPGIP1^{Acc41}, MOLECULAR MARKER AND USE** and the entire publication should have appeared as the one below, however the publication will remain the 27/07/2022.

21: 2020/07446. 22: 2020/11/30. 43: 2022/04/28

51: C12N

71: Jiangsu Academy of Agricultural Sciences

72: CHEN, Jingbin, SOMTA, Prakit, XUE, Chenchen, YUAN, Xingxing, LIN, Yun, GU, Heping, ZHANG, Qinxue, CHEN, Xin

33: CN 31: 201810479476.6 32: 2018-05-18

54: MUNG BEAN ANTI-PULSE-BEETLE GENE VRPGIP1 ALLELE VRPGIP1^{Acc41}, MOLECULAR MARKER AND USE

00: -

Disclosed are a mung bean anti-pulse-beetle gene VrPGIP1 allele VrPGIP1-^{ACC41}, a molecular marker and a use. The sequence of the gene is: the nucleotide sequence encoding a protein having the amino acid sequence as shown in SEQ ID NO. 2; or nucleotides obtained from the above nucleotide sequence, which has been subjected to nucleotide substitution, deletion and/or addition, and expressing the same functional protein; or nucleotides that hybridize with the above nucleotide sequence under stringent conditions and express the same functional protein; or nucleotides having more than 90% homology to the above nucleotide sequence and expressing the same functional protein. The molecular marker contains polymorphic sites at positions 373 bp, 385 bp, 562 bp, and 1006 bp of the gene. A new mung bean anti-pulse-beetle gene and its molecular marker have been obtained, providing new genetic resources, and being of great significance to the mung bean anti-pulse-beetle breeding work.

DESIGNS CORRECTION NOTICES

The design amendment under application no: A2021/00619 was advertised in the August 2022 journal with an incorrect date of lodgment which read as **311/05/2021** instead of **31/05/2021** but the valid publication date will remain the **31 August 2022** and the whole publication should have appeared as the one below.

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 11 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 11

Design No. A2021/00619

Applicant: UNILEVER GLOBAL IP LIMITED

Class: 09 Article to which the Design is to be applied: CONTAINER

Date of lodgment: **31/05/2021**

Registrar of Designs

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for September 2022

Number of Advertised Patents: 987

Application Number	Patent Title	Filing Date
2010/01560	INFLATABLE AUTOMOTIVE TRACTION RECOVERY DEVICE	2010/03/04
2013/09412	COMPOSITION BASED ON OXIDES OF CERIUM, OF ZIRCONIUM AND OF ANOTHER RARE EARTH METAL WITH HIGH REDUCIBILITY, PREPARATION PROCESS AND USE IN THE FIELD OF CATALYSIS	2013/12/12
2014/08651	HIGH-CONCENTRATION MONOCLONAL ANTIBODY FORMULATIONS	2014/11/25
2015/00324	PLANTSURFACE STRUCTURE AND MODULES AND METHOD FOR FORMING THE SAME	2015/01/16
2015/02299	CONTEXT-AWARE COLLISION AVOIDANCE DEVICES AND COLLISION AVOIDANCE SYSTEM COMPRISING THE SAME	2015/04/07
2015/03454	METHOD OF PLANT GROWTH PROMOTION USING CARBOXAMIDE DERIVATIVES	2015/05/18
2015/03741	METHODS FOR CONTROLLING BLOOD PRESSURE AND REDUCING DYSPNEA IN HEART FAILURE	2015/05/26
2015/04201	METHOD OF MAKING RHENIUM COATING	2015/06/10
2015/04705	COMPOSITIONS FOR USE IN TREATING HYPOXIA INDUCIBLE FACTOR (HIF)- RELATED CONDITIONS	2015/06/30
2015/05200	COMPOUNDS AND METHODS FOR PURIFICATION OF SERINE PROTEASES	2015/07/20
2015/05417	AZETIDINYLOXYPHENYLPYRROLIDINE COMPOUNDS	2015/07/28
2015/06746	VARIANTS OF TISSUE INHIBITOR OF METALLOPROTEINASE TYPE THREE (TIMP-3), COMPOSITIONS AND METHODS	2015/09/11
2015/06780	ROTATABLE APPARATUS FOR METERING AND TREATING AGRICULTURAL GRANULES	2015/09/14
2015/06908	SEAL FOR A CENTRIFUGAL PUMP	2015/09/17
2015/07764	A METHOD OF MAKING A LIFTER BAR, A REFURBISHED LIFTER BAR AND A MOULD	2015/10/16

Application Number	Patent Title	Filing Date
2015/08959	PYRIMIDINEDIONE COMPOUNDS AGAINST CARDIAC CONDITIONS	2015/12/08
2016/00826	APPARATUS FOR TRANSMITTING AN ELECTRIC CURRENT TO A ROTATABLY MOUNTED ROTATION BODY	2016/02/05
2016/01085	ANTI-GARP PROTEIN AND USES THEREOF	2016/02/17
2016/01840	OIL-BASED ADJUVANTS	2016/03/16
2016/02639	EXTRACTS AND COMPOSITIONS OF HELICHRYSUM ODORATISSIMUM FOR PREVENTING AND TREATING SKIN CANCERS	2016/04/18
2016/03270	COMPOSITIONS COMPRISING HUMAN PLACENTAL PERFUSATE CELLS, SUBPOPULATIONS THEREOF, AND THEIR USES	2016/05/13
2016/03747	COMPOSITIONS COMPRISING PEG AND ASCORBATE	2016/06/02
2016/04564	METHYLENE CARBAMATE LINKERS FOR USE WITH TARGETED-DRUG CONJUGATES	2016/07/05
2016/04593	ARRANGEMENT FOR INITIATING A REMOTE OPERATION MODE	2016/07/06
2016/05263	PHARMACEUTICAL COMPOSITION FOR TOPICAL ADMINISTRATION	2016/07/29
2016/05592	METHOD OF CLEANSING THE COLON	2016/08/12
2016/07022	ENCODED CELLS AND CELL ARRAYS	2016/10/12
2016/07765	NOVEL MACROCYCLIC COMPOUNDS	2016/11/10
2016/08544	GLASS COATED CBN ABRASIVES AND METHOD OF MAKING THEM	2016/12/12
2016/08811	ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS THAT SPECIFICALLY BIND TO MICROTUBULE-ASSOCIATED PROTEIN TAU	2016/12/21
2017/01162	VARIANTS OF TISSUE INHIBITOR OF METALLOPROTEINASE TYPE THREE (TIMP-3), COMPOSITIONS AND METHODS	2017/02/16
2017/03343	CONTROL SYSTEMS AND METHODS SUITABLE FOR USE WITH POWER PRODUCTION SYSTEMS AND METHODS	2017/05/15
2017/04366	IL-17A-BINDING POLYPEPTIDES	2017/06/27
2017/04611	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/B-CATENIN SIGNALING PATHWAY INHIBITORS	2017/07/07
2017/06335	DETONATOR PACKAGING SYSTEM AND METHOD	2017/09/19
2017/07221	METHOD AND APPARATUS FOR POLYMERISING OLEFINS IN GAS PHASE	2017/10/24

Application Number	Patent Title	Filing Date
2017/07499	PYRIDO[3,4-d]PYRIMIDINE DERIVATIVE AND PHARMACEUTICALLY ACCEPTABLE SALT THEREOF	2017/11/06
2017/08044	PEPTIDE WITH ANTI-OBESITY AND ANTI-DIABETES ACTIVITY AND USE THEREOF	2017/11/27
2018/00201	WEED SEED DESTRUCTION	2018/01/10
2018/00687	ANIMAL FEED COMPOSITIONS AND USES THEREOF	2018/02/01
2018/01475	ENGINEERED CRY6A INSECTICIDAL PROTEINS	2018/03/02
2018/01599	METHOD AND SYSTEM FOR VEHICLE STATUS BASED ADVANCED DRIVER ASSISTANCE	2018/03/08
2018/01674	DERIVATIVES OF PYRROLE, DIAZOLE, TRIAZOLE OR TETRAZOLE, SUITABLE FOR CONTROLLING ARTHROPODS	2018/03/12
2018/01750	FARNESOID X RECEPTOR AGONISTS AND USES THEREOF	2018/03/14
2018/01880	HERBICIDAL COMPOSITIONS CONTAINING 4-AMINO-3-CHLORO-6-(4-CHLORO-2-FLUORO-3-METHOXYPHENYL)PYRIDINE- 2-CARBOXYLIC ACID, A TRIAZOLOPYRIMIDINE SULFONAMIDE HERBICIDE AND A CELL MEMBRANE DISRUPTOR HERBICIDE	2018/03/20
2018/02401	SNAIL TOOTH	2018/04/12
2018/02754	A CONNECTION DEVICE	2018/04/25
2018/03046	PROCESS FOR RECOVERING METALS	2018/05/09
2018/03987	TOPICAL SKIN CARE COMPOSITIONS COMPRISING MYRSINE AFRICANA EXTRACTS	2018/06/14
2018/04138	UPLINK DATA INDICATION	2018/06/20
2018/04620	CONTINUOUS RESERVOIR LEVEL MONITORING	2018/07/11
2018/06275	COOKING SYSTEMS WITH WASHING ELEMENTS AND SPREADER BAR	2018/09/18
2018/06519	METHOD FOR PRODUCING LACTIC ACID	2018/10/01
2018/06954	ELECTRONIC DEVICE, INFORMATION PROCESSING APPARATUS, AND INFORMATION PROCESSING METHOD	2018/10/18
2018/07416	A STORAGE DEVICE	2018/11/05
2018/07943	FORMULATIONS OF POLYALKYLENE OXIDE-ASPARAGINASE AND METHODS OF MAKING AND USING THE SAME	2018/11/23
2019/00314	A METHOD AND SYSTEM FOR MONITORING ROTOR BLADES OF A TURBOMACHINE USING BLADE TIP TIMING (BTT)	2019/01/16

Application Number	Patent Title	Filing Date
2019/00315	A METHOD AND SYSTEM FOR MEASURING ROTOR BLADE TIP DEFLECTION USING BLADE TIP TIMING (BTT)	2019/01/16
2019/01071	PLANT GROWTH REGULATOR COMPOUNDS	2019/02/19
2019/01266	MOORING SYSTEM FOR DRIFTING ENERGY CONVERTERS	2019/02/27
2019/01322	TREATMENT OF RELAPSED AND/OR REFRACTORY SOLID TUMORS AND NON-HODGKIN'S LYMPHOMAS	2019/03/01
2019/01373	PROJECTILE WITH PENETRATOR	2019/03/05
2019/01418	METAL HYDRIDE HYDROGEN STORAGE ARRANGEMENT FOR USE IN A FUEL CELL UTILITY VEHICLE AND METHOD OF MANUFACTURING THE SAME	2019/03/07
2019/02454	LASOFOXIFENE TREATMENT OF ER+ BREAST CANCER	2019/04/17
2019/02600	METHOD AND APPARATUS FOR TESTING ROLLING RESISTANCE	2019/04/24
2019/02695	OXO-NITROGENATED IRON COMPLEX, CATALYTIC SYSTEM COMPRISING SAID OXO-NITROGENATED IRON COMPLEX AND PROCESS FOR THE (CO)POLYMERIZATION OF CONJUGATED DIENES	2019/04/29
2019/02952	SECONDARY NODE CHANGE MEASUREMENT SIGNALING IN NEXT GENERATION RADIO NETWORK	2019/05/09
2019/03206	CABLING DEVICE	2019/05/21
2019/03583	CONNECTION SYSTEM AND METHOD FOR PREFABRICATED VOLUMETRIC CONSTRUCTION MODULES	2019/06/04
2019/03963	DECODING AUDIO BITSTREAMS WITH ENHANCED SPECTRAL BAND REPLICATION METADATA IN AT LEAST ONE FILL ELEMENT	2019/06/19
2019/04037	A PROCESS FOR PREPARING A MOLDING COMPRISING ZINC AND A TITANIUM-CONTAINING ZEOLITE	2019/06/21
2019/04405	CHEMICAL COMPOUNDS FOR COATING OF NANOSTRUCTURES	2019/07/04
2019/04428	PRECODING A TRANSMISSION FROM A MULTI-PANEL ANTENNA ARRAY	2019/07/05
2019/04439	IMPLEMENT TIP ASSEMBLY HAVING TIP WITH WEAR INDICATOR	2019/07/05
2019/04440	IMPLEMENT TIP ASSEMBLY HAVING TIP WITH SUPPORT RIB	2019/07/05
2019/04441	IMPLEMENT GROUND ENGAGING TIP ASSEMBLY HAVING TIP WITH TAPERED RETENTION CHANNEL	2019/07/05

Application Number	Patent Title	Filing Date
2019/04454	GENETICALLY ENGINEERED BACTERIUM COMPRISING ENERGY-GENERATING FERMENTATION PATHWAY	2019/07/08
2019/04764	A MULTI-EPIOTOPE DNA VACCINE FOR HEARTWATER	2019/07/19
2019/04919	DYNAMIC INDICATION FOR CHANNEL STATE INFORMATION FEEDBACK	2019/07/26
2019/05292	NON-PLATELET DEPLETING AND NON-RED BLOOD CELL DEPLETING CD47 ANTIBODIES AND METHODS OF USE THEREOF	2019/08/12
2019/05838	A NET	2019/09/04
2019/06174	A WIND TURBINE SYSTEM	2019/09/18
2019/06427	ANTI-ADRENOMEDULLIN (ADM) ANTIBODY OR ANTI-ADM ANTIBODY FRAGMENT OR ANTI-ADM NON-IG SCAFFOLD FOR PREVENTION OR REDUCTION OF ORGAN DYSFUNCTION OR ORGAN FAILURE IN A PATIENT HAVING A CHRONIC OR ACUTE DISEASE OR ACUTE CONDITION	2019/09/30
2019/06826	ELECTROCONDUCTIVE COMPOSITE	2019/10/16
2019/07079	EXPANDABLE OPTICAL DISTRIBUTION DEVICE	2019/10/25
2019/07323	METHOD AND SYSTEM FOR VENDING A PREPAYMENT TOKEN ENABLING TOKEN REVERSAL	2019/11/05
2019/07526	POD ASSEMBLY, DISPENSING BODY, AND E-VAPOR APPARATUS INCLUDING THE SAME	2019/11/13
2019/07775	METHOD OF IDENTIFYING A MUTANT PLANT	2019/11/25
2019/08582	INITIAL POSITIONING SYSTEM AND METHOD FOR MEASURING AND TAKING LIQUID	2019/12/23
2020/01288	MEDICAL DEVICE WITH CMUT ARRAY AND SOLID STATE COOLING, AND ASSOCIATED METHODS AND SYSTEMS	2020/02/28
2020/01538	WAVE POOL AND WAVE GENERATOR FOR BI-DIRECTIONAL AND DYNAMICALLY-SHAPED SURFING WAVES	2020/03/11
2020/01807	IL-5 ANTIBODY, ANTIGEN BINDING FRAGMENT THEREOF, AND MEDICAL APPLICATION THEREFOR	2020/03/23
2020/01921	PHARMACEUTICALS COMPOSITION FOR TREATING KELOID AND USES THEREOF	2020/03/24
2020/02090	WATER TREATMENT APPARATUS AND	2020/05/04

Application Number	Patent Title	Filing Date
	METHOD	
2020/02158	PEPTIDE FOR INHIBITING ANGIOGENESIS AND USE THEREOF	2020/05/04
2020/02159	STEREO MICROSCOPE WITH SINGLE OBJECTIVE	2020/05/04
2020/02192	DEPLOYABLE SOLAR TRACKER SYSTEM	2020/05/04
2020/02201	TAIL PORTION	2020/05/04
2020/02215	FUSE WITH REVERSIBLE AIRBRAKE	2020/05/04
2020/02273	SCREENING ASSEMBLY AND MOBILE MATERIAL PROCESSING MACHINE	2020/05/04
2020/02483	FLOATING SUPPORT STRUCTURE FOR OFFSHORE WIND TURBINE AND METHOD FOR INSTALLING A WIND TURBINE PROVIDED WITH SUCH A SUPPORT STRUCTURE	2020/05/06
2020/02588	SELF-STABILIZING SYSTEM AND METHOD FOR LONG TABLE	2020/05/08
2020/02695	WARHEAD	2020/05/12
2020/02730	COOKING MACHINE WITH HEATING AND STIRRING FUNCTION	2020/05/13
2020/02741	DEVICE FOR BATCHING FRUIT OR VEGETABLES, THE ACCUMULATION CANALS OF WHICH ARE PROVIDED WITH BYPASS PASSAGES	2020/05/13
2020/03594	ROBOT CELL	2020/06/15
2020/03644	COMPOSITION AND METHOD FOR CONFERRING AND/OR ENHANCING HERBICIDE TOLERANCE USING VARIANTS OF PROTOPORPHYRINOGEN IX OXIDASE FROM CYANOBACTERIA	2020/06/17
2020/03645	FUSION PROTEIN COMPRISING IL-2 PROTEIN AND CD80 PROTEIN, AND USE THEREOF	2020/06/17
2020/03651	HYDROFORMYLATION PROCESS	2020/06/17
2020/03670	POLYESTER PACKAGING MATERIAL	2020/06/18
2020/03826	SILANE MIXTURES AND PROCESS FOR PREPARING SAME	2020/06/24
2020/03994	HEAD-MOUNTED DISPLAY AND METHOD TO REDUCE VISUALLY INDUCED MOTION SICKNESS IN A CONNECTED REMOTE DISPLAY	2020/06/30
2020/04244	PROCESS FOR THE RECOVERY OF COPPER AND COBALT FROM A MATERIAL SAMPLE	2020/07/10
2020/04455	BATTERY HOLDER, POWER TRANSFER DEVICE, ELECTRIC VEHICLE AND INSTALLATION METHOD FOR ELECTRIC VEHICLE	2020/07/20
2020/04505	METHOD FOR DEWATTING THE GRAPE HARVEST AND MEANS FOR	2020/07/21

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	DEVATTING A GRAPE HARVEST	
2020/04741	METHOD OF CONTROLLING ANTHRACNOSE ON TROPICAL FRUIT PLANTS	2020/07/30
2020/04877	A CONNECTION FOR CHARGING AN INFLATABLE DEVICE	2020/08/06
2020/05350	COAL GANGUE FILLING COAL MINE GOAF HEAVY METAL ION DETECTION AND SAMPLING SYSTEM	2020/08/27
2020/05374	PREPARATION OF A COBALT-CONTAINING CATALYST	2020/08/28
2020/05385	GROWTH DIFFERENTIATION FACTOR 15 AGONIST COMPOUNDS AND METHODS OF USING THE SAME	2020/08/28
2020/05480	SPIRO CYCLOHEXANEDIONE DERIVATES AS HERBICIDES	2020/09/02
2020/05551	A DISPENSING APPARATUS FOR DISPENSING VALUABLE ARTICLES	2020/09/08
2020/05699	A SUNSCREEN COMPOSITION	2020/09/14
2020/06087	METHOD FOR TREATING METAL-CONTAINING SOLUTION	2020/10/01
2020/06135	DEVICE FOR TENSIONING A CANVAS ON A FRAME	2020/10/02
2020/06264	STABLE FORMULATIONS OF THERAPEUTIC ANTIBODY	2020/10/08
2020/06336	MINING OR CONSTRUCTION VEHICLE	2020/10/13
2020/06408	BIDIRECTIONAL INTER PREDICTION METHOD AND APPARATUS	2020/10/15
2020/06537	VOLTAGE LIMITER WITH A SHORT-CIRCUITING DEVICE	2020/10/21
2020/06671	IMPLEMENT TIP ASSEMBLY HAVING TIP WITH WEAR INDICATOR	2020/10/27
2020/06672	IMPLEMENT TIP ASSEMBLY HAVING TIP WITH SUPPORT RIB	2020/10/27
2020/06675	CANCER-SPECIFIC T-CELL RECEPTORS	2020/10/27
2020/07211	ANCHOR FOR A CEILING STRIP AND SYSTEM INCLUDING THE SAME	2020/11/19
2020/07491	STABLE FUSION PROTEIN FORMULATION	2020/12/01
2020/07492	CTLA4-IG FUSION PROTEIN FORMULATION	2020/12/01
2021/00055	INTRA-FRAME PREDICTION METHOD AND DEVICE	2021/01/05
2021/00196	MANUFACTURING PROCESS AND INTERMEDIATES FOR A PYRROLO[2,3-D]PYRIMIDINE COMPOUND AND USE THEREOF	2021/01/12
2021/00224	PRECIOUS METAL CATALYST BRIQUETTES, PROCESS FOR THE MANUFACTURE AND FOR THE INCINERATION THEREOF	2021/01/13

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2021/00243	MONITORING PASSENGER VEHICLE USAGE	2021/01/13
2021/00282	DEVICE AND METHOD FOR THERMALLY TEMPERING GLASS PANES WITH HEAT EXCHANGER	2021/01/14
2021/00383	PAPER SHEET STORAGE DEVICE AND PAPER SHEET PROCESSING DEVICE	2021/01/19
2021/00468	APPARATUS, METHOD AND COMPUTER PROGRAM FOR EMERGENCY CALL	2021/01/22
2021/00479	SALT OF MONOCHLOROACETIC ACID WITH CHELATING AGENT FOR DELAYED ACIDIFICATION IN THE OIL FIELD INDUSTRY	2021/01/22
2021/00519	PROTECTIVE COVER FOR TROMMEL FRAME	2021/01/25
2021/00526	SINGLE-FRAME IMAGE SUPER-RESOLUTION RECONSTRUCTION METHOD	2021/01/25
2021/00568	METHOD FOR PROVIDING A CATHODE LINING BARRIER LAYER IN AN ELECTROLYSIS CELL AND A MATERIAL FOR SAME	2021/01/26
2021/00700	2,6-DIAMINO PYRIDINE COMPOUNDS	2021/02/01
2021/00742	IMPROVED IMMUNOGLOBULIN VARIABLE DOMAINS	2021/02/03
2021/00819	ANTI-BTN3A ANTIBODIES AND THEIR USE IN TREATING CANCER OR INFECTIOUS DISORDERS	2021/02/05
2021/00821	FOAMABLE CLEANING COMPOSITION	2021/02/05
2021/00822	METHOD FOR MAINTENANCE OF A SLIDING CLOSURE AT THE OUTLET OF A METALLURGICAL VESSEL INCLUDING A SLIDING CLOSURE	2021/02/05
2021/00825	TAMPING UNIT AND METHOD FOR TAMPING SLEEPERS OF A TRACK	2021/02/05
2021/00826	SYSTEM AND METHOD FOR MONITORING HYDROGEOLOGICAL RISK	2021/02/05
2021/00863	INTERDENTAL BRUSH HAVING AN INSERTION GUIDANCE TIP	2021/02/08
2021/00864	COMPOSITION CONTAINING A 7BETA-HYDROXYCHOLESTEROL AND A LIPID VEHICLE, AND ITS USE IN THE TREATMENT OF NEOPLASTIC PATHOLOGIES	2021/02/08
2021/00865	EFFICIENT AND ROBUST ACKNOWLEDGEMENT PROCEDURES FOR NEW RADIO OPERATION IN UNLICENSED BANDS	2021/02/08
2021/00869	ACYLATED CALCITONIN MIMETICS	2021/02/09
2021/00885	A PROCESS FOR SEPARATION OF	2021/02/09

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	THE CELLULOSIC PART FROM A POLYESTER AND CELLULOSE COMPOSITION	
2021/00887	DETERMINATION OF BASE MODIFICATIONS OF NUCLEIC ACIDS	2021/02/09
2021/00889	DEVICE, PLANT AND METHOD FOR THE STORAGE AND TRANSFER OF THERMAL ENERGY OF SOLAR ORIGIN	2021/02/09
2021/00894	IMAGE CODING DEVICE, IMAGE CODING METHOD, IMAGE CODING PROGRAM, IMAGE DECODING DEVICE, IMAGE DECODING METHOD AND IMAGE DECODING PROGRAM	2021/02/10
2021/00924	TIME RESOURCES FOR UPLINK CHANNELS	2021/02/10
2021/00926	SOAP WRAPPER AND PROCESS	2021/02/10
2021/00927	DETERGENT COMPOSITION	2021/02/10
2021/00953	APPARATUS AND PROCESS FOR IMPROVED ORE RECOVERY	2021/02/11
2021/00954	HOLLOW SPHERICAL GLASS PARTICLES	2021/02/11
2021/00956	DETERGENT COMPOSITION	2021/02/11
2021/00957	INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE	2021/02/11
2021/00959	RELATING COMPLEX DATA	2021/02/11
2021/00993	CHIMERIC ANTIGEN RECEPTOR POLYPEPTIDES IN COMBINATION WITH TRANS METABOLISM MOLECULES MODULATING KREBS CYCLE AND THERAPEUTIC USES THEREOF	2021/02/12
2021/01003	2-(MORPHOLIN-4-YL)-L,7-NAPHTHYRIDINES	2021/02/15
2021/01025	CRYSTAL POLYMORPH OF 8-BROMO-2-(1-METHYLPIPERIDIN-4-YLAMINO)-4-(4-PHENOXYPHENYLAMINO)PYRIDO[4,3-D]PYRIMIDIN-5(6H)-ONE HYDROCHLORIDE AND METHOD FOR PREPARING SAME	2021/02/15
2021/01026	METHODS AND COMPOSITIONS FOR PRODUCING A VIRUS	2021/02/15
2021/01056	ALCOHOLISM-RELIEVING AND LIVER-PROTECTING HYDROGEL, FABRICATION METHOD AND APPLICATION THEREOF	2021/02/16
2021/01057	METHOD AND DEVICE FOR MONITORING THE SUBSOIL OF THE EARTH UNDER A TARGET ZONE	2021/02/16
2021/01059	ENTROPY CODING FOR SIGNAL ENHANCEMENT CODING	2021/02/16
2021/01079	SALTS OF METHYL 6-(2,4-	2021/02/17

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	DICHLOROPHENYL)-5-[4-[(3S)-1-(3-FLUOROPROPYL)PYRROLIDIN-3-YL]OXYPHENYL]-8,9-DIHYDRO-7H-BENZO[7]ANNULENE-2-CARBOXYLATE AND PREPARATION PROCESS THEREOF	
2021/01092	PYRIDOPYRIMIDINES AS HISTAMINE H4-RECEPTOR INHIBITORS	2021/02/17
2021/01094	END SEALS FOR PARABOLIC TROUGH SOLAR COLLECTORS AND A PARABOLIC TROUGH SOLAR COLLECTOR	2021/02/17
2021/01096	PROCESS AND APPARATUS FOR LINE PRODUCTION OF PLANT GROWTH MEDIUM POTS OR BAGS WITH AN OPEN TOP END	2021/02/17
2021/01098	A QUICK AND EASY CLEANING FORMULATION	2021/02/17
2021/01119	COMPOUNDS USEFUL IN MODULATING THE FARNESOID X RECEPTOR AND METHODS OF MAKING AND USING THE SAME	2021/02/18
2021/01120	PERSONAL SHIELDING DEVICE	2021/02/18
2021/01138	COVALENT INHIBITORS OF KRAS	2021/02/19
2021/01142	METHODS AND COMPOSITIONS COMPRISING PURIFIED RECOMBINANT POLYPEPTIDES	2021/02/19
2021/01184	DETERGENT COMPOSITION	2021/02/22
2021/01214	PROCESS AND INTERMEDIATES FOR THE PREPARATION OF BILASTINE	2021/02/23
2021/01215	ARTIFICIAL HAIR FIBER, METHOD FOR MANUFACTURING SAME, AND ARTIFICIAL HAIR	2021/02/23
2021/01244	CATALYST AND METHOD FOR DIRECTLY CONVERTING SYNTHESIS GAS INTO LOW-CARBON OLEFIN	2021/02/24
2021/01249	PRODUCTION OF FUEL PRODUCTS FROM WASTE RUBBER MATERIAL	2021/02/24
2021/01250	NOVEL CRISPR-ASSOCIATED PROTEIN AND USE THEREOF	2021/02/24
2021/01254	DETERGENT COMPOSITION	2021/02/24
2021/01255	SYSTEM AND METHOD FOR DISPENSING MULTIPLE LOW RATE AGRICULTURAL PRODUCTS	2021/02/24
2021/01256	RNA MOLECULES COMPRISING NON-CANONICAL BASE PAIRS	2021/02/24
2021/01267	HIGH PROTEIN MULTIGRAIN CEREAL	2021/02/25
2021/01274	SCALLOP-RESISTANT TRACK LINK AND METHOD OF MAKING SAME	2021/02/25
2021/01301	HIGH RECOVERY VARIABLE VOLUME REVERSE OSMOSIS MEMBRANE SYSTEM	2021/02/25

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2021/01302	HAIR TREATMENT METHOD	2021/02/25
2021/01322	SUBSTITUTED IMIDAZOQUINOLINES	2021/02/26
2021/01323	SUBSTITUTED IMIDAZOQUINOLINES AS AGONISTS OF TLR7	2021/02/26
2021/01327	PEPTIDES HAVING IMMUNOMODULATORY PROPERTIES	2021/02/26
2021/01357	SYSTEM OF MEDICAL INDICATORS HAVING MULTISENSORY, MULTIPURPOSE AND MULTIFUNCTIONAL FEATURES	2021/02/26
2021/01377	BATTERY ENERGY STORAGE SYSTEM	2021/02/26
2021/01398	NEW CONJUGATES OF MONTELUKAST AND PEPTIDES	2021/03/01
2021/01489	COMPOSITIONS AND METHODS FOR THE TREATMENT OF PARKINSON'S DISEASE	2021/03/04
2021/01835	METHOD AND DEVICE FOR SEPARATING A LIGHTER DENSITY FLUID FROM A HEAVIER DENSITY FLUID	2021/03/18
2021/01882	MEDICAMENT FOR MITIGATING CONDITIONS AND/OR SUPPRESSING ONSET OF PERIPHERAL NEUROPATHY INDUCED BY ANTI-MALIGNANT TUMOR AGENT	2021/03/19
2021/01888	SYSTEM FOR PREPARING AND PRESENTING FOOD	2021/03/19
2021/01925	A PROCESS FOR MICROBIAL STABILIZATION AND PROCESSING OF BREWERS SPENT GRAIN, MICROBIOLOGICALLY STABILIZED BREWERS SPENT GRAIN POWDER AND USE THEREOF	2021/03/23
2021/01928	AN ANTIMICROBIAL COMPOSITION	2021/03/23
2021/01954	MITOKETOSCINS: MITOCHONDRIAL-BASED THERAPEUTICS TARGETING KETONE METABOLISM IN CANCER CELLS	2021/03/24
2021/01961	IMPROVEMENTS TO MULTIFUNCTION SOLAR UTILITY PANELS	2021/03/24
2021/01980	CONTAINER FOR CONSUMER GOODS	2021/03/24
2021/02031	PIVOTING LIGHT CAROUSEL FOR USE WITH CLEANING AND/OR DISINFECTING CRADLE FOR VIRTUAL REALITY HEADSETS	2021/03/25
2021/02033	IMAGE DECODING DEVICE, IMAGE DECODING METHOD, AND IMAGE DECODING PROGRAM	2021/03/25
2021/02034	ANTI-HLA-G ANTIBODIES, COMPOSITIONS COMPRISING ANTI-HLA-G ANTIBODIES AND METHODS OF USING ANTI-HLA-G ANTIBODIES	2021/03/25

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2021/02035	VIDEO ENCODING DEVICE, VIDEO ENCODING METHOD, VIDEO ENCODING PROGRAM, VIDEO DECODING DEVICE, VIDEO DECODING METHOD, AND VIDEO DECODING PROGRAM	2021/03/25
2021/02036	IMAGE DECODING DEVICE, IMAGE DECODING METHOD, AND IMAGE DECODING PROGRAM	2021/03/25
2021/02058	3-(1,2,3,6-TETRAHYDROPYRIDIN-2-YL)PYRIDINE GLUTARATE OR A PHARMACEUTICALLY ACCEPTABLE SOLVATE THEREOF	2021/03/26
2021/02070	REMOTELY-CONTROLLED MAGNETIC SURVEILLANCE AND ATTACK PREVENTION SYSTEM AND METHOD	2021/03/26
2021/02132	ELECTRONIC SMOKING ARTICLE	2021/03/30
2021/02133	CONTACT LENS COMPRISING A LENTICULAR IN A SUPERIOR PORTION OF THE CONTACT LENS	2021/03/30
2021/02134	CONCRETE FORMING SYSTEM	2021/03/30
2021/02135	CONCRETE FORMING SYSTEM	2021/03/30
2021/02156	HYDRIDE DONORS AS AN ADDITIVE FOR REDUCING LOW SPEED PRE-IGNITION EVENTS	2021/03/30
2021/02157	AZITHROMYCIN AND ROXITHROMYCIN DERIVATIVES AS SENOLYTIC DRUGS	2021/03/30
2021/02181	KETTLE BARBEQUE WARMING TRAY ARRANGEMENT	2021/03/31
2021/02198	KIT FOR MOUNTING A SURFACE TREATMENT CHAMBER	2021/03/31
2021/02199	CAP FOR CONTAINER	2021/03/31
2021/02205	VIRTUAL BOUNDARY PROCESSING FOR ADAPTIVE LOOP FILTERING	2021/03/31
2021/02261	SPAK KINASE INHIBITORS AS NEUROPROTECTIVE AGENTS	2021/04/06
2021/02374	(HETERO)ARYLIMIDAZOLE COMPOUND AND HARMFUL ORGANISM CONTROL AGENT	2021/04/12
2021/02408	TRANSPORT OF EXPLOSIVES	2021/04/13
2021/02497	EDIBLE TUBULAR FOOD CASINGS	2021/04/15
2021/02646	PROCESS FOR THE MANUFACTURE OF PULVERULENT, POROUS CRYSTALLINE METAL SILICATES EMPLOYING FLAME SPRAY PYROLYSIS	2021/04/21
2021/02652	METHODS FOR SHRINKING PITUITARY TUMORS	2021/04/21
2021/02703	SYNTHESIS OF RE-PULPABLE TEMPORARY WET STRENGTH POLYMER FOR TISSUE APPLICATION	2021/04/22
2021/02716	A LESS-LETHAL DEVICE	2021/04/22

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2021/02728	PYRIMIDINE AND FIVE-MEMBERED NITROGEN HETEROCYCLE DERIVATIVE, PREPARATION METHOD THEREFOR, AND MEDICAL USES THEREOF	2021/04/23
2021/02848	A THERMAL EVAPORATION SYSTEM FOR SEPRATING SOLUTE FROM A SOLUTE-SOLVENT MIXTURE	2021/04/28
2021/02909	IMMUNOGENIC PEPTIDES WITH IMPROVED OXIDOREDUCTASE MOTIFS	2021/04/30
2021/03020	SPECTRAL REGION IDENTIFICATION FOR REFERENCE SYMBOL TRANSMISSION	2021/05/05
2021/03382	SINGLE-PIECE SHOWER HEAD	2021/05/19
2021/03618	CONTEXTUAL SAFETY ASSESSMENT, RECOMMENDATIONS, PROVISIONING AND MONITORING	2021/05/27
2021/03631	CUTTER HEAD ARRANGEMENT	2021/05/27
2021/03643	ANTIBODY THAT BINDS TO VEGF AND IL-1BETA AND METHODS OF USE	2021/05/27
2021/03646	RECOVERY OF ENERGY IN RESIDUE GASES	2021/05/27
2021/03649	FILAMENTOUS NANOPARTICLES HAVING VACCINE ADJUVANT EFFECT	2021/05/27
2021/03664	A COMPUTER-IMPLEMENTED METHOD FOR SECURELY ENROLLING A USER WITH A SERVICE VIA A MESSAGING APPLICATION	2021/05/28
2021/03666	METHOD FOR RECOVERING VALUABLES	2021/05/28
2021/03703	A CLEANING DEVICE	2021/05/31
2021/03705	PORTABLE MELT ELECTROSPINNING DEVICE	2021/05/31
2021/03706	DEVICE AND METHOD FOR MEASURING A TEMPERATURE OF A MOLTEN METAL	2021/05/31
2021/03714	DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS	2021/05/31
2021/03778	STAIR STRINGER	2021/06/02
2021/03780	3D PRINTED FILTER CENTER TUBE	2021/06/02
2021/03797	A CABLE SECURING DEVICE	2021/06/02
2021/03815	COMPOSITION, FOR PREVENTING, RELIEVING OR TREATING CARTILAGE-RELATED DISEASES OR SYMPTOMS, COMPRISING HAPLN1	2021/06/03
2021/03816	HYBRID POWER PLANT	2021/06/03
2021/03841	CAPS WITH SAFETY FUNCTION FOR PREVENTION OF EXCESSIVE PRESSURE	2021/06/04
2021/03842	HAND-HELD MELT ELECTROSPINNING	2021/06/04

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	DEVICE WITH BUILT-IN ELECTRODE	
2021/03886	PORTABLE ELECTRONIC LOCK	2021/06/07
2021/03887	PRIMER GROUP, KIT AND METHOD FOR ISOTHERMAL AMPLIFICATION FOR DETECTING HEPATITIS A VIRUS IN FOOD	2021/06/07
2021/03899	CAR T CELL METHODS AND CONSTRUCTS	2021/06/07
2021/03906	IMMUNOSTIMULANT FOR USE AGAINST PATHOGENS	2021/06/07
2021/03964	SEQUENTIAL MEASUREMENT OF STATUS OF LED LIGHTING AND OTHER APPARATUS CONNECTED TO AN ELECTRICAL POWER LINE AND DISPLAY OF THE STATUS AND THE EXACT GPS POSITION THEREOF	2021/06/09
2021/03974	CRYSTAL FORM OF HEPATITIS B SURFACE ANTIGEN INHIBITOR	2021/06/09
2021/03995	LOCKING AND BRAKING SYSTEMS FOR A TREADMILL	2021/06/10
2021/03996	BRAKING AND LOCKING SYSTEM FOR A TREADMILL	2021/06/10
2021/03997	TREADMILL WITH LIGHTING AND SAFETY FEATURES	2021/06/10
2021/04003	TEMPERATURE CONTROL OF A CLIMATIC ZONE OF AN INSECT-BREEDING FACILITY	2021/06/10
2021/04044	EXERCISE MACHINE CONTROLS	2021/06/11
2021/04064	R-TYPE PYRIDYLOXYCARBOXYLIC ACID, SALT AND ESTER DERIVATIVE THEREOF, AND PREPARATION METHOD THEREFOR, AND HERBICIDAL COMPOSITION AND APPLICATION THEREOF	2021/06/14
2021/04085	SECURING ELEMENT	2021/06/14
2021/04113	INTEGRATED PASSIVE REACTOR SYSTEM	2021/06/15
2021/04134	BENEFICIATION OF Cr-BEARING ORE	2021/06/17
2021/04136	MOBILE DEVICE CHARGER	2021/06/17
2021/04138	LOCK CYLINDER, LOCKING DEVICE, LOCKING SYSTEM, KEY, AND KEY BLANK	2021/06/17
2021/04141	DEVICE FOR DEPOSITING AN ELEMENT BY MEANS OF A CANNULA	2021/06/17
2021/04145	DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS	2021/06/17
2021/04248	REACTOR AND PROCESS FOR GASIFYING AND/OR MELTING OF FEED MATERIALS	2021/06/21
2021/04311	PORTABLE AND DISPOSABLE URINARY DEVICE	2021/06/23

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2021/04312	A GROUT MONITORING DEVICE FOR AN ANCHOR	2021/06/23
2021/04356	MONOCLONAL ANTIBODIES THAT BIND SPECIFICALLY TO HUMAN TRBV9	2021/06/24
2021/04357	MONOCLONAL ANTIBODIES AGAINST THE BETA CHAIN REGION OF HUMAN TRBV9	2021/06/24
2021/04373	MODULE AND ASSEMBLY FOR UNDERGROUND MANAGEMENT OF FLUIDS FOR SHALLOW-DEPTH APPLICATIONS	2021/06/24
2021/04415	INTEGRATED CIRCUITS INCLUDING MEMORY CELLS	2021/06/25
2021/04418	PRINT COMPONENT WITH MEMORY CIRCUIT	2021/06/25
2021/04421	FLUID EJECTION DEVICES INCLUDING A FIRST MEMORY AND A SECOND MEMORY	2021/06/25
2021/04469	METHOD FOR TIME SYNCHRONIZATION BETWEEN AN AUTOMATIC MOVING MEANS AND A CONTACTLESS DETECTION MEANS ARRANGED ON SAID AUTOMATIC MOVING MEANS	2021/06/28
2021/04471	ATMOSPHERIC WATER GENERATOR	2021/06/28
2021/04510	MEMORIES OF FLUIDIC DIES	2021/06/29
2021/04513	AUGMENTED REALITY FILTERS FOR CAPTURED AUDIOVISUAL PERFORMANCES	2021/06/29
2021/04526	PROCESS FOR THE RECOVERY OF COPPER AND COBALT FROM A MATERIAL SAMPLE	2021/06/28
2021/04548	POWER SCREEN PROTECTOR	2021/06/30
2021/04571	INORGANIC FIBER FORMED BODY, MAT FOR EXHAUST GAS PURIFICATION DEVICE, AND EXHAUST GAS PURIFICATION DEVICE	2021/06/30
2021/04590	AN ILLUMINATION DEVICE	2021/07/01
2021/04615	CONTINUOUS QUANTITATIVE FEEDER	2021/07/02
2021/04668	INACTIVATION OF AFRICAN SWINE FEVER VIRUS USING A FEED ADDITIVE	2021/07/05
2021/04697	A CONTAINER	2021/07/06
2021/04731	PROVIDING A DIGITAL DRIVING LICENCE	2021/07/07
2021/04733	NANOPARTICLE, CONTRAST AGENT FOR MAGNETIC RESONANCE IMAGING COMPRISING SAME AND ZWITTERIONIC LIGAND COMPOUND	2021/07/07
2021/04739	 L-TRIIODOTHYRONINE (T3) FOR USE IN LIMITING MICROVASCULAR OBSTRUCTION	2021/07/07

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2021/04753	ATMOSPHERIC WATER GENERATOR WITH WATER COOLING SYSTEM	2021/07/07
2021/04781	PROCESS SYSTEM AND PROCESS METHOD FOR CONVERSION OF SULFUR-CONTAINING FLUE GAS TO SULFURIC ACID	2021/07/08
2021/04806	APPARATUS FOR MOVING AN ITEM	2021/07/09
2021/04811	TRACK LINK HAVING CANTED RAIL SURFACE EDGES AND MACHINE TRACK WITH SAME	2021/07/09
2021/04813	REDUCING SYNCHRONIZATION RELIANCE IN GARBAGE COLLECTION MARKING	2021/07/09
2021/04832	SHUT-OFF VALVE	2021/07/09
2021/04904	BIOMETRIC TERMINAL, IN PARTICULAR FOR ACCESS CONTROL	2021/07/13
2021/04942	METHOD AND DEVICE OPERATING IN UNLICENSED SPECTRUM	2021/07/14
2021/04949	ELECTRIC CIRCUIT FOR POWERING CENTRIFUGAL PUMPS	2021/07/14
2021/04968	METHOD AND APPARATUS FOR BLURRING EFFECT MITIGATION IN GROUND-BASED RADAR IMAGES	2021/07/15
2021/04984	METHOD FOR VERIFYING THE IDENTITY OF A USER BY IDENTIFYING AN OBJECT WITHIN AN IMAGE THAT HAS A BIOMETRIC CHARACTERISTIC OF THE USER AND MOBILE DEVICE FOR EXECUTING THE METHOD	2021/07/15
2021/05014	A COVER DEVICE FOR A LOCKING ARRANGEMENT	2021/07/16
2021/05046	WATER LEAKAGE PREVENTING DEVICE AND METHOD FOR MOBILE RIGID BOXBOARD IN GEOTECHNICAL TRUE TRIAXIAL TEST	2021/07/19
2021/05054	A PIPE-RELINING APPARATUS	2021/07/19
2021/05075	ANTIVIRAL COMPOSITIONS AND METHODS	2021/07/19
2021/05076	AMMONIUM-FUNCTIONALIZED SACCHARIDE POLYMERS AND METHODS FOR PRODUCTION AND USE THEREOF	2021/07/19
2021/05077	METHOD FOR DETECTING AND ENUMERATING OF LOW CONCENTRATIONS OF LISTERIA	2021/07/19
2021/05085	CLIP-ON SECURING SYSTEM AND FASTENING COMPONENT THEREFOR	2021/07/19
2021/05094	PROTECTION KIT	2021/07/20
2021/05135	FIRE STARTER	2021/07/21
2021/05143	PHARMACEUTICAL PREPARATION FOR TREATING HEPATITIS B, PREPARATION METHOD THEREFOR	2021/07/21

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	AND USE THEREOF	
2021/05144	ORAL PHARMACEUTICAL COMPOSITION WITH A PLANT ALKALOID FOR TREATMENT OF DEPENDENCIES	2021/07/21
2021/05155	SOYBEAN TRANSGENIC EVENT IND- ØØ41Ø-5	2021/07/21
2021/05185	DEVICE FOR COATING AGGREGATES, METHOD AND USES	2021/07/22
2021/05266	MICRO ELECTRIC POWER STATION AND MICRO GRID	2021/07/26
2021/05293	PRIMER SETS AND A KIT FOR ISOTHERMAL AMPLIFICATION OF A NOVEL CORONAVIRUS SARS-COV-2 ORF1AB GENE AND N GENE	2021/07/27
2021/05298	COMPOSITION COMPRISING CYSTEINE AND A PARTICULAR FATTY ACID TRIGLYCERIDE	2021/07/27
2021/05313	SYSTEM AND METHOD OF AUTOMATED CLEAN OUT OF CARRYBACK IN SURFACE HAULAGE	2021/07/27
2021/05438	INTERNAL CYCLIC SULPHIAMIDINE AMIDE-ARYL AMIDE COMPOUND AND USE THEREOF FOR TREATING HEPATITIS B	2021/07/30
2021/05473	A CARD GAME SYSTEM FOR PLAYING A CARD GAME	2021/08/02
2021/05474	PAPER MANAGING SYSTEM AND RELATED WORKFLOW	2021/08/02
2021/05485	METHOD FOR CURING HEAVY METALS IN COAL GANGUE BY USING MICROORGANISMS	2021/08/02
2021/05486	PRE-HARVEST DESICCATION METHOD	2021/08/02
2021/05555	CAP FOR A CONTAINER AND RELATED PRODUCTION METHOD	2021/08/06
2021/05662	EVALUATING ENTITY BEHAVIOUR IN A CONTRACTUAL SITUATION	2021/08/05
2021/05782	PHARMACEUTICAL COMPOSITION COMPRISING AZILSARTAN MEDOXOMIL OR COMBINATION THEREOF	2021/08/13
2021/05829	ETELCALCETIDE FORMULATIONS FOR PARENTERAL USE	2021/08/16
2021/06013	EDIBLE FILM	2021/08/20
2021/06015	2-HYDROXYPROPYL-?-CYCLODEXTRIN (HP?CD) FOR USE IN THE TREATMENT OF BREAST CANCER	2021/08/20
2021/06048	ACTIVE VEHICLE DEFENSE SYSTEM AND METHOD OF USING THE SAME	2021/08/23
2021/06057	SYSTEM AND METHOD FOR SPECIFYING AND CONTROLLING SUMP DEPTH	2021/08/23

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2021/06126	SOLAR LIGHT POST	2021/08/25
2021/06133	TRANSACTING	2021/08/25
2021/06134	A MULTI-FUNCTION ROUTING TOOL	2021/08/25
2021/06286	CAPSULE AND SYSTEM FOR PREPARING A LIQUID FOOD PRODUCT	2021/08/30
2021/06297	METHOD AND APPARATUS FOR INTRA PREDICTION USING LINEAR MODEL	2021/08/30
2021/06302	A BICYCLE PARKING STAND FOR LOCKING A BICYCLE TO THE STAND COMPRISING AN ELECTRONIC LOCK	2021/08/30
2021/06303	SYSTEM FOR FIXING WEAR ELEMENTS ON EARTH-MOVING MACHINES	2021/08/30
2021/06334	INTELLIGENT VARIABLE-SPEED CONTROL AND MATERIAL DETECTION TREATMENT DEVICE OF MINING BELT CONVEYOR	2021/08/31
2021/06358	MULTI-COMPARTMENT PACKAGE FOR PREPARING TAHINI BASED PRODUCTS AND METHOD OF USING THE SAME	2021/08/31
2021/06374	HANDLING OF MEASUREMENT CONFIGURATION UPON CONDITIONAL MOBILITY EXECUTION	2021/09/01
2021/06456	PROTECTIVE INSERT	2021/09/03
2021/06475	GEOMATERIAL WEB WITH BIOLOGICAL DEGRADATION PROPERTIES	2021/09/03
2021/06539	PROCESS AND SYSTEM FOR MELTING AGGLOMERATES	2021/09/07
2021/06581	USE OF TOPICAL BRAF INHIBITOR COMPOSITIONS FOR TREATMENT OF RADIATION DERMATITIS	2021/09/07
2021/06944	EARLY TERMINATION FOR OPTICAL FLOW REFINEMENT	2021/09/17
2021/07334	DEVICE FOR RANDOM BLOOD SUGAR TESTING AND THE METHOD OF ITS USE	2021/09/29
2021/07423	ASSEMBLY SYSTEM AND METHOD FOR PACKAGING WEB MATERIAL IN A ROLL	2021/10/01
2021/07458	USER DEVICE AND BASE STATION DEVICE	2021/10/04
2021/07482	PESTICIDAL COMPOSITIONS	2021/10/05
2021/07489	ENERGY STORAGE SYSTEM FOR A BOW	2021/10/05
2021/07500	TARPAULIN SUPERSTRUCTURE	2021/10/05
2021/07527	METHOD AND APPARATUS FOR INTRA SMOOTHING	2021/10/06
2021/07593	CONVERTING NON-BIODEGRADABLE POLYMERIC GRANULES AND COMPONENTS TO BIODEGRADABLE	2021/10/08

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	BY SURFACE COATING	
2021/07639	BREAKOUT WRENCH APPARATUS	2021/10/11
2021/07663	AIR-COMPRESSION ENERGY-STORAGE AND POWER-SUPPLY SYSTEM HAVING AIR PURIFICATION CAPABILITY THROUGH USING SOLAR ENERGY	2021/10/11
2021/07670	A DRILL HAMMER	2021/10/11
2021/07765	PYROLYSIS METHOD AND REACTOR FOR RECOVERING SILICA FROM POLYMER WASTE MATERIAL	2021/10/13
2021/07766	PYROLYSIS OF POLYMER WASTE MATERIALS	2021/10/13
2021/07871	EXTRACTION OF CANNABINOIDS, FLAVONOIDS AND TERPENES FROM CANNABIS	2021/10/15
2021/08028	METHOD FOR PRODUCING A PGM COLLECTOR ALLOY	2021/10/20
2021/08030	CIRCUIT BOARD FOR AN ELECTRIC VEHICLE CHARGING STATION	2021/10/20
2021/08042	A METHOD FOR PRODUCING MILK AND DAIRY SUPPLEMENTS WITH A UNIQUE FATTY ACID COMPOSITION, BY RESTORING THE COMMENSAL NATURAL MICROBIOTA	2021/10/20
2021/08043	LIDDED BOX-TYPE PACKAGING	2021/10/20
2021/08052	FREEZE-DRIED PRODUCT AND GAS-FILLED MICROVESICLES SUSPENSION	2021/10/20
2021/08081	CHEMICAL BASED SELF-CONTAINED SELF-RESCUER	2021/10/21
2021/08082	A FORK-CARRIER	2021/10/21
2021/08142	ADJUSTABLE-SIZE PROTECTIVE VEST	2021/10/22
2021/08168	HETEROLOGOUS ADMINISTRATION OF TAU VACCINES	2021/10/22
2021/08207	PORTABLE MACHINE FOR CONNECTING CHAIN LINKS AND AMMUNITION	2021/10/25
2021/08213	KLEBSIELLA VACCINE AND METHODS OF USE	2021/10/25
2021/08243	AGRICULTURAL SPRAYER AND WIND DEFLECTOR THEREFOR	2021/10/26
2021/08244	FRAGRANCE COMPOSITIONS	2021/10/26
2021/08265	CODON OPTIMIZED SYNTHETIC NUCLEOTIDE SEQUENCES ENCODING CRY2Ai PROTEIN AND USES THEREOF	2021/10/26
2021/08372	TRANSVERSE PLUNGER-TYPE VARIABLE-HEIGHT VALVE BRIDGE ASSEMBLY	2021/10/28
2021/08429	CARBAMOYL CYCLOHEXANE DERIVATIVES FOR TREATING AUTISM SPECTRUM DISORDER	2021/10/29
2021/08538	ARTIFICIAL DIELECTRIC MATERIAL	2021/11/02

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2021/08689	AND FOCUSING LENSES MADE OF IT NUCLEIC ACID SEQUENCE FOR DETECTING SOYBEAN PLANT DBN8002 AND DETECTION METHOD THEREFOR	2021/11/05
2021/08743	A method of grafting plants	2021/11/08
2021/08771	FLAVONOID POLYPHENOL DRUG SELF-EMULSIFYING COMPOSITION, PREPARATION METHOD THEREFOR, PHARMACEUTICAL COMPOSITION THEREOF AND APPLICATION THEREOF	2021/11/08
2021/08775	NEW EGFR INHIBITORS	2021/11/08
2021/08777	STEAM CRACKING CONTROL FOR IMPROVING THE PCI OF BLACK GRANULES	2021/11/08
2021/08782	TRANSFER MACHINE AND USE THEREOF IN A POULTRY HOUSE FOR TRANSFERRING INCUBATED EGGS TO A FLOOR THEREOF	2021/11/08
2021/09019	SIZING COMPOSITIONS FOR GLASS FIBER DIRECT ROVING FOR PRODUCING MULTIAXIAL FABRICS, AND PREPARATION METHODS AND APPLICATIONS THEREOF	2021/11/12
2021/09185	HIGH VOLTAGE TRANSFORMER, METHOD FOR PRODUCING A HIGH VOLTAGE TRANSFORMER AND TEST SYSTEM AND TEST SIGNAL DEVICE COMPRISING A HIGH VOLTAGE TRANSFORMER	2021/11/17
2021/09189	MOTORCYCLE REAR-BRAKE ADAPTOR UNIT	2021/11/17
2021/09206	AN ALTERNATOR STATOR CLAMPING DEVICE	2021/11/18
2021/09426	ROLLER MILL HAVING RIM ELEMENTS AND METHOD FOR SETTING AN END- FACE GAP OF THE ROLLER MILL	2021/11/23
2021/09428	STRUCTURAL PROFILE FOR ELECTRICAL CABINET	2021/11/23
2021/09504	SUBSTITUTED PYRIDAZINONES AS HERBICIDES	2021/11/24
2021/09523	CLIP FOR HOLDING TWO FLAT ELEMENTS, ASSEMBLY COMPRISING SUCH A CLIP	2021/11/25
2021/09567	FIRE PROTECTION COATING	2021/11/25
2021/09575	FORMING OF DISINFECTANT SOLUTIONS	2021/11/25
2021/09582	SILICATE BASED HEAT TRANSFER FLUID, METHODS OF ITS PREPARATIONS AND USES THEREOF	2021/11/25
2021/09583	SUBSTITUTED PYRIDAZINONES AS	2021/11/25

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	HERBICIDES	
2021/09608	TREATMENT OF ACIDIC, METAL CONTAMINATED WATER	2021/11/26
2021/09641	PARTHENOGENETIC HAPLOID INDUCTION GENE DMP AND APPLICATION THEREOF	2021/11/26
2021/09716	L-THREONINE EXPORT PROTEIN VARIANT AND METHOD FOR PRODUCTION OF L-THREONINE USING SAME	2021/11/29
2021/09732	COMPOSITION FOR PREVENTION OR TREATMENT OF HAIR LOSS INCLUDING HAPLN1	2021/11/29
2021/09782	CIRCUIT FOR CONTROLLING THE FIRING OF A PYROTECHNIC COMPONENT	2021/11/30
2021/09784	GRAVITY TIP CONTAINER	2021/11/30
2021/09820	PROTECTION AND MAINTENANCE OF WOODEN TRANSPORT CRATES	2021/12/01
2021/09826	NK1 INHIBITORS FOR THE TREATMENT OF MALARIA	2021/12/01
2021/09841	METHOD FOR MANUFACTURING MORTAR-BASED ELEMENTS	2021/12/01
2021/09842	SCREEN TILE AND MODULAR SCREENING APPARATUS FOR DEWATERING PULP OR SLURRY	2021/12/01
2021/09884	HEIGHT-ADJUSTABLE FORKLIFT DEVICE	2021/12/02
2021/09885	VALVE ASSEMBLY	2021/12/02
2021/09905	PROJECTILE, IN PARTICULAR DEFORMATION AND/OR PARTIAL FRAGMENTATION PROJECTILE, AND METHOD FOR PRODUCING A PROJECTILE	2021/12/02
2021/09909	APPARATUS AND METHOD TO FORM HOLLOW CONTAINERS	2021/12/02
2021/09946	DRAPERY SUSPENSION SYSTEM	2021/12/03
2021/09947	WINDMILL TOWER WITH COMPOSITE MATERIAL BY AVIAN BIONIC STRUCTURE	2021/12/03
2021/09950	CARBON FIBER HEATING SYSTEM FOR ANTI-FREEZING AND SNOW-MELTING OF WINDMILL BLADE	2021/12/03
2021/09951	SELF-HOISTING CONTAINER	2021/12/03
2021/09952	ASYNCHRONOUS MOTOR STRUCTURE	2021/12/03
2021/09969	DOWN HOLE MEASUREMENT SYSTEM	2021/12/03
2021/09977	CHROMA SAMPLE WEIGHT DERIVATION FOR GEOMETRIC PARTITION MODE	2021/12/03
2021/09985	AN INFLATABLE ROCK BOLT	2021/12/03
2021/10046	IMPROVEMENTS IN OR RELATING TO	2021/12/06

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	ORGANIC COMPOUNDS	
2021/10050	ADDITIVE FORMULATION AND METHOD OF USING SAME	2021/12/06
2021/10097	METHOD FOR OPERATING A TEMPERATURE-CONTROLLED CIRCULATION SYSTEM AND TEMPERATURE-CONTROLLED CIRCULATION SYSTEM	2021/12/07
2021/10101	DENSITY FLOW METER FOR PHARMACEUTICAL FORMULATION DOSING	2021/12/07
2021/10117	MULTI-CHANNEL COOLED PANEL FOR BLAST FURNACES AND OTHER INDUSTRIAL FURNACES	2021/12/07
2021/10183	MULTI-PHASE REINFORCED HIGH-STRENGTH ALUMINIUM ALLOY MATERIAL AND PREPARATION METHOD THEREOF	2021/12/09
2021/10218	NON-INVASIVE PULSATILE DEVICE FOR CIRCULATORY ASSISTANCE	2021/12/09
2021/10394	QUICK COUPLING WITH IMPROVED VISIBILITY	2021/12/14
2021/10424	SATELLITE COMMUNICATION SYSTEM	2021/12/14
2021/10439	A CABLE MANAGEMENT SYSTEM AND ASSEMBLY	2021/12/14
2021/10444	CITRON POLYSACCHARIDE, EXTRACTION METHOD AND APPLICATION THEREOF	2021/12/15
2021/10570	IMPROVEMENTS IN AND RELATING TO FERTILISER COMPOSITIONS	2021/12/17
2021/10612	FLOW PATH MEMBER FOR GENERATING NANO-BUBBLES, AND INTEGRATED FLOW PATH UNIT AND NANO-BUBBLE GENERATOR USING SAME	2021/12/17
2021/10621	ELECTRIC ENERGY GENERATOR AND ELECTRIC ENERGY GENERATION METHOD	2021/12/20
2021/10680	ELECTRICALLY CONDUCTIVE NANOFIBRES FOR POLYMER MEMBRANE-BASED ELECTROLYSIS	2021/12/20
2021/10686	PHARMACEUTICAL COMPOSITION FOR TREATING TUMOR	2021/12/20
2021/10687	COATING COMPOSITION COMPRISING AN AUTOXIDIZABLE RESIN AND AN IRON-LIGAND COMPLEX, SUBSTRATE COATED WITH SUCH COATING COMPOSITION, AND USE OF SUCH IRON-LIGAND COMPLEX	2021/12/20
2021/10720	A PROCESS FOR PREPARING CHEMICALLY MODIFIED BICARBONATE SALT PARTICLES	2021/12/21

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2021/10732	PYRROLO [2, 3-B] PYRAZINES AS HPK1 INHIBITOR AND THE USE THEREOF	2021/12/21
2021/10760	PLANTING METHOD FOR IDENTIFYING COMBINING ABILITIES OF MAIZE DH LINES	2021/12/22
2021/10762	PROLONGED RELEASE TABLETS COMPRISING RANOLAZINE AND METHOD OF PREPARATION THEREOF	2021/12/22
2021/10803	A CONJUGATE OF A CYTOTOXIC AGENT TO A CELL BINDING MOLECULE WITH BRANCHED LINKERS	2021/12/22
2021/10875	AN ENCODER, A DECODER AND CORRESPONDING METHODS	2021/12/23
2021/10918	A water heater	2021/12/24
2022/00136	DEVICE AND METHOD FOR COLLECTING AROMATIC WATER OF FLOWERS THROUGH LOW-TEMPERATURE MICROWAVE HEATING CONDENSATION	2022/01/03
2022/00160	POLYMER PACKAGING AND USE THEREOF FOR PRESERVING A PHARMACEUTICAL COMPOSITION	2022/01/03
2022/00168	NEW SPECIES OF STENOTROPHOMONAS AND APPLICATION THEREOF	2022/01/03
2022/00222	TUBULAR COMPONENT OF PRESSURISED WATER NUCLEAR REACTOR, AND METHOD FOR MANUFACTURING SAID COMPONENT	2022/01/04
2022/00284	DETECTION OF GENOMIC SEQUENCES USING COMBINATIONS OF PROBES, PROBE MOLECULES AND ARRAYS COMPRISING THE PROBES FOR THE SPECIFIC DETECTION OF ORGANISMS	2022/01/05
2022/00286	ANCHOR FOR A SELF-CLIMBING STRUCTURE	2022/01/05
2022/00287	SEAT FOR A VEHICLE	2022/01/05
2022/00288	METHOD AND DEVICE FOR THE QUANTIFICATION OF RADIONUCLIDES IN LIQUID MEDIA	2022/01/05
2022/00317	ROCK DRILL SUPPORT	2022/01/06
2022/00326	SYNERGISTICALLY EFFECTIVE FUNGICIDE COMPOSITION COMPRISING CHOLINE PHOSPHONATE AND AT LEAST ONE ADDITIONAL FUNGICIDE	2022/01/06
2022/00389	DEVICE FOR COOLING A STEEL STRIP	2022/01/07
2022/00394	INTEGRATED SYSTEM FOR BIOCATALYTICALLY PRODUCING AND RECOVERING AN ORGANIC SUBSTANCE	2022/01/07

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2022/00408	AN IMPROVED CLOG-FREE CONDENSATION SYSTEM FOR PYROLYSIS VAPOUR OF PET CONTAINING POLYMER	2022/01/07
2022/00424	DATA VERIFICATION SYSTEM	2022/01/10
2022/00657	FLUID CATALYTIC CRACKING PROCESS AND APPARATUS FOR MAXIMIZING LIGHT OLEFIN YIELD AND OTHER APPLICATIONS	2022/01/13
2022/00668	PROTECTIVE DEVICE FOR THE NEEDLE TUBE OF A SYRINGE	2022/01/13
2022/00720	DEVICE FOR DETECTING OPTICAL PULSES	2022/01/14
2022/00731	COMBINATION THERAPY	2022/01/14
2022/00821	DECORATIVE PANEL AND METHOD OF PRODUCING SUCH A PANEL	2022/01/18
2022/00833	SYSTEM AND METHOD FOR HANDLING SEMI-FINISHED METAL PRODUCTS	2022/01/18
2022/00903	POWER GENERATOR	2022/01/19
2022/00940	COUPLING DEVICE FOR THE MODULAR CONSTRUCTION OF STRUCTURES OR OBJECTS	2022/01/20
2022/00956	IDENTIFYING LIQUID RHEOLOGICAL PROPERTIES FROM ACOUSTIC SIGNALS	2022/01/20
2022/01160	ANTI-GRP78 ANTIBODIES AND METHOD OF USE THEREOF	2022/01/25
2022/01239	AMINOTHIOLESTER COMPOUNDS AND USES THEREOF	2022/01/26
2022/01255	CEMENT PREMIXER, DEVICE FOR PRODUCING A CONCRETE MIXTURE AND METHOD FOR PRODUCING A CEMENT SUSPENSION	2022/01/26
2022/01353	TUBULAR SECTION FOR WIND TURBINE TOWER AND CONSTRUCTION METHOD FOR WIND TURBINE TOWER	2022/01/28
2022/01363	SYSTEM AND METHOD FOR ANALYSIS OF CURRENT AND VOLTAGE LEVELS WITHIN A CENTER PIVOT IRRIGATION SYSTEM	2022/01/28
2022/01366	INTRAMEDULLARY NAIL FOR DISTRACTING A LONG BONE	2022/01/28
2022/01375	MACROCYCLIC COMPOUNDS AS STING AGONISTS AND METHODS AND USES THEREOF	2022/01/28
2022/01376	PROCESS AND SYSTEM FOR DIAMOND CLARITY MEASUREMENT	2022/01/28
2022/01448	A BIOMARKER FOR ALZHEIMER'S DISEASE USING BLOOD SAMPLES FROM CLINICALLY DIAGNOSED	2022/02/01

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	ALZHEIMER'S DISEASE SUBJECTS	
2022/01449	VETERINARY COMPOSITIONS FOR THE PREVENTION AND/OR TREATMENT OF CRYPTOSPORIDIOSIS	2022/02/01
2022/01507	REMOVABLE PANEL ROOF FOR MODULAR, SELF-CONTAINED, MOBILE CLEAN ROOM	2022/02/02
2022/01529	INJECTABLE NUTRITIONAL SUPPLEMENT	2022/02/03
2022/01609	GERMICIDAL AIR DIFFUSER	2022/02/07
2022/01662	OBJECT MARKING, PRODUCTION AND AUTHENTICATION METHOD	2022/02/08
2022/01665	UNMANNED AERIAL VEHICLE VARIABLE RATE FERTILIZATION DEVICE AND METHOD	2022/02/08
2022/01799	COIN CLEANING MACHINE AND IMPLEMENTATION METHOD THEREFOR	2022/02/10
2022/01876	BIOMASS CARBON-BASED LIGHTWEIGHT ENVIRONMENTALLY FRIENDLY COMPOSITE MATERIAL	2022/02/14
2022/01995	BROAD BAND DIRECTIONAL ANTENNA	2022/02/16
2022/02172	MOVEABLE OVERFLOW	2022/02/21
2022/02184	DETERGENT-FREE DECELLULARIZED EXTRACELLULAR MATRIX PREPARATION METHOD AND BIOINKS FOR 3D PRINTING	2022/02/21
2022/02225	AN IOT BASED SMART ENTRANCE SYSTEMS AND A METHOD THEREOF	2022/02/22
2022/02294	INSTALLATION FOR THE STORAGE AND USE OF WATER-SOLUBLE POLYMERS	2022/02/23
2022/02334	TOWER STRUCTURE	2022/02/23
2022/02360	HYDRAULIC ROTARY-PERCUSSIVE HAMMER DRILL PROVIDED WITH A STOP PISTON	2022/02/24
2022/02362	KRAS G12D INHIBITORS	2022/02/24
2022/02418	UNDERGROUND CHAMBER ARRANGEMENT	2022/02/25
2022/02487	COMPOSITION TO ENHANCE NUTRIENT CONTENT IN PLANTS	2022/02/28
2022/02924	OIL-WATER SEPARATION APPARATUS AND OIL-WATER SEPARATION METHOD	2022/03/10
2022/02925	ENVIRONMENT-FRIENDLY FUNCTIONAL MEMBRANE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF	2022/03/10
2022/02961	ANALYSIS DEVICE FOR NETWORK BIG DATA	2022/03/11
2022/03101	FRUIT AND VEGETABLE ENZYME	2022/03/15

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	FERMENTATION EQUIPMENT CAPABLE OF MAINTAINING BIOLOGICAL ACTIVITY	
2022/03235	GREEN ASPARAGUS PRESERVATION METHOD	2022/03/18
2022/03239	FEED ADDITIVE FOR PROMOTING LIVESTOCK GROWTH AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF	2022/03/18
2022/03343	METHOD FOR SEPARATING XYLOSE AND LIGNIN FROM MIXED SUGAR SOLUTION	2022/03/22
2022/03375	GEOPHYSICAL EXPLORATION METHOD AND GEOPHYSICAL EXPLORATION SYSTEM FOR LITHIUM DEPOSITS IN SALT LAKES	2022/03/23
2022/03376	MICROBIAL PREPARATION FOR REDUCING CONTENT OF AFLATOXIN IN CORN SILAGE FODDER	2022/03/23
2022/03445	COMPOSITIONS FOR USE IN TREATING HYPOXIA INDUCIBLE FACTOR (HIF)-RELATED CONDITIONS	2022/03/24
2022/03759	A SOLAR WATER HEATING SYSTEM	2022/04/01
2022/03855	AN IOT BASED SWIRLING BATH SHOWER SYSTEM	2022/04/05
2022/03856	A CHRONIC CARE MANAGEMENT SYSTEM AND A METHOD THEREOF	2022/04/05
2022/03921	METHOD FOR PILE FOUNDATION CONSTRUCTION OF OFFSHORE PLATFORM	2022/04/06
2022/04127	A RAPID BOOK ACCESS DEVICE	2022/04/12
2022/04128	AN IOT BASED CONTACTLESS DOOR BUZZER AND HOME SECURITY SYSTEM AND A METHOD THEREOF	2022/04/12
2022/04581	AUTOMATIC FIRE ALARM DEVICE FOR UNDERGROUND PIPE GALLERY CABLE CABIN	2022/04/25
2022/04582	SAMPLING DEVICE FOR GEOLOGICAL INVESTIGATION	2022/04/25
2022/04662	SPIRAL DISPERSION DRYER FOR LED SHELL MATERIAL COLOR MASTER BATCH	2022/04/26
2022/04663	LED LAMP WITH AN ADJUSTABLE LUMINOUS RANGE	2022/04/26
2022/04843	MAP TILE PARTIAL UPDATE METHOD AND SYSTEM	2022/05/03
2022/04844	RATS AND ANTS PREVENTING MINERAL-INSULATED FIRE-PROOF CABLE AND PREPARATION METHOD THEREOF	2022/05/03
2022/04978	CD200R AGONIST ANTIBODIES AND USES THEREOF	2022/05/06

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2022/04979	VACCINE AGAINST INFECTIOUS BRONCHITIS	2022/05/06
2022/04980	VACCINE AGAINST INFECTIOUS BRONCHITIS	2022/05/06
2022/05085	PREPARATION METHOD AND APPLICATION OF LONG-ACTING NATURAL MULTIFUNCTIONAL ADDITIVE	2022/05/09
2022/05121	INTEGRATED MACHINE FOR FRAME HOISTING, FRAME LOADING AND RUBBER UNLOADING IN NATURAL RUBBER DRYING PRODUCTION LINE	2022/05/10
2022/05143	TRACKING DEVICE BRACKET FOR LIVE BROADCAST OF ONLINE CLASS	2022/05/10
2022/05180	PREPARATION METHOD OF DOUBLE-DOPED HOLLOW SPHERE MATERIAL AND APPLICATION THEREOF IN LITHIUM-SULFUR BATTERY	2022/05/11
2022/05181	EXPLORATION METHOD FOR MARINE SEDIMENTARY MANGANESE ORE	2022/05/11
2022/05203	A SYSTEM TO RECOGNIZE CAUTIONARY TRAFFIC SIGNS IN REAL-TIME USING AN OPTIMIZED ADAPTIVE BOOSTING CASCADE CLASSIFIER AND A METHOD THEREOF	2022/05/11
2022/05260	AEROGEL COMPOSITE THERMAL INSULATION MODULAR BUILDING UNIT	2022/05/12
2022/05264	MONTMORILLONITE RECYCLED CONCRETE AND PREPARATION METHOD THEREOF	2022/05/12
2022/05271	RELIABILITY INDICATOR DEVICE FOR DISK BRAKE IN MODERN VEHICLES	2022/05/12
2022/05314	LIDAR QUALITY CONTROL DEVICE	2022/05/13
2022/05323	COLLAGEN-BASED SPONGE FOR TRAUMA, PREPARATION METHOD THEREOF, USE THEREOF IN PREPARATION OF MEDICAMENT FOR REDUCING SCAR FORMATION IN SKIN REPAIR	2022/05/13
2022/05324	METHOD FOR PLANT EXTRACTION AND DETECTION	2022/05/13
2022/05325	SHAPE MEMORY ELASTIC COMPOSITE MATERIAL FOR FAN IMPELLERS, AND MANUFACTURING DEVICE THEREOF	2022/05/13
2022/05331	A SYSTEM AND A METHOD FOR REGULATING ADVERTISEMENT	2022/05/13
2022/05355	TESTER FOR MEASURING FRICTION COEFFICIENT	2022/05/16
2022/05356	OPTICAL PATH SYSTEM OF PARTICLE COUNTER SENSOR	2022/05/16

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2022/05357	MOISTURE-PROOFING AND DUST-PROOFING STORAGE DEVICE FOR BLUEPRINT	2022/05/16
2022/05358	MULTIFUNCTIONAL PP HONEYCOMB PANEL COAMING BOX ONLINE SYNCHRONOUS INDENTATION FRAME HYDRAULIC MACHINE	2022/05/16
2022/05359	AN EMBRYO TRANSFER MODEL AND TEACHING METHOD	2022/05/16
2022/05360	BIG DATA-BASED MONITORING METHOD AND MONITORING SYSTEM OF GRASSLAND DATA AND READABLE STORAGE MEDIUM	2022/05/16
2022/05361	ISOTHERMAL HEAT TREATMENT METHOD OF STEEL SHOVEL	2022/05/16
2022/05362	PP HONEYCOMB PANEL COAMING BOX ONLINE SYNCHRONOUS INDENTATION FRAME HYDRAULIC MACHINE	2022/05/16
2022/05363	METHOD FOR SUPPLEMENTING NUTRIENTS AFTER SOIL IS IRRIGATED WITH OZONE WATER	2022/05/16
2022/05364	PHARMACEUTICAL COMPOSITION FOR TREATING CHRONIC ALLERGIC RHINITIS AND PREPARATION METHOD THEREOF	2022/05/16
2022/05365	AN EDGE DETECTION METHOD BASED ON BINARY IMAGE PROCESSING	2022/05/16
2022/05366	A DECISION SUPPORT SYSTEM OF INTEGRATED URBAN PLANNING BASED ON INTELLIGENT URBAN PLANNING	2022/05/16
2022/05367	METHOD FOR FAST MAKING ULTRA-THIN SECTIONS OF MOSSES WITH NORMAL HEPTANE	2022/05/16
2022/05368	LOW-CARBON ROAD CONCRETE AND ITS PREPARATION METHOD USING COAL-TO-LIQUID SLAG, DESULFURIZED GYPSUM AND STEEL SLAG IN COOPERATION	2022/05/16
2022/05369	PREPARATION METHOD AND APPLICATION OF RADIONUCLIDE-LABELED SPECIFIC TARGETED THERANOSTIC AGENT	2022/05/16
2022/05370	PHOTOELECTRIC SWITCH BASED PARKING SYSTEM FOR SHARED PARKING GUIDANCE	2022/05/16
2022/05371	A DETACHABLE BALLOON DILATATION CATHETER	2022/05/16
2022/05372	FLOATING BED TYPE RICE-TURTLE SYMBIOTIC BREEDING SYSTEM AND BREEDING METHOD THEREOF	2022/05/16

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2022/05376	AUTOMATIC SEEDLING CLAMPING MECHANISM OF PLUG SEEDLING TRANSPLANTER	2022/05/16
2022/05420	COMPOSITIONS AND METHODS FOR DELIVERING CFTR POLYPEPTIDES	2022/05/17
2022/05492	METHOD FOR FILTERING A LIQUID, AND FILTER DEVICE	2022/05/18
2022/05517	PREPARATION METHOD AND APPLICATION OF CITRUS NUTRITION POT NURSERY SUBSTRATE	2022/05/19
2022/05518	METHOD FOR IMPROVING BREEDING EFFICIENCY OF SATSUMA ORANGE	2022/05/19
2022/05521	A WATERPROOF STRUCTURE FOR CIVIL ENGINEERING EXPANSION JOINTS	2022/05/19
2022/05523	EFFECT OF TGF-BETA ON THE EXPRESSION OF LINC01980	2022/05/19
2022/05524	HIGH-YIELD BREEDING METHOD OF PTEROPHYLLUM SCALARE	2022/05/19
2022/05525	METHOD OF PREPARING RECYCLED FOAMED CONCRETE FOR ENGINEERED MATERIALS ARRESTING SYSTEM	2022/05/19
2022/05526	FISH-DERIVED COLLAGEN PEPTIDE AND HAIR-CARE PRODUCTS AND APPLICATIONS THEREOF	2022/05/19
2022/05527	PREPARATION PROCESS OF SARGASSUM FUSIFORME OLIGOSACCHARIDE AND APPLICATION THEREOF IN CROP PLANTING	2022/05/19
2022/05528	METHOD FOR IMPROVING SWELLING-SHRINKAGE CHARACTERISTICS OF EXPANSIVE SOIL BY FLY ASH	2022/05/19
2022/05532	BUILDING SUPPORT FRAME	2022/05/19
2022/05533	PREDICTION, PREVENTION AND CONTROL SYSTEM FOR EPIDEMIC DISEASES	2022/05/19
2022/05542	PROTEIN SUSPENSION FROM BREWER'S GRAINS, METHOD AND APPARATUS FOR OBTAINING SAME	2022/05/19
2022/05556	FEED FOR IMPROVING SILURUS MERIDIONALIS' QUALITY AND IMMUNITY AND APPLICATION OF SAME	2022/05/20
2022/05557	A VERTICAL CONNECTED STRUCTURE OF MODULAR BUILDING UNIT	2022/05/20
2022/05558	SHEAR WALL STRUCTURE SYSTEM	2022/05/20
2022/05559	AIRBORNE AND GROUND LASER SCANNING REGISTRATION TARGET	2022/05/20

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	COMBINATION	
2022/05560	TRANSVERSE CONNECTION STRUCTURE OF MODULAR UNIT	2022/05/20
2022/05561	PREFABRICATED BUILDING SYSTEM	2022/05/20
2022/05564	IONIC POLYMER METAL NANO- COMPOSITE SENSOR WITH VIA MINIMIZING CRACKS IN ELECTRODE	2022/05/20
2022/05565	POLYMER KITCHEN AND BATHROOM BOARD AND PREPARATION METHOD THEREOF	2022/05/20
2022/05566	APPLICATION OF PD-L1 IN PREPARING DRUGS FOR TREATING PH	2022/05/20
2022/05567	HEDGE TRIMMER WITH ADJUSTABLE PRUNING SHAPE FOR SEEDLINGS	2022/05/20
2022/05568	IDENTIFICATION AND FUNCTION OF PBRGP1 FUNCTIONAL GENE IN PEAR	2022/05/20
2022/05569	PROCESSING METHOD FOR INCREASING WIDTH RATIO OF PHOTORESIST GRATING MASK	2022/05/20
2022/05570	SQUAT ACTION RECOGNITION METHOD	2022/05/20
2022/05571	DEVICE FOR DECOMPOSING WASTE CONCRETE BY HIGH VOLTAGE PULSED POWER	2022/05/20
2022/05572	HYDRAULIC DISINTEGRATION DEVICE AND DISINTEGRATION METHOD THEREOF FOR WASTE CONCRETE WITH HIGH REINFORCEMENT AMOUNT	2022/05/20
2022/05573	OPTIMIZATION OF ULTRASONIC- ASSISTED EXTRACTION PROCESS OF SOLIDAGO DECURRENS LOUR BY RESPONSE SURFACE METHODOLOGY	2022/05/20
2022/05574	PREPARATION METHOD AND APPLICATION OF THE CADMIUM COMPLEX WITH 5- ISONICOTINAMIDE PYRIDYL ISOTITANIC ACID	2022/05/20
2022/05575	FINGERTIP WEARABLE DUAL- CHANNEL INTERACTIVE DEVICE	2022/05/20
2022/05576	EMULSIFIED SQUALENE DISPERSION AND PREPARATION METHOD THEREOF, AND TOBACCO COATING LIQUID	2022/05/20
2022/05577	DEDICATED ORGANIC FERTILIZER FOR TOBACCO	2022/05/20
2022/05578	MULTIVESICULAR LIPOSOME CONTAINING A SQUALENE AND ASTAXANTHIN COMPOSITION, AND PREPARATION METHOD AND USE THEREOF IN THE REDUCTION OF FREE RADICAL AND HARM	2022/05/20
2022/05579	A RAPID DETECTION METHOD FOR	2022/05/20

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	BROAD-SPECTRUM IDENTIFICATION OF ARISTOLOCHIC ACID AND ITS APPLICATION	
2022/05580	METHOD FOR IMPROVING FRUIT SETTING RATE OF HYBRID FRUIT OF HYBRID CITRUS VARIETY HONGMEIREN	2022/05/20
2022/05581	A SPERM SELECTION DEVICE FOR INTRACYTOPLASMIC SPERM INJECTION AND METHOD	2022/05/20
2022/05585	RICE SEED DRESSING AGENT, AND PREPARATION METHOD THEREFOR AND USE THEREOF	2022/05/20
2022/05620	ANTI-BENDING CABLE TUBE	2022/05/23
2022/05621	TRANSMISSION-REFLECTION MODE SWITCHABLE SPIN-DECOUPLED METALENSES BASED ON GE2SE2SE4TE1	2022/05/23
2022/05622	A CHINESE TRADITIONAL MEDICINE COMPOSITION FOR TREATING LUMBAR DISC HERNIATION	2022/05/23
2022/05623	METHOD FOR FACILITATING IMPROVEMENT OF CARBON SINK FUNCTION OF "BLACK-SOIL BEACH" TYPE ARTIFICIAL GRASSLAND	2022/05/23
2022/05624	METHOD FOR MEASURING PLANT BLADE AREA	2022/05/23
2022/05625	ASSEMBLY-TYPE SHAPED CHARGE HYDRAULIC BLASTING DEVICE AND APPLICATION METHOD THEREOF	2022/05/23
2022/05626	MULTI-ANGLE ANATOMICAL IMAGE ACQUISITION DEVICE FOR LABORATORY	2022/05/23
2022/05627	A SIMULATION AND OPTIMIZATION METHOD FOR AIR-CONDITIONING PIPELINE SYSTEM	2022/05/23
2022/05628	USE OF NUPR1 INHIBITOR IN PREPARATION OF DRUGS FOR TREATING BLADDER CANCER	2022/05/23
2022/05629	METHOD FOR PREPARING LONG CIRCULATION LIPOSOME PREPARATION BY REPLACING CHOLESTEROL WITH STEROL	2022/05/23
2022/05630	ELECTRIC VEHICLE MOTOR CONTROLLER BASED ON INTERNET	2022/05/23
2022/05631	GEARBOX FOR TRAVELING AND IN-SITU STEERING	2022/05/23
2022/05632	POLYMORPHIC MOLECULAR MARKER BASED ON WHOLE GENOME SEQUENCING, PREPARATION METHOD AND APPLICATION THEREOF	2022/05/23
2022/05633	A METHOD FOR CRITICAL INCIDENT	2022/05/23

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	STRESS MANAGEMENT	
2022/05634	NON-FERMENTED SET-STYLE MILK WITH SWEET WINE FLAVOR AND ITS PRODUCTION METHOD	2022/05/23
2022/05635	AN EXTRACELLULAR VESICLE THERAPEUTIC VECTOR TARGETING THE CENTRAL NERVOUS SYSTEM AND ITS PREPARATION METHOD AND APPLICATION	2022/05/23
2022/05636	SMALL-SIZED SEPARATING AND GUIDING DEVICE FOR COLOLABIS SAIRA	2022/05/23
2022/05637	PORK MEATBALL CONTAINING ALFALFA MEAL AND ITS PREPARATION METHOD	2022/05/23
2022/05638	RPGAN IMAGE SUPER-RESOLUTION RECONSTRUCTION METHOD BASED ON GENERATIVE ADVERSARIAL NETWORK	2022/05/23
2022/05639	METHOD FOR GROWING MULBERRY WITH FIVE HARVESTS IN TWO YEARS IN INLAND ARID REGION OF XINJIANG	2022/05/23
2022/05640	METHOD FOR CONSTRUCTING WINDBREAK	2022/05/23
2022/05653	AUTOMATIC AIR EXHAUST AND DUST REMOVAL DEVICE FOR ELECTRONIC PRODUCTION	2022/05/23
2022/05656	MECHANICAL MAINTENANCE AUTOMATION PLATFORM EASY TO CARRY AND TRANSPORT	2022/05/23
2022/05657	STEEL BAR BENDING AUTOMATIC DEVICE HAVING HIGH WORKING EFFICIENCY	2022/05/23
2022/05707	ONLINE LEARNING METHOD AND SYSTEM BASED ON CONVOLUTIONAL NEURAL NETWORKS	2022/05/24
2022/05709	METHOD FOR PROMOTING KIDDING OF CASHMERE GOATS FOR THREE TIMES WITHIN TWO YEARS BY UTILIZING CHINESE HERBAL MEDICINE COMPOSITION	2022/05/24
2022/05710	CALLING DEVICE FOR LOGISTICS SUPPLY CHAIN MANAGEMENT	2022/05/24
2022/05711	LAYING DUCK VITAMIN PREMIX WITH LOW COST AND HIGH EGG LAYING PERFORMANCE AND APPLICATION THEREOF	2022/05/24
2022/05822	ULTRA-HIGH PRESSURE WATER JET REMOTE CONTROL SYSTEM AND METHOD	2022/05/26
2022/05824	WHOLE GRAIN SPROUT NUTRITIONAL POWDER AND PREPARATION	2022/05/26

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	METHOD THEREOF	
2022/05825	MULTIGRAIN INSTANT NOODLES AND PREPARATION METHOD THEREOF	2022/05/26
2022/05826	CUSTOMER VALUE EVALUATION METHOD AND SYSTEM FOR RURAL E-COMMERCE PLATFORM	2022/05/26
2022/05827	WUWEI QINGYANG MIXTURE AND ITS APPLICATION	2022/05/26
2022/05828	COMPOSITION FOR TREATING PNEUMONIA OR LUNG INJURY AND APPLICATION THEREOF	2022/05/26
2022/05831	METHOD FOR IMPROVING RADISH GERMPLASM CREATION EFFICIENCY	2022/05/26
2022/05839	HIGH-THROUGHOUT THRESHING AND CLEANING DEVICE FOR COMBINE HARVESTER	2022/05/26
2022/05877	FAULT DIAGNOSIS METHOD OF PLANETARY GEARBOX	2022/05/27
2022/05878	CULTURE MEDIUM AND CULTURE METHOD OF BLETILLA STRIATA	2022/05/27
2022/05879	PHOSPHOGYPSUM FILLED LIGHT COMPOSITE WALL WITH THIN-WALLED SQUARE STEEL TUBE SKELETON	2022/05/27
2022/05880	ANDROID BASED IOT ENABLED SMART MASK	2022/05/27
2022/05881	DENDROBIUM OFFICINALE SEEDLING SUBSTRATE AND SEEDLING RAISING METHOD THEREOF	2022/05/27
2022/05882	FIXED-FOCUS VIDEO MONITORING LENS	2022/05/27
2022/05883	STEEL SLAG AGGREGATE LOW-CARBON ROAD CONCRETE BY USING INDUSTRIAL BY-PRODUCT GYPSUM AND COAL FLY ASH AND PREPARATION METHOD THEREOF	2022/05/27
2022/05884	METHOD FOR PREDICTING UNFAVORABLE GEOLOGICAL BODIES IN FRONT OF TUNNEL FACES BASED ON MULTIVARIATE INFORMATION FUSION AND CONTINUOUS DYNAMIC TRACKING	2022/05/27
2022/05885	SUITABILITY ANALYSIS METHOD OF INDIVIDUAL TREE SEGMENTATION ALGORITHM	2022/05/27
2022/05886	INTELLIGENT DEFECT DETECTION METHOD OF POWER PATROL BASED ON DEEP LEARNING	2022/05/27
2022/05893	THE EFFECTIVE FLAME RETARDANT AND ITS SYNTHESIS METHOD	2022/05/27
2022/05902	METHOD FOR PREPARING SINGLE-CRYSTAL PYROPE UNDER HIGH-	2022/05/27

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	TEMPERATURE AND HIGH-PRESSURE CONDITION	
2022/05903	METHOD FOR PREPARING SINGLE-CRYSTAL SPESSARTINE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION	2022/05/27
2022/05904	METHOD FOR PREPARING SINGLE-CRYSTAL GROSSULAR UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION	2022/05/27
2022/05905	METHOD FOR PREPARING SINGLE-CRYSTAL WOLLASTONITE UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION	2022/05/27
2022/05906	METHOD FOR SYNTHESIZING HYDROUS PLAGIOCLASE SOLID SOLUTION UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION	2022/05/27
2022/05999	METHOD FOR PROCESSING IRRADIATION FORECAST, METHOD FOR TRAINING STACKED GENERALIZATION MODEL, AND APPARATUSES THEREOF	2022/05/30
2022/06000	METHOD AND APPARATUS FOR MODELING PHOTOVOLTAIC POWER CURVE, AND COMPUTER DEVICE AND STORAGE MEDIUM THEREOF	2022/05/30
2022/06029	DOA ESTIMATION METHOD BASED ON COVARIANCE EXTENDED PM ALGORITHM	2022/05/31
2022/06030	BETA-CAROTENE NANOEMULSION WITH HIGH INTERNAL PHASE, PREPARATION METHOD AND APPLICATION THEREOF	2022/05/31
2022/06031	PREPARATION METHOD OF FISH SKIN/SCALE COLLAGEN PEPTIDE	2022/05/31
2022/06032	DEVICE FOR MEETING REQUIREMENTS OF EXPLOSIVE CENTERING AND INTERVAL CHARGING IN BLAST HOLE AND APPLICATION METHOD THEREOF	2022/05/31
2022/06033	A LARGE-SCALE REPRODUCTION METHOD OF MEAT SHEEP WITH HIGH FECUNDITY	2022/05/31
2022/06034	TWO OLIGO DNA GROUPS WITH SITE-DIRECTED KNOCKOUT OF SGRNA OF RICE OSPLS4 GENE	2022/05/31
2022/06036	PREPARATION METHOD OF GDOX-CEOX MODIFIED SLUDGE-STRAW BIOCHAR CATALYST AND APPLICATION OF CATALYST IN FORMALDEHYDE REMOVAL	2022/05/31

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2022/06037	REVEGETATION METHOD FOR NON-IRRIGATED AFFORESTATION IN ARID DESERT AREA	2022/05/31
2022/06038	MINERAL ROOT DIPPING AGENT FOR TRANSPLANTING LARGE-MEDIUM-DIAMETER NURSERY STOCK FROM SAND EXCAVATION AND APPLICATION THEREOF	2022/05/31
2022/06039	A HIGHLY REGULARIZED Q-LEARNING REINFORCEMENT MODEL TO PREVENT DATA FORGERY	2022/05/31
2022/06040	AN IOT BASED FOOD QUANTITY AND INGREDIENT PREDICTING SYSTEM	2022/05/31
2022/06075	CNN BASED METHOD AND SYSTEM FORB REAL-TIME OBJECT DETECTION WITH FEATURE REUSE AND CSP NET TO REDUCE COMPUTATIONS	2022/06/01
2022/06077	AN AUXILLIUM RATCHET APPARATUS FOR WHEELCHAIR	2022/06/01
2022/06083	FLEXIBLE ROBOT FINGER DEVICE	2022/06/01
2022/06084	A LIVE STREAMING ALGORITHM AND APPLICATION METHOD FOR RURAL EMERGENCY BROADCASTING	2022/06/01
2022/06085	HIGH-POWER POWER SUPPLY WITH OVERCURRENT VOLTAGE REDUCTION	2022/06/01
2022/06086	METHOD FOR EXTRACTING FISH SCALE COLLAGEN PEPTIDE POWDER AND HYDROXYAPATITE	2022/06/01
2022/06087	ESTABLISHMENT METHOD OF OLIVE OIL IDENTIFICATION MODEL AND METHOD FOR IDENTIFYING OLIVE OIL	2022/06/01
2022/06088	MULTI-SECTION SIMULTANEOUSLY YIELDING METAL DAMPING DEVICE	2022/06/01
2022/06089	FIRE-PROOF SEPARATION WATER CURTAIN SYSTEM IN TRADITIONAL VILLAGES	2022/06/01
2022/06090	UNMANNED AIRBORNE FIRE EXTINGUISHING DEVICE FOR BOTH LAND AND AIR IN TRADITIONAL VILLAGES	2022/06/01
2022/06091	AMINO ACID SPRAYING METHOD FOR FIELD BUCKWHEAT	2022/06/01
2022/06092	HIGH-STABILITY ARTIFICIAL REEF	2022/06/01
2022/06093	MEDICAL WASTE TREATMENT SYSTEM IN GARBAGE TREATMENT PROCES	2022/06/01
2022/06094	METHOD FOR PREPARING ALUMINUM MATRIX COMPOSITES	2022/06/01
2022/06095	HUMAN ACTIVITY RECOGNITION METHOD BASED ON ACCELERATION DATA	2022/06/01

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2022/06096	APPLICATION OF COMPOUND ANESTHETIC AND ITS PREPARATION METHOD IN ANIMAL MODEL OF HEMORRHAGIC SHOCK	2022/06/01
2022/06097	STRAW COOLING EQUIPMENT	2022/06/01
2022/06098	STRUCTURE SYSTEM OF STEEL STRUCTURE BUILDING AND ITS INSTALLATION METHOD	2022/06/01
2022/06099	METHOD FOR REMEDIATION OF POLYCYCLIC AROMATIC HYDROCARBONS CONTAMINATED SOIL BY MICROBIAL BACTERIA COMBINED WITH HUMIC ACID	2022/06/01
2022/06100	SAFETY PROTECTION DEVICE FOR STEEL STRUCTURE CONSTRUCTION	2022/06/01
2022/06101	A PATCH NEAR-FIELD ACOUSTICAL HOLOGRAPHY METHOD BASED ON TWO-STAGE ITERATION	2022/06/01
2022/06120	METHOD AND APPARATUS FOR MANAGING IOT DEVICE, AND SERVER AND STORAGE MEDIUM THEREOF	2022/06/01
2022/06127	DEVICE AND METHOD FOR NEUTRALISING THE TRANSMISSION OF ELECTROMAGNETIC WAVES BY SHIELDING, BY MEANS OF A CONTAINER FOR THE HOLDING OF ELECTRICAL OR ELECTRONIC DEVICES WHICH ELECTROMAGNETICALLY PROTECTS THE SAME AND RENDERS THEM ELECTROMAGNETICALLY UNDETECTABLE	2022/06/01
2022/06133	WATERBORNE SUSTAINED-RELEASE RUST-CONVERSION ANTICORROSIVE PAINT	2022/05/31
2022/06142	ALPINE MARSH WETLAND SOIL AND ENVIRONMENT RESEARCH METHOD	2022/06/02
2022/06143	PROMOTER FOR SPECIFIC EXPRESSION OF GENE IN POULTRY SKELETAL MUSCLE AND APPLICATION THEREOF	2022/06/02
2022/06144	LOW-COST GRANULATION METHOD OF NANOCRYSTALLINE ULTRA-FINE SPHERICAL TUNGSTEN CARBIDE BASED COATING MATERIAL	2022/06/02
2022/06145	TWO-STAGE NUTATION REDUCER BASED ON MAGNETIC TRANSMISSION AND ITS WORKING METHOD	2022/06/02
2022/06146	METHOD FOR QUANTITATIVELY EVALUATING DROUGHT-HEAT WAVE COMPOUND EVENTS	2022/06/02
2022/06147	NITROGEN AND PHOSPHORUS DETECTION SYSTEM IN PADDY FIELD	2022/06/02

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2022/06148	TRAFFIC CONTROL DEVICE BASED ON VEHICLE-ROAD COORDINATION	2022/06/02
2022/06149	PREPARATION METHOD OF ANTIOXIDANT AND ANTI-INFLAMMATORY ACTIVE INGREDIENTS IN RADIX CYNANCHI BUNGEI FLOWER	2022/06/02
2022/06150	FOOD FOR TONIFYING YIN AND REGULATING CONSTITUTION AND DELAYING AGING AND PREPARATION METHOD THEREOF	2022/06/02
2022/06151	DETECTION METHOD AND DETECTOR FOR ACCURATELY SEARCHING SURFACE RADIATION POLLUTION POSITION	2022/06/02
2022/06152	FOOD FOR REDUCING LIPID, REDUCING BELLY SIZE, DEFAECATING, DETOXIFYING AND REGULATING QI AND BLOOD AND PREPARATION METHOD THEREOF	2022/06/02
2022/06153	DEGALACTOTIGONIN AND DERIVATIVES THEREOF WITH BROAD-SPECTRUM ANTITUMOR ACTIVITY	2022/06/02
2022/06154	AN INTEGRATED RURAL SEWAGE TREATMENT AND FILTRATION DEVICE	2022/06/02
2022/06155	STEEL BAR ENGINEERING WASTE RECYCLING DEVICE	2022/06/02
2022/06156	GAS DISTRIBUTION DEVICE FOR ELECTRIC TAR PRECIPITATOR	2022/06/02
2022/06158	INTERFACE INTEGRATION METHOD OF AGV JOB AUTOMATIC SCHEDULING SYSTEM AND MES SYSTEM	2022/06/02
2022/06168	APPLICATION OF 2-(3-SUBSTITUTED UREIDO)-N-HYDROXY-2-OXOACETIMIDE CYANIDE COMPOUND IN FLOTATION	2022/06/02
2022/06199	METHOD AND APPARATUS FOR TRANSMITTING DATA IN IOT SYSTEM, AND GATEWAY DEVICE AND STORAGE MEDIUM THEREOF	2022/06/03
2022/06289	DYNAMIC EVALUATION METHOD, DEVICE AND STORAGE MEDIUM FOR EARLY REHABILITATION OF CRITICALLY ILL PATIENTS	2022/06/07
2022/06290	GASTRIC ULCER MODEL WITH LIVER DEPRESSION AND SPLEEN DEFICIENCY SYNDROME AND CONSTRUCTION METHOD THEREOF	2022/06/07
2022/06291	METHOD FOR IDENTIFYING GENE LOCI RELATED TO DUCK MUSCLE DEVELOPMENT	2022/06/07
2022/06292	A METHOD FOR SEPARATING	2022/06/07

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	TOLUENE AND METHANOL SOLUTION BY EXTRACTIVE DISTILLATION USING O-XYLENE AND IONIC LIQUID AS EXTRACTANT	
2022/06293	DISEASE SELF-EXAMINATION SYSTEM AVAILABLE FOR CHINESE CIPHERTEXT AND MULTIPLE FUZZY KEYWORDS	2022/06/07
2022/06294	INTEGRATED TEST DEVICE FOR GAS EXTRACTION AND OUTBURST ELIMINATION IN OUTBURST COAL SEAM	2022/06/07
2022/06295	A VERIFIABLE ONE-ROUNDRIP STATIC SYMMETRIC SEARCHABLE ENCRYPTION SCHEME BASED ON DIFFIE-HELLMAN AND SMART CONTRACT	2022/06/07
2022/06296	PRIVACY PROTECTION METHOD AND SYSTEM FOR FINANCIAL DATA SHARING BASED ON FEDERATED LEARNING	2022/06/07
2022/06297	BLOCK CHAIN-BASED AGGREGATION METHOD FOR DATA PRIVACY PROTECTION UNDER SECONDARY NETWORK OF SMART GRID	2022/06/07
2022/06298	ASSISTED PLANNING AUDITING METHOD FOR UNDERGROUND PIPELINES BASED ON 3D GIS TECHNOLOGY	2022/06/07
2022/06299	A GEOLOGICAL LOGGING METHOD OF SMALL SECTION EXPLORATION ADIT BASED ON THREE-DIMENSIONAL LASER SCANNING	2022/06/07
2022/06300	A TARGET LAYOUT METHOD FOR MONITORING LANDSLIDE DISASTER BY THREE-DIMENSIONAL LASER SCANNER	2022/06/07
2022/06344	ELECTROKINETIC DIFFUSION-ELECTRIC HEATING COUPLING METHOD FOR REMEDIATION OF ORGANIC POLLUTED SOIL	2022/06/08
2022/06345	MICROBIAL TREATMENT AGENT FOR LIVESTOCK AND POULTRY EXCREMENT, PREPARATION METHOD THEREFOR AND USE THEREOF	2022/06/08
2022/06346	TISSUE CULTURE METHOD OF ONE-STEP SEEDLING FORMATION WITH LEAF PETIOLES OF PINELLIA TERNATA	2022/06/08
2022/06347	LEGUMINOUS SEED PELLETTED COATING	2022/06/08
2022/06348	FERTILIZER FOR PROMOTING DESERT VEGETATION RESTORATION	2022/06/08

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2022/06349	A FORMULA OF A HIGH-TEMPERATURE-RESISTANT WOOD-PLASTIC COMPOSITE MATERIAL FOR SAUNA ROOM AND A PREPARATION METHOD THEREOF	2022/06/08
2022/06350	SOIL AMENDMENT FOR IMPROVING SURVIVAL RATE OF DESERT VEGETATION AND PREPARATION METHOD THEREOF	2022/06/08
2022/06351	SINGLE-ARM ORGAN SUPPORTING AND FIXING INSTRUMENT FOR MINIMALLY INVASIVE ABDOMINAL SURGERY	2022/06/08
2022/06352	ASPHALT SPRAY ANTI-DRIP DEVICE FOR ASPHALT MIXING STATION	2022/06/08
2022/06353	ALONG-STRIKE SLICING DRIFT TWO-STEP STOPPING UPWARD FILLING MINING METHOD	2022/06/08
2022/06354	METHOD FOR PREPARING CERAMSITES FOR SURFACE WATER PURIFICATION BY UTILIZING LAKE SEDIMENTS	2022/06/08
2022/06355	INDUSTRIAL PRODUCT SURFACE DEFECT IDENTIFICATION METHOD AND DEVICE	2022/06/08
2022/06356	PRESCRIBED BURNING METHOD BASED ON FOREST FIRE RISK RANK REGIONALIZATION AND MULTI-DATA SPOT SELECTION	2022/06/08
2022/06357	III-TYPE HYDROGEN STORAGE BOTTLE SUITABLE FOR 70MPA GAS FILLING STATION AND PROCESSING METHOD THEREOF	2022/06/08
2022/06361	A COMPOSITION AND A METHOD FOR SYNTHESIS OF METHYL 4-(1H-BENZO[D] IMIDAZOL-2-YL) PHENYL CARBAMODITHIOATE AMINE DERIVATIVES	2022/06/08
2022/06362	A COMPOSITION AND A METHOD FOR SYNTHESIS OF LEVOFLOXACIN SCHIFF BASES	2022/06/08
2022/06363	A SYSTEM FOR PASSWORD-LESS MACHINE-TO-MACHINE AUTHENTICATION	2022/06/08
2022/06396	LABELING METHOD FOR IMPROVING SIGNAL INTENSITY OF TIME-RESOLVED FLUORESCENCE	2022/06/09
2022/06399	LABELING METHOD FOR IMPROVING SIGNAL INTENSITY OF TIME-RESOLVED FLUORESCENCE	2022/06/09
2022/06400	DRIED FISH FERMENTATION PROCESS AND STARTER CULTURE DEVELOPMENT TECHNOLOGY	2022/06/09

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2022/06401	EUGENOL TIME-RESOLVED FLUORESCENCE IMMUNOCHROMATOGRAPHIC TEST STRIP AND PREPARATION METHOD THEREOF	2022/06/09
2022/06413	A METHOD FOR CHANGING ROOTSTOCKS WITHOUT AFFECTING GRAPE HARVEST	2022/06/09
2022/06414	METHOD AND SYSTEM FOR CONTROLLING STABILITY OF MULTI-AGENT SYSTEM	2022/06/09
2022/06415	PEPPER LIFTING DEVICE AND METHOD THEREOF	2022/06/09
2022/06416	SEALABLE FIXED-POINT IN-SITU CORING DEVICE BASED ON MODERN SEDIMENT SHOAL SAMPLING	2022/06/09
2022/06420	A MEDICAL NURSING ASSISTANT	2022/06/09
2022/06432	INTEGRATED LITHIUM BATTERY	2022/06/09
2022/06463	METHOD AND DEVICE AND STORAGE MEDIUM FOR EXTRACTING THREE-DIMENSIONAL SPATIAL INFORMATION OF GEOLOGICAL PROFILE	2022/06/10
2022/06464	METHOD FOR CONSTRUCTING PEPPER MUTANT LIBRARY BY USING ETHYL METHYL SULFONATE	2022/06/10
2022/06467	PREPARATION METHOD OF 3-HALOGENATED INDOLE COMPOUNDS	2022/06/10
2022/06468	AUTOMATIC PIPE CUTTING DEVICE AND PIPE CUTTING METHOD	2022/06/10
2022/06486	METHOD AND APPARATUS FOR DETECTING FAULT, METHOD AND APPARATUS FOR TRAINING MODEL, AND DEVICE AND STORAGE MEDIUM	2022/06/10
2022/06487	METHOD AND APPARATUS FOR STORING DATA, AND COMPUTER DEVICE AND STORAGE MEDIUM THEREOF	2022/06/10
2022/06507	CHINESE MEDICINAL COMPOSITION, PREPARATION METHOD AND APPLICATION THEREOF	2022/06/13
2022/06511	STANDARD RUBBER SAMPLE FOR DETERMINATION OF 2-MERCAPTOBENZOTHAZOLE AND PREPARATION METHOD	2022/06/13
2022/06513	ELECTRICALLY HEATED TEA COZY	2022/06/13
2022/06518	AN INTEGRATED SYSTEM FOR PREDICTION OF FUTURE INJURIES BY DETECTION OF IMPROPER SITTING POSITION AND EXTENDED SCREEN TIME	2022/06/13
2022/06555	PREPARATION METHOD OF DOCETAXEL CHIRAL SIDE CHAIN	2022/06/14

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	INTERMEDIATE	
2022/06556	ACCURATE MEDICATED DIET PRODUCT FOR PREVENTING AND TREATING SENILE FUNCTIONAL CONSTIPATION AND PREPARATION METHOD THEREOF	2022/06/14
2022/06557	EFFICIENT PREPARATION METHOD OF CYCLOTIONELLAZOLE A CORE SKELETON AND ITS DERIVATIVES	2022/06/14
2022/06558	PRACTICAL UNDERWATER UNDISTURBED DREDGER	2022/06/14
2022/06559	METHOD TO IDENTIFY THE EROSIONAL HOTSPOTS OF TIDE-CONTROLLED ESTUARY BANK	2022/06/14
2022/06560	A TEACHING AND TRAINING MODEL OF ULTRASOUND-GUIDED TRANSVAGINAL OOCYTE RETRIEVAL	2022/06/14
2022/06561	OPTICAL FIBER MONITORING DATA PROCESSING METHOD FOR LOCAL DEFORMATION AND SETTLEMENT AT THE END OF SOFT BANK REVETMENT	2022/06/14
2022/06563	CHINESE MEDICINE COMPOSITION FOR TREATING HEART FAILURE AND PREPARATION METHOD THEREOF	2022/06/14
2022/06564	A METHOD FOR EXPLORATORY DATA ANALYSIS AND ENSEMBLE LEARNING BASED CLASSIFICATION OF UNSW-NB15 DATASET	2022/06/14
2022/06565	SMART PHEROMONE TRAP DEVICE AND AN INTELLIGENT FRAMEWORK FOR EARLY DETECTION OF FALL ARMY WORM	2022/06/14
2022/06566	RODENT PET FOOD FOR PREVENTING URINARY CALCULUS AND PREPARATION METHOD THEREOF	2022/06/14
2022/06567	TOBACCO FLOATING SEEDLING-CULTURE SUBSTRATE AND SEEDLING-CULTURE METHOD	2022/06/14
2022/06568	CAKE FERTILIZER HEAP-RETTING METHOD FOR TOBACCO PRODUCTION	2022/06/14
2022/06569	A PURULENT SUCTION DEVICE FOR NURSING IN INFECTION DEPARTMENT	2022/06/14
2022/06570	SYSTEM FOR IDENTIFYING RICE DISEASES BY USING LIGHTWEIGHT ATTENTION NETWORK	2022/06/14
2022/06571	LIDAR POINT CLOUD FILTERING METHOD BASED ON ITERATIVE MINIMUM VALUE	2022/06/14
2022/06572	AN AUTOMATIC CHARGING DEVICE FOR A UNMANNED AERIAL VEHICLE	2022/06/14
2022/06573	A LAND AND AIR AMPHIBIOUS	2022/06/14

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	UNMANNED AERIAL VEHICLE	
2022/06575	ARTIFICIAL INTELLIGENCE-BASED WATER SAMPLE COLLECTION DEVICE	2022/06/14
2022/06576	A COMPOSITION AND A METHOD FOR PREPARING HYDROALCOHOLIC EXTRACT FROM SEAGRASS AND ANALYSING ANTI-CANCER ACTIVITY	2022/06/14
2022/06578	A MAXIMUM POWER POINT TRACKING VRLA BATTERY CHARGER BASED ON MODIFIED PERTURB AND OBSERVE TECHNIQUE	2022/06/14
2022/06579	A LOAD BALANCING OPTIMIZATION SYSTEMS FOR GREEN CLOUD ENVIRONMENT AND A METHOD THEREOF	2022/06/14
2022/06580	A DEVICE FOR INTEGRATED TEMPORAL AND SPECTRAL PROCESSING OF SPEECH SIGNALS FOR HEARING IMPAIRED	2022/06/14
2022/06584	COAL TO ACETYLENE PLASMA REACTOR HAVING COKING INHIBITION AND ONLINE DECOKING FUNCTIONS	2022/06/14
2022/06665	ENGINEERING FORKLIFT MULTI-OBJECTIVE PERFORMANCE OPTIMIZATION METHOD BASED ON DEEP SURROGATE MODEL	2022/06/15
2022/06674	METHOD AND APPARATUS FOR ACQUIRING ENTERPRISE CREDIT DATA BASED ON EQUIPMENT DATA	2022/06/15
2022/06688	MODIFIED FLY ASH MATERIAL FOR IN-SITU ENDOGENOUS POLLUTION CONTROL OF WATER BODY, PREPARATION METHOD AND APPLICATION THEREOF	2022/06/17
2022/06696	A MAIN-AUXILIARY OPERATING ROOM ASTRAL LAMP	2022/06/17
2022/06697	A METHOD FOR DETERMINATION OF PENTACHLOROPHENOL RESIDUES IN PIG HAIR	2022/06/17
2022/06698	AN INTEGRATED CLEAN OPERATING ROOM ASTRAL LAMP	2022/06/17
2022/06699	A CLEAN OPERATING ROOM ASTRAL LAMP	2022/06/17
2022/06708	INTERNET OF THINGS AND LONG-RANGE PROTOCOL EMPOWERED SYSTEM FOR REAL-TIME MONITORING OF UNIVERSITY CAMPUS HOSTEL	2022/06/17
2022/06709	LORA INSPIRED WEARABLE DEVICE FOR REAL-TIME LOCATION TRACKING AND HEALTH STATUS OF MOUNTAINEERS DURING EMERGENCY	2022/06/17

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2022/06710	CLOUD SERVER AND MACHINE LEARNING BASED SYSTEM FOR SNORE MONITORING	2022/06/17
2022/06711	LORA AND INTERNET OF THINGS INSPIRED SYSTEM FOR FOOD REQUEST IN CITIES BY NEEDY PEOPLE	2022/06/17
2022/06719	MEDICAL EMERGENCY REQUEST SYSTEM BY THE FACULTY IN THE UNIVERSITY WITH INTERNET OF THINGS AND LONG-RANGE COMMUNICATION	2022/06/17
2022/06778	CONVENIENT UNLOADING BAKING OVEN FOR PROCESSING POULTRY PRODUCTS	2022/06/20
2022/06783	PREPARATION METHOD OF ABALONE VISCERA GLYCOPEPTIDE NANO-SELENIUM	2022/06/20
2022/06784	MULTIFUNCTIONAL MATERIAL TRANSPORT VEHICLE	2022/06/20
2022/06786	A CHINESE MEDICINE COMPOSITION FOR TREATING THYROID NODULES AND ITS PREPARATION AND PREPARATION METHOD	2022/06/20
2022/06794	IMPROVED COLD RECYCLING MECHANICAL EQUIPMENT AND CONSTRUCTION PROCESS METHOD	2022/06/20
2022/06795	WATER DISCHARGING DEVICE AND METHOD FOR AQUACULTURE POND	2022/06/20
2022/06797	ANTI-CRACKING BASALT FIBER CONCRETE AND PREPARATION METHOD THEREOF	2022/06/20
2022/06799	CONVEYOR BELT MATERIAL SORTING MACHINE	2022/06/20
2022/06802	METHOD FOR MANUFACTURING ULTRAVIOLET SENSOR BASED ON ZINC OXIDE NANOBELT	2022/06/20
2022/06808	WIRELESS PORTABLE MULTI-CHANNEL SYSTEM FOR COLLECTING ELECTROENCEPHALOGRAPH SIGNAL	2022/06/20
2022/06825	MENTAL FATIGUE INTERVENTION DEVICE AND METHOD	2022/06/20
2022/06873	LAYER-BY-LAYER STACKING FORMING METHOD FOR LOW-BOILING-POINT TWO-DIMENSIONAL MATERIALS	2022/06/21
2022/06874	PART PREPARATION METHOD BASED ON SYNCHRONOUS SPRAY ATOMIZATION AND DEPOSITION AS WELL AS DENSIFICATION	2022/06/21
2022/06917	ORGANIC AND HIGH-YIELD CONTAINER CULTIVATION METHOD	2022/06/22

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	OF BLUEBERRIES	
2022/06968	BACILLUS AMYLOLIQUEFACIENS STRAIN AND USE THEREOF IN CONTROL OF ROOT-KNOT NEMATODE OF TOMATO	2022/06/23
2022/06969	HYPERSPECTRAL DETECTION DEVICE FOR QUALITY OF MILK	2022/06/23
2022/06970	AUTOMATIC CUTTING MACHINE	2022/06/23
2022/06973	AN INTEGRATED REAL-TIME MONITORING SYSTEM FOR REMOVAL OF FOUL SMELL FROM WASTEWATER	2022/06/23
2022/06983	PORTABLE CORN ROASTING DEVICE	2022/06/23
2022/06984	NOVEL BIOWASTE FERTILIZER FOR GROWTH OF ORNAMENTAL PLANTS FOR WETLAND SYSTEM	2022/06/23
2022/06985	A NOVEL PHARMACEUTICAL FORMULATION OF ALPINIA GALANGA FOR SKIN INFECTIONS	2022/06/23
2022/06997	METHOD AND APPARATUS FOR STRING CONNECTING PHOTOVOLTAIC MODULES, DEVICE, AND STORAGE MEDIUM	2022/06/23
2022/07013	STANDBY POWER SUPPLY SYSTEM APPLIED TO COMPUTER AND USING METHOD THEREOF	2022/06/23
2022/07014	REAL-TIME MONITORING SYSTEM FOR INTERNAL TEMPERATURE OF COMPUTER	2022/06/23
2022/07015	DUSTPROOF CABINET AND USING METHOD THEREOF	2022/06/23
2022/07017	PORTABLE METAL HARDNESS DETECTOR	2022/06/24
2022/07018	POWER EFFICIENT ANT LION ALGORITHM BASED RESOURCE OPTIMIZATION FOR CLOUD INFRASTRUCTURE	2022/06/24
2022/07037	METHOD FOR PREPARING MOLECULARLY IMPRINTED POLYMER FOR REMOVING PERFLUOROOCTANOIC ACID IN WATER ENVIRONMENT	2022/06/24
2022/07038	ORTHOPEDIC REHABILITATION EXERCISE BRACKET	2022/06/24
2022/07076	METHOD FOR EXTRACTING INFECTIOUS BURSAL EGG YOLK ANTIBODIES	2022/06/27
2022/07077	APPLICATION OF OSGF14F PROTEIN IN REGULATING COLD RESISTANCE OF RICE	2022/06/27
2022/07078	CALCULATING METHOD FOR INTERREGIONAL ECO-COMPENSATION STANDARD OF AIR	2022/06/27

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	POLLUTION BASED ON CGE MODEL	
2022/07096	PROCESS FOR PREPARATION OF ALIPHATIC, AROMATIC CHELATED AMINO ACID SALTS FROM ONION TURPALE	2022/06/27
2022/07097	A COMPOSITION AND A METHOD FOR SYNTHESIS OF HERBAL EXTRACTS LOADED PHYTO-PHOSPHOLIPID COMPLEXES (PHYTOSOMES)	2022/06/27
2022/07135	ENEMATOR FOR GASTROENTEROLOGY	2022/06/28
2022/07136	A KIND OF WATER-SOLUBLE HELIUM RESOURCE EXPLORATION METHOD	2022/06/28
2022/07137	METHOD FOR MONITORING BEACH EROSION BASED ON ERODED SUBSTANCES	2022/06/28
2022/07138	REAL-TIME MONITORING DEVICE OF FIRE FIGHTING WATER SUPPLY PRESSURE FOR SMART CITIES	2022/06/28
2022/07139	FISH WEIGHT AND EXTERNAL DIMENSION AUTOMATIC MEASURING DEVICE AND MEASURING METHOD THEREOF	2022/06/28
2022/07140	MONITORING DEVICE FOR URBAN WATER SUPPLY PIPE NETWORK	2022/06/28
2022/07141	MEDIUM AND METHOD FOR TISSUE CULTURE OF ACER PSEUDO-SIEBOLDIANUM	2022/06/28
2022/07145	AN INTELLIGENT AR GLASSES DEVICE USING GEOMETRIC OPTICAL WAVEGUIDE TECHNOLOGY	2022/06/28
2022/07146	A WEARABLE NURSING OPERATION PROCESS MONITORING DEVICE	2022/06/28
2022/07147	A SMART AR GLASSES DEVICE THAT APPLIES EYE-TRACKING TECHNOLOGY FOR CROSS-BORDER E-COMMERCE OPERATIONS	2022/06/28
2022/07148	A KIND OF SMART AR GLASSES DEVICE THAT PROTECTS THE PRIVACY OF CROSS-BORDER E-COMMERCE DATA TRANSMISSION	2022/06/28
2022/07197	POMEGRANATE PAL, ITS EXPRESSION GENE AND APPLICATION	2022/06/29
2022/07265	HAWTHORN PULP FERMENTED BISCUITS WITH HIGH AMINO ACID CONTENT AND PREPARATION METHOD THEREOF	2022/06/30
2022/07288	A METHOD FOR PREPARING HERBAL PHYTONUTRIENT MOUTHRINSE AND ESTIMATING IT'S CLINICAL AND MICROBIOLOGICAL EFFICACY	2022/07/01
2022/07289	A METHOD FOR SYNTHESIZING ZINC	2022/07/01

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	OXIDE NANOTUBE	
2022/07300	GROUP TRANSPLANTING EQUIPMENT FOR FRUIT TREE SEEDLINGS	2022/07/01
2022/07301	METHOD FOR IDENTIFYING INSULATIVE BAFFLES DEFECTS BASED ON YOLOX_S ENHANCED TARGET FEATURE DETECTION	2022/07/01
2022/07302	AIR CURTAIN TYPE OIL STAIN PREVENTION AND OIL FUME EXHAUST MECHANISM	2022/07/01
2022/07305	A HIGH-THROUGHPUT AND RAPID SCREENING METHOD OF FISH SCALE PROTEIN GLUE TYROSINASE INHIBITORY PEPTIDE	2022/07/01
2022/07308	MONITORING DEVICE FOR ECOLOGICAL ENVIRONMENT TREATMENT	2022/07/01
2022/07309	METHOD FOR EVALUATING MONITORING CAPABILITY OF SHAFT-GROUND INTEGRATED MICROSEISMIC MONITORING SYSTEM	2022/07/01
2022/07310	METHOD FOR ASSESSING RECONSTRUCTION SEQUENCE OF WATER SUPPLY PIPELINES IN OLD URBAN AREAS	2022/07/01
2022/07311	METHOD FOR MEASURING PLASTIC ZONE AND CRITICAL SLIP SURFACE OF SLOPE IN HETEROGENEOUS SOIL LAYER	2022/07/01
2022/07312	METHOD FOR PREPARING LONG-LIFE ENVIRONMENT-FRIENDLY DRAINAGE ASPHALT PAVEMENT FROM OIL SHALE RESIDUE	2022/07/01
2022/07313	PREPARATION OF RECOMBINANT LACTOCOCCUS LACTIS ORAL VACCINE OF PEDV CAPABLE OF ENHANCING MUCOSAL IMMUNITY	2022/07/01
2022/07314	METHOD AND DEVICE FOR MEASURING DIAMETER OF METAL MICROWIRE	2022/07/01
2022/07315	MEASURING DEVICE AND TESTING METHOD FOR FRICTIONAL RESISTANCE OF SPHERICAL HINGE INTERFACE OF HORIZONTAL SWIVEL	2022/07/01
2022/07316	TRADITIONAL CHINESE MEDICINE FORMULA OF ZIZIPHUS JUJUBA VAR. SPINOSA (BUNGE) HU EX H.F.CHOW BLOOD-NOURISHING SOUP	2022/07/01
2022/07317	KIT FOR EARLY RAPID SCREENING OF ALZHEIMER'S DISEASE	2022/07/01
2022/07318	A CONFIGURATION METHOD FOR THE SELECTION OF SUITABLE	2022/07/01

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	INSTITUTIONS FOR PORTABLE MEDICAL EQUIPMENT IN COUNTY MEDICAL COMMUNITIES BASED ON GENETIC ALGORITHM	
2022/07319	H-CNC MULTI-ORIENTED COAXIAL ARTIFICIAL BLOOD VESSEL AND METHOD FOR PREPARING SAME	2022/07/01
2022/07352	A COMPOSITION AND A METHOD FOR SYNTHESIS OF 9- SUBSTITUTED PURINE ANALOGUES	2022/07/04
2022/07353	A COMPOSITION AND A METHOD FOR PREPARING NANOCRYSTALLINE POWDER	2022/07/04
2022/07354	PORTABLE FIELD INVESTIGATION QUADRAT FRAME	2022/07/04
2022/07369	A MODIFIED SCHEDULING SYSTEM FOR CLOUD COMPUTING ENVIRONMENT AND A METHOD THEREOF	2022/07/04
2022/07401	AN IOT BASED INCENTIVISED SMART TECH BIN	2022/07/05
2022/07406	CULTIVATION METHOD OF FRUIT MULBERRY	2022/07/05
2022/07407	A DEVICE AND A METHOD FOR MANUFACTURING A FUNCTIONALLY GRADED COMPOSITE MATERIAL	2022/07/05
2022/07454	MANUFACTURING OR ONSITE INSTALLATION OF COMPOSITIONS WITH METHODS, SYSTEMS TO ADDRESS ECOLOGICAL AND ECONOMICAL CONCERNS OF THE AQUACULTURE INDUSTRY	2022/07/05
2022/07456	LATE-STAGE AREA PREVENTION DEVICE FOR ARTIFICIALLY PROMOTING NATURAL REGENERATION OF PINUS SYLVESTRIS VAR. MONGHOLICA LITV. IN SANDY AREAS	2022/07/05
2022/07460	PREPARATION AND EVALUATION METHOD OF UNIFORM ANTI-CRACKING SELF-CURING MANUFACTURED SAND CONCRETE	2022/07/06
2022/07510	METHOD FOR EXTRACTING HIGH-QUALITY DNA FROM DIOSPYROS KAKI	2022/07/07
2022/07511	PORTABLE CLASSIFICATION AND COLLECTION APPARATUS FOR FOREST GERMPLASM RESOURCES	2022/07/07
2022/07512	A LOCKER AND METHOD OF ADVERTISING THEREON	2022/07/07
2022/07513	LIFT	2022/07/07
2022/07514	METHOD FOR AGGREGATING MAXIMUM/MINIMUM VALUE (MAX/MIN)	2022/07/07

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	OF PRIVACY PROTECTION FOR HEALTH DATA BASED ON HOMOMORPHIC ENCRYPTION	
2022/07516	SMALL MOLECULE IMBIBITION AGENT AND ITS PREPARATION METHOD AND APPLICATION	2022/07/07
2022/07517	ROOTSTOCK AND SCION COMBINATION FOR IMPROVING FRUIT QUALITY OF HYBRID CITRUS VARIETY HONGMEIREN	2022/07/07
2022/07518	INTELLIGENT NON-DISTURB SYSTEM	2022/07/07
2022/07519	COMPOUND ESSENCE OF FLAME VINE AND APPLICATION THEREOF IN THE TOOTHPASTE	2022/07/07
2022/07520	BAMBOO FIBER YARN	2022/07/07
2022/07521	PRODUCTION METHOD OF LIGHT BAMBOO FIBER PLASTIC BOARD	2022/07/07
2022/07528	ENVIRONMENT-FRIENDLY DUSTFALL REPRINT SYSTEM	2022/07/07
2022/07529	FUNCTIONAL FEED FOR PERINATAL SOWS AND PREPARATION METHOD THEREOF	2022/07/07
2022/07533	HIGH-ADAPTABILITY IDEOLOGICAL AND POLITICAL KNOWLEDGE PUBLICITY DEVICE FOR IDEOLOGICAL AND POLITICAL EDUCATION	2022/07/07
2022/07534	MULTI ANTIBIOTIC FORMULATION USED IN LIPOSOMAL GEL FOR VAGINAL DRUG DELIVERY	2022/07/07
2022/07549	SURGICAL FORCEPS	2022/07/07
2022/07610	IMPROVING SOCIO ECONOMIC CONDITIONS OF TRIBALS THROUGH FINANCIAL LITERACY BY USE OF INFORMATION TECHNOLOGY	2022/07/11
2022/07611	A NOVEL INCLUSIVE EDUCATIONAL MODEL FOR CHILDREN WITH DISABILITY AND SEVERE DISABILITY	2022/07/11
2022/07642	INTEGRATED LIPID COMBINED NUTRITIONAL SUPPLEMENT FOR SOWS AND PIGLETS AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF	2022/07/11
2022/07649	CHEMICAL FORMULATION FOR INCREASING PLATELETS COUNTS AND METHOD THEREOF	2022/07/11
2022/07701	AN AUTONOMOUS TUNGSTEN INERT GAS WELDING DEVICE	2022/07/12
2022/07705	AN ALARMING DEVICE TO DETECT BODY FEVER AND WEAKNESS IN REAL TIME	2022/07/12
2022/07708	HERBAL-BASED SUNSCREEN FORMULATION AND A METHOD OF	2022/07/12

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	PREPARATION THEREOF	
2022/07709	A COMPOSITION AND A METHOD FOR SYNTHESIZING CORTICOSTEROID LOADED HYBRID NANOPARTICLES	2022/07/12
2022/07750	ANTIBACTERIAL SUPER-WEAR-RESISTANT POLYURETHANE SURFACE COATING MATERIAL AND PREPARATION METHOD THEREOF	2022/07/13
2022/07751	BROADLEAF HOLLY LEAF FORMULATION WITH ANTI-GOUT EFFECT AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF	2022/07/13
2022/07783	A SYSTEM FOR EFFECTIVELY PREDICTING YIELD FROM PLANT LEAF IMAGERY	2022/07/13
2022/07785	CHEMICAL COMPOSITION AND METHOD TO PREPARE CHEMICAL COMPOSITION FOR REDUCING STATE OF GERIATRIC AND UNCONSCIOUSNESS	2022/07/13
2022/07822	A COMPOSITION AND A METHOD FOR SYNTHESIZING TOPICAL ETHOSOMAL GEL OF MELATONIN TO PREVENT ULTRAVIOLET RADIATION	2022/07/14
2022/07836	A NOVEL SUSTAINABLE CULTIVATION METHOD FOR AYURVEDIC HERB LEMONGRASS	2022/07/14
2022/07837	GROWING POPULARITY OF INDIAN REGIONAL OTT PLATFORMS	2022/07/14
2022/07838	EXPERIMENTAL TEST RIG FOR MEASURING THE TRANSMISSIBILITY RATIO OF TWO-WHEELER SHOCK ABSORBER	2022/07/14
2022/07879	A NOVEL SYSTEM FOR WIND-POWERED IOT BASED SUSTAINABLE ORGANIC COMPOST MACHINE	2022/07/15
2022/07880	SHORT OPTICAL PULSE GENERATION AND DETECTION SYSTEM	2022/07/15
2022/07881	A COMBINED TIDAL POWER AND OCEAN CURRENT BASED POWER GENERATION SYSTEM	2022/07/15
2022/07882	AN INTEGRATED SOLAR POWER DRIVEN ELECTRIC DEVICE FOR DRIVING AN E- VEHICLE	2022/07/15
2022/07883	A FUZZY-ASSISTED FOG-COMPUTING SYSTEM AND A METHOD THEREOF	2022/07/15
2022/07884	PROCESS OF PREPARATION OF ALIPHATIC, AROMATIC AMINO ACID SALTS FROM NON-VEGE WASTE	2022/07/15
2022/07931	COMPETITION VISUAL MODEL BASED ON INNER AND OUTER COMPETITION CIRCLES OF INFLUENCE	2022/07/15

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2022/07955	A DEVICE FOR DESIGNING VARIOUS DIRECTIONAL DRILLING WELL PROFILES AND A METHOD THEREOF	2022/07/18
2022/07960	AN ILLUMINATION SYSTEM BASED ON OPTIMUM DESIGN PARAMETERS AND A METHOD THEREOF	2022/07/18
2022/07963	SPAN-VARIABLE CABLE-MOUNTED CRANE	2022/07/18
2022/07998	COW CONCENTRATE SUPPLEMENT AND PREPARATION METHOD AND APPLICATION THEREOF	2022/07/19
2022/07999	METHOD FOR MAKING FRAXINUS MANDSHURICA SEEDLING MEDIUM BY USING WASTE AURICULARIA AURICULA FUNGUS MEDIUM	2022/07/19
2022/08024	FILTERING AND SEPARATING SYSTEM AND METHOD FOR RECYCLING FE ₃ O ₄ NANO-PARTICLES	2022/07/19
2022/08062	PREPARATION FOR THIOUREA FUNCTIONED CUPROUS OXIDE AND APPLICATION OF THIOUREA FUNCTIONED CUPROUS OXIDE FOR RECOVERING NOBLE METAL	2022/07/20
2022/08063	PREPARATION METHOD AND APPLICATION OF FUNCTIONAL MESOPOROUS SILICON-BASED MATERIAL FOR GOLD ION ADSORPTION	2022/07/20
2022/08079	METHOD AND APPARATUS FOR SKIN LESION DETECTION AND TREATMENT ASSISTANCE USING JEEVAN EDGE	2022/07/20
2022/08120	A METHOD FOR SEGMENTATION AND CLASSIFICATION OF BRAIN TUMOR CELLS	2022/07/21
2022/08187	A METHOD FOR ENHANCING EDUCATIONAL LEADERSHIP AND MANAGEMENT IN AN INTERNATIONAL SCHOOL CONTEXT	2022/07/22
2022/08188	UNLOCKING EMPLOYMENT OPPORTUNITIES IN TOURISM INDUSTRY AT HADOTI REGION WITH THE HELP OF TOURISM EDUCATION	2022/07/22
2022/08189	A SECURE SYSTEM AND METHOD FOR IMAGE STEGANOGRAPHY USING MACHINE LEARNING AND GENETIC ALGORITHM	2022/07/22
2022/08193	LIQUID AMMONIA PHASE-CHANGE COOLING TYPE HYBRID POWER THERMAL MANAGEMENT SYSTEM	2022/07/22
2022/08194	COMPOSITION FOR TREATMENT OF GOAT/SHEEP TRANSPORT STRESS SYNDROME AND USE THEREOF	2022/07/22
2022/08195	COMPOSITION FOR PREVENTING AND	2022/07/22

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	TREATING HYPERURICEMIA, AND PREPARATION METHOD AND APPLICATION THEREOF	
2022/08196	COMPOSITION FOR REDUCING BLOOD URIC ACIDS AND PREPARATION METHOD AND APPLICATION THEREOF	2022/07/22
2022/08197	IMAGE DATA PROCESSING METHOD AND SYSTEM IN PROCESS OF XIANG EMBROIDERY PLATE MAKING	2022/07/22
2022/08198	PLANT-DERIVED PROBIOTIC HEALTHY FRUIT AND VEGETABLE TEA AND PREPARATION METHOD THEREOF	2022/07/22
2022/08199	HIGH-PERFORMANCE GEOPOLYMER GROUTING MATERIAL AND PREPARATION METHOD THEREOF	2022/07/22
2022/08215	LARGE-CALIBER DOUBLE-WALL CORRUGATED PIPE HDPE COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF	2022/07/22
2022/08216	HIGH-PERFORMANCE HDPE/RED MUD/PHOSPHOGYPSUM COMPOSITE DRAIN PIPE AND PREPARATION METHOD AND APPLICATION THEREOF	2022/07/22
2022/08217	POLYOLEFIN/BASO4 COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF	2022/07/22
2022/08218	SODIUM SULFATE AND HDPE COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF	2022/07/22
2022/08219	BLADDER PRESSURE MEASURING INSTRUMENT	2022/07/22
2022/08254	PLANETARY REDUCER WITH HYDRAULIC BRAKE	2022/07/25
2022/08256	AN INTERNET OF THINGS METHOD FOR COMPLEX IMAGE LABEL RECOGNITION	2022/07/25
2022/08257	CIRCNA RELATED TO SHEEP FAT AND USE THEREOF	2022/07/25
2022/08258	AN INSTRUMENT DISINFECTION DEVICE DESIGNED FOR ANESTHESIOLOGY DEPARTMENT	2022/07/25
2022/08259	NOVEL LIGHTWEIGHT CONCRETE WITH PURIFICATION FUNCTION AND PREPARATION METHOD THEREOF	2022/07/25
2022/08260	METHOD FOR PREPARING BANANA STRAW NANOCELLULOSE BY HIGH-SPEED WATER JET	2022/07/25
2022/08261	ANTEROPOSTERIOR DISINFECT AND WASHING DEVICE FOR GENERAL	2022/07/25

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	SURGERY DEPARTMENT	
2022/08262	TEST DEVICE FOR EARLY CRACK RESISTANCE OF CONCRETE	2022/07/25
2022/08263	OPERATION HOOK DEVICE FOR HEPATOBILIARY SURGERY	2022/07/25
2022/08268	A KIND OF AUTOMATIC PRESSURE - SHARING SPRAY DUST - REDUCING DEVICE IN COAL MINE	2022/07/25
2022/08301	CYBER ATTACK PREVENTION SYSTEM FOR AUTOMOTIVE SYSTEM BASED ON ARTIFICIAL INTELLIGENCE	2022/07/26
2022/08302	SYSTEM AND METHOD TO DETECT TWITTER SPAM USING AN INTELLIGENT HYBRID CLASSIFIER APPROACH	2022/07/26
2022/08313	SYSTEM AND METHOD FOR GENERATING AND DISPLAYING PERSONALIZED TELEVISION CONTENT	2022/07/26
2022/08314	INNOVATION PRACTICES FOR SURVIVAL OF SMALL AND MEDIUM ENTERPRISES (SMES) IN THE COVID-19	2022/07/26
2022/08316	COAXIAL INJECTION NEEDLE TUBE FOR ELECTROSTATIC SPINNING	2022/07/26
2022/08317	BREEDING METHOD FOR HOLSTEIN BULLOCKS FOR PRODUCING MARBLING BEEF	2022/07/26
2022/08319	INTEGRATED MACHINE FOR CUTTING AND RETURNING CASSAVA STALKS TO FIELD	2022/07/26
2022/08355	MANUFACTURING DEVICE OF SILAGE FODDER SPECIAL FOR MEAT-TYPE DONKEYS AND PREPARATION METHOD THEREOF	2022/07/26
2022/08356	ARTIFICIAL INSEMINATION METHOD FOR IMPROVING CONCEPTION RATE OF FEMALE DONKEY	2022/07/26
2022/08358	SEEDLING SUPPORTING DEVICE FOR ARTIFICIALLY PROMOTING NATURAL REGENERATION OF PINUS SYLVESTRIS	2022/07/27
2022/08359	A MEDICINE STORAGE BOX	2022/07/27
2022/08391	EXPRESSION VECTOR BASED ON CHIMPANZEE CHAD63-TYPE ADENOVIRUS AND CONSTRUCTION METHOD THEREOF	2022/07/26
2022/08502	SELECTION METHOD FOR COMPATIBLE ROOTSTOCK SEEDS FOR SWEET PERSIMMON	2022/07/29
2022/08503	INTELLIGENT ENVIRONMENTAL CONTROL APPARATUS FOR GOOSE	2022/07/29

Application Number	Patent Title	Filing Date
	HOUSE AND APPLICATION METHOD THEREOF	
2022/08506	ECOLOGICAL VEGETATION RESTORATION-PLANTING INTEGRATED RESTORATION EQUIPMENT OF COAL MINING SUBSIDENCE AREA	2022/07/29
2022/08581	COMMUNICATION METHOD OF INTERFACE CONVERTER BASED ON KG510 RELAY STATION	2022/08/01
2022/08618	MEASUREMENT DEVICE AND MEASUREMENT SYSTEM FOR PERCUTANEOUS OXYGEN SATURATION, AND METHOD FOR USING MEASUREMENT SYSTEM	2022/08/02
2022/08620	PRODUCTION METHOD OF SELENIUM-RICH POTATO NOODLES	2022/08/02
2022/08621	PREPARATION METHOD OF GRAPHENE POLYESTER-NYLON BLENDED YARN	2022/08/02
2022/08715	PRIMERS, PROBE, KIT AND METHOD FOR QPCR DETECTION OF PHENACOCCLUS MANIHOTI	2022/08/04
2022/08793	APPLICATION OF IAA-PO1 GENE IN INDUCING FORMATION OF PRIMORDIUM OF OYSTER MUSHROOMS AND IN STRESS RESISTANCE OF GROWTH AND DEVELOPMENT OF OYSTER MUSHROOMS	2022/08/04
2022/08839	APPLICATION OF 3,4-DIHYDROXYACETOPHENONE DERIVATIVE IN PREPARATION OF LIPID-LOWERING DRUG	2022/08/08
2022/08965	PRIMERS, PROBE, KIT AND METHOD FOR QPCR DETECTION OF PHENACOCCLUS MADEIRENSIS	2022/08/11
2022/09156	METHOD FOR PRODUCING MIN PIG FEED BY FERMENTING HIGH-MOISTURE CORN	2022/08/16
2022/09309	ACTIVE PROBIOTIC FEED ADDITIVE	2022/08/19
2022/09310	METHOD FOR EXTRACTING AVIAN INFLUENZA EGG YOLK ANTIBODIES	2022/08/19
2022/09311	MASS SPECTROMETRY METHOD FOR DETERMINATION OF CHLORIDE STABLE IOSTOPES IN GROUNDWATER BASED ON GC INJECTION	2022/08/19
2022/09412	METHOD FOR PROMOTING RECOVERY OF PB-ZN MINERAL PLANTS BY ORGANIC-INORGANIC COMPOSITE CONDITIONER	2022/08/23
2022/09415	A NUMERICAL MODELING METHOD FOR INFILTRATION GALLERY OF	2022/08/23

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	RIVERBANK WATER SOURCES	
2022/09560	A CONTINUOUS MELT CENTRIFUGAL ELECTROSTATIC SPINNING PRODUCTION EQUIPMENT THAT CAN BE CONNECTED IN SERIES ALONG TWO DIRECTIONS	2022/08/26
2022/09610	A MAGNETIC INTERLOCKING DEVICE FOR FRACTURE REDUCTION AND FIXATION	2022/08/29
2022/09611	METHOD FOR PREPARING BROWN ALGAE EXTRACT, EXTRACT AND APPLICATION	2022/08/29
2022/09660	A DIRECT-DRIVE FAN VARIABLE PITCH SYSTEM ELECTROMAGNETIC BRAKE DRIVER	2022/08/30
2022/09815	CULTIVATING DEVICE FOR RAPID GROWTH OF FOREST SEEDLINGS	2022/09/02
2022/09838	SEPARATE QUALITY AND DISTRICT CSO REGULATION AND STORAGE PURIFICATION SYSTEM AND PURIFICATION METHOD	2022/09/02
2022/09839	DISPATCHING OPERATION METHOD, DEVICE AND COMPUTER EQUIPMENT FOR DEEP SEWAGE DRAINAGE TUNNEL	2022/09/02
2022/09881	AN EXOSOME-RICH HEMOFIBRIN-BASED GEL AND ITS PREPARATION METHOD	2022/09/05
2022/09959	A STEEL FOR HIGH-TEMPERATURE RESISTANT AND HOT EMBEDDED ALLOY TEETH BIT AND ITS HEAT TREATMENT TECHNOLOGY	2022/09/07
2022/09993	TRANSACTION PROCESSING METHOD, TRANSACTION PROCESSING SYSTEM, ELECTRONIC DEVICE AND STORAGE MEDIUM	2022/09/07
2022/10121	SAFETY MONITORING APPARATUS FOR INTERNET OF THINGS IN POWER SYSTEM	2022/09/12
2022/10155	ANTIFUNGAL (1, 3)-BETA-D-GLUCAN MONOCLONAL ANTIBODY, ENCODING GENE, EXPRESSION AND APPLICATION THEREFOR	2022/09/13
2022/10188	A FABRICATED MAKESHIFT ROAD AND ITS FABRICATION METHOD	2022/09/14
2022/10189	A HIGH PRECISION HEXAGONAL SPIRAL SILICON DRIFT DETECTOR	2022/09/14
2022/10190	A LASER DRILLING THREE-DIMENSIONAL SPHERICAL ELECTRODE DETECTOR, DESIGN METHOD AND APPLICATION THEREOF	2022/09/14
2022/10219	FILM PRODUCTION PROCESS	2022/09/14

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2022/10235	A THREE-DIMENSIONAL EPITAXIAL IMPLANTED HEXAGONAL ELECTRODE SILICON DETECTOR	2022/09/15

DESIGNS

Advertisement List for September 2022

Number of Advertised Designs: 159

Application Number	Design Articles	Filing Date
A2019/01473	Vehicle	2019/10/03
A2020/01016	GUTTER	2020/07/22
A2020/01599	FOLDABLE STEP/STOOL/TABLE	2020/12/10
A2021/00474	SNAP-LOCK CONSTRUCTION TOY BEAM UNIT	2021/05/04
A2021/00556	SCREEN PANEL FASTENER	2021/05/24
A2021/00561	Footwear	2021/05/24
A2021/00631	USER INTERFACES	2021/06/02
A2021/00632	USER INTERFACES	2021/06/02
A2021/00715	NOZZLES	2021/06/15
A2021/00768	Front Grille for an Automobile	2021/07/01
A2021/00792	TROLLEY HANDLE WITH INTEGRAL TAG HOLDER	2021/07/08
A2021/00940	Car	2021/08/06
A2021/01095	FOOTWEAR	2021/09/14
A2021/01107	Camouflage Surface Patterns	2021/09/20
A2021/01113	Garments	2021/09/20
A2021/01115	Camouflage Surface Patterns	2021/09/20
A2021/01123	Garments	2021/09/20
A2021/01127	PACKAGING	2021/09/21
A2021/01128	PACKAGING	2021/09/21
A2021/01205	A GRAPHICAL USER INTERFACE	2021/09/30
A2021/01206	A GRAPHICAL USER INTERFACE	2021/09/30
A2021/01207	A GRAPHICAL USER INTERFACE	2021/10/01
A2021/01219	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01221	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01222	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01223	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01224	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01226	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01227	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01228	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01229	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01230	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01231	A GRAPHICAL USER INTERFACE	2021/10/06

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A2021/01232	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01233	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01234	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01235	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01236	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01240	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01241	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01242	A GRAPHICAL USER INTERFACE	2021/10/06
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A2021/01245	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01246	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01247	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01248	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01249	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01250	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01251	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01252	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01253	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01254	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01255	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01256	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01257	A GRAPHICAL USER INTERFACE	2021/10/06
A2021/01266	A GRAPHICAL USER INTERFACE	2021/10/07
A2021/01267	A GRAPHICAL USER INTERFACE	2021/10/07
A2021/01269	A GRAPHICAL USER INTERFACE	2021/10/07
A2021/01270	A GRAPHICAL USER INTERFACE	2021/10/07
A2021/01271	A GRAPHICAL USER INTERFACE	2021/10/07
A2021/01280	A GRAPHICAL USER INTERFACE	2021/10/13
A2021/01281	A GRAPHICAL USER INTERFACE	2021/10/13
A2021/01282	A GRAPHICAL USER INTERFACE	2021/10/13
A2021/01283	A GRAPHICAL USER INTERFACE	2021/10/13
A2021/01284	A GRAPHICAL USER INTERFACE	2021/10/13
A2021/01285	A GRAPHICAL USER INTERFACE	2021/10/13
A2021/01286	A GRAPHICAL USER INTERFACE	2021/10/13
A2021/01287	A GRAPHICAL USER INTERFACE	2021/10/13
A2021/01320	Shoe Midsole	2021/10/26
A2021/01361	PACKAGING BOX	2021/11/03
A2021/01379	MOTOR VEHICLES	2021/11/05
A2021/01390	CUTTING TOOL HANDLING ASSEMBLY	2021/11/05
A2021/01416	Sneakers	2021/11/12
A2021/01417	Sneakers	2021/11/12
A2021/01418	Sneakers	2021/11/12
A2021/01420	Sneakers	2021/11/12
A2021/01421	Sneakers	2021/11/12
A2021/01422	GRAPHICAL USER INTERFACE	2021/11/15
A2021/01423	GRAPHICAL USER INTERFACE	2021/11/15
A2021/01424	GRAPHICAL USER INTERFACE	2021/11/15
A2021/01425	GRAPHICAL USER INTERFACE	2021/11/15

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A2021/01426	GRAPHICAL USER INTERFACE	2021/11/15
A2021/01427	GRAPHICAL USER INTERFACE	2021/11/15
A2021/01543	SANITARY NAPKIN	2021/12/20
A2021/01544	SANITARY NAPKIN	2021/12/20
A2021/01545	SANITARY NAPKIN	2021/12/20
A2021/01548	Foldably Constructed Reinforceable Pallet Bottom	2021/12/21
A2022/00001	Automobile	2022/01/03
A2022/00002	Automobile	2022/01/03
A2022/00003	APPLICATOR FOR IMPLANTABLE DRUG DELIVERY	2022/01/03
A2022/00004	APPLICATOR FOR IMPLANTABLE DRUG DELIVERY	2022/01/03
A2022/00011	VEHICLES	2022/01/05
A2022/00012	VEHICLES	2022/01/05
A2022/00013	VEHICLE BONNETS	2022/01/05
A2022/00014	DASHBOARDS FOR VEHICLES	2022/01/05
A2022/00015	CENTRAL CONSOLES FOR VEHICLES	2022/01/05
A2022/00016	STEERING WHEELS	2022/01/05
A2022/00021	GEAR FOR AN ELECTRICAL MOTOR	2022/01/06
A2022/00032	GENERATORS	2022/01/07
A2022/00040	Wheel	2022/01/13
A2022/00041	Wheel	2022/01/13
A2022/00042	Wheel	2022/01/13
A2022/00044	Wheel	2022/01/13
A2022/00046	AUTOMOBILES	2022/01/14
A2022/00075	BOTTLE	2022/01/26
A2022/00092	A WATER FILTER	2022/01/31
A2022/00094	A WATER FILTER	2022/01/31
A2022/00096	Support for a Test Device	2022/01/31
A2022/00097	Support for a Test Device	2022/01/31
A2022/00098	Mattress Cover	2022/01/31
A2022/00099	Mattress Cover	2022/01/31
A2022/00100	Support for a Test Device	2022/01/31
A2022/00101	Mattress Cover	2022/01/31
A2022/00102	Mattress Cover	2022/01/31
A2022/00103	Mattress Cover	2022/01/31
A2022/00104	Mattress Cover	2022/01/31
A2022/00105	Mattress Cover	2022/01/31
A2022/00106	Mattress Cover	2022/01/31
A2022/00107	Mattress Cover	2022/01/31
A2022/00131	INVERTER	2022/02/11
A2022/00133	INVERTER	2022/02/11
A2022/00135	INVERTER	2022/02/11
A2022/00137	INVERTER	2022/02/11
A2022/00139	BATTERY CHARGER	2022/02/11
A2022/00151	FRONT BUMPER	2022/02/14
A2022/00152	FRONT BUMPER	2022/02/14
A2022/00168	HAIR CLIPPER BLADESET	2022/02/15
A2022/00918	BUILD IT YOURSELF	2022/08/11

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	INTERLOCKING REUSABLE BRICK	
F2019/01426	Grid	2019/09/26
F2020/00416	CARBONATION MECHANISMS	2020/05/04
F2020/01030	DUVET COVERS	2020/07/28
F2020/01169	FASTENER LOAD INDICATOR	2020/08/31
F2021/00093	PANEL CLIP	2021/02/04
F2021/00250	PANELS AND FASTENING SYSTEMS	2021/03/10
F2021/00325	BEDSTEADS	2021/03/30
F2021/00434	A MINE PROP	2021/04/23
F2021/00956	HAIR FASTENER	2021/08/10
F2021/01108	Camouflage Surface Patterns	2021/09/20
F2021/01114	Garments	2021/09/20
F2021/01116	Camouflage Surface Patterns	2021/09/20
F2021/01124	Garments	2021/09/20
F2021/01391	CUTTING TOOL HANDLING ASSEMBLY	2021/11/05
F2021/01487	DIGGING TOOL	2021/11/29
F2021/01537	WOUND DRESSING	2021/12/17
F2022/00009	ANIMAL IDENTIFICATION TAG	2022/01/04
F2022/00010	ANIMAL IDENTIFICATION TAG	2022/01/04
F2022/00031	BODY-FLUID TREATMENT KITS	2022/01/07
F2022/00089	ANTENNA ASSEMBLY	2022/01/31
F2022/00093	A WATER FILTER	2022/01/31
F2022/00095	A WATER FILTER	2022/01/31
F2022/00108	FLUID FILTRATION DEVICE	2022/02/01
F2022/00118	LIQUID INTAKE	2022/02/04
F2022/00132	INVERTER	2022/02/11
F2022/00134	INVERTER	2022/02/11
F2022/00188	LIFTER	2022/02/23
F2022/00901	FEMALE CONDOM	2022/08/08
F2022/00902	FEMALE CONDOM	2022/08/08
F2022/00903	FEMALE CONDOM	2022/08/08