

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 2023/01/23 -

2023/00983 ~ Complete ~54:UNIT DOSE DRY POWDER INHALER ~71:Vectura Delivery Devices Limited, One Prospect West, Bumpers Way, CHIPPENHAM SN14 6FH, WILTSHIRE, UNITED KINGDOM, United Kingdom ~72: MELINIOTIS, Andreas~ 33:EP ~31:20192645.8 ~32:25/08/2020;33:EP ~31:21172658.3 ~32:07/05/2021

2023/00988 ~ Complete ~54:PLANT INJECTION APPARATUS AND METHOD ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BUCKLEY, Paul;SINCLAIR, Grant~ 33:NZ ~31:766513 ~32:28/07/2020

2023/00936 ~ Provisional ~54:B-SAFE ~71:Urban Praxis, H3 22 on Atholl, 116 Dennis Road, South Africa ~72: Constant Kenneth Wood, Richard Roy Wood, Roy Constant Wood, Ruth Wood~

2023/00939 ~ Complete ~54:PLASMA POWER SUPPLY WITH SURFACE COOLING STRUCTURE ~71:Lu 'an Yong Zhen Jiang Dao Electromechanical Technology Co., LTD, Room 504, Gate 3, Block C, Xiyangyang Industrial Park, Lu 'an Economic Development Zone, Lu 'an City, Anhui Province, People's Republic of China ~72: HaiYan Lu~

2023/00943 ~ Complete ~54:CIRCULATING COOLING TYPE PLASMA POWER SUPPLY ~71:Lu 'an Yong Zhen Jiang Dao Electromechanical Technology Co., LTD, Room 504, Gate 3, Block C, Xiyangyang Industrial Park, Lu 'an Economic Development Zone, Lu 'an City, Anhui Province, People's Republic of China ~72: HaiYan Lu~

2023/00947 ~ Complete ~54:CIRCULAR PATCH MICROSTRIP ANTENNA FOR MID BAND 5G APPLICATIONS ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: NITASHA BISHT;PRAVEEN KUMAR MALIK~ 33:IN ~31:202211008391 ~32:17/02/2022

2023/00952 ~ Complete ~54:A NOVEL TERMINALIA ARJUNA BASED SHRIKHAND AND PROCESS THEREOF ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Avinash, Harshal;Chopade, Sanket;Gunjal, Mahendra;Kaur, Sawinder;Mehta, Chandra Mohan;Rasane, Prasad;Singh, Jyoti;Vyas, Ashish~ 33:IN ~31:202211035103 ~32:20/06/2022

2023/00954 ~ Complete ~54:A METHOD OF VERTICAL TAKE OFF AND LANDING FOR NEW GENERATION ELECTRIC AIRCRAFTS ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Amit Kumar;Amit Kumar Thakur;Bilji C. Mathews;Mithilesh Kumar Dubey;Pratik Balasaheb Pansare;Sagar Chawla;Ujjal Kalita;Vijay Kumar Singh~

2023/00963 ~ Complete ~54:ARTHROPOD AND MOLLUSC ARRANGEMENT ~71:THE JVR TRUST, 65 Burswood Avenue, Australia ~72: Christiaan JANSEN VAN RENSBURG~

2023/00974 ~ Complete ~54:INHIBITORS OF ACID SPHINGOMYELINASE FOR PREVENTING AND TREATING THE COVID-19 DISEASE ~71:ASSISTANCE PUBLIQUE - HÔPITAUX DE PARIS, 3, avenue Victoria, 75004, Paris, France;UNIVERSITE PARIS CITÉ, 85 Boulevard Saint Germain, 75006 Paris 6, France ~72: ALEXANDER CARPINTEIRO;ERICH GULBINS;FRÉDÉRIC LIMOSIN;JOHANNES KORNHUBER;MARINA LUCIA SANCHEZ RICO;MIRIAM ABELLÁN;NICOLAS HOERTEL;PEDRO DE LA MUELA~ 33:EP ~31:20305698.1 ~32:24/06/2020;33:EP ~31:20306117.1 ~32:29/09/2020;33:US ~31:17/146,013 ~32:11/01/2021;33:EP ~31:21305188.1 ~32:12/02/2021

2023/00977 ~ Complete ~54:COUPLER KNUCKLE INTERNAL PIVOT PIN SUPPORT ~71:NEW YORK AIR BRAKE, LLC, 748 Starbuck Avenue, United States of America ~72: BERG, Thomas;O'ROURKE, Jerome~ 33:US ~31:63/049,731 ~32:09/07/2020

2023/00986 ~ Complete ~54:EXPANDABLE IMPLANT, IMPLANT SYSTEM, KIT OF PARTS FOR ASSEMBLING AN EXPANDABLE IMPLANT, AND METHOD OF PLACING AN IMPLANT IN A BONE ~71:AM Solutions Holding B.V., Prinses Margrietplantsoen 33, THE HAGUE 2595 AM, THE NETHERLANDS, Netherlands ~72: AARTS, Sanne;AHMADI, Seyed Mohammad;SAJADI, Banafsheh~ 33:NL ~31:2026145 ~32:27/07/2020

2023/00998 ~ Complete ~54:APPARATUS FOR MANUFACTURING A CONTAINER ~71:FRUGALPAC LIMITED, Frugal House, 30 Wharfedale Road, United Kingdom ~72: GOUGH, Peter;SLACK, Henry~ 33:GB ~31:2011685.1 ~32:28/07/2020

2023/00950 ~ Complete ~54:A FLEXIBLE CONNECTING DEVICE FOR TRACTORS ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Ashwani Kumar Yadav;GowkanapallePavan Kumar Reddy;Gurpreet Singh Phull;Harpinder Singh Sandhu~ 33:IN ~31:202211021737 ~32:12/04/2022

2023/00962 ~ Complete ~54:PANEL, COVERING, AND METHOD OF UNCOUPLING TWO INTERCONNECTED PANELS ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: BOUCKÉ, Eddy Alberic~ 33:NL ~31:2026188 ~32:31/07/2020;33:NL ~31:2026189 ~32:31/07/2020;33:NL ~31:2026559 ~32:28/09/2020

2023/00968 ~ Complete ~54:PIPERIDIN-1-YL-N-PYRIDIN-3-YL-2-OXOACETAMIDE DERIVATIVES USEFUL FOR THE TREATMENT OF MTAP-DEFICIENT AND/OR MTA-ACCUMULATING CANCERS ~71:TANGO THERAPEUTICS, INC., 201 Brookline Ave, Suite 901, Boston, Massachusetts, 02215, United States of America ~72: JOHN P MAXWELL;KEVIN M COTTRELL~ 33:US ~31:63/059,959 ~32:31/07/2020

2023/00973 ~ Complete ~54:THE USE OF VARIOVORAX MICROBES AS AN ALTERNATIVE TREATMENT FOR COCCIDIOSIS ~71:ZIVO BIOSCIENCE, INC., 21 East Long Lake Rd., Suite 100 Bloomfield Hills, Michigan, 48304, United States of America ~72: AMY E STEFFEK;ANDREW A DAHL;WILLIAM P PFUND~ 33:US ~31:63/064,706 ~32:12/08/2020;33:US ~31:17/400,790 ~32:12/08/2021

2023/00980 ~ Complete ~54:ANTIBODIES SPECIFICALLY RECOGNIZING C5A AND USES THEREOF ~71:Staidson (Beijing) Biopharmaceuticals Co., Ltd., No.36, Jinghai Er Road, Beijing Economic-Technological Development Area, BEIJING 100176, CHINA (P.R.C.), People's Republic of China ~72: LI, Zhong;ZHU, Pingxia~ 33:IB ~31:2020/098081 ~32:24/06/2020

2023/01002 ~ Provisional ~54:TISSUE TRANSFIGURATION IN VIVO BY HTGF- β 3 ~71:RAQUEL DUARTE, , South Africa;RIPAMONTI UGO, 7 YORK ROAD, PARKTOWN, GAUTENG, South Africa ~72: RAQUEL DUARTE;RIPAMONTI UGO~

2023/00938 ~ Complete ~54:EASY TO DISASSEMBLE AND CHECK THE PLASMA POWER CABINET ~71:Lu 'an Yong Zhen Jiang Dao Electromechanical Technology Co., LTD, Room 504, Gate 3, Block C, Xiyangyang

Industrial Park, Lu 'an Economic Development Zone, Lu 'an City, Anhui Province, People's Republic of China ~72: HaiYan Lu~

2023/00940 ~ Complete ~54:PLASMA POWER SUPPLY WITH AUXILIARY MOUNTING STRUCTURE ~71:Lu 'an Yong Zhen Jiang Dao Electromechanical Technology Co., LTD, Room 504, Gate 3, Block C, Xiyangyang Industrial Park, Lu 'an Economic Development Zone, Lu 'an City, Anhui Province, People's Republic of China ~72: HaiYan Lu~

2023/00946 ~ Complete ~54:A DEVICE FOR DYNAMIC AND EFFICIENT SPECTRUM UTILIZATION FOR 6G COMMUNICATIONS ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: AKHIL GUPTA;PREKSHA JAIN~ 33:IN ~31:202211003440 ~32:21/01/2022

2023/00955 ~ Complete ~54:VEHICLE PARKING ASSISTANCE SYSTEM AND METHOD THEREOF ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Amit Kumar Thakur;Irtiqa Amin;Lovi Raj Gupta;Mithilesh Kumar Dubey;Pooja rana~

2023/00960 ~ Complete ~54:A MONITORING SYSTEM ~71:BONEHILL, Marc, Ian, 14 RASMUS ERASMUS BOULEVARD, HERITAGE HILL ESTATE, LOUWLARDIA EXT 48, CENTURION, SOUTH AFRICA, South Africa;CASILLO, Andrea, Vincenzo, 49 SELMA AVENUE, NEWLANDS, PRETORIA, 0049, SOUTH AFRICA, South Africa;CASILLO, Fabio, Anastasio, UNIT 803, WHISTLING THORN, SERENGETI GOLF ESTATE, KEMPTON PARK, SOUTH AFRICA, South Africa;PIRES, Louis, Pedro, UNIT 3, THE OVAL, 274 WEST AVENUE, CENTURION, SOUTH AFRICA, South Africa ~72: BONEHILL, Marc, Ian;CASILLO, Andrea, Vincenzo;CASILLO, Fabio, Anastasio;PIRES, Louis, Pedro~ 33:ZA ~31:2020/04585 ~32:24/07/2020;33:ZA ~31:2020/07395 ~32:27/11/2020

2023/00966 ~ Complete ~54:GYRATORY CRUSHER, AND CONTROL SYSTEM FOR AND CONTROL METHOD OF CONTROLLING GYRATORY CRUSHER ~71:KABUSHIKI KAISHA EARTHTECHNICA, 2-4, Kandajinbo-cho, Chiyoda-ku, Tokyo, 1010051, Japan ~72: JUN KOBAYASHI;KENSUKE KIMOTO;TAKASHI KIJIMA;TAKAYUKI MASUDA;YOSHICHIKA SATO~ 33:JP ~31:2020-123709 ~32:20/07/2020

2023/00971 ~ Complete ~54:SURFACTANT AND DETERGENT COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID CHRISTOPHER THORLEY;DAVID STEPHEN GRAINGER;STEPHEN NORMAN BATCHELOR~ 33:EP ~31:20193390.0 ~32:28/08/2020

2023/00978 ~ Complete ~54:METHODS AND SYSTEMS FOR DIGITAL IMAGE-REFERENCED INDIRECT TARGET AIMING ~71:KWESST, INC., 155 Terence Matthews Crescent, Canada ~72: LEE, Jose Hyunju~ 33:US ~31:63/054,435 ~32:21/07/2020

2023/00991 ~ Complete ~54:FABRIC SOFTENING COMPOSITIONS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: HERNANDEZ, Marcela;LOPEZ, Carla;MALDONADO, Raul Arellano;SANCHEZ, Sandra Paola~ 33:US ~31:63/059,667 ~32:31/07/2020

2023/00996 ~ Complete ~54:CONJUGATE OF GALNAC AND SAPONIN, THERAPEUTIC COMPOSITION COMPRISING SAID CONJUGATE AND A GALNAC-OLIGONUCLEOTIDE CONJUGATE ~71:Sapreme Technologies B.V., Antonie van Leeuwenhoeklaan 9, Building A12-1, BILTHOVEN 3721 MA, THE NETHERLANDS, Netherlands ~72: HERMANS, Guy;POSTEL, Ruben~ 33:NL ~31:2025899 ~32:24/06/2020;33:NL ~31:2026442 ~32:10/09/2020

2023/00937 ~ Provisional ~54:MULTIPLE POSITION ROASTING GRILL ~71:Johannes Du Plessis, 3 Pari Way, Walmer, South Africa ~72: Johannes Du Plessis~

2023/00942 ~ Complete ~54:ANTI-CONTACT LEAKAGE TYPE PLASMA POWER SUPPLY ~71:Lu 'an Yong Zhen Jiang Dao Electromechanical Technology Co., LTD, Room 504, Gate 3, Block C, Xiyangyang Industrial Park, Lu 'an Economic Development Zone, Lu 'an City, Anhui Province, People's Republic of China ~72: HaiYan Lu~

2023/00944 ~ Complete ~54:STAGED INFORMATION EXCHANGE FACILITATED BY CONTENT-ADDRESSABLE RECORDS INDEXED TO PSEUDONYMOUS IDENTIFIERS BY A TAMPER-EVIDENT DATA STRUCTURE ~71:IMAGINEBC, 18310 Montgomery Village Ave., Suite 230, United States of America ~72: DORDEVIC, Nenad;RIND, Erik, H.;RIND, Greg;ROSEN, Michael;TENLY, Charles~ 33:US ~31:16/520,534 ~32:24/07/2019

2023/00948 ~ Complete ~54:A NOVEL DESIGN FOR SLANT BACK TAIL GENERTAION AIRCRAFT ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Amandeep Singh;Amit Kumar Thakur;JV MurugaLalJeyan;N.Karthick;S Ganesh~ 33:IN ~31:202211013218 ~32:11/03/2022

2023/00951 ~ Complete ~54:A MULTI-FUNCTIONAL WILD BOAR TRAP ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Ashish Thakur;Atul Khosla;Chander Prakash;Harjit Singh;Nelluri Shiva Sai;Somesh Negi;Swastik Pradhan~ 33:IN ~31:202211027331 ~32:12/05/2022

2023/00958 ~ Complete ~54:MODIFIED ENTROPY LEAST SQUARE CHANNEL ESTIMATION FOR 5G MULTI CARRIER SYSTEM ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: PRAVEEN KUMAR MALIK;SHAIK NILOFER~ 33:IN ~31:202211034501 ~32:16/06/2022

2023/00965 ~ Complete ~54:PANEL AND COVERING ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: BOUCKÉ, Eddy Alberic~ 33:NL ~31:2026188 ~32:31/07/2020;33:NL ~31:2026190 ~32:31/07/2020;33:NL ~31:2026559 ~32:28/09/2020;33:WO ~31:PCT/EP2021/070758 ~32:23/07/2021

2023/00970 ~ Complete ~54:COSMETIC MASK FOR IMPROVING APPEARANCE OF SKIN ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ADITI JAYAVANT KULKARNI;PRINCIKA WASKAR;SHENG MENG~ 33:CN ~31:PCT/CN2020/105518 ~32:29/07/2020;33:EP ~31:20193194.6 ~32:27/08/2020

2023/00976 ~ Complete ~54:PRE-VULCANIZED ANNULAR CROWN OF EXTRA-LARGE TIRE, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:BEIJING DUBELI TYRE CO.,LTD., Ersi Village, Zhangjiawan Town, People's Republic of China ~72: YAO, Tianlin;ZHU, Jian;ZHU, Shixing;ZHU, Xiaojun~ 33:CN ~31:202010748533.3 ~32:30/07/2020

2023/00992 ~ Complete ~54:POWER SUPPLY METHOD AND APPARATUS, NETWORK DEVICE, AND READABLE STORAGE MEDIUM ~71:ZTE Corporation, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, SHENZHEN 518057, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHENG, Jun;LI, Jianguo;LIU, Mingming;SHEN, Xing;SHI, Sichao;YE, Xin;ZHANG, Wei;ZHOU, Jianping~ 33:CN ~31:202010663233.5 ~32:10/07/2020

2023/00997 ~ Complete ~54:CONJUGATE OF A SINGLE DOMAIN ANTIBODY, A SAPONIN AND AN EFFECTOR MOLECULE, PHARMACEUTICAL COMPOSITION COMPRISING THE SAME, THERAPEUTIC USE OF SAID PHARMACEUTICAL COMPOSITION ~71:Sapreme Technologies B.V., Antonie van Leeuwenhoeklaan 9, Building A12-1, BILTHOVEN 3721, MA, THE NETHERLANDS, Netherlands ~72: FUCHS, Hendrik;HERMANS, Guy;POSTEL, Ruben~ 33:NL ~31:2025900 ~32:24/06/2020

2023/00941 ~ Complete ~54:ANTI-CLIMBING RISK CT POLARITY TEST METHOD ~71:Lu 'an Yong Zhen Jiang Dao Electromechanical Technology Co., LTD, Room 504, Gate 3, Block C, Xiyangyang Industrial Park, Lu 'an Economic Development Zone, Lu 'an City, Anhui Province, People's Republic of China ~72: HaiYan Lu~

2023/00945 ~ Complete ~54:A NOVEL ECO FRIENDLY METHOD OF MAKING COMPRESSED BOARD FROM AGRIWASTE AND SOLID WASTE ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, PUNJAB, India ~72: Dr Suman Maji;Pragati Sharma;Prahlad Yadav~

2023/00949 ~ Complete ~54:A COMPACT CPW MICROSTRIP PATCH ANTENNA FOR IOT APPLICATION ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: PRAVEEN KUMAR MALIK;RASHMI ROGES;SANDEEP SHARMA~ 33:IN ~31:202211021069 ~32:07/04/2022

2023/00953 ~ Complete ~54:METHOD FOR DEVELOPING CHICKPEAS WITH ENHANCED OMEGA-3 ALPHA-LINOLENIC ACID CONTENT ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: KOUL, Bhupendra;SHARMA, Komal~

2023/00956 ~ Complete ~54:IOT AND DEEP LEARNING BASED SMART RENEWABLE ENERGY SYSTEM ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: POOJA MALIK;PRAVEEN KUMAR MALIK~

2023/00961 ~ Complete ~54:CARBONDISULFIDE DERIVED ZWITTERIONS ~71:DALY, Thomas, 914 MITCHELL AVENUE, ARLINGTON HEIGHTS, IL 60005, USA, United States of America ~72: DALY, Thomas~ 33:US ~31:16/917,347 ~32:30/06/2020;33:US ~31:17/088,615 ~32:04/11/2020

2023/00967 ~ Complete ~54:GYRATORY CRUSHER, AND PREDICTIVE FAILURE DIAGNOSER FOR AND PREDICTIVE FAILURE DIAGNOSIS METHOD OF MAKING PREDICTIVE FAILURE DIAGNOSIS ON GYRATORY CRUSHER ~71:KABUSHIKI KAISHA EARTHTECHNICA, 2-4, Kandajinbo-cho, Chiyoda-ku, Tokyo, 1010051, Japan ~72: JUN KOBAYASHI;TAKASHI KIJIMA;TAKAYUKI MASUDA;YOSHICHIKA SATO~ 33:JP ~31:2020-123710 ~32:20/07/2020

2023/00972 ~ Complete ~54:PHASE-STABILIZED AMMONIUM NITRATE EXPLOSIVES ~71:DYNO NOBEL ASIA PACIFIC PTY LIMITED, Level 8 28 Freshwater Place, Southbank, Victoria, 3006, Australia ~72: BRIAN GRAHAM;JEFF GORE~ 33:AU ~31:2020902693 ~32:31/07/2020

2023/00979 ~ Complete ~54:APPARATUS FOR MANUFACTURING A CONTAINER ~71:FRUGALPAC LIMITED, Frugal House, 30 Wharfedale Road, United Kingdom ~72: GOUGH, Peter~ 33:GB ~31:2011683.6 ~32:28/07/2020

2023/00990 ~ Complete ~54:COMBINATION OF ANTIBODY-DRUG CONJUGATE AND ATR INHIBITOR ~71:AstraZeneca UK Limited, 1 Francis Crick Avenue, Cambridge Biomedical Campus, CAMBRIDGE CB2 0AA, UNITED KINGDOM, United Kingdom;Daiichi Sankyo Company, Limited, 3-5-1, Nihonbashi Honcho, Chuo-ku, TOKYO 103-8426, JAPAN, Japan ~72: ASTANEH, Azadeh Cheraghchi Bashi;DURANT, Stephen Thomas;LAU, Alan Yin Kai;METTETAL II, Jerome Thomas;WALLEZ, Yann~ 33:US ~31:63/043,498 ~32:24/06/2020

2023/00999 ~ Complete ~54:ANTIBODY SPECIFIC FOR MUCIN-1 AND METHODS OF USE THEREOF ~71:R.P. SCHERER TECHNOLOGIES, LLC, 112 North Curry Street, Carson City, United States of America ~72: BARFIELD, Robyn M.;BAUZON, Maxine;DRAKE, Penelope M.;KIM, Yun Cheol;OGUNKOYA, Ayodele;RABUKA, David~ 33:US ~31:63/059,497 ~32:31/07/2020

2023/00957 ~ Complete ~54:A NOVEL PROCESS FOR BATTERY RECYCLABILITY FOR USE IN SUPERCAPACITOR ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Dr. Kamaljeet Singh Samra;Prashant Kumar;Tanay Saha~ 33:IN ~31:202211032679 ~32:08/06/2022

2023/00959 ~ Complete ~54:PLANTAR ARCH STIMULATOR FOR FLAT AND PRONATED FOOT ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: POONAM CHATURVEDI;PRIYANKA RISHI~ 33:IN ~31:202211038164 ~32:01/07/2022

2023/00964 ~ Complete ~54:PANEL SUITABLE AS A FLOOR, CEILING OR WALL COVERING, AND COVERING FOR A FLOOR, CEILING OR WALL, WHICH IS CONSTITUTED BY A MULTITUDE OF SUCH PANELS ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: BOUCKÉ, Eddy Alberic~ 33:NL ~31:2026188 ~32:31/07/2020;33:NL ~31:2026189 ~32:31/07/2020;33:NL ~31:2026559 ~32:28/09/2020

2023/00969 ~ Complete ~54:BREWING SYSTEM, BIOREACTOR PROVIDED WITH SUCH A SYSTEM AND IMPLEMENTATION METHOD THEREOF ~71:JUA, CS 37777, 672 rue du Mas de Verchant, 34967, Montpellier Cedex 2, France ~72: JEAN-LUC SALLUSTRO~ 33:FR ~31:FR2007481 ~32:16/07/2020

2023/00975 ~ Complete ~54:PANEL AND COVERING ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: BOUCKÉ, Eddy Alberic~ 33:NL ~31:2026188 ~32:31/07/2020;33:NL ~31:2026191 ~32:31/07/2020;33:NL ~31:2026559 ~32:28/09/2020;33:WO ~31:PCT/EP2021/070758 ~32:23/07/2021

2023/00981 ~ Complete ~54:DATA MIGRATION METHOD AND APPARATUS, AND NETWORK DEVICE AND STORAGE MEDIUM ~71:ZTE Corporation, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, SHENZHEN 518057, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ZHANG, Qijun~ 33:CN ~31:202010602593.4 ~32:28/06/2020

2023/00985 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: HUGHES, Steve;NELSON, David Alan;STANIFORTH, Martyn~ 33:GB ~31:2011517.6 ~32:24/07/2020

2023/00989 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING SCN2A ~71:Ionis Pharmaceuticals, Inc., 2855 Gazelle Court, CARLSBAD 92010, CA, USA, United States of America ~72: BUI, Huynh-Hoa;FREIER, Susan M.;JAFAR-NEJAD, Paymaan;RIGO, Frank~ 33:US ~31:63/063,120 ~32:07/08/2020

2023/01000 ~ Complete ~54:BAG IN CONTAINER AND ADAPTER FOR CONNECTING A BAG IN CONTAINER TO A TAPPING DEVICE. ~71:HEINEKEN SUPPLY CHAIN B.V., Tweede Weteringplantsoen 21, Netherlands ~72: PAAUWE, Arie Maarten~ 33:NL ~31:2026268 ~32:14/08/2020

2023/01001 ~ Complete ~54:CLOSURES AND VESSELS WITH CLOSURES ~71:Veraseal Pty Limited, Suite 1, Level 10, 74 Castlereagh St., Sydney, New South Wales, 2000, Australia ~72: Mark Donald Goodall~ 33:US ~31:16/923,573 ~32:08/07/2020

2023/01060 ~ Provisional ~54:PROTECTIVE DEVICE DEPLOYING SYSTEM, STABILIZATION AND PROTECTIVE SYSTEMS, LOCKING SYSTEM, A GEAR, THERMAL SYSTEMS, DELIVERY SYSTEM AND SETTLEMENTS ~71:Mike Junior McKerson, 7 Quibeba, Arboretum, South Africa ~72: Mike Junior McKerson~

2023/01061 ~ Provisional ~54:SOLAR GENERATOR ~71:Joseph Hayes, 841 10th Ave Rio Village 4, South Africa ~72: Joseph Hayes Wisdom by GOD~ 33:ZA ~31:1 ~32:10/01/2023

2023/00993 ~ Complete ~54:HERBICIDE COMBINATIONS ~71:UPL Limited, UPL House, 610 B/2, Bandra Village Off western express highway, BANDRA EAST 400 051, MUMBAI, INDIA, India ~72: HELLER, Jean-

Jacques;POLLET, Jean-Philippe;REYER, William;SHROFF, Jaidev Rajnikant;SHROFF, Vikram Rajnikant~ 33:EP ~31:20305693.2 ~32:24/06/2020

2023/00995 ~ Complete ~54:LOMITAPIDE FOR USE IN METHODS OF TREATING HYPERLIPIDEMIA AND HYPERCHOLESTEROLEMIA IN PEDIATRIC PATIENTS ~71:Amryt Pharmaceuticals Inc., 160 Federal Street, 21st Floor, BOSTON 02110, MA, USA, United States of America ~72: CUNNINGHAM, Tracy;NALLEN, Ruth;SUMERAY, Mark~ 33:US ~31:63/058,211 ~32:29/07/2020

2023/00982 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: HUGHES, Steve;NELSON, David Alan;STANIFORTH, Martyn~ 33:GB ~31:2011509.3 ~32:24/07/2020

2023/00984 ~ Complete ~54:COSMETIC COMPOSITION COMPRISING CAPSULES ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland;lamFluidics Holding B.V., De Veldmaat 17, ENSCHEDE 7522 NM, THE NETHERLANDS, Netherlands ~72: DINANT, Céline;FLAMMER, Benedikt Christoph;KAMPERMAN, Tom;PARRAGA MENESES, Jenny Evelin;TAHAN LATIBARI, Sara~ 33:NL ~31:2026204 ~32:03/08/2020

2023/00987 ~ Complete ~54:AVOIDING OR MINIMIZING SIDE-EFFECTS RELATED TO CAR-T-CELL THERAPY ~71:AB2 Bio SA, EPFL Innovation Park, Building B, 4th Floor, LAUSANNE 1015, SWITZERLAND, Switzerland ~72: SCHIFFRIN, Eduardo;SOLDAN, Michael~ 33:EP ~31:20187684.4 ~32:24/07/2020

2023/00994 ~ Complete ~54:VACCINE COMBINATION AGAINST RESPIRATORY SYNCYTIAL VIRUS INFECTION ~71:Janssen Vaccines & Prevention B.V., Archimedesweg 4, LEIDEN 2333 CN, THE NETHERLANDS, Netherlands ~72: CALLENDRET, Benoit C.S.;COMEAX, Christy Ann;DE PAEPE, Els;HEIJNEN, Esther Mathilde Eugene Wilhelmus;ZAHN, Roland Christian~ 33:US ~31:62/705,463 ~32:29/06/2020;33:EP ~31:20187409.6 ~32:23/07/2020

- APPLIED ON 2023/01/24 -

2023/01030 ~ Complete ~54:WING CARGO PARACHUTE SYSTEM UTILIZING DYNAMIC BRAKING TO REDUCE OPENING SHOCK ~71:P.D. OF MIAMI, INC., 1300 East International Speedway Blvd., Suite 7, Deland, Florida, 32724, United States of America ~72: IGNATIUS KAPP;WILLIAM JOHN COE~ 33:US ~31:63/072,221 ~32:30/08/2020

2023/01034 ~ Complete ~54:PROCESS FOR THE PREPARATION OF PYRIDAZINONE DERIVATIVES ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BEAUDEGNIES, Renaud;DUMEUNIER, Raphael;SMEJKAL, Tomas~ 33:EP ~31:20191205.2 ~32:14/08/2020;33:EP ~31:21151742.0 ~32:15/01/2021

2023/01038 ~ Complete ~54:AGRICULTURAL FORMULATIONS HAVING IMPROVED COMPATIBILITY WITH LIQUID FERTILIZERS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: LEE, Jinsong;OSHIGE, Eric Stephen~ 33:EP ~31:20189590.1 ~32:05/08/2020

2023/01040 ~ Complete ~54:TRICYCLIC UREA COMPOUNDS AS JAK2 V617F INHIBITORS ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: AI, Yanran;ATASOYLU, Onur;BAI, Yu;BARBOSA, Joseph;BURNS, David M.;DOUTY, Brent;FENG, Hao;KONKOL, Leah C.;LAI, Cheng-Tsung;LEVY, Daniel;LIU, Xun;MEI, Song;PAN, Jun;WANG, Haisheng;WU, Liangxing;YAO, Wenqing;YUE, Eddy W.~ 33:US ~31:63/047,483 ~32:02/07/2020;33:US ~31:63/164,302 ~32:22/03/2021

2023/01043 ~ Complete ~54:COMBINATION OF A BCL-2 INHIBITOR AND A HYPOMETHYLATING AGENT FOR TREATING CANCERS, USES AND PHARMACEUTICAL COMPOSITIONS THEREOF ~71:Les Laboratoires Servier, 35 rue de Verdun, SURESNES CEDEX 92284, FRANCE, France;Novartis AG, Lichtstrasse 35, BASEL 4056, SWITZERLAND, Switzerland ~72: DESSEIN, Emmelyne;MAHNKE, Lisa~ 33:US ~31:63/059,419 ~32:31/07/2020;33:EP ~31:20195633.1 ~32:11/09/2020

2023/01049 ~ Complete ~54:AUTHENTICATION SYSTEM AND METHOD ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: DAVIES, Jack Owen;WRIGHT, Craig Steven~ 33:GB ~31:2015541.2 ~32:30/09/2020

2023/01056 ~ Complete ~54:CARVED OUT DRILL BIT ~71:Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: HAMMARGREN, John~ 33:EP ~31:20192805.8 ~32:26/08/2020

2023/01035 ~ Complete ~54:DUAL CAR-T CELLS ~71:Cellectis S.A., 8 Rue de la Croix Jarry, PARIS 75013, FRANCE, France ~72: ARANDA ORGILLES, Beatriz;CHOULIKA, André;DUCHATEAU, Philippe;POIROT, Laurent~ 33:DK ~31:PA202070509 ~32:31/07/2020

2023/01042 ~ Complete ~54:METHODS OF CONTROLLING OR PREVENTING INFESTATION OF PLANTS BY PLANT-PARASITIC NEMATODES OF THE GENUS APHELENCHOIDES SPP., ESPECIALLY APHELENCHOIDES BESSEYI ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BACHIEGA, Andre;RIBEIRO, Daniela~ 33:EP ~31:20191809.1 ~32:19/08/2020

2023/01046 ~ Complete ~54:BICYCLE CONJUGATES SPECIFIC FOR NECTIN-4 AND USES THEREOF ~71:BicycleTx Limited, Building 900, Babraham Research Campus, CAMBRIDGE CB22 3AT, UNITED KINGDOM, United Kingdom ~72: BLAKEMORE, Stephen J.;COHEN, Heather B.;GELB, Tara;SANTOS, Sean M.~ 33:US ~31:63/066,434 ~32:17/08/2020;33:US ~31:63/134,202 ~32:06/01/2021;33:US ~31:63/171,654 ~32:07/04/2021

2023/01047 ~ Complete ~54:PARTICLES AND METHODS OF ASSAYING ~71:Seer, Inc., 3800 Bridge Pkwy, Suite 102, REDWOOD CITY 94065, CA, USA, United States of America ~72: BLUME, John E.;FAROKHZAD, Omid C.;FIGA, Michael;GOLDBERG, Martin;HARRIS, Damian;HORNBERG, Daniel;MA, Philip;PLATT, Theodore;ROSHDIFERDOSI, Shadi;SIDDIQUI, Asim;STOLARCZYK, Craig;ZHAO, Xiaoyan~ 33:US ~31:63/054,089 ~32:20/07/2020;33:US ~31:63/193,535 ~32:26/05/2021

2023/01052 ~ Complete ~54:PROCESSES FOR PREPARING C2 TO C3 HYDROCARBONS ~71:Dow Global Technologies LLC, 2211 H.H. Dow Way, MIDLAND 48674, MI, USA, United States of America ~72: CHOJECKI, Adam;DEWILDE, Joseph F.;KIRILIN, Alexey;MALEK, Andrzej;MILLAR, Dean M.;NIESKENS, Davy L.S.;POLLEFEYT, Glenn~ 33:US ~31:63/045,888 ~32:30/06/2020

2023/01031 ~ Complete ~54:BINDING AGENT FOR CELLULOSE-CONTAINING MATERIALS AND A PRODUCT CONTAINING IT ~71:SESTEC POLSKA SP. Z O.O., ul. prof. Michała Życzkowskiego 16, Poland ~72: EDELMANN, Hans-Joachim;KOWALSKA, Paula;PYTLIK, Andrzej;SIERANC, Anna~ 33:PL ~31:P.434762 ~32:22/07/2020

2023/01033 ~ Complete ~54:CCR8 ANTIBODIES FOR THERAPEUTIC APPLICATIONS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BERNDT, Sandra;BERTLING, Christian;BUCHMANN, Pascale;ELLINGER, Philipp;FILARSKY, Katharina;GORJANACZ, Matyas;GRITZAN, Uwe;HOFF, Sabine;JONES, Patrick;NADLER, Wiebke Maria;OH, Phaik Lyn;PAWLOWSKI, Nikolaus;PAZ, Pedro;ROIDER, Helge;STELTE-LUDWIG, Beatrix;TRAUTWEIN, Mark;TSENG, Su-Yi;VON

AHSEN, Oliver;VOTSMEIER, Christian;WEBER, Ernst~ 33:US ~31:62/705,434 ~32:26/06/2020;33:US
~31:62/705,608 ~32:07/07/2020;33:EP ~31:20205426.8 ~32:03/11/2020

2023/01036 ~ Complete ~54:RNA REPLICON VACCINES AGAINST HBV ~71:Janssen Sciences Ireland
Unlimited Company, Barnahely, RINGASKIDDY, CO CORK, IRELAND, Ireland ~72: ALIAHMAD, Parinaz;DAVIS,
Heather Lynn;DEHART, Jason L.;MAINE, Christian;PACE, Craig;WANG, Nathaniel Stephen~ 33:US
~31:63/049,400 ~32:08/07/2020;33:US ~31:63/144,051 ~32:01/02/2021

2023/01041 ~ Complete ~54:METHODS FOR IMPROVING THE COMPATIBILITY OF CROP PROTECTION
FORMULATIONS AND TANK MIX APPLICATIONS WITH LIQUID FERTILIZERS ~71:Syngenta Crop Protection
AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: LEE, Jinsong;OSHIGE, Eric Stephen~
33:EP ~31:20189591.9 ~32:05/08/2020

2023/01051 ~ Complete ~54:CONTROL OF AN AMMONIA SYNTHESIS LOOP AT PARTIAL LOAD ~71:Casale
SA, Via Pocobelli 6, LUGANO 6900, SWITZERLAND, Switzerland ~72: RIZZI, Maurizio~ 33:EP ~31:20204831.0
~32:30/10/2020

2023/01055 ~ Complete ~54:METHOD OF MAKING LYOPHILIZED PROTEIN FORMULATIONS ~71:Amgen
Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72:
CHRISTIAN, Twinkle R.;JAGANNATHAN, Bharadwaj;MCAULEY, Arnold;TREUHEIT, Michael J.~ 33:US
~31:63/077,908 ~32:14/09/2020

2023/01007 ~ Complete ~54:A REBATE TRACKING SYSTEM ~71:AFONSO, Clinton, 164 5TH AVENUE,
DISCOVERY, ROODEPOORT, 1709, SOUTH AFRICA, South Africa ~72: AFONSO, Clinton~ 33:ZA
~31:2021/10698 ~32:21/12/2021

2023/01012 ~ Complete ~54:METHOD FOR IMPROVING SUCCESS RATE OF PLANTING FORAGE GRASS IN
EROSION GULLY IN BLACK SOIL REGION ~71:Prataculture Research Institute of Heilongjiang Academy of
Agricultural Sciences, No. 368, Xuefu Road, Nangang District, Harbin City, Heilongjiang Province, 150086,
People's Republic of China ~72: KANG, Xintong;KONG, Xiaolei;LIU, Jielin;WANG, Xueshan;ZHANG, Qiang~
33:CN ~31:202210102962.2 ~32:27/01/2022

2023/01013 ~ Complete ~54:APPARATUS FOR PREDICTING STRUCTURAL INTEGRITY OF WOODEN
FURNITURE ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA,
India ~72: Kotharu Shanmukh Kiran;Lovi Raj Gupta;Mandeep Singh;Ruhul Amin Choudhury~

2023/01016 ~ Complete ~54:INTERNET OF THINGS BASED SOLAR POWER GENERATION SYSTEM AND
METHOD THEREOF ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD,
PHAGWARA, India ~72: Lovi Raj Gupta;Mandeep Singh;Ruhul Amin Chaudhary~

2023/01003 ~ Provisional ~54:B-SAFE ~71:Urban Praxis, H3 22 on Atholl, 116 Dennis Road, South Africa ~72:
Constant Kenneth Wood, Richard Roy Wood, Roy Constant Wood, Marilyn Ruth Wood~

2023/01011 ~ Complete ~54:INTERNET OF THINGS (IOT) BASED HUMIDIFIER ~71:LOVELY PROFESSIONAL
UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Dr. Atul Kumar Singla;Mandeep
Singh;Ruhul Amin Choudhury;Tara Singla~

2023/01014 ~ Complete ~54:GLARE ELIMINATION SYSTEM AND METHOD THEREOF ~71:LOVELY
PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Kotharu Shanmukh
Kiran;Mandeep Singh;Rohit Vij;Ruhul Amin Choudhury;Sorabh Lakhanpal~

2023/01017 ~ Complete ~54:A NOVEL ECO-FRIENDLY FORMULATION FOR CONTROLLING DENGUE VECTOR ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Dr. Neeta Raj Sharma;Dr. Runjhun Tandon;Shweta Kaushik;Thekkevilayi George Thomas~ 33:IN ~31:202211043004 ~32:27/07/2022

2023/01023 ~ Complete ~54:SUBSURFACE DRIP IRRIGATION (SDI) LINES ENHANCED WITH ESSENTIAL OILS ~71:METZERPLAS COOPERATIVE AGRICULTURAL ORGANIZATION LTD., Kibbutz Metzger, Israel ~72: BALBOUL, Tal;DOTAN, Ana;OPHIR, Amir~ 33:IL ~31:275753 ~32:30/06/2020

2023/01006 ~ Complete ~54:A NOVEL DEVICE FOR FROZEN SHOULDER ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Dr. Poonam Chaturvedi;Dr. Priyanka Rishi~ 33:IN ~31:202211043862 ~32:01/08/2022

2023/01009 ~ Complete ~54:DOSING REGIMEN FOR TREATMENT OF COGNITIVE AND MOTOR IMPAIRMENTS WITH BLOOD PLASMA AND BLOOD PLASMA PRODUCTS ~71:ALKAHEST, INC., 75 Shoreway Road, Suite D, United States of America ~72: BRAITHWAITE, Steven P.;CZIRR, Eva;GALLAGER, Ian;HUBER, Nina;MINAMI, S. Sakura~ 33:US ~31:62/490,519 ~32:26/04/2017;33:US ~31:62/584,571 ~32:10/11/2017;33:US ~31:62/623,468 ~32:29/01/2018;33:US ~31:62/641,194 ~32:09/03/2018

2023/01019 ~ Complete ~54:CONVEYOR BELT SCRAPER SYSTEM WITH SIMPLE MAINTENANCE ~71:KILL-FRECH, Cornelia, TILBECK 23, 48329 HAVIXBECK, GERMANY, Germany ~72: KIEL, Martin;WEIMANN, Claus~ 33:DE ~31:10 2020 131 557.0 ~32:27/11/2020;33:DE ~31:10 2020 131 558.9 ~32:27/11/2020

2023/01024 ~ Complete ~54:APPARATUS, METHOD AND COMPUTER PROGRAM FOR ENCODING AN AUDIO SIGNAL OR FOR DECODING AN ENCODED AUDIO SCENE ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: DÖHLA, Stefan;EICHENSEER, Andrea;FUCHS, Guillaume;KORSE, Srikanth;MULTRUS, Markus;TAMARAPU, Archit~ 33:EP ~31:20188707.2 ~32:30/07/2020

2023/01027 ~ Complete ~54:METHODS AND COMPOSITIONS FOR STIMULATING GAMMA DELTA T CELLS ~71:UNIVERSITY OF CENTRAL FLORIDA RESEARCH FOUNDATION, INC., 12201 Research Parkway Suite 501, Orlando, Florida, 32826, United States of America ~72: ALICJA COPIK;GRIFFITH PARKS;JEREMIAH OYER;THOMAS DIEFFENTHALLER~ 33:US ~31:63/064,832 ~32:12/08/2020

2023/01037 ~ Complete ~54:PROCESS FOR THE PREPARATION OF QUATERNIZED PYRIDAZINE DERIVATIVES ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: DUMEUNIER, Raphael;GRIBKOV, Denis;SMEJKAL, Tomas~ 33:EP ~31:20191203.7 ~32:14/08/2020;33:EP ~31:21151744.6 ~32:15/01/2021

2023/01050 ~ Complete ~54:ANTIPLATELET DRUGS AND USES THEREOF ~71:Shanghai Curegene Pharmaceutical Co., Ltd., South of 4th Floor, Building B, No. 1976 Middle Gaoke Road, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: GU, Zi-Qiang;HE, Gongxin;HOU, Kai;WU, Hao;ZHANG, Yuanchao~ 33:IB ~31:2020/105513 ~32:29/07/2020

2023/01057 ~ Complete ~54:N'-(2-CHLORO-6-METHYLBENZOYL)-4-METHYL-3-[2-(3-QUINOLYL) ETHYNYL]-BENZOHYDRAZIDE FOR TREATMENT OF ALZHEIMER'S DISEASE ~71:SUN PHARMA ADVANCED RESEARCH COMPANY LIMITED, 17B, Mahal Industrial Estate, Mahakali Caves Road, India ~72: DAMLE, Nitin Krishnaji;JAIN, Shakti Kamalchand;MANDHANE, Sanjay Nandlalhi;RAMANATHAN, Vikram Krishna;SONI, Durgesh Ashokkumar~ 33:IN ~31:202021032951 ~32:31/07/2020

2023/01005 ~ Provisional ~54:HARMONIC MITIGATION SYSTEM ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2023/01010 ~ Complete ~54:DOSING REGIMEN FOR TREATMENT OF COGNITIVE AND MOTOR IMPAIRMENTS WITH BLOOD PLASMA AND BLOOD PLASMA PRODUCTS ~71:ALKAHEST, INC., 75 Shoreway Road, Suite D, United States of America ~72: BRAITHWAITE, Steven P.;CZIRR, Eva;GALLAGER, Ian;HUBER, Nina;MINAMI, S. Sakura~ 33:US ~31:62/490,519 ~32:26/04/2017;33:US ~31:62/584,571 ~32:10/11/2017;33:US ~31:62/623,468 ~32:29/01/2018;33:US ~31:62/641,194 ~32:09/03/2018

2023/01020 ~ Complete ~54:SCRAPER WITH AN EASILY REPLACEABLE SCRAPER ELEMENT ~71:KILL-FRECH, Cornelia, TILBECK 23, 48329 HAVIXBECK, GERMANY, Germany ~72: HEIDHUES, Dirk;KIEL, Martin;WEIMANN, Claus~ 33:DE ~31:10 2020 131 557.0 ~32:27/11/2020;33:DE ~31:10 2020 131 558.9 ~32:27/11/2020

2023/01022 ~ Complete ~54:FRAGRANCE RELEASE MECHANISM, METHOD AND USES THEREOF ~71:UNIVERSIDADE DO MINHO, LARGO DO PAÇO, 4704-553 BRAGA, PORTUGAL, Portugal ~72: ARAÚJO MAGALHÃES RIBEIRO, Artur, Jorge;CAVACO PAULO, Artur, Manuel;GOMES GONÇALVES, Filipa, Daniela;PEREIRA MARINHO DA SILVA, Carla Manuela~ 33:PT ~31:116561 ~32:03/07/2020;33:EP ~31:20206292.3 ~32:06/11/2020

2023/01025 ~ Complete ~54:CATHETER ARRANGEMENT INCLUDING A VALVE ELEMENT ELASTICALLY DEFORMABLE BY FLUID PRESSURE ~71:B. BRAUN MELSUNGEN AG, Carl-Braun Strasse, Germany ~72: GOH TEE LIANG, Jeremy;KLAAS, Stefan;PALA SANDARAM, Kavintharan;SCHNEIDER, Uwe Erik;SOON, Wei Jin;TAN, Aik Aun;TEOH, Hui Kuun~ 33:DE ~31:102020209931.6 ~32:06/08/2020

2023/01028 ~ Complete ~54:PROCESSES FOR PREPARING MODULATORS OF ALPHA-1 ANTITRYPSIN ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ADAM LOOKER;CAVAN MCKEON BLIGH;CRISTIAN HARRISON;ROBERT DANIEL GIACOMETTI;STEFANIE ROEPER;STEPHEN W LAWS~ 33:US ~31:63/056,958 ~32:27/07/2020;33:US ~31:63/079,735 ~32:17/09/2020;33:US ~31:63/080,877 ~32:21/09/2020;33:US ~31:63/114,739 ~32:17/11/2020

2023/01029 ~ Complete ~54:COMPOSITIONS FOR THE DELIVERY OF PAYLOAD MOLECULES TO AIRWAY EPITHELIUM ~71:MODERNATX, INC., 200 Technology Square, Cambridge, Massachusetts, 02139, United States of America ~72: ANA CADETE PIRES;JEAN C SUNG;JEFFREY HRKACH;MARK CORNEBISE~ 33:US ~31:63/062,367 ~32:06/08/2020

2023/01032 ~ Complete ~54:ANTI CCR8 ANTIBODY THERAPY: BIOMARKERS & COMBINATION THERAPIES ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BERNDT, Sandra;BERTLING, Christian;BUCHMANN, Pascale;ELLINGER, Philipp;FILARSKY, Katharina;GORJANACZ, Matyas;GRITZAN, Uwe;HOFF, Sabine;JONES, Patrick;NADLER, Wiebke Maria;OH, Phaik Lyn;PAWLOWSKI, Nikolaus;PAZ, Pedro;ROIDER, Helge;STELTE-LUDWIG, Beatrix;TRAUTWEIN, Mark;TSENG, Su-Yi;VON AHSEN, Oliver;VOTSMEIER, Christian;WEBER, Ernst~ 33:US ~31:62/705,434 ~32:26/06/2020;33:US ~31:62/705,608 ~32:07/07/2020;33:EP ~31:20205426.8 ~32:03/11/2020

2023/01044 ~ Complete ~54:NEGATIVE PRESSURE MEDICAL DEVICE ~71:MEDICUD S.r.l., Via Bruno Buozzi 47, ROME 00197, ITALY, Italy ~72: CAZZULANI, Andrea;D'ANGELO, Antonio Nunzio~ 33:IT ~31:102020000019474 ~32:06/08/2020

2023/01053 ~ Complete ~54:PROCESSES FOR PREPARING C2 TO C3 HYDROCARBONS IN THE PRESENCE OF A HYBRID CATALYST ~71:Dow Global Technologies LLC, 2211 H.H. Dow Way, MIDLAND

48674, MI, USA, United States of America ~72: CHOJECKI, Adam;DEWILDE, Joseph F.;KIRILIN, Alexey;MALEK, Andrzej;MILLAR, Dean M.;NIESKENS, Davy L.S.;POLLEFEYT, Glenn~ 33:US ~31:63/045,893 ~32:30/06/2020

2023/01058 ~ Complete ~54:DEVICE FOR CHILLING OR FROSTING GLASSES ~71:REUSSNER, Michael, Georg Grinningerstraße 89, 4050, Austria ~72: REUSSNER, Michael~ 33:AT ~31:A 50648/2020 ~32:30/07/2020;33:AT ~31:A 60041/2021 ~32:12/02/2021;33:AT ~31:A 60124/2021 ~32:29/04/2021;33:AT ~31:A 60174/2021 ~32:21/06/2021

2023/01004 ~ Provisional ~54:A STRESS CONCENTRATION DEVICE ~71:THE TRUSTEES FOR THE TIME BEING OF THE TREVOR CHARLES FROST FAMILY TRUST, 4 Nut Avenue, Olifantsfontein, Gauteng, 1665, South Africa, South Africa ~72: FROST, Trevor, Charles;THOMPSON, Kenneth, Mackay~

2023/01008 ~ Complete ~54:METHOD AND APPARATUS FOR DERIVING AN INTERPOLATION FILTER INDEX FOR A CURRENT BLOCK ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ALSHINA, Elena Alexandrovna;CHEN, Huanbang;CHERNYAK, Roman Igorevich;IKONIN, Sergey Yurievich;KARABUTOV, Alexander Alexandrovich;SOLOVYEV, Timofey Mikhailovich~ 33:US ~31:62/836,072 ~32:19/04/2019;33:US ~31:62/845,938 ~32:10/05/2019;33:US ~31:62/909,761 ~32:02/10/2019;33:US ~31:62/909,763 ~32:02/10/2019

2023/01015 ~ Complete ~54:MEDICAL IDENTIFICATION SYSTEM AND METHOD THEREOF ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Kotharu shanmukh kiran;Mandeep Singh;Pooja Rana;Ruhul Amin Chaudhary~

2023/01018 ~ Complete ~54:FLUIDIZED-BED FLOTATION UNIT, MINERAL PROCESSING APPARATUS, AND FLUIDIZED-BED FLOTATION METHOD ~71:METSO OUTOTEC FINLAND OY, LOKOMONKATU 3, 33900 TAMPERE, FINLAND, Finland ~72: SHERRELL, Ian~ 33:US ~31:63/046,009 ~32:30/06/2020

2023/01026 ~ Complete ~54:MULTI-SPECIFIC ANTIGEN BINDING MOLECULES TARGETING HIV AND METHODS OF USE ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, Uruguay ~72: BACA, MANUEL;BLAIR, WADE S.;CARR, BRIAN A.;CLANCY, SHEILA B.;GOLDSMITH, JOSHUA;HUNG, MAGDELEINE S.;KANWAR, MANU;MOLDT, BRIAN;NAGEL, MARK;PACE, CRAIG S.;PAN, YENRU;STEPHENSON, HEATHER T.;THOMSEN, NATHAN D.~ 33:US ~31:63/070,141 ~32:25/08/2020;33:US ~31:63/163,713 ~32:19/03/2021

2023/01039 ~ Complete ~54:CHAIN MONITORING SYSTEMS AND METHODS ~71:U.S. Tsubaki Holdings, Inc., 301 E. Marquardt Drive, WHEELING 60090, IL, USA, United States of America ~72: AUDETTE, Joseph;GORMAN, Paul;HARRIS, Daniel;HOGAN, Michael C.;HOGAN, Robert J.;LEDUC, Brian;MONTY, Charles R.~ 33:US ~31:63/047,564 ~32:02/07/2020;33:US ~31:17/355,402 ~32:23/06/2021

2023/01045 ~ Complete ~54:A METHOD OF PURIFYING RAW METHANOL ~71:Andritz Oy, Tammasaarenkatu 1, HELSINKI 00180, FINLAND, Finland ~72: OLSSON, Johan~ 33:FI ~31:20205697 ~32:30/06/2020

2023/01048 ~ Complete ~54:EXTRACTION METHOD ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: CHEVALIER, Karl;DE SOUZA CUNHA, Luciana Andreia;MAGALHAES DE MELLO, Fabio~ 33:GB ~31:2012338.6 ~32:07/08/2020

2023/01054 ~ Complete ~54:PROCESSES FOR REDUCING THE RATE OF PRESSURE DROP INCREASE IN A VESSEL ~71:Dow Technology Investments LLC, 2211 H. H. Dow Way, MIDLAND 48674, MI, USA, United States of America ~72: BARTON, David G.;GROHOL, Daniel~ 33:US ~31:63/046,350 ~32:30/06/2020

2023/01021 ~ Complete ~54:FLOTATION ARRANGEMENT AND METHOD RELATED THERETO ~71:METSO OUTOTEC FINLAND OY, LOKOMONKATU 3, 33900 TAMPERE, FINLAND, Finland ~72: MÄKELÄ; Antti, Mikael;RINNE, Antti;SHERRELL, Ian~ 33:US ~31:63/046,092 ~32:30/06/2020

- APPLIED ON 2023/01/25 -

2023/01080 ~ Complete ~54:FLOTATION ARRANGEMENT ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: SHERRELL, Ian~ 33:US ~31:63/046,192 ~32:30/06/2020

2023/01082 ~ Complete ~54:IMPROVED ACTIVATION AGENT FOR MANGANESE PHOSPHATING PROCESSES ~71:CHEMETALL GMBH, TRAKEHNER STRASSE 3, 60487 FRANKFURT, GERMANY, Germany ~72: SCHNEIDER, Ralf~ 33:EP ~31:20183417.3 ~32:01/07/2020

2023/01088 ~ Complete ~54:GLOBAL BIO-SURVEILLANCE AND RESPONSE SYSTEM ~71:Meso Scale Technologies, LLC., 1601 Research Boulevard, ROCKVILLE 20850, MD, USA, United States of America ~72: CLINTON, Charles M.;SIGAL, George;VOCK, Michael;WOHLSTADTER, Jacob N.~ 33:US ~31:63/044,815 ~32:26/06/2020

2023/01101 ~ Complete ~54:USER EQUIPMENT OPERATION DURING AN INACTIVE STATE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KIILERICH PRATAS, Nuno, Manuel;LASELVA, Daniela;ROSA, Claudio~ 33:EP ~31:20183543.6 ~32:01/07/2020

2023/01062 ~ Provisional ~54:KEYLESS VEHICLE ENTRY ADVANCED SECURITY SYSTEM ~71:Grant McCrudden, 7 Van Wyk Louw Street, South Africa ~72: Grant McCrudden~

2023/01064 ~ Provisional ~54:DIGITAL FITTING ROOM ~71:Dipolelo Mosepedi Arthur Makalela, 3269 Levubu Street, Naledi Soweto, South Africa ~72: Dipolelo Mosepedi Arthur Makalela~ 33:ZA ~31:ZA20230987654 ~32:24/01/2023

2023/01100 ~ Complete ~54:DEVICE FOR CARRYING OUT MATERIAL EXCHANGE PROCESSES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HECHLER, Claus;KRAMP, Marvin;KUNKELMANN, Christian;LANG, Ortmund;METZEN, Bernd~ 33:EP ~31:20182884.5 ~32:29/06/2020

2023/01081 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING LONG-ACTING CONJUGATE OF TRIPLE GLUCAGON/GLP-1/GIP RECEPTOR AGONIST ~71:HANMI PHARM. CO., LTD., 214, MUHA-RO, PALTAN-MYEON, HWASEONG-SI, GYEONGGI-DO 18536, REPUBLIC OF KOREA, Republic of Korea ~72: BAEK, Seungjae;CHOI, Jaeduk;KIM, Jung Kuk;SHIN, Wonjung~ 33:KR ~31:10-2020-0102604 ~32:14/08/2020

2023/01083 ~ Complete ~54:DEVICES, SYSTEMS, AND METHODS FOR REAL-TIME PEELING ~71:FRITOLAY NORTH AMERICA, INC., 7701 Legacy Drive, United States of America ~72: CHAN, Keith;EICHENLAUB, Sean;KOCI, Christopher~ 33:US ~31:63/068,119 ~32:20/08/2020

2023/01084 ~ Complete ~54:COMPOUNDS, COMPOSITIONS AND METHODS ~71:DENALI THERAPEUTICS INC., 161 Oyster Point Blvd, South San Francisco, United States of America ~72: BAGDASARIAN, ALEX L.;CRAIG, II, ROBERT A.;DE VICENTE FIDALGO, JAVIER;ESTRADA, ANTHONY A.;FOX, BRIAN M.;HU, CHENG;HUFFMAN, BENJAMIN J.;LEXA, KATRINA W.;NILEWSKI, LIZANNE G.;OSIPOV, MAKSIM;THOTTUMKARA, ARUN~ 33:US ~31:63/066,074 ~32:14/08/2020;33:US ~31:63/151,600 ~32:19/02/2021

2023/01089 ~ Complete ~54:PROCESS FOR PRODUCING A GAS STREAM COMPRISING CARBON MONOXIDE ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street, LONDON EC4A

4AB, UNITED KINGDOM, United Kingdom ~72: CLAXTON, Henry Arthur;COOK, Amelia Lorna Solveig;MCKENNA, Mark Joseph~ 33:GB ~31:2016417.4 ~32:16/10/2020

2023/01087 ~ Complete ~54:RIPPLE DETECTION APPARATUS AND RIPPLE SUPPRESSION APPARATUS ~71:ZTE Corporation, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, SHENZHEN 518057, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: E, Ben;FAN, Shanshan;LIN, Guoxian;LIU, Mingming;WANG, Qia;ZHANG, Wei;ZHOU, Jianping~ 33:CN ~31:202010602401.X ~32:28/06/2020

2023/01066 ~ Complete ~54:PHTHALAZINE DERIVATIVES AS INHIBITORS OF PARP1, PARP2 AND/OR TUBULIN USEFUL FOR THE TREATMENT OF CANCER ~71:ATLASMEDX, INC., UCSF Mission Bay Campus, 1700 4th Street, Byers Hall 214, MC 2522, San Francisco, California, 94158-2330, United States of America;THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street Twelfth Floor, Oakland, California, 94607-5200, United States of America ~72: CSABA J PETO;DAVID M JABLONS;HASSAN LEMJABBAR-ALAOUI;TSZE TSANG~ 33:US ~31:62/354,449 ~32:24/06/2016;33:US ~31:62/426,095 ~32:23/11/2016

2023/01069 ~ Complete ~54:METHOD AND SYSTEM FOR ON-SITE TESTING OF AN OFF-ROAD VEHICLE INTERVENTION SYSTEM ~71:HEXAGON GEOSYSTEMS SERVICES AG, Heinrich-Wild-Strasse 201, CH-9435, Heerbrugg, Switzerland ~72: FABIEN KRITTER;JOHANNES HUBER;LINUS ARNÖ;PETER SPRING;XIAO RU~ 33:US ~31:17/669,246 ~32:10/02/2022

2023/01075 ~ Complete ~54:A GAS-INDUCING AERATOR FOR FISH PONDS ~71:Zhejiang University, No. 866, Yuhangtang Road, Xihu District, Hangzhou, Zhejiang Province, People's Republic of China ~72: CHEN, Long;LI, Xiaxia;LIU, Ying;QI, Rui;WANG, Zhengjiang;WU, Binxin;ZHOU, Yukang~

2023/01098 ~ Complete ~54:PATCHINDEX SYSTEM AND METHOD FOR UPDATABLE MATERIALIZATION OF APPROXIMATE CONSTRAINTS ~71:ACTIAN CORPORATION, 2300 GENG ROAD, SUITE 150, PALO ALTO, CALIFORNIA 94303, USA, United States of America ~72: BAUMANN, Stephan;KLÄBE, Steffen~ 33:US ~31:63/046,464 ~32:30/06/2020;33:US ~31:17/358,493 ~32:25/06/2021

2023/01073 ~ Complete ~54:A METHOD FOR ANALYZING WASTE MANAGEMENT PRACTICES IN HEALTH CARE SECTOR ~71:Dr Bijaya Kumar Khamari, C V Raman Global University, Bhubaneswar, Odisha Department: Mechanical Engineering, Address: Kendriya Vihar, Flat No.- B1, Room No.- 4, C V Raman Global University campus, Bhubaneswar, Odisha, PIN- 752054, India;Dr Kamalakanta Muduli, Mechanical Engineering Department, Papua New Guinea University of Technology, PMB 411, Lae, Papua New Guinea;Dr Manidatta Ray, Head, Decision Science, Operations Management and IT Area Birla Global University IDCO Plot No : 2, Gothapatna, Bhubaneswar, Odisha -751029, India;Dr Manoranjan Das, Faculty of Management Science, SOA University, Bhubaneswar, Odisha, PIN 751030, India;Dr Sujoy Kumar Jana, Department of Land and Surveying, Papua New Guinea University of Technology, Lae, Morobe, Papua New Guinea;Dr. Debesh Mishra, Associate Professor, Mechanical Engineering Department, BEC, Bhubaneswar, Odisha, India ~72: Dr Bijaya Kumar Khamari;Dr Kamalakanta Muduli;Dr Manidatta Ray;Dr Manoranjan Das;Dr Sujoy Kumar Jana;Dr. Debesh Mishra~

2023/01099 ~ Complete ~54:PEI PARTICLE FOAMS WITH DEFINED RESIDUAL BLOWING AGENT CONTENT ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: BERNHARD, Kay;HOLLEYN, Denis;PAREMAL, Vinod;ROOSEN, Dirk;TRASSL, Christian~ 33:EP ~31:20183473.6 ~32:01/07/2020

2023/01067 ~ Complete ~54:PESTICIDAL MIXTURES COMPRISING INDAZOLES ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: WENMING ZHANG~ 33:US ~31:62/698,035 ~32:14/07/2018;33:US ~31:62/778,992 ~32:13/12/2018

2023/01071 ~ Complete ~54:A WROUGHT MAGNESIUM ALLOY WITH FINE GRAIN AND HIGH STRENGTH AND TOUGHNESS AND ITS PREPARATION METHOD ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Economic&Technological Development Zone, Shenyang, People's Republic of China ~72: CONG,Wenyuan;MAO,Pingli;WANG,Boning;WANG,Feng;WANG,Zhi;ZHOU,Le~

2023/01076 ~ Complete ~54:AN AUTOMATIC TRACKING DISINFECTION VEHICLE FOR PIG HOUSES ~71:Zhejiang University, No. 866, Yuhangtang Road, Xihu District, Hangzhou, Zhejiang Province, People's Republic of China ~72: CHEN, Long;HUANG, Mengtao;LI, Xiaxia;QI, Rui;WU, Binxin;ZHOU, Yukang~

2023/01078 ~ Complete ~54:PUMP STRAINER WITH PNEUMATIC CLEANING ~71:MOUNTAIN ROAD TRADING PTY LTD, 21 Darien Avenue, Bombo, New South Wales, 2533, Australia ~72: CREAGH, Tyler;HIGGINS, Anthony~ 33:AU ~31:2020902241 ~32:01/07/2020

2023/01085 ~ Complete ~54:SUBSTITUTED HALOALKYL SULFONANILIDE HERBICIDES ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: ALISON MARY LEVENS;MICHAEL HOLMES;THOMAS MARTIN STEVENSON;THOMAS PAUL SELBY;WANDI ZHANG~ 33:US ~31:63/058,459 ~32:29/07/2020

2023/01086 ~ Complete ~54:INJECTABLE FORMULATION ~71:SMALL PHARMA LTD, 6-8 Bonhill St London Greater London EC2A 4BX, United Kingdom ~72: JAMES MAXWELL RENNIE;MARIE CLAIRE LAYZELL~ 33:GB ~31:2013571.1 ~32:28/08/2020;33:US ~31:17/006,115 ~32:28/08/2020

2023/01091 ~ Complete ~54:NON-STEROIDAL TOPICAL COMPOSITION AND METHOD THEREOF ~71:GUPTA, Anupam, 3G608 , AWHO Gurjinder, Vihar, Greater Noida, 201310, India ~72: GUPTA, Anupam~ 33:IN ~31:202111025676 ~32:09/06/2021

2023/01063 ~ Provisional ~54:SYSTEM FOR AND METHOD OF PROCESSING MEDICAL REPORTS ~71:TICKYBOX INVESTMENTS (PTY) LTD., 1 Peace Street, Tzaneen, 0850, South Africa ~72: HANIEF MOOSA~

2023/01065 ~ Complete ~54:HYDRAULIC SEAL ~71:GIFFORD, Jason Laurence, 14 Sinden Avenue, Randpark Ridge, South Africa ~72: GIFFORD, Jason Laurence~ 33:ZA ~31:2021/08171 ~32:25/10/2021

2023/01068 ~ Complete ~54:ISOXAZOLINE COMPOUNDS FOR CONTROLLING INVERTEBRATE PESTS ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: ANDREW JON DEANGELIS;GEORGE PHILIP LAHM;MING XU~ 33:US ~31:62/699,880 ~32:18/07/2018

2023/01072 ~ Complete ~54:SYSTEM AND METHOD FOR PREDICTING EROSION VOLUME LOSS OF STAINLESS-STEEL COATED WITH STELLITE-6 POWDER MATERIAL ~71:Dr Aezeden Mohamed, Mechanical Engineering Department, Papua New Guinea University of Technology, Lae, PMB 411 Morobe Province, Papua New Guinea;Dr Bikash Chandra Behera, Mechanical Engineering Department, CV Raman Global University, India;Dr Kamalakanta Muduli, Mechanical Engineering Department, CV Raman Global University, Papua New Guinea;Dr. Bikash Ranjan Moharana, Mechanical Engineering Department, CV Raman Global University, Bhubaneswar, PIN: 752024, Odisha, India;Pradeep Kumar Jena, Mechanical Engineering Department, GITA Autonomous College, Bhubaneswar, PIN: 752054, Odisha, India ~72: Dr Aezeden Mohamed;Dr Bikash Chandra Behera;Dr Kamalakanta Muduli;Dr. Bikash Ranjan Moharana;Pradeep Kumar Jena~

2023/01074 ~ Complete ~54:PROCESS FOR MANUFACTURING BIODEGRADABLE PLASTIC BAGS ~71:Ana Silvia Tarrillo Cieza, Universidad Nacional Autónoma de Chota (UNACH), Jirón José Osores Nro. 418 Centro de Chota Cajamarca, Plaza de Armas de Chota, Peru;Claudio Ruff, Universidad Bernardo O´Higgins, Avenida Viel 1497, Santiago de Chile, Chile;Dr. Dulio Oseda Gago, Universidad Nacional

Autónoma de Chota (UNACH), Vice President of Research of the UNACH Organizing Commission, Jirón José Osoros Nro. 418 Centro de Chota Cajamarca, Plaza de Armas de Chota, Peru;Dr. Kelly Myriam Jiménez de Aliaga, Universidad Nacional Autónoma de Chota (UNACH), Director of Innovation and Technology Transfer, UNACH, Jirón José Osoros Nro. 418 Centro de Chota Cajamarca, Plaza de Armas de Chota, Peru;Dr. Sebastián Bustamante Edquén, Universidad Nacional Autónoma de Chota (UNACH), President of Research of the UNACH Organizing Commission, Jirón José Osoros Nro. 418 Centro de Chota Cajamarca, Plaza de Armas de Chota, Peru;Frank Fluker Velázquez Barreto, Universidad Nacional Autónoma de Chota (UNACH), Jirón José Osoros Nro. 418 Centro de Chota Cajamarca, Plaza de Armas de Chota, Peru;María Erlita Lescano Vergara, Universidad Nacional Autónoma de Chota (UNACH), Jirón José Osoros Nro. 418 Centro de Chota Cajamarca, Plaza de Armas de Chota, Peru;Nerli Lizeth Vásquez Vitón, Universidad Nacional Autónoma de Chota (UNACH), Jirón José Osoros Nro. 418 Centro de Chota Cajamarca, Plaza de Armas de Chota, Peru;Universidad Bernardo O´Higgins, Avenida Viel 1497, Santiago de Chile, Chile;Universidad Nacional Autónoma de Chota (UNACH), Jirón José Osoros Nro. 418 Centro de Chota Cajamarca Perú (Plaza de Armas de Chota), Peru ~72: Ana Silvia Tarrillo Cieza;Frank Fluker Velázquez Barreto;María Erlita Lescano Vergara;Nerli Lizeth Vásquez Vitón~

2023/01093 ~ Provisional ~54:VETTING SOFTWARE ~71:ELDRIDGE MATLHOGONOLO LEGODI MOTLHAKE, 13 ACACIA AVENUE, THE ORCHARDS, AKASIA, GAUTENG, South Africa;TITUS MOTHIBE KOTSOE, , South Africa ~72: ELDRIDGE MATLHOGONOLO LEGODI MOTLHAKE;TITUS MOTHIBE KOTSOE~

2023/01079 ~ Complete ~54:FROTH-INTERACTION FLOTATION UNIT, MINERAL PROCESSING APPARATUS, AND METHOD ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: RINNE, Antti;SHERRELL, Ian~ 33:US ~31:63/045,978 ~32:30/06/2020

2023/01090 ~ Complete ~54:MINE DRILL MODULE INCLUDING GRIPPER WITH FOLDING ARMS ~71:J.H. FLETCHER & CO., 402 High Street, P O Box 2187, United States of America ~72: BURGESS, Timothy, D.;ENDICOTT, Marc, D.;HINSHAW, Gregory, E.;PAYNE, Nathan, U.~ 33:US ~31:63/044,425 ~32:26/06/2020

2023/01070 ~ Complete ~54:A SYSTEM FOR CANCER DETECTION AND MONITORING USING CUSTOMIZED DETECTION OF CIRCULATING DNA AND METHOD THEREOF ~71:Dr.Ashish Kumar Sarangi, Assistant Professor, Department of Chemistry, School of Applied Science, Centurion University of Technology and Management, Balangir, Odisha, Balangir, Odisha, 767001, India;Dr.Gurudutta Pattnaik, Professor, School of Pharmacy and Life Sciences, Centurion University of Technology and Management,, Khordha, Khordha, Odisha, 752050, India;Dr.Md Sajid Ali, Assistant Professor, Department of Pharmaceutics, College of Pharmacy, Jazan University, Jazan, Kingdom of Saudi Arabia., Jazan, Jazan, Jazan, 45142, Saudi Arabia;Dr.Nawazish Alam, Assistant Professor, Department of Pharmacy Practice, College of Pharmacy, Jazan University,, Jazan, Jazan, Jazan, 45142, Saudi Arabia;Dr.Ranjan Kumar Mohapatra, Department of Chemistry, Government College of Engineering,, Keonjhar, Keonjhar, Odisha, 758002, India;Dr.Rudra Narayan Sahoo, Assistant Professor, School of Pharmacy and Life Sciences, Centurion University of Technology and Management,, Bhubaneswar, Bhubaneswar, Odisha, 752050, India;Dr.Sarfraz Ahmad, Lecturer, Department of Pharmacy Practice, College of Pharmacy, Jazan University,, Jazan, Jazan, Jazan, 45142, Saudi Arabia;Dr.Sovan Pattanaik, School of Pharmaceutical Sciences, Siksha O Anusandhan Deemed to be University, Kalinga Nagar, Bhubaneswar, Bhubaneswar, Odisha, 751003, India ~72: Dr.Ashish Kumar Sarangi;Dr.Gurudutta Pattnaik;Dr.Md Sajid Ali;Dr.Nawazish Alam;Dr.Ranjan Kumar Mohapatra;Dr.Rudra Narayan Sahoo;Dr.Sarfraz Ahmad;Dr.Sovan Pattanaik~ 33:IN ~31:202231071013 ~32:09/12/2022

2023/01077 ~ Complete ~54:NOVEL AEROSOL-GENERATING SUBSTRATE COMPRISING MATRICARIA SPECIES ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: ARNDT, Daniel;CAMPANONI, Prisca;SCHALLER, Jean-Pierre~ 33:EP ~31:20183164.1 ~32:30/06/2020

2023/01092 ~ Complete ~54:ANALYSIS OF AN ACOUSTIC SIGNAL ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany;FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BEARDOW, Andrew;BISGIN, Pinar;PANTFÖRDER, Michael;SCHUMMER, Christoph Matthias~ 33:EP ~31:20188977.1 ~32:31/07/2020

- APPLIED ON 2023/01/26 -

2023/01096 ~ Complete ~54:A METHOD FOR TREATING LANDFILL LEACHATE ~71:Hunan University of Technology, No.88, Taishan West Road, Tianyuan District, Zhuzhou City, Hunan Province, People's Republic of China ~72: Jiaxian Qiao;Xi Cheng;Xian Liu;Xin Liu;Ying Chen~

2023/01105 ~ Complete ~54:1-METHYL-1H-PYRAZOL-3-YL DERIVATIVES FOR USE IN THE TREATMENT OF NEOVASCULAR DISEASES ~71:EXONATE LIMITED, WTL, Moorfield Road, United Kingdom ~72: BAXTER, Andrew Douglas;MORRIS, Jonathan~ 33:GB ~31:2010829.6 ~32:14/07/2020

2023/01109 ~ Complete ~54:BRANCHED AMINO ACID SURFACTANTS FOR USE IN HEALTHCARE PRODUCTS ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: EDWARD ASIRVATHAM~ 33:US ~31:63/051,190 ~32:13/07/2020

2023/01117 ~ Complete ~54:METHOD FOR ACCESSING NETWORK, MEDIA GATEWAY, ELECTRONIC DEVICE, AND STORAGE MEDIUM ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South Hi-Tech Industrial Park, Nanshan District Shenzhen, Guangdong 518057, People's Republic of China ~72: LIU, Bo~ 33:CN ~31:202010607277.6 ~32:29/06/2020

2023/01125 ~ Complete ~54:A DRILL ASSEMBLY FOR PERCUSSIVE DRILLING, A DRILL BIT AND A DRILL STRING ELEMENT ~71:Robit PLC, Vikkiniityntie 9, LEMPÄÄLÄ 33880, FINLAND, Finland ~72: ALA-KANTO, Kimmo;KOSKINEN, Mika~

2023/01112 ~ Complete ~54:BRANCHED AMINO ACID SURFACTANTS FOR ELECTRONICS PRODUCTS ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: EDWARD ASIRVATHAM~ 33:US ~31:63/051,187 ~32:13/07/2020

2023/01118 ~ Complete ~54:BISPECIFIC ANTAGONISTS OF RETINOL-BINDING PROTEIN 4 THAT STABILIZE TRANSTHYRETIN TETRAMERS, THEIR PREPARATION, AND USE IN THE TREATMENT OF COMMON AGE-RELATED COMORBIDITIES ~71:ALBANY COLLEGE OF PHARMACY AND HEALTH SCIENCES IN THE CITY OF ALBANY, 106 NEW SCOTLAND AVENUE, United States of America;THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, 412 LOW MEMORIAL LIBRARY, 535 W. 116TH STREET, United States of America ~72: CIOFFI, Christopher L.;MUTHURAMAN, Parthasarathy;PETRUKHIN, Konstantin;RACZ, Boglarka;RAJA, Arun;VARADI, Andras~ 33:US ~31:63/054,218 ~32:20/07/2020

2023/01120 ~ Complete ~54:FUNGICIDAL MIXTURES ~71:Adama Makhteshim Ltd., P. O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: AVIDOR, Yoav;CERNUSCHI, Matteo;ROSENMUND, Alexandra~ 33:US ~31:63/049,423 ~32:08/07/2020;33:US ~31:63/139,269 ~32:19/01/2021

2023/01127 ~ Provisional ~54:UPRISING OF MAZISI KUNENE ~71:Ayanda Gcwensa, 2 Joel Street Amandawe Scottsburg 4180, South Africa;Ntombenhle Foundation, 2 Joel Street Amandawe Scottsburg 4180, South Africa ~72: Ayanda Gcwensa;Lucky Cele~

2023/01102 ~ Complete ~54:SYSTEM, APPARATUS AND METHOD FOR INSTALLATION OF STREET FURNITURE ~71:PETTERS, Karl, 22 Meadow Lane, Newmarket Suffolk, United Kingdom ~72: PETTERS, Karl~ 33:GB ~31:2011827.9 ~32:30/07/2020

2023/01115 ~ Complete ~54:BRANCHED AMINO ACID SURFACTANTS FOR AGRICULTURAL PRODUCTS ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: EDWARD ASIRVATHAM~ 33:US ~31:63/051,197 ~32:13/07/2020

2023/01124 ~ Complete ~54:A METHOD OF PREVENTING BLOCKAGE OF CIRCULATING BED MATERIAL IN A CIRCULATING FLUIDIZED BED REACTOR ARRANGEMENT ~71:Sumitomo SHI FW Energia Oy, Metsänneidonkuja 10, ESPOO 02130, FINLAND, Finland ~72: HILTUNEN, Teri;KETTUNEN, Ari~

2023/01095 ~ Provisional ~54:PROCESS FOR THE PRODUCTION OF PRECIPITATED SINGLE PHASE CRYSTALLINE 1-D NANOSCALED CALCITE ~71:UNIVERSITY OF SOUTH AFRICA, 1 PRELLER STREET MUCKLENEUK RIDGE, South Africa ~72: MAAZA, Malek;MOHAMED, Hamza Elsayed Ahmed~

2023/01106 ~ Complete ~54:REDUCTION OF VIRAL INFECTIONS ~71:PHOXBIO LIMITED, UNIT 8 GALWAY TECHNOLOGY, PARK, PARKMORE, GALWAY, IRELAND, Ireland ~72: MASOOD, Mohammed, Abid~ 33:GB ~31:2010271.1 ~32:03/07/2020;33:GB ~31:2013976.2 ~32:05/09/2020;33:GB ~31:2018446.1 ~32:24/11/2020;33:GB ~31:2018571.6 ~32:25/11/2020;33:GB ~31:2020320.4 ~32:21/12/2020;33:GB ~31:2105509.0 ~32:18/04/2021

2023/01113 ~ Complete ~54:WOOD-PLASTIC COMPOSITE MATERIAL ~71:ALEXANDER HAUBNER, Riesenederfeld 10a, 4040 Linz, Austria ~72: ALEXANDER HAUBNER;CHRISTOPH BURGSTALLER~ 33:AT ~31:A 50640/2020 ~32:27/07/2020

2023/01122 ~ Complete ~54:SYSTEMS AND METHODS FOR REHABILITATING ALCOHOL COMPOSITIONS AND REHABILITATED ALCOHOLIC PRODUCTS ~71:RUBIN, Matthew, 4749 Pennington Court, INDIANAPOLIS 46254, IN, USA, United States of America;Trade Secret Chocolates, 4749 Pennington Court, INDIANAPOLIS 46254, IN, USA, United States of America ~72: RUBIN, Matthew~ 33:US ~31:16/939,340 ~32:27/07/2020;33:US ~31:63/156,517 ~32:04/03/2021;33:US ~31:63/209,487 ~32:11/06/2021

2023/01108 ~ Complete ~54:BRANCHED AMINO ACID SURFACTANTS ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: ANDREI HONCIUC;EDWARD ASIRVATHAM;VOICHITA MIHALI~ 33:US ~31:63/049,744 ~32:09/07/2020

2023/01111 ~ Complete ~54:BRANCHED AMINO ACID SURFACTANTS FOR INKS, PAINTS, AND ADHESIVES ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: EDWARD ASIRVATHAM~ 33:US ~31:63/051,191 ~32:13/07/2020

2023/01104 ~ Complete ~54:AEROSOL-GENERATING DEVICE AND METHOD WITH PUFF DETECTION ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: DUCROS, Maxime;HAU, Daniela;MIRONOV, Oleg;STURA, Enrico~ 33:EP ~31:20183280.5 ~32:30/06/2020

2023/01116 ~ Complete ~54:BRANCHED AMINO ACID SURFACTANTS FOR CLEANING PRODUCTS ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: EDWARD ASIRVATHAM~ 33:US ~31:63/051,199 ~32:13/07/2020

2023/01126 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF NEUROLOGICAL DISORDERS RELATED TO GLUCOSYLCERAMIDASE BETA DEFICIENCY ~71:Voyager Therapeutics, Inc., 64 Sidney Street, CAMBRIDGE 02139, MA, USA, United States of America ~72: ADELUYI, Adewale;BALES,

Kelly;BROWN, Jeffrey;HOFFMAN, Brett;HOU, Jinzhao;JAGTAP, Smita;KNOLL, Elisabeth;MURLIDHARAN, Giridhar;SHU, Yanqun~ 33:US ~31:63/057,265 ~32:27/07/2020

2023/01094 ~ Provisional ~54:A LID FOR A CONTAINER AND PACKAGING ~71:SolvPac (Pty) Ltd, 4 Xolisa (Yellow) Street, Ezakheni Industrial Park, Ladysmith, 3370, SOUTH AFRICA, South Africa ~72: MARQUISS, Rory Vernon~

2023/01097 ~ Complete ~54:CONTRACEPTIVE MEDICAL DEVICES ~71:Poly-Med, Inc., 51 Technology Drive, ANDERSON 29625, SC, USA, United States of America ~72: GAERKE, Brian;GARCIA, Kyle;GRAVETT, David;SOLIANI, Anna Paola;TAYLOR, Michael Scott~ 33:US ~31:62/934,090 ~32:12/11/2019;33:US ~31:63/019,884 ~32:04/05/2020

2023/01103 ~ Complete ~54:HETEROBIARYL COMPOUNDS AND IMAGING AGENTS FOR IMAGING HUNTINGTIN PROTEIN ~71:CHDI FOUNDATION, INC., c/o CHDI Management, Inc., 350 Seventh Avenue, United States of America ~72: CHEN, Xuemei;DOMINGUEZ, Celia;LIU, Longbin;MANGETTE, John, E.~ 33:US ~31:63/062,310 ~32:06/08/2020

2023/01107 ~ Complete ~54:BRANCHED AMINO ACID SURFACTANTS ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: ANDREI HONCIUC;EDWARD ASIRVATHAM;VOICHITA MIHALI~ 33:US ~31:63/049,726 ~32:09/07/2020

2023/01110 ~ Complete ~54:BRANCHED AMINO ACID SURFACTANTS FOR OIL AND GAS PRODUCTION ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: EDWARD ASIRVATHAM~ 33:US ~31:63/051,192 ~32:13/07/2020

2023/01114 ~ Complete ~54:BRANCHED AMINO ACID SURFACTANTS FOR PERSONAL CARE AND COSMETIC PRODUCTS ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: EDWARD ASIRVATHAM~ 33:US ~31:63/051,193 ~32:13/07/2020

2023/01119 ~ Complete ~54:INTEGRAL FILTER ENDCAP, MOLD, AND SEAL ~71:Caterpillar Inc., 100 NE Adams Street, PEORIA 61629-9510, IL, USA, United States of America ~72: EVERY, Joseph J.;IMMEL, Jon T.;MOREHOUSE III, Darrell L.;OEDEWALDT, Stephen E.;POTTS, Gregory O.;RIES, Jeffrey R.;SPENGLER, Philip C.~ 33:US ~31:16/918,142 ~32:01/07/2020

2023/01121 ~ Complete ~54:PUMP APPARATUS FOR REDUCING THE SIZE OF SUSPENDED SOLIDS BEFORE PUMPING ~71:Weir Minerals Australia Ltd, 1 Marden Street, ARTARMON 2064, NSW, AUSTRALIA, Australia ~72: CALMA, Cesar;DUONG, Hugh~ 33:AU ~31:2020903105 ~32:31/08/2020

2023/01123 ~ Complete ~54:SYSTEMS AND METHODS FOR REHABILITATING COFFEE BEANS AND BREWED COFFEE ~71:Trade Secret Chocolates, 4749 Pennington Court, INDIANAPOLIS 46254, IN, USA, United States of America ~72: RUBIN, Matthew~ 33:US ~31:16/939,340 ~32:27/07/2020;33:US ~31:63/093,045 ~32:16/10/2020;33:US ~31:63/156,517 ~32:04/03/2021;33:US ~31:63/156,588 ~32:04/03/2021;33:US ~31:63/209,487 ~32:11/06/2021

- APPLIED ON 2023/01/27 -

2023/01137 ~ Complete ~54:METHOD FOR PRODUCING POLYOXYMETHYLENE DIMETHYL ETHERS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastraße 27c, Germany ~72: MANTEI, Franz;OUDA, Mohamed;SCHAADT, Achim~ 33:DE ~31:10 2020 118 386.0 ~32:13/07/2020

2023/01129 ~ Provisional ~54:POWER MANAGEMENT SYSTEM ~71:XCHAIN (PTY) LTD, 24 Landina Gardens, Moreleta Park, South Africa ~72: WALGENBACH, Steven Lance~

2023/01131 ~ Complete ~54:SOLID LIPID NANOPARTICLES (SLN) OF ARTEMISININ BY USING EMULSION SOLVENT DIFFUSION (ESD) METHOD ~71:DEORE, Sumit, Ramakant, Flat no 14, Saivilla Apt, Opposite Metrozone, Wadala Pathardi Road, India;DEORE, Sunita, Sumit, Flat no 14, Saivilla Apt, Opposite Metrozone, Wadala Pathardi Road, India;GALGATTE, Upendra Chandrakant, P E Society's Modern College of Pharmacy, Nigdi, Pune, Maharashtra, India;GUNJAL, Sachinkumar, Dnyaneshwar, Amrutvahini Sheti and Shikshan Vikas Sanstha, Amrutvahini College of Pharmacy, India;KAVITAKE, Shrikant Shivaji, Dattakala Shikshan Sanstha's, Dattakala College of Pharmacy, A/P Swami Chincholi (Bhigwan), India;KORPALE, Snehal, Nivas, Ashokrao Mane College of Pharmacy, Peth Vadgaon, Infront of KTM Stop, India;MEHTA, Preeti, Prashant, Navsahyadri Institute of Pharmacy, Naigaon (Nasrapur), Tal. Bhor, India;TARATE, Vivek, Subhash, Navsahyadri Institute of Pharmacy, Naigaon (Nasrapur) Tal. Bhor, Dist., India ~72: DEORE, Sumit, Ramakant;DEORE, Sunita, Sumit;GALGATTE, Upendra Chandrakant;GUNJAL, Sachinkumar, Dnyaneshwar;KAVITAKE, Shrikant Shivaji;KORPALE, Snehal, Nivas;MEHTA, Preeti, Prashant;TARATE, Vivek, Subhash~

2023/01132 ~ Complete ~54:MODIFIED MONOCYTES/MACROPHAGE EXPRESSING CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF ~71:THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, 3160 Chestnut Street Suite 200, Philadelphia, Pennsylvania, 19104, United States of America ~72: CARL H JUNE;MICHAEL KLICHINSKY;SAAR GILL~ 33:US ~31:62/197,675 ~32:28/07/2015

2023/01134 ~ Complete ~54:WATER INLET SOLENOID VALVE CAPABLE OF IMPROVING ELECTROMAGNETIC ATTRACTION AND IMPLEMENTING METHOD THEREFOR ~71:JIANGMEN TIANDI ELECTRICAL APPLIANCE CO., LTD, No.1, Jingmianer Road, Duruan Town, Pengjiang District, Jiangmen, Guangdong, 529075, People's Republic of China ~72: HONGBIAO WANG;LIN AO~ 33:CN ~31:201910898273.5 ~32:23/09/2019

2023/01130 ~ Complete ~54:FORMALDEHYDE PURIFICATION DEVICE ~71:YANTAI NINGXIN ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD, Room 907, Science and Technology Building, 28 Zhujiang Road, Yantai Economic and Technological Development Zones, Shandong Province, People's Republic of China ~72: GUO, Xuyang;LIU, Lin;XU, Bingtao;XU, Huaxia~ 33:CN ~31:202210103657.5 ~32:28/01/2022

2023/01136 ~ Complete ~54:FLOTATION ARRANGEMENT AND METHOD ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: RINNE, Antti;SHERRELL, Ian~ 33:US ~31:63/046,231 ~32:30/06/2020

2023/01142 ~ Complete ~54:SUPERVISORY MACHINE INTELLIGENCE CONTROLS FOR PRODUCTION OF MEAT SUBSTITUTES ~71:ABB SCHWEIZ AG, Bruggerstrasse 66, 5400 Baden, Switzerland;ETH ZÜRICH, Rämistrasse 101, 8092 Zürich, Switzerland;PLANTED FOODS AG, Kemptpark 32, 8310, Kemptthal, Switzerland ~72: CHAU-HON HO;ELSI-MARI BORRELLI;ERIC STIRNEMANN;ERICH J WINDHAB;KIM LISTMANN;LUKAS BÖNI;MEHMET MERCANGOEZ;PATRICK RÜHS;PHILIPP SOMMER;SANDRO SCHOENBORN;VEDRANA SPUDIC~ 33:EP ~31:20186396.6 ~32:17/07/2020

2023/01145 ~ Complete ~54:A METHOD FOR THE ISOLATION OF DOUBLE-STRAND BREAKS ~71:UNIVERSITY COLLEGE CARDIFF CONSULTANTS LTD, 30-36 Newport Road, Cardiff, CF24 0DE, United Kingdom ~72: FELIX DOBBS;PATRICK VAN EIJK;SIMON REED~ 33:GB ~31:2013141.3 ~32:21/08/2020

2023/01153 ~ Complete ~54:ARTICLE FOR USE IN A NON-COMBUSTIBLE AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;CROSS, Jennifer;MARTIN, Stuart;SOFFE, Joanna~ 33:GB ~31:2012745.2 ~32:14/08/2020;33:GB ~31:2104654.5 ~32:31/03/2021

2023/01160 ~ Provisional ~54:A SYSTEM AND METHOD FOR AN INTEGRATED PLATFORM FOR MONETIZATION AND FOR OFFERING AND PURCHASING OF SERVICES ~71:RUSHERN RUVASHIN CHETTY, 3 Cotswold Drive, South Africa ~72: RUSHERN RUVASHIN CHETTY~

2023/01155 ~ Complete ~54:SPECTRALLY SELECTIVE SOLAR ABSORBER COATING ~71:Agenzia Nazionale per le Nuove Tecnologie L'energia e lo Sviluppo Economico Sostenibile (ENEA), Lungotevere G.A. Thaon di Revel, 76, ROMA 00196, ITALY, Italy ~72: D'ANGELO, Antonio;DILETTO, Claudia;ESPOSITO, Salvatore;GRADITI, Giorgio;GUGLIELMO, Antonio~ 33:IT ~31:10202000018676 ~32:30/07/2020

2023/01138 ~ Complete ~54:BIDIRECTIONAL DC CONVERTER, CONTROL METHOD THEREFOR, AND CONTROL MODULE THEREOF, AND STORAGE MEDIUM ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, People's Republic of China ~72: CUI, Yulong;E, Ben;LIN, Guoxian;LIU, Mingming;WANG, Qia;ZHOU, Jianping~ 33:CN ~31:202010605231.0 ~32:29/06/2020

2023/01139 ~ Complete ~54:NOBILETIN COMPOSITIONS AND METHODS FOR THE TREATMENT AND PREVENTION OF COVID-19 AND RELATED PATHOLOGIES ~71:CAS PROPERTIES, LLC, 895 Dove Street, United States of America ~72: HWANG, Paul;ROUFS, James;ZHAO, Feng~ 33:US ~31:63/057,273 ~32:27/07/2020

2023/01140 ~ Complete ~54:PYRAZOLOAZEPINE IMMUNOCONJUGATES, AND USES THEREOF ~71:BOLT BIOTHERAPEUTICS, INC., 900 Chesapeake Drive, Redwood City, California, 94063, United States of America ~72: BRIAN SAFINA;ROMAS KUDIRKA~ 33:US ~31:63/065,219 ~32:13/08/2020

2023/01141 ~ Complete ~54:FILMS FOR AGRICULTURAL STRUCTURES ~71:PLASTIKA KRITIS S.A., P.O. Box 1093, 711 10 Iraklion, Greece ~72: KRYSTALENIA ANDROULAKI;MELANI A FRYALI~ 33:EP ~31:20386038.2 ~32:27/07/2020

2023/01146 ~ Complete ~54:NETWORK PACKET-BASED REMOTE MEMORY ACCESS METHOD AND APPARATUS, AND DEVICE AND MEDIUM ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, People's Republic of China ~72: LUO, Sheng~ 33:CN ~31:202010614301.9 ~32:30/06/2020

2023/01148 ~ Complete ~54:SECURE CONTAINER FOR STORING OR TRANSPORTING VALUE DOCUMENTS, AND SYSTEM FOR SECURING STORAGE AND TRANSPORTATION OF VALUE DOCUMENTS ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: DEMANGE, Raynald;MAYER, Alain;NICOLOV, Kalin;REINHARD, Christine;SUICHIES, Bart~ 33:EP ~31:20183032.0 ~32:30/06/2020

2023/01151 ~ Complete ~54:DRINKING APPARATUS AND DRINKING VESSEL ~71:air up group GmbH, Bayerstrasse 69, Munich 80335, GERMANY, Germany ~72: JÄGER, Tim;JÜNGST, Magdalena;KOPPITZ, Jannis;SCHLANG, Fabian~ 33:EP ~31:20188639.7 ~32:30/07/2020

2023/01154 ~ Complete ~54:ANTIBODIES AGAINST THE MUC1-C/EXTRACELLULAR DOMAIN (MUC1-C/ECD) ~71:Dana-Farber Cancer Institute, Inc., 450 Brookline Ave., BOSTON 02215-5450, MA, USA, United States of America;Genus Oncology LLC, 2458 N. Racine Avenue, CHICAGO 60614, IL, USA, United States of America ~72: KHARBANDA, Surrender;KUFU, Donald W.~ 33:US ~31:63/052,599 ~32:16/07/2020

2023/01158 ~ Complete ~54:INFLAMMATORY DISEASE TREATMENT USING ANTI-TISSUE FACTOR ANTIBODIES ~71:ICONIC THERAPEUTICS, INC., 701 Gateway Blvd, Ste 100, United States of America ~72: GREENE, William;MIGONE, Thi-Sau~ 33:US ~31:63/050,629 ~32:10/07/2020

2023/01128 ~ Provisional ~54:FOOT ACTUATED FLUSHING APPARATUS AND METHOD ~71:VAN DER RYST, HENDRIK JOHANNES, UNIT 2, 366 4TH ROAD, MOLENHOFF COUNTRY ESTATE, South Africa ~72: VAN DER RYST, HENDRIK JOHANNES~

2023/01147 ~ Complete ~54:KIT FOR THE TREATMENT OF SEEDS ~71:INSTITUT DES SCIENCES ET INDUSTRIES DU VIVANT ET DE L'ENVIRONNEMENT, 16 rue Claude Bernard, France;INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE L'ALIMENTATION ET L'ENVIRONNEMENT, 147 rue de l'Universit#233;, France ~72: AUCLAIR, Julie;CHAUFFOUR, Fr#233;d#233;ric;COLLET, Boris;POZZA, Omae;RAJJOU, Lo#239;c~ 33:FR ~31:FR2008326 ~32:06/08/2020

2023/01156 ~ Complete ~54:METHODS OF TREATING MUTANT LYMPHOMAS ~71:Kymera Therapeutics, Inc., 200 Arsenal Yards Blvd., Suite 230, WATERTOWN 02472, MA, USA, United States of America ~72: WALKER, Duncan~ 33:US ~31:63/058,891 ~32:30/07/2020;33:US ~31:63/109,854 ~32:04/11/2020;33:US ~31:63/202,242 ~32:02/06/2021

2023/01149 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: COMPTON, Jeremy~ 33:GB ~31:2011735.4 ~32:29/07/2020

2023/01159 ~ Complete ~54:PATATIN AS BINDER IN MEAT SUBSTITUTES ~71:CO#214;PERATIE KONINKLIJKE AVEBE U.A., Prins Hendrikplein 20, Netherlands ~72: CHEN, Zhenghong;SEEGERS, Christina Lamberta Catharina;SPELBRINK, Robin Eric Jacobus;STANIŠIĆ, Nikola~ 33:EP ~31:20188554.8 ~32:30/07/2020

2023/01143 ~ Complete ~54:NOVEL DIOXOLOISOQUINOLINONE DERIVATIVES AND USE THEREOF ~71:HANMI PHARMACEUTICAL CO., LTD., 214, Muha-ro, Paltan-myeon, Hwaseong-si, Gyeonggi-do, 18536, Republic of Korea ~72: DONG JIN HONG;JI YOUNG HWANG;SEO HEE KIM;SEUNG HYUN JUNG;SHIN MEE MAH;SO MIN PARK;YOUNG GIL AHN~ 33:KR ~31:10-2020-0102034 ~32:13/08/2020

2023/01144 ~ Complete ~54:COSMETIC FORMULATIONS FOR HAIR TREATMENT WITH IMPROVED PROPERTIES ~71:DAVINES S.P.A., Via Ravasini, 9/A, 43126, Parma, Italy ~72: BEATRICE DE CARNE;MARGHERITA NICOLI;MICHELA GALLO;PAOLO GOI;TERESA CACCIA~ 33:IT ~31:10202000017485 ~32:17/07/2020

2023/01150 ~ Complete ~54:GAS FILTER HOUSING WITH REPLACEABLE GAS FILTER MEDIA FOR MEDICAL VENTILATION SYSTEMS ~71:Vayu Global Health Innovations, LLC, 22 Welgate Rd., MEDFORD 02155, MA, USA, United States of America ~72: BURKE, Thomas;DUNDEK, Michelle;NG, Ellie;PREMKUMER, Akash~ 33:US ~31:63/063,693 ~32:10/08/2020

2023/01152 ~ Complete ~54:SPOTTER AMMUNITION PROJECTILE AND METHOD FOR MAKING THE SAME ~71:General Dynamics OTS - Canada Inc., 5 Mont#233;e Des Arsenaux, Repentigny, QU#200;BEC J5Z 2P4, CANADA, Canada ~72: LAFORTUNE, Eric~ 33:US ~31:16/947,942 ~32:25/08/2020

2023/01157 ~ Complete ~54:METHODS AND INTERMEDIATES FOR PREPARING JAK INHIBITORS ~71:CoNCERT Pharmaceuticals, Inc., 65 Hayden Avenue, Suite 3000N, LEXINGTON 02421, MA, USA, United States of America ~72: BAZINET, Patrick;DONG, Yong;KARLA, Mahender;LEWIS, Robert S.~ 33:US ~31:63/045,627 ~32:29/06/2020

2023/01133 ~ Complete ~54:INTEGRATION OF HIGH FREQUENCY AUDIO RECONSTRUCTION TECHNIQUES ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg, 1-35, 1101 CN,

Amsterdam Zuidoost, Netherlands ~72: HEIKO PURNHAGEN;KRISTOFER KJOERLING;LARS VILLEMOS;PER EKSTRAND~ 33:EP ~31:18169156.9 ~32:25/04/2018

2023/01135 ~ Complete ~54:ORGANIC WASTE PROCESSOR ~71:GIFFORD, Jason Laurence, 14 Sinden Avenue, Randpark Ridge, South Africa ~72: GIFFORD, Jason Laurence~ 33:ZA ~31:2021/05533 ~32:29/10/2021

- APPLIED ON 2023/01/30 -

2023/01170 ~ Complete ~54:METHOD FOR INHIBITING CITRUS FRUIT PUFFINESS ~71:Jiangxi Agricultural University, No. 1101, Fangzhimin Avenue, Nanchang Economic and Technological Development Zone, Jiangxi Province, 330045, People's Republic of China ~72: HU, Wei;KUANG, Liuqing;LIU, Dechun;LIU, Yong;YANG, Li;YU, Xuan~ 33:CN ~31:202210218022.X ~32:08/03/2022

2023/01171 ~ Complete ~54:INTELLIGENT NURSING BED CAPABLE OF PREVENTING BEDSORES AND USED FOR HOME-BASED CARE OF DISABLED ELDER ~71:Suzhou University, No. 55, Middle Bianhe Road, Suzhou City, Anhui Province, 234000, People's Republic of China ~72: HAN, Jun;ZHANG, Shufang~ 33:CN ~31:202211119149.2 ~32:13/09/2022

2023/01208 ~ Complete ~54:A SYSTEM AND A METHOD FOR NEUTRALIZATION OF NUCLEAR BOMBS USING ULTRA-HIGH ENERGY NEUTRINO BEAM ~71:Aditya Singh, Department of Civil Engineering, Government Engineering College Koni, Bilaspur, (Chhattisgarh), 495001, India;Domeswar Ram, Department of Science and Humanities, Government Polytechnic Korea, Baikunthpur, (Chhattisgarh), 497335, India;Dr. Abhinav Kumar, Department of Nuclear and Renewable Energy, Ural Federal University Named After the First President of Russia, Boris Yeltsin, 19 Mira Street, Ekaterinburg, 620002, Russian Federation;Dr. Awanish Kumar Upadhyay, Department of Physics, Government Engineering College Bilaspur (Chhattisgarh), 495009, India;Dr. Onkar Nath Verma, Department of Physics and Astronomical Sciences, Central University of Jammu, (Jammu and Kashmir), 181143, India;Dr. Sachin Kumar Gupta, School of Electronics and Communication Engineering, Shri Mata Vaishno Devi University, Kakryal, Katra, (Jammu & Kashmir), UT, 182320, India;Rahul Gupta, Department of Electronics and Telecommunications, Government Engineering College, Koni, Bilaspur (Chhattisgarh), 495009, India;Sandeep Kumar Soni, Department of Basic Science and Humanities, Government Polytechnic Bijapur (Chhattisgarh), 494444, India;Vineet Kumar Shukla, Department of Basic Science and Humanities, Government Engineering College Raipur (Chhattisgarh), 492015, India ~72: Aditya Singh;Domeswar Ram;Dr. Abhinav Kumar;Dr. Awanish Kumar Upadhyay;Dr. Onkar Nath Verma;Dr. Sachin Kumar Gupta;Rahul Gupta;Sandeep Kumar Soni;Vineet Kumar Shukla~

2023/01203 ~ Complete ~54:ENERGY EFFICIENT BIOCHAR KILN FOR PRODUCTION OF BIOCHAR FROM AGRICULTURAL CROP RESIDUES ~71:COLLEGE OF TECHNOLOGY AND ENGINEERING, MAHARANA PRATAP UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, MPUAT, UDAIPUR, RAJASTHAN, 313001, India;PANWAR, Narayan Lal, ASSOCIATE PROFESSOR AND HEAD, DEPARTMENT OF RENEWABLE ENERGY ENGINEERING, COLLEGE OF TECHNOLOGY AND ENGINEERING, MAHARANA PRATAP UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, UDAIPUR, RAJASTHAN, 313001, India;PATEL, Maga Ram, RESEARCH SCHOLAR, DEPARTMENT OF RENEWABLE ENERGY ENGINEERING, COLLEGE OF TECHNOLOGY AND ENGINEERING (CTAE), MPUAT, UDAIPUR, RAJASTHAN, 313001, India ~72: PANWAR, Narayan Lal;PATEL, Maga Ram~

2023/01211 ~ Complete ~54:METHOD FOR GENERATING AN ADJUSTMENT ENERGY-EFFICIENT TRACK ~71:“OMNICOMM ONLINE” LIMITED LIABILITY COMPANY, UI. Butyrskiy Val, D. 68/70, Str. 1, ET 4 KOM 97, Moscow, 127055, Russian Federation ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2021128773

~32:03/10/2021;33:RU ~31:2021128774 ~32:03/10/2021;33:RU ~31:2021128775 ~32:03/10/2021;33:RU
~31:2021128776 ~32:03/10/2021

2023/01219 ~ Complete ~54:COMPOSITIONS AND METHODS FOR IMPROVED VACCINATION
~71:COMBINED THERAPEUTICS, INC., 650 E Kendall Street, Cambridge, United States of America ~72:
DUVAL, Valerie;MICOL, Romain~ 33:US ~31:63/059,458 ~32:31/07/2020;33:US ~31:PCT/US21/19028
~32:22/02/2021

2023/01221 ~ Complete ~54:COMPOSITIONS AND METHODS RELATED TO EBOLA VIRUSVACCINES
~71:THE SCRIPPS RESEARCH INSTITUTE, 10550 North Torrey Pines Road, La Jolla, California, 92037, United
States of America ~72: ANSHUL CHAUDHARY;IAN WILSON;JIANG ZHU;LINLING HE~ 33:US ~31:63/063,530
~32:10/08/2020

2023/01223 ~ Complete ~54:SYNTHESIS OF QUINAZOLINE COMPOUNDS ~71:F. HOFFMANN-LA ROCHE
AG, Grenzacherstrasse 124, 4070, Basel, Switzerland;GENENTECH, INC., 1 DNA Way, South San Francisco,
California, 94080-4990, United States of America ~72: ANTONIO GIOVANNI DIPASQUALE;ETIENNE
TRACHSEL;FRANCIS GOSSELIN;HAIMING ZHANG;JACOB C TIMMERMAN;JEFF SHEN;JIE XU;KYLE
BRADLEY PASCUAL CLAGG;LAUREN ELIZABETH SIROIS;NGIAP-KIE LIM;NICHOLAS ANDREW
WHITE;RAPHAEL BIGLER;ROLAND CHRISTOPH MEIER;STEPHAN BACHMANN;UGO JONATHAN ORCEL~
33:US ~31:63/064,746 ~32:12/08/2020

2023/01224 ~ Complete ~54:ANTI-CD93 CONSTRUCTS AND USES THEREOF ~71:DYNAMICURE
BIOTECHNOLOGY LLC, One Broadway 14FL, Cambridge, Massachusetts 02142, United States of America ~72:
ANGELA NORTON;GREGORY JONES;JIAN LI;LIHUA WU;ROXANN GUERRETTE;SHIGERU
KOMABA;ZHINAN XIA;ZIRONG CHEN~ 33:US ~31:63/058,359 ~32:29/07/2020;33:US ~31:63/084,474
~32:28/09/2020;33:US ~31:PCT/US2021/035542 ~32:02/06/2021

2023/01225 ~ Complete ~54:COMPOUNDS AS C5AR INHIBITORS ~71:KIRA PHARMACEUTICALS (SUZHOU)
LTD., 507 A4 218 Xinghu Street, Suzhou Industrial Park, Suzhou, Jiangsu, 215000, People's Republic of China
~72: GONGHUA PAN;XIHUA ZHU;YINGJIE ZHU~ 33:CN ~31:PCT/CN2020/107800 ~32:07/08/2020

2023/01169 ~ Complete ~54:TUNNEL CONSTRUCTION METHOD FOR WATER-RICH FAULT FRACTURE
ZONE ~71:China Railway 16th Bureau Group No.1 Engineering Co., Ltd., B-013, No. 1, Shunchang Avenue,
Nanfaxin Town, Shunyi District, Beijing, 101300, People's Republic of China ~72: CHEN, Mingyang;GAO,
Shiwei;LU, Qingzhao;SUO, Tong;WANG, Guoqiang;WU, Tianhua;WU, Wensheng;ZHANG, Shuailong;ZHENG,
Xingli;ZHU, Guanglei~ 33:CN ~31:202211624461.7 ~32:16/12/2022

2023/01174 ~ Complete ~54:METHOD FOR RECODING ULTRA-HIGH-DEFINITION DIGITAL IMAGE ONTO
MICROFILM ~71:BEIJING DASHENFENGHUA TECHNOLOGY CO., LTD., Room 406-2, Building 5, Yard 98,
Lianshihu West Road, Mentougou District, Beijing, 102308, People's Republic of China ~72: BAI, Wei;LIU,
Shangyuan;LIU, Wei~

2023/01162 ~ Provisional ~54:A SEALING DEVICE ~71:VAN DEN BERG, Jan, Dirk, Johannes, 22 CYPRESS
CRESCENT, JIM FOUCHEPARK, WELKOM, SOUTH AFRICA, South Africa ~72: VAN DEN BERG, Jan, Dirk,
Johannes~

2023/01165 ~ Provisional ~54:SLINGSHOT ~71:ANTON DE VILLIERS, 9 EUFEES AVE, South Africa ~72: Anton
de Villiers~

2023/01185 ~ Complete ~54:TRACTOR FOR TELESCOPIC DEVICE OF BELT CONVEYOR ~71:Ningxia Tiandi
Northwest Coal Machinery Co. , Ltd., Dawukou Industrial Park, Shizuishan City, Ningxia Hui Autonomous Region,

People's Republic of China ~72: FENG Baozhong;HOU Hongwei;LAN Chunsen;MA Liwei;MA Yupeng;MAI Lin;TONG Jianzhong;WANG Hao;WANG Ning;WANG Xinghong;YANG Hai;YANG Jie;YANG Ping;ZHANG Cheng~

2023/01187 ~ Complete ~54:METHOD FOR STABILIZING THALLIUM-CONTAINING SLUDGE ~71:South China University of Technology, 382 Waihuan Road East, Guangzhou Higher Education Mega Centre, Guangzhou, Guangdong province, 510006, People's Republic of China ~72: Ke Yong;Li Jie;Li Xiaoqin;Lin Zhang;Liu Weizhen;Wang Yunyan~ 33:CN ~31:202210964379.2 ~32:11/08/2022

2023/01191 ~ Complete ~54:AIR PURIFIER FOR EFFECTIVELY REMOVING INDOOR VOLATILE ORGANIC POLLUTANTS AND PREPARATION METHOD THEREOF ~71:SOUTHWEST FORESTRY UNIVERSITY, No.300 Bailongsi Rd.,Panlong District, Kunming, Yunnan, People's Republic of China ~72: BAO Yabo;CUI Daolei;PENG Wuguang;XIANG Ping;YANG Ziyue~

2023/01197 ~ Complete ~54:PLANTING METHOD FOR COTTON-RAPE ROTATION IN CADMIUM METAL POLLUTED SOIL ~71:Anxiang County Agriculture and Rural Bureau, About 190 meters to the south of Golden Home, Huijin International City, Liu#39;an Road, Anxiang County, Changde City, Hunan Province, People's Republic of China;Hunnan Cotton Science Institute, No. 3036 Shanjuan Road, Dingcheng District, Changde City, Hunan Province, People's Republic of China ~72: He Shun;Kuang Zhengcheng;Li Caihong;Li Fei;Mei Zhengding;Shi Dazhi;Xiao Caisheng~

2023/01201 ~ Complete ~54:DISPLAY DEVICE WITH PROTECTION FUNCTION ~71:ANIMAL HUSBANDRY AND VETERINARY BRANCH OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, SCIENTIFIC RESEARCH STREET, People's Republic of China;INSTITUTE OF AGRICULTURAL REMOTE SENSING AND INFORMATION, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368 XUEFU ROAD, People's Republic of China ~72: CHEN, Guowang;DONG, Zhengde;GUO, Lihong;HAN, Dong;JIANG, Ying;LIU, Kebao;NAN, Jingdong;QI, Xinyu;WANG, Jingyuan;ZHANG, Haifeng;ZHANG, Jiansheng;ZHAO, Xiaochuan~

2023/01206 ~ Complete ~54:A NOVEL DETERMINISTIC METHODOLOGY TO SOLVE THE SCHEDULING PROBLEM IN CPU/FPGA BASED HETEROGENEOUS ARCHITECTURE ~71:DAS, Nitish, PLOT-26, STREET-6 PANCHSHEEL, B-SECTOR, BORSI DURG, CHHATTISGARH, 491001, India;NEMADE, Chetana Hemant, DEPARTMENT OF COMPUTER ENGINEERING, MIT ACADEMY OF ENGINEERING, PUNE, MAHARASHTRA, India;SAJJAN, Rajani, 47, RAJESHWARI NAGAR, NEAR SIDDHARUDH MATH, JULE SOLAPUR, SOLAPUR, MAHARASHTRA, 413004, India;VHARKATE, Minakshi N., DEPARTMENT OF COMPUTER ENGINEERING, MIT ACADEMY OF ENGINEERING, PUNE, MAHARASHTRA, India ~72: DAS, Nitish;NEMADE, Chetana Hemant;SAJJAN, Rajani;VHARKATE, Minakshi N.~

2023/01210 ~ Complete ~54:METHOD FOR GENERATING AN ADJUSTMENT ENERGY-EFFICIENT TRACK ~71:"OMNICOMM ONLINE" LIMITED LIABILITY COMPANY, Ul. Butyrskiy Val, D. 68/70, Str. 1, ET 4 KOM 97, Moscow, 127055, Russian Federation ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2021128642 ~32:01/10/2021;33:RU ~31:2021128643 ~32:01/10/2021;33:RU ~31:2021128644 ~32:01/10/2021;33:RU ~31:2021128645 ~32:01/10/2021

2023/01218 ~ Complete ~54:METHOD FOR PROMOTING GROWTH OF ROOT TUBERS OF RHIZOME-TYPE MEDICINAL MATERIALS IN PLANT FACTORIES ~71:FUJIAN SANAN SINO-SCIENCE PHOTOBIOTECH CO., LTD, Optoelectronics Industrial Park, Hengshan Village, Hutou Town, Anxi County, Quanzhou City, Fujian, 362411, People's Republic of China ~72: LI, Yang;WANG, Tingting~ 33:CN ~31:202010758468.2 ~32:31/07/2020

2023/01226 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING VIRAL INFECTIONS
~71:AADIGEN, LLC, 1343 Luna Vista Drive, Pacific Palisades, California, 90272, United States of America ~72:
GILLES DIVITA;NEIL P DESAI~ 33:FR ~31:FR2007849 ~32:24/07/2020

2023/01228 ~ Complete ~54:MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE
REGULATOR ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston,
Massachusetts, 02210, United States of America ~72: BRETT C BOOKSER;CLAUDIO STURINO;JEREMY J
CLEMENS;JINGLAN ZHOU;JULIE LATERREUR;LINO VALDEZ;MARK THOMAS MILLER;MICHEL
GALLANT;MINSON BAEK;PETER (DECEASED) GROOTENHUIS;PRASUNA PARASELLI;SARA SABINA
HADIDA RUAH;THOMAS CLEVELAND;THUMKUNTA JAGADEESWAR REDDY;TIMOTHY R COON;VITO
MELILLO;WILLIAM SCHULZ BECHARA;YEEMAN K RAMTOHUL~ 33:US ~31:63/063,194 ~32:07/08/2020

2023/01175 ~ Complete ~54:NUTRITIONAL PASTE BENEFICIAL TO ENHANCING IMMUNITY AND
PREPARATION METHOD THEREOF ~71:SINO-AGRI Pet Nutrition Research Institute (Jiangsu) Co., Ltd., Room
213, Building B, Public Innovation Platform, Nanjing National Agricultural Innovation Park, Jiangpu Street, Pukou
District, Nanjing City, Jiangsu Province, 211800, People's Republic of China ~72: MA, Dongli;MO, Ruixia;WANG,
Haotian;WU, Yi;ZHANG, Mingrui;ZHOU, Weiwei~

2023/01181 ~ Complete ~54:METHOD FOR PROCESSING FOOD BY FERMENTATION OF GANODERMA
LUCIDUM IN GRAIN ~71:Tianjin Academy of Agricultural Sciences, No. 268, Baidi Road, Nankai District, Tianjin,
300190, People's Republic of China ~72: CHEN, Xiaoming;DING, Shu;FANG, Jun;LI, Fengmei;LI, Shufang;LIU,
Lianqiang;LUO, Ying;WANG, Wenzhi;ZHANG, Yang;ZHANG, Zhijun;ZHOU, Yongbin;ZI, Huijun~

2023/01183 ~ Complete ~54:RAPID OFFLINE LOCALIZATION FINGERPRINT DATABASE CONSTRUCTION
AND LOCALIZATION METHOD ~71:China University of Mining and Technology, No. 1, Daxue Road, Xuzhou
City, Jiangsu Province, 221008, People's Republic of China ~72: CAO, Xiaoxiang;CHEN, Guoliang~

2023/01189 ~ Complete ~54:CULTIVATION METHOD FOR COTTON CENTRALIZED BOLL OPENING AND
HARVESTING ~71:Anxiang County Agriculture and Rural Bureau, About 190 meters to the south of Golden
Home, Huijin International City, Liu'an Road, Anxiang County, Changde City, Hunan Province, People's
Republic of China;Hunnan Cotton Science Institute, No. 3036 Shanjuan Road, Dingcheng District, Changde City,
Hunan Province, People's Republic of China ~72: Guo Lili;He Shun;Li Caihong;Li Fei;Mei Zhengding;Shi
Dazhi;Xiao Caisheng~

2023/01192 ~ Complete ~54:V-SHAPED GROOVE MOS STRUCTURE WITH HAFNIUM OXIDE MATERIAL AS
GATE DIELECTRIC LAYER AND PREPARATION METHOD THEREOF ~71:Zhejiang Xinke Semiconductor Co.,
Ltd., Room 706, Building 23, No. 68, Jiangnan Road, Chunjiang Street, Fuyang District, Hangzhou, Zhejiang
Province, 310000, People's Republic of China ~72: LEI, Jianpeng;LI, Jingbo;WANG, Xiaozhou~ 33:CN
~31:202210338996.1 ~32:01/04/2022

2023/01195 ~ Complete ~54:METHODS FOR DE NOVO PROTEIN SEQUENCING ~71:REGENERON
PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: MAO,
Yuan~ 33:US ~31:62/719,292 ~32:17/08/2018

2023/01199 ~ Complete ~54:OPIOID GROWTH FACTOR RECEPTOR (OGFR) ANTAGONISTS, IN
PARTICULAR NALOXONE AND/OR NALTREXONE FOR TREATING CANCER ~71:ZETAGEN
THERAPEUTICS, INC., 841 E Fayette St., Ste. 1100, Syracuse, New York, 13210, United States of America ~72:
BRYAN S MARGULIES;NIKHIL A THAKUR~ 33:US ~31:62/874,037 ~32:15/07/2019

2023/01204 ~ Complete ~54:BEAR MACHINE FOR PRECISION INSTRUMENT ~71:Jiangsu College Of Safety Technology, No. 1, Yucai Road, Jiawang District, Xuzhou City, Jiangsu Province, 221000, People's Republic of China ~72: Jiang Yuchan~

2023/01212 ~ Complete ~54:PH-REGULATED TOTAL MIXED FERMENTED FEED AND PREPARATION METHOD THEREOF ~71:YANBIAN UNIVERSITY, No. 977, Gongyuan Road, Yanji City, Yanbian Korean Autonomous Prefecture, Jilin, 133002, People's Republic of China ~72: CAI, Hongfan;HE, Jiaoyang;LI, Guangchun;YAN, Changguo~

2023/01213 ~ Complete ~54:CEREAL CARBOHYDRATE MATRIX FOR USE IN FOOD FOR SPECIAL MEDICAL PURPOSE AND PREPARATION METHOD FOR MATRIX ~71:SERICULTURE AND AGRI-FOOD RESEARCH INSTITUTE GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, No. 133 Dongguan Zhuang Yiheng Road,, Tianhe District,, Guangzhou,, Guangdong, 510610, People's Republic of China ~72: CHI, Jianwei;DONG, Lihong;HUANG, Fei;JIA, Xuchao;LIU, Lei;MA, Qin;MA, Yongxuan;ZHANG, Mingwei;ZHANG, Ruifen;ZHAO, Dong~ 33:CN ~31:202010818061.4 ~32:14/08/2020

2023/01215 ~ Complete ~54:USE OF TRIFLOXYSTROBIN FOR PREVENTION AND TREATMENT OF AGRICULTURAL PEST INSECTS AND MITES ~71:SHANDONG UNITED PESTICIDE INDUSTRY CO., LTD., Building 1, Middle Shengli Road, Daxin Village, Fan Town, Daiyue District, Taian, People's Republic of China ~72: CHI, Huiwei;HAN, Jun;LI, Dongrong;TANG, Jianfeng;WANG, Dandan;WU, Jianting;XU, Longxiang;YUAN, Xue;ZHAO, Gongwen~ 33:CN ~31:202010622002.X ~32:01/07/2020

2023/01216 ~ Complete ~54:SULFENTRAZONE COMPOSITION IN MICROEMULSION FORM ~71:SURCOS IMPACT, 89b, Rue Pafebruch, Luxembourg ~72: GALAN ROMANO, Felix Silvestre~ 33:AR ~31:P20200102138 ~32:30/07/2020

2023/01230 ~ Complete ~54:DETERGENT GRANULE ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: XU, Dan;ZHAO, Yue~

2023/01234 ~ Complete ~54:ARMED NK CELLS FOR UNIVERSAL CELL THERAPY ~71:Centre Hospitalier Universitaire de Montpellier (CHUM), Centre Administratif Andr#233; Bénech, 191 Avenue du Doyen Gaston Giraud, MONTPELLIER 34295, CEDEX 5, FRANCE, France;ICM (Institut de Cancerologie de Montpellier), 208 rue des Apothicaires, MONTPELLIER 34298, CEDEX 5, FRANCE, France;Institut National de la Sante et de la Recherche Medicale (INSERM), 101 rue de Tolbiac, PARIS 75654, FRANCE, France;Universite de Montpellier, 163 rue Auguste Broussonet, MONTPELLIER 34090, FRANCE, France ~72: HERNANDEZ, Francisco Javier;JORGENSEN, Christian;MARTINEAU, Pierre;PRESUMEY, Jessy;ROBERT, Bruno;VILLALBA, Martin~ 33:FR ~31:FR2008211 ~32:31/07/2020

2023/01172 ~ Complete ~54:NOVEL ANGELICA SINENSIS SEEDLING MEDIUM ~71:Dingxi Academy of Agricultural Sciences, No. 16, Yongding West Road, Anding District, Dingxi City, Gansu Province, 743000, People's Republic of China ~72: FENG, Mei;LI, Li;LIU, Lili;PAN, Xiaochun;SHI, Lili;WANG, Fusheng;WANG, Wenjuan;WEN, Yinhu;YANG, Rongzhou;ZHANG, Haijie;ZHANG, Ming~

2023/01227 ~ Complete ~54:SCALABLE SYNTHETIC ROUTE FOR PSILOCIN AND PSILOCYBIN ~71:MINDSET PHARMA INC., 217 Queen Street West, Suite 401 Toronto, Ontario, M5V 0R2, Canada ~72: ABDELMALIK SLASSI;JOSEPH ARAUJO~ 33:US ~31:63/056,058 ~32:24/07/2020

2023/01232 ~ Complete ~54:AEROSOL GENERATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;SOFTE, Joanna~ 33:GB ~31:2012747.8 ~32:14/08/2020

2023/01163 ~ Provisional ~54:DETERRENT STRUCTURE ~71:COCHRANE USA INC., 3551 Lee Hill, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2023/01235 ~ Complete ~54:GENE THERAPIES FOR LYSOSOMAL DISORDERS ~71:Prevail Therapeutics, Inc., 430 East 29th Street, Suite 940, NEW YORK 10016, NY, USA, United States of America ~72: ABELIOVICH, Asa;LEWIS, Travis;SEVIGNY, Jeffrey;USPENSKAYA, Olga~ 33:US ~31:63/063,851 ~32:10/08/2020

2023/01164 ~ Provisional ~54:TRACKING ARRANGEMENT ~71:ALLEN, Keith Richard, c/o eSwatini Wire Industries, First Avenue, Plot 224, Matsapha Industrial Site, MATSAPHA M202, Manzini, THE KINGDOM OF ESWATINI, Swaziland;SIBANDZE, Bonginkosi, 13 Inyanga Residential, 5 Simba Road, SUNNINGHILL 2191, Gauteng, SOUTH AFRICA, South Africa;SIBANDZE, Musa M., Lot No. 173 Tubungu Township, MATSAPHA, THE KINGDOM OF ESWATINI, Swaziland;SIBANDZE, Thembinkosi, 13 Inyanga Residential, 5 Simba Road, SUNNINGHILL 2191, Gauteng, SOUTH AFRICA, South Africa;SIMELANE, Mbongwa, Plot 709, 3rd Street, MATSAPHA, THE KINGDOM OF ESWATINI, Swaziland ~72: ALLEN, Keith Richard;SIBANDZE, Bonginkosi;SIBANDZE, Musa M.;SIBANDZE, Thembinkosi;SIMELANE, Mbongwa~

2023/01167 ~ Complete ~54:METHOD AND SYSTEM FOR BUILDING USER-LEVEL THREAD MANAGEMENT ENVIRONMENT ~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~

2023/01176 ~ Complete ~54:THREE-DIMENSIONAL VIBRATORY COMPACTION-BASED CASTING PLATFORM FOR HYDRAULIC SUPPORT ~71:Anhui University of Science and Technology, No. 168, Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China;Yangtze Normal University, No. 16, Juxian Avenue, Fuling District, Chongqing, 408100, People's Republic of China ~72: HUANG, Jiangbo;WANG, Chengjun;YAO, Zhenghua;ZHANG, Lin~

2023/01178 ~ Complete ~54:PREPARATION METHOD OF POLYVINYL ALCOHOL WITH LOW POLYMERIZATION DEGREE BY SURFACTANT-FREE EMULSION POLYMERIZATION ~71:Guang'an Vocational And Technical College, No. 98, Binjiang East Road, Guang'an District, Guang'an City, Sichuan Province, 638000, People's Republic of China;Sichuan Polyseed Polymer Materials Co., Ltd., Building C3, Industrial New Town, Huaying City, Sichuan Province, 638604, People's Republic of China ~72: DU, Jingjing;LI, Yuanpeng;PU, Taohong;TANG, Liping;WU, Xun~

2023/01179 ~ Complete ~54:FRUITING METHOD OF PLEUROTUS NEBRODENSIS ~71:Tianjin Academy of Agricultural Sciences, No. 268, Baidi Road, Nankai District, Tianjin, 300190, People's Republic of China ~72: CHEN, Xiaoming;DAI, Jianliang;FANG, Jun;LI, Fengmei;LI, Shufang;LIU, Lianqiang;LUO, Ying;WANG, Wenzhi;ZHANG, Zhijun;ZHOU, Yongbin;ZI, Huijun~

2023/01180 ~ Complete ~54:METHOD FOR PREPARING STARTER CULTURE FOR DEGRADING MUSHROOM BRAN OF EDIBLE MUSHROOMS UTILIZING MICROFLORA OF EARTHWORMS ~71:Tianjin Academy of Agricultural Sciences, No. 268, Baidi Road, Nankai District, Tianjin, 300190, People's Republic of China ~72: CHEN, Xiaoming;LI, Fengmei;LI, Shufang;LIU, Lianqiang;LUO, Ying;SUN, Yutao;ZHANG, Yang;ZHANG, Zhijun;ZHOU, Yongbin;ZI, Huijun~

2023/01184 ~ Complete ~54:SMART DORMITORY SAFETY MANAGEMENT SYSTEM ~71:TANGSHAN MARITIME INSTITUTE, No. 27 Xingzhi Road, Caofeidian New Town, Caofeidian District, Tangshan City, Hebei Province, 063200, People's Republic of China ~72: CHEN, Jianzhi;CHEN, Jie;LIU, Rongshuai;LIU, Weiqing;LIU, Xiaoyu;LIU, Yang;WEI, Xianghui;ZHANG, Jingdi~

2023/01188 ~ Complete ~54:GARMENT IRONING AND SETTING DEVICE ~71:University of Jinan, No.336 Nanxinzhuang West Road, Jinan City, Shandong Province, People's Republic of China ~72: SU Beile;WU Wei~ 33:CN ~31:202211686410.7 ~32:26/12/2022

2023/01193 ~ Complete ~54:METHOD FOR DETERMINING CRITICAL CATASTROPHIC DISTANCE OF TUNNEL BASED ON CATASTROPHE THEORY ~71:China Railway 16th Bureau Group No.1 Engineering Co., Ltd., B-013, No. 1, Shunchang Avenue, Nanfaxin Town, Shunyi District, Beijing, 101300, People's Republic of China ~72: DU, Xinghui;GAO, Shiwei;LI, Chunpeng;LU, Qingzhao;YANG, Jiagui;YANG, Lihui;YANG, Wenzhi;ZHANG, Cheng;ZHAO, Boqiang;ZHU, Guanglei~ 33:CN ~31:202211637513.4 ~32:16/12/2022

2023/01194 ~ Complete ~54:PRESERVED ETHERIFIED CYCLODEXTRIN DERIVATIVES CONTAINING LIQUID AQUEOUS PHARMACEUTICAL COMPOSITION ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: AVEN, Michael;LUKAS, Tim~ 33:EP ~31:13177268.3 ~32:19/07/2013

2023/01205 ~ Complete ~54:A NOVEL DETERMINISTIC METHODOLOGY TO SOLVE THE MULTIPLE TASK ASSIGNMENT PROBLEM ~71:DAS, Nitish, PLOT-26, STREET-6 PANCHSHEEL, B-SECTOR, BORSI DURG, CHHATTISGARH, 491001, India;GHODKE, Sanjay S., FLAT NO 102 B TULASI VANDAN SECTOR 6, NEAR JALVAYU VIHAR, MOSHI PRADHIKARAN, PUNE, MAHARASHTRA, 412105, India;SAJJAN, Rajani, 47, RAJESHWARI NAGAR, NEAR SIDDHARUDH MATH, JULE SOLAPUR, SOLAPUR, MAHARASHTRA, 413004, India;VHARKATE, Minakshi N., DEPARTMENT OF COMPUTER ENGINEERING, MIT ACADEMY OF ENGINEERING, PUNE, MAHARASHTRA, India ~72: DAS, Nitish;GHODKE, Sanjay S.;SAJJAN, Rajani;VHARKATE, Minakshi N.~

2023/01209 ~ Complete ~54:WALL-ARRANGED GIANT RING-SHAPED DIRECT-CURRENT PULVERIZED COAL BURNER ~71:SHANGHAI JIAO TONG UNIVERSITY, 800 Dongchuan Road, Minhang District, Shanghai, 200240, People's Republic of China ~72: LI, Zixiang;MIAO, Zhengqing~ 33:CN ~31:202010772928.7 ~32:04/08/2020;33:CN ~31:202021591602.6 ~32:04/08/2020

2023/01229 ~ Complete ~54:PROCESSES FOR UPGRADING ALKANES AND ALKYL AROMATIC HYDROCARBONS ~71:ExxonMobil Chemical Patents Inc., 5200 Bayway Drive, BAYTOWN 77520, TX, USA, United States of America ~72: BAO, Xiaoying;COLEMAN, John S.~ 33:US ~31:63/062,084 ~32:06/08/2020

2023/01236 ~ Complete ~54:AEROSOL GENERATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;CROSS, Jennifer~ 33:GB ~31:2013212.2 ~32:24/08/2020

2023/01231 ~ Complete ~54:SUPERANTIGEN CONJUGATE FOR USE IN METHODS AND COMPOSITIONS FOR TREATING CANCER ~71:NeoTX Therapeutics Ltd., 2 Pekeris Street, REHOVOT 7670202, ISRAEL, Israel ~72: AZULAY, Meir;NATHAN, Asher;SHAHAR, Michal~ 33:US ~31:63/053,859 ~32:20/07/2020

2023/01237 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF METABOLIC SYNDROME ~71:Dicerna Pharmaceuticals, Inc., 75 Hayden Avenue, LEXINGTON 02421, MA, USA, United States of America ~72: ABRAMS, Marc;BASURAY, Soumik;WONDIMU, Elisabeth~ 33:US ~31:63/061,045 ~32:04/08/2020;33:US ~31:63/082,762 ~32:24/09/2020

2023/01161 ~ Provisional ~54:CABLE CLAMP AND ATTACHMENT MEANS ~71:PIMMS Group (Pty) Ltd, 1050 Liner Ave, Corner Zeiss Rd, Laser Park, Honeydew, South Africa ~72: Johannes Gerhardus Thomas Fritz~

2023/01173 ~ Complete ~54:PLANTING METHOD FOR IMPROVING SURVIVAL RATE OF MALANIA OLEIFERA ~71:Southwest Forestry University, Southwest Forestry University, 300 Bailongsi,, Kunming,, Yunnan Province, 650224, People's Republic of China ~72: CHEN, Wandong;PAN, Yue;PU, Tian;WANG, Juan~

2023/01177 ~ Complete ~54:CIRCULATING WATER TREATMENT DEVICE FOR AQUACULTURE ~71:Huancui District Marine Development Research Center, No. 68, Yugang Road, Weihai City, Shandong Province, 264200, People's Republic of China;Rushan Marine Economic Development Center, No. 4, Fuqian Road, Rushan City, Weihai City, Shandong Province, 264500, People's Republic of China;Rushan Marine and Fishery Supervision Brigade, No. 4, Fuqian Road, Rushan City, Weihai City, Shandong Province, 264500, People's Republic of China ~72: LIU, Haoming;PAN, Yulan;SHAN, Xiaoluan~

2023/01202 ~ Complete ~54:ROTATING PLACING DEVICE FOR SHEEP ~71:ANIMAL HUSBANDRY AND VETERINARY BRANCH OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, SCIENTIFIC RESEARCH STREET, People's Republic of China;INSTITUTE OF AGRICULTURAL REMOTE SENSING AND INFORMATION, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368 XUEFU ROAD, People's Republic of China ~72: CHEN, Guowang;DONG, Zhengde;FU, Bin;GUO, Lihong;HAI, Long;JIANG, Ying;LIN, Qingjuan;LIU, Yufeng;NAN, Jingdong;YANG, Zhao;YOU, Haiyang;ZHANG, Haifeng;ZHANG, Jiansheng~

2023/01207 ~ Complete ~54:A MOBILE CONTROLLABLE ELECTRIC LOCK USING ARDUINO ~71:DR. VISHWANATH KARAD MIT-WORLD PEACE UNIVERSITY, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;HAMBARDE, Kaustubh Manojkumar, D3/301, SWAPNA NAGARI, UYDAM NAGAR, NEAR TELCO ROAD, OPP.ANNASHAHEB MAGAR STADIUM, PIMPRI, PUNE, 411018, India;INGAVALE, Aniket Suresh, B-703, ASTER MYRAH, BEHIND DHARMAVAT PETROL PUMP, PISOLI, PUNE, 411060, India;KINGER, Shakti Sanjay, MIT WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India ~72: HAMBARDE, Kaustubh Manojkumar;INGAVALE, Aniket Suresh;KINGER, Shakti Sanjay~

2023/01220 ~ Complete ~54:SYNTHESIS OF HETEROCYCLIC COMPOUNDS FROM CARBOXAMIDE AND CARBOXAMIDE DERIVATIVES WITH HALOALKANOLS ~71:UNIVERSITY OF KWAZULU-NATAL, Office of Registrar, University Road, Chiltern Hills, Westville, 3629, KwaZulu-Natal, South Africa ~72: NISAR SAYYAD;RAJSHEKHAR KARPOORMATH~ 33:IN ~31:202021031239 ~32:21/07/2020

2023/01168 ~ Complete ~54:PREPARATION METHOD OF TRICHODERMA BIOCONTROL GRANULES BASED ON SORGHUM GRAIN CARRIERS ~71:Shanghai Jiao Tong University, No. 800 Dongchuan Road, Minhang District, Shanghai, 200000, People's Republic of China ~72: CHEN, Jie;LI, Yaqian;LIN, Zhenya;SUN, Ruiyan;YI, Siyao~

2023/01182 ~ Complete ~54:CULTIVATION METHOD OF PLEUROTUS MUSHROOM ~71:Tianjin Academy of Agricultural Sciences, No. 268, Baidi Road, Nankai District, Tianjin, 300190, People's Republic of China ~72: CHEN, Long;CHEN, Xiaoming;LI, Fengmei;LI, Shufang;LIU, Lianqiang;LUO, Ying;WANG, Mei;WANG, Wenzhi;ZHANG, Yang;ZHANG, Zhijun;ZHOU, Yongbin;ZI, Huijun~

2023/01186 ~ Complete ~54:METHOD FOR PREPARING METALLIC ANTIMONY BY MICROWAVE DIRECT REDUCTION OF ANTIMONY OXIDE POWDER ~71:Yunnan Minzu University, No.2929 Yuehua Street, Chenggong District, Kunming City, Yunnan Province, People's Republic of China ~72: GAO Jiyun;JIA Lijuan;LI Lingbo;LIU Chenhui;WANG Fang;WANG Yongli;ZHU Xiongjin~ 33:CN ~31:202210121830.4 ~32:09/02/2022

2023/01190 ~ Complete ~54:PREDICTION MODEL CONSTRUCTION METHOD FOR PREDICTING SECONDARY DELIRIUM IN ELDERLY SEPSIS PATIENTS ~71:Peking Union Medical College Hospital, Chinese Academy of Medical Sciences, No.1 Shuaifuyuan, Wangfujing, Dongcheng District, Beijing, People's Republic of China ~72: Cheng Wei;Cui Na;Du Bin;Li DongKai;Li ZunZhu;Long Yun;Luo HongBo;Zhang JiaHui~

2023/01196 ~ Complete ~54:A RECIPROCATING COMPRESSOR BEARING FAULT FEATURE EXTRACTION METHOD ~71:Shenyang Ligong University, No.6 Nanping Zhong Road, Hunnan District, Shenyang City, Liaoning

Province, 110159, People's Republic of China ~72: Jiawen CHEN;Shihu WU;Xinjie YANG;Ying LI;Yunjie PAN~ 33:CN ~31:202210379488.8 ~32:12/04/2022

2023/01198 ~ Complete ~54:METHOD OF TREATING DISEASES ~71:AMRYT ENDO, INC., 1209 Orange Street, Wilmington, New Castle County, Delaware, 19801, United States of America ~72: RONI MAMLUK~ 33:US ~31:62/111,369 ~32:03/02/2015;33:US ~31:62/136,012 ~32:20/03/2015

2023/01200 ~ Complete ~54:DEVICE FOR MEASURING SAND COLLECTION AMOUNT IN 16 WIND AZIMUTHS ~71:INSTITUTE OF WATER RESOURCES FOR PASTORAL AREA, MWR, NO. 128, UNIVERSITY EAST STREET, People's Republic of China ~72: ABIAS;CHENG, Bo;LI, Hongfang;LI, Jinrong;LIU, Hu;MIAO, Henglu;RONG, Hao;WANG, Jian~ 33:CN ~31:202210188752.X ~32:28/02/2022

2023/01214 ~ Complete ~54:METHOD FOR EVALUATING TRACEABILITY VALIDITY AND INTERCHANGEABILITY OF PROTEIN IN IMMUNOASSAY ~71:NATIONAL INSTITUTE OF METROLOGY, CHINA, 18, Beisanhuandonglu, Chaoyang District, Beijing, 100013, People's Republic of China ~72: HU, Tingting;JIN, Youxun;LIU, Yahui;WU, Liqing~ 33:CN ~31:202010648589.1 ~32:07/07/2020

2023/01217 ~ Complete ~54:ANTIVIRAL PHARMACEUTICAL COMPOSITION COMPRISING AT LEAST ONE SULPHATE POLYSACCHARIDE ~71:MARINOMED BIOTECH AG, Hovengasse 25, Austria ~72: GRAF, Philipp;GRASSAUER, Andreas;MOROKUTTI-KURZ, Martina;PRIESCHL-GRASSAUER, Eva~ 33:EP ~31:20186334.7 ~32:16/07/2020

2023/01222 ~ Complete ~54:GRANULATED EXPLOSIVE BASED ON A WATER-IN-OIL EMULSION, AND PRODUCTION AND USE THEREOF ~71:MSW-CHEMIE GMBH, Seesener Straße 19, 38685, Langelshelm, Germany ~72: FREDERIK FLACH;RÜDIGER TRIEBEL~ 33:DE ~31:10 2020 004 567.7 ~32:28/07/2020

2023/01233 ~ Complete ~54:PROCESS FOR PREPARATION OF SUBSTITUTED PYRAZOLES ~71:Adama Makhteshim Ltd., P.O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: CHEN , Bob;LI, Jie;YACOVAN, Avihai~ 33:US ~31:63/069,539 ~32:24/08/2020

2023/01166 ~ Complete ~54:A TARGET ASSIGNMENT METHOD FOR SPACECRAFT GROUP COUNTERMEASURES BASED ON DECISION TREE SEARCH ~71:Central South University, No. 932, Lushan South Road, Changsha City, Hunan Province, 410083, People's Republic of China ~72: Jian DAI;Peng LI;Qifeng CHEN;Yunhe MENG;Ziyuan ZOU~ 33:CN ~31:202210455564.9 ~32:24/04/2022

- APPLIED ON 2023/01/31 -

2023/01240 ~ Provisional ~54:PLANT-BASED BIOMATERIAL SCAFFOLD ~71:RHODES UNIVERSITY, Drosty Road, South Africa ~72: ABRAHAMS, Garth;MAMPHEY, Nicole;PRINSLOO, Earl~

2023/01242 ~ Provisional ~54:DEEP LEARNING ARTIFICIAL INTELLIGENCE CELLULAR 4G CELL PHONE DATA SMART TELEVISION WITH BUILT-IN CAMERA ~71:Ahmed Waseef Saib, 24 Park Avenue, Desainagar, Tongaat beach, South Africa ~72: Ahmed Waseef Saib~

2023/01244 ~ Complete ~54:PREPARATION METHOD AND APPLICATION METHOD FOR CHILLED MEAT PRESERVATIVE ~71:Institute of Microbiology, Jiangxi Academy of Sciences, No. 7777, Changdong Avenue, Nanchang City, Jiangxi Province, 330096, People's Republic of China ~72: GU, Bintao;HUANG, Guochang;HUANG, Xiaoping;XIONG, Dawei;YUAN, Lin;ZHANG, Shuaiwen~

2023/01257 ~ Complete ~54:A COMPOSITION FOR IMPROVING RENAL INSUFFICIENCY, BLACK GINSENG EXTRACT AND ITS PREPARATION METHOD AND APPLICATION ~71:Yanbian University, No. 977, Gongyuan

Road, Yanji City, Jilin Province, 133002, People's Republic of China ~72: Cheng LI;Jianpeng GUO;Rihui LI;Xiaoting LI;Xinyue ZHANG;Yan ZHENG;Yanze ZHENG;Yuling WANG;along ZUO~

2023/01267 ~ Complete ~54:S100 PROTEINS AS NOVEL THERAPEUTIC TARGETS IN MYELOPROLIFERATIVE NEOPLASMS ~71:ERASMUS UNIVERSITY MEDICAL CENTER ROTTERDAM, Dr. Molewaterplein 50, 3015, GE Rotterdam, Netherlands ~72: REBEKKA KATHARINA MARITA SCHNEIDER-KRAMANN~ 33:EP ~31:20187323.9 ~32:23/07/2020

2023/01270 ~ Complete ~54:OPTOMECHANICAL METHOD TO MEASURE ARTERIAL PULSE AND ASSESS CARDIOPULMONARY HEMODYNAMICS ~71:DYNOCARDIA, INC., One Broadway, CIC Cambridge, Massachusetts, 02142, United States of America ~72: ABHIJIT BISWAS;EDWARD H ADELSON;MOHAN THANIKACHALAM~ 33:US ~31:63/063,482 ~32:10/08/2020

2023/01281 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING *PLP1* EXPRESSION ~71:Dicerna Pharmaceuticals, Inc., 75 Hayden Avenue, LEXINGTON 02421, MA, USA, United States of America ~72: BROWN, Bob Dale;CHANGELIAN, Armen;JUNG, Maire;ZHANG, Chunyang~ 33:US ~31:63/061,040 ~32:04/08/2020;33:US ~31:63/151,445 ~32:19/02/2021

2023/01286 ~ Complete ~54:P53 POST-TRANSLATIONAL MODIFICATIONS AS MARKERS IN THE DIAGNOSIS AND PROGNOSIS OF A NEURODEGENERATIVE DISEASE ~71:DIADEM S.p.A., Via Ceresio, 7, Milano, 20154, Italy ~72: PICCIRELLA, Simona;UBERTI, Daniela Letizia~ 33:IT ~31:10202000018544 ~32:20/07/2020

2023/01268 ~ Complete ~54:ROTATABLE RETAINER FOR HINGE RODS ~71:LAITRAM, L.L.C., 200 Laitram Lane, Harahan, Louisiana, 70123, United States of America ~72: DAVID W BOGLE~ 33:US ~31:63/084,921 ~32:29/09/2020

2023/01277 ~ Complete ~54:SYNERGISTIC HERBICIDE COMBINATIONS, COMPOSITIONS AND USE THEREOF ~71:UPL Corporation Limited, 5th Floor, Newport Building, Louis Pasteur Street, PORT LOUIS, MAURITIUS, Mauritius;UPL Europe Ltd, The Centre, 1st Floor, Birchwood Park, WARRINGTON WA3 6YN, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: BAILLY, Géraldine;HAWKINS, Emma Louise;PIROTTE, Alan;SEPULCHRE DE CONDÉ, Christophe~ 33:EP ~31:20305740.1 ~32:01/07/2020

2023/01239 ~ Provisional ~54:HARMONIC MITIGATION SYSTEM ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2023/01243 ~ Complete ~54:ANIMAL TRACKING DEVICE ~71:MADELEIN VAN DER VYVER, 26 BATALEUR ESTATE, BARN OWL STREET, ROOIHUISKRAAL NORTH, South Africa ~72: Madelein van der Vyver~ 33:ZA ~31:2022/11272 ~32:14/10/2022

2023/01246 ~ Complete ~54:PROCESS FOR PREPARING ANTIBACTERIAL HIGH COUNT YARN FROM COPPER ION POLYESTER FIBERS AND REGENERATED CELLULOSE FIBERS ~71:JIHUA 3542 TEXTILE CO., LTD., Huopai Textile Industrial Park, Xiangzhou District, Xiangyang City, Hubei Province, 441116, People's Republic of China ~72: DENG, Xiaohong;DENG, Yunlong;LI, Hongsheng;LI, Mengxiang;MIAO, Xinyun;QIU, Shuanglin;TANG, Jiandong;ZHENG, Minbo;ZHOU, Yongyou~

2023/01258 ~ Complete ~54:METHOD AND INSTRUMENT FOR MEASURING YOUNG'S MODULUS BY BEAM BENDING METHOD ~71:Liupanshui Normal University, 288 Minghu Road, Zhongshan District, Liupanshui City, Guizhou Province, 553004, People's Republic of China ~72: KANG Shiju;LI Mingjun;OUYANG Fahong;WEN Shan;YIN Yue;ZHU Kun~

2023/01260 ~ Complete ~54:METHOD FOR SIMILARITY MEASUREMENT OF HUMAN BODY ACTIONS ~71:Xi'an University of Technology, No. 5, Jinhua South Road, Beilin District, Xi'an City, Shaanxi Province, 710048, People's Republic of China ~72: LI, Xiuxiu;LIU, Xufeng;WANG, Chaoxian;WANG, Rongchao;WANG, Xiuchao;WU, Shengjun;ZHUO, Wei~ 33:CN ~31:202210142018.X ~32:16/02/2022

2023/01278 ~ Complete ~54:CENTRIFUGAL SLURRY PUMP IMPELLER ~71:Weir Slurry Group, Inc., 2701 South Stoughton Road, MADISON 53716, WI, USA, United States of America ~72: KOSMICKI, Randy James~ 33:US ~31:63/085,353 ~32:30/09/2020;33:AU ~31:2020903823 ~32:22/10/2020

2023/01282 ~ Complete ~54:AEROSOL GENERATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;CROSS, Jennifer~ 33:GB ~31:2013212.2 ~32:24/08/2020

2023/01269 ~ Complete ~54:METHOD FOR THE AUTOMATIC MONITORING OF AN ELECTROTECHNICAL WORK FLOW, AND CORRESPONDING DEVICE ~71:DEHN SE, Hans-Dehn-Straße 1, 92318, Neumarkt i.d.OPf., Germany ~72: CHRISTIAN PAULUS;RAINER ZIEHMER;WOLFGANG MEIER~ 33:DE ~31:10 2020 210 371.2 ~32:14/08/2020

2023/01273 ~ Complete ~54:METHOD FOR PREPARING 3,3',4,4'-DICYCLOHEXYLTETRACARBOXYLIC ACID AND METHOD FOR TREATING ACIDIC WASTEWATER ~71:HEBEI HAILI FRAGRANCES CO., LTD, Jinsha Road, Economic And Technological Development Zone, Shijiazhuang, Hebei, 052165, People's Republic of China ~72: LI, Wenge;LIU, Tiecheng;SHAO, Shuai;WANG, Feiyang;WANG, Jingxiao;WANG, Xiao;YAN, Qin;ZHANG, Yufen;ZHANG, Yuntang~

2023/01275 ~ Complete ~54:INDOLE COMPOUNDS AS ANDROGEN RECEPTOR MODULATORS ~71:NIDO BIOSCIENCES, INC., 134 Coolidge Avenue, 2nd Floor, United States of America ~72: BARSANTI, Paul Andrew;GALLOP, Mark Andrew;TOURE, Bakary-Barry~ 33:US ~31:63/054,191 ~32:20/07/2020;33:US ~31:63/113,014 ~32:12/11/2020;33:US ~31:63/164,820 ~32:23/03/2021

2023/01283 ~ Complete ~54:METHOD AND SYSTEM FOR PRODUCING ISOTOPES ~71:NorthStar Medical Radioisotopes, LLC, 1800 Gateway Blvd, BELOIT 53511, WI, USA, United States of America ~72: BRENNAN, Maxwell J.;BURNS, Sarah M.;HARVEY, James T.;MCCARTER, James L.;MILUNAS, Rimas S.;MONTENEGRO, Tomas A.;PELTIER, Daniel E.;SCHILLER, Quintin G.;SCHLOUGH, Jason M.~ 33:US ~31:63/066,897 ~32:18/08/2020;33:US ~31:63/086,488 ~32:01/10/2020

2023/01248 ~ Complete ~54:AERIAL SPRAYING SYSTEM FOR PESTICIDE ~71:Jiangxi Dronephon Technologies Co. Ltd, Room 802, Area A, Chuangye Building, No.698 Jingdong Avenue, Nanchang High-tech Industrial Development Zone, Nanchang City, Jiangxi Province, 330006, People's Republic of China ~72: JIN, Fan;LI, Yuan;WANG, Bin~

2023/01253 ~ Complete ~54:POSTURE FIXING AND CORRECTING PAD FOR THYROID AND BREAST SURGERY ~71:AFFILIATED HOSPITAL OF WEIFANG MEDICAL UNIVERSITY, No. 2428, Yuhe Road, Kuiwen District, Weifang City, Shandong Province, People's Republic of China ~72: HUO Huixia;LIU Guiling~

2023/01256 ~ Complete ~54:A VIRTUAL REALITY TRAINING PSYCHOLOGICAL EDUCATION TEACHING SYSTEM ~71:Jilin Normal University, No.1301, Haifeng Street, Tiexi District, Siping City, Jilin Province, 136000, People's Republic of China ~72: Shulian LI~

2023/01271 ~ Complete ~54:CURCUMINOID COMPOSITIONS WITH HIGH BIOAVAILABILITY ~71:MEHMET NEVZAT PISAK, Dilhayat Sokak No: 32 Etiler 34337 Besiktas, Istanbul, Turkey ~72: MEHMET NEVZAT PISAK~ 33:TR ~31:PCT/TR2020/050612 ~32:09/07/2020

2023/01274 ~ Complete ~54:FERMENTATION DEVICE AND METHOD FOR PARTRIDGE CHICKEN FEED PROCESSING PROTEIN ADDITIVE ~71:ANHUI ZHENGDAYUAN FEED GROUP CO., LTD, 168 Huaihai West Road, Fenghuangshan Industrial Park,, Huaibei, Anhui, 235000, People's Republic of China ~72: MENG, Linglin;PENG, Cheng;SHI, Fenglei;WANG, Jiandong;ZHU, Huarong~ 33:CN ~31:202110786952.0 ~32:13/07/2021

2023/01280 ~ Complete ~54:METHODS OF TREATMENT USING FUROSEMIDE ~71:scPharmaceuticals Inc., 2400 District Avenue, Suite 310, BURLINGTON 01803, MA, USA, United States of America ~72: HASSMAN, Michael;MOHR, John F.;PECORELLI, Erik Mark;TUCKER, John~ 33:US ~31:63/061,518 ~32:05/08/2020

2023/01247 ~ Complete ~54:METHOD FOR REAL-TIME AUTOMATIC MONITORING OF SOIL FAUNA ON GROUND SURFACE ~71:Ningbo University, No. 818, Fenghua Road, Jiangbei District, Ningbo City, Zhejiang Province, 315211, People's Republic of China ~72: GAO, Meixiang;JIANG, Yige;SUN, Jiahuan~

2023/01251 ~ Complete ~54:GREASE PUMP FOR EASY BATTERY REPLACEMENT ~71:Henan Hongman Taike Technology Co., No. 163, 13F, Building A, Block 3, No. 49 of Jinshui East Road, Zhengzhou Pilot Free Trade Zone (Zhengdong), Zhengzhou, Henan, People's Republic of China ~72: Keke LI~

2023/01255 ~ Complete ~54:A PSYCHOLOGICAL EDUCATION FOR UNIVERSITY STUDENTS WITH A HIGH MODULATING FUNCTION SANDBOX ~71:Jilin Normal University, 1301 Haifeng Street, Tiexi District, Siping City, Jilin Province, 136000, People's Republic of China ~72: Nan LI;Shulian LI~

2023/01259 ~ Complete ~54:TESTING DEVICE AND ANALYSIS METHOD FOR MAGNETIC DAMPING AND DYNAMIC FRICTION COEFFICIENTS ~71:Liupanshui Normal University, 288 Minghu Road, Zhongshan District, Liupanshui City, Guizhou Province, People's Republic of China ~72: KANG Shiju;LI Mingjun;TU Shuang;WEN Shan;YIN Yue;ZHU Kun~

2023/01262 ~ Complete ~54:A SELF-ADJUSTING, DYNAMIC SYSTEM WITH REAL-TIME INTELLIGENCE, MACHINE LEARNING, AND AUTOMATION TO ANALYSE CYBER RISKS IN HARSH SITUATIONS ~71:Dr. Ashish Verma, Professor, Department of Physics, Dr. Harisingh Gour Viswavidyalaya, Sagar, Madhya Pradesh, 470003, India;Dr. B. Jagadeesh, Professor, Department of ECE, Anil Neerukonda Institute of Technology and Sciences (Autonomous), Sangivalasa, Visakhapatnam, Andhra Pradesh, 531162, India;Dr. B. Rajan, Professor, Department of ECE, Anurag Engineering College, Kodada, Telangana, 508206, India;Dr. Binod Kumar Choudhary, Associate Professor, Department of Physics, School of Engineering and IT, Arka Jain University, Jamshedpur, Jharkhand, 832108, India;Dr. G. Anand Kumar, Associate Professor, School of Engineering, Malla Reddy University, Hyderabad, Telangana, 500100, India;Dr. Karthik Chinnasamy, Assistant Professor, Department of Mathematics, Koneru Lakshmaiah Education Foundation (Deemed to be University), Vaddeswaram, Andhra Pradesh, 522302, India;Dr. R.L.V. Renuka Devi, Academic Consultant, Department of Mathematics, Sri Venkateswara University, Tirupati, Andhra Pradesh, 517502, India;Dr. Siva Rama Krishna T., Assistant Professor, Department of Computer Science and Engineering, Jawaharlal Nehru Technological University-Kakinada, Kakinada, Andhra Pradesh, 533003, India;Mr. M. Praveen Kumar, Guest Faculty, Department of EEE, RGUKT, BASAR, BASAR, Telangana, 504107, India;Mr. Sumit Kumar Maitra, Assistant Professor, Electrical Engineering Department, Northern Institute of Engineering Technical Campus, Alwar, Rajasthan, 301001, India ~72: Dr. Ashish Verma;Dr. B. Jagadeesh;Dr. B. Rajan;Dr. Binod Kumar Choudhary;Dr. G. Anand Kumar;Dr. Karthik Chinnasamy;Dr. R.L.V. Renuka Devi;Dr. Siva Rama Krishna T.;Mr. M. Praveen Kumar;Mr. Sumit Kumar Maitra~

2023/01263 ~ Complete ~54:A METHOD FOR COMPREHENSIVELY UTILIZING MAGNESITE ~71:Shenyang University of Technology, No.111,Shenliao West Road,Economic&Technological, Development Zone, Shenyang, People's Republic of China ~72: LI, Laishi;LIU, Jinliang;LIU, Ning;WU, Yusheng~

2023/01238 ~ Provisional ~54:A COATING COMPOSITION FOR A FERTILIZER ~71:AFRO-ZONKE PROJECTS & INVESTMENTS (PTY) LTD, 47 Gillitts Road Gate 2, Westmead, South Africa ~72: MFAYELA, Allen~

2023/01241 ~ Provisional ~54:DEEP LEARNING ARTIFICIAL INTELLIGENCE ROBOT CELLULAR SMARTPHONE ~71:Ahmed Waseef Saib, 24 Park Avenue, Desainagar, Tongaat Beach, 4399, South Africa ~72: Ahmed Waseef Saib~

2023/01250 ~ Complete ~54:HOUSING BUILDING ESCAPE STRUCTURE ~71:Sias University, No. 168 of Renmin Road, Xinzheng, Henan, People's Republic of China ~72: Jie WANG;Jihong WANG;Junwei BIAN;Kaijie YANG;Long ZHANG;Peng LIU;Xin QIN~ 33:CN ~31:202223393673.7 ~32:19/12/2022

2023/01252 ~ Complete ~54:HEAT PRESERVATION DEVICE FOR AQUACULTURE ~71:CHEN, Aihua, No. 4, Fuqian Road, Rushan City, Weihai City, Shandong Province, 264500, People's Republic of China ~72: CHEN, Aihua;JIANG, Jitao;LI, Qiang;SHANG, Guodong;XUE, Fei;ZHENG, Yanxuan~

2023/01261 ~ Complete ~54:AN ARTIFICIAL INTELLIGENCE DATA COLLECTION AND ANALYSIS METHOD BASED ON BIG DATA ~71:WEIFANG UNIVERSITY, No. 5147, Dongfeng East Street, High-tech Development Zone, Weifang, Shandong Province, 261000, People's Republic of China ~72: ZHANG, Huihui~

2023/01266 ~ Complete ~54:FOUNDATION, APPARATUS AND METHOD FOR PRODUCING THE SAME ~71:BETOLAR OY, Mannilantie 9, Finland ~72: LEPPÄNEN, Juha~ 33:FI ~31:20205743 ~32:09/07/2020

2023/01272 ~ Complete ~54:APPARATUS AND METHOD OF TREATING SOIL ~71:BETOLAR OY, Mannilantie 9, Finland ~72: LEPPÄNEN, Juha~ 33:FI ~31:20205742 ~32:09/07/2020

2023/01276 ~ Complete ~54:SENSOR NETWORK-BASED ANALYSIS AND/OR PREDICTION METHOD, AND REMOTE MONITORING SENSOR DEVICE ~71:GEOBRUGG AG, Aachstrasse 11, Switzerland ~72: Manuel EICHER~ 33:DE ~31:10 2020 122 861.9 ~32:01/09/2020

2023/01285 ~ Complete ~54:GLP-1/GIP DUAL AGONISTS ~71:SUN PHARMACEUTICAL INDUSTRIES LIMITED, Sun House, Plot No. 201 B/1, Western Express Highway, Goregaon (E), India ~72: BURADE, Vinod Sampatrao;GANDHI, Manish Harendraprasad;JIVANI, Chandulal Thakarshibhai;JOSHI, Dhiren Rameshchandra;NATARAJAN, Muthukumar;SONI, Krunal Harishbhai;THENNATI, Rajamannar;TIWARI, Abhishek~ 33:IN ~31:202021045240 ~32:17/10/2020;33:IN ~31:202121002837 ~32:20/01/2021

2023/01245 ~ Complete ~54:DEVICE FOR FEEDING RHINOCORIS FUSCIPES WITH VESTIGIAL WING DROSOPHILAS ~71:Guangdong Tobacco Research Institute, No. 69, Binjiang Road, Wujiang District, Shaoguan City, Guangdong Province, 512000, People's Republic of China ~72: CHEN, Dexin;DENG, Haibin;FAN, Miaomiao;LUO, Fuming;SUN, Zheng;YOU, Ziyi;ZENG, Tao~ 33:CN ~31:202223384792.6 ~32:16/12/2022

2023/01249 ~ Complete ~54:UNMANNED AERIAL VEHICLE FOR SPRAYING PESTICIDE ~71:Jiangxi Dronephon Technologies Co. Ltd, Room 802, Area A, Chuangye Building, No.698 Jingdong Avenue, Nanchang High-tech Industrial Development Zone, Nanchang City, Jiangxi Province, 330006, People's Republic of China ~72: JIN, Fan;LI, Yuan;WANG, Bin~

2023/01254 ~ Complete ~54:PREPARATION OF EPOXY RESIN/SILICON OXIDE NANOCOMPOSITES BY CENTRIFUGAL ASSISTED METHOD MATERIALS ~71:Taiyuan University of Technology, No.79 Yingze West Street, Wanbailin District, Taiyuan City, Shanxi Province, People's Republic of China ~72: Chen HAN;Feng GAO;Hongwei HE~

2023/01265 ~ Complete ~54:COMPOSITION USED AS A MOOD-REGULATING STIMULANT ~71:HAPPYGUM G.M.B.H., Bauernmarkt 8/8, Austria ~72: FARKAS, Tim~ 33:DE ~31:10 2020 117 395.4 ~32:01/07/2020

2023/01264 ~ Complete ~54:METHOD FOR SEARCHING FOR OROGENIC GOLD DEPOSITS ~71:The Third Institute of Qinghai Geological Prospecting, No. 61, Xichuan South Road, Chengxi District, Xining City, Qinghai Province, People's Republic of China ~72:

Daiwei;Dongjien;Heshuyue;Liuyongle;Liuzhigang;Moshengjuan;Wangbing;Zhangyong;zhangaikui~

2023/01279 ~ Complete ~54:2-((4S)-6-(4-CHLOROPHENYL)-1-METHYL-4H-BENZO[C]ISOXAZOLO[4,5-E]AZEPIN-4-YL)ACETAMIDE FOR TREATING THROMBOCYTHEMIA ~71:Constellation Pharmaceuticals, Inc., 470 Atlantic Ave, Suite 1401, BOSTON 02210, MA, USA, United States of America ~72: SENDEROWICZ, Adrian~ 33:US ~31:63/060,723 ~32:04/08/2020

2023/01284 ~ Complete ~54:UNDERGROUND WORKSITE VEHICLE POSITIONING CONTROL ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72:

HÄMÄLÄINEN, Jyrki;TARIQ, Usama~ 33:EP ~31:20193816.4 ~32:01/09/2020

- APPLIED ON 2023/02/01 -

2023/01312 ~ Complete ~54:METHOD FOR THE FERMENTATIVE PRODUCTION OF GUANIDINOACETIC ACID ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: JANKOWITSCH, Frank;SCHNEIDER, Frank~ 33:EP ~31:20184966.8 ~32:09/07/2020

2023/01322 ~ Complete ~54:HETEROCYCLIC GLP-1 AGONISTS ~71:Gasherbrum Bio, Inc., 611 Gateway Blvd., Suite 223, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: JENNINGS, Andrew;LEI, Hui;LIN, Xichen;MENG, Qinghua;ZHANG, Haizhen~ 33:IB ~31:2020/107437 ~32:06/08/2020;33:IB ~31:2021/073958 ~32:27/01/2021

2023/01326 ~ Complete ~54:CARBON-ENCAPSULATED MYCOLIC ACID ANTIGENS AS SIMPLE AND LOW-COST ELECTROCHEMICAL IMMUNOSENSORS FOR ACTIVE TUBERCULOSIS ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: MATHEBULA, Nsovo Samuel;OZOEMENA, Kenneth Ikechukwu~ 33:ZA ~31:2020/04130 ~32:07/07/2020

2023/01287 ~ Provisional ~54:A BARBECUE APPARATUS AND METHOD ~71:BRAAI ENGINEERS PROPRIETARY LIMITED, 22 Kriegler Street, Tulbagh 6820, SOUTH AFRICA, South Africa ~72: FOURIE, Bernie Nico~

2023/01293 ~ Complete ~54:AUTOMATIC DUMPING CEMENT MIXING EQUIPMENT ~71:Lu 'an Hengwei Sign Co., LTD, Building 59, Liansheng Industrial Park, Centralized Demonstration Park, Lu 'an, Anhui, Lu 'an City, People's Republic of China ~72: Weiwei Zhang~

2023/01295 ~ Complete ~54:SPLICE BUILDING TEMPLATE ~71:Lu 'an Hengwei Sign Co., LTD, Building 59, Liansheng Industrial Park, Centralized Demonstration Park, Lu 'an, Anhui, Lu 'an City, People's Republic of China ~72: Weiwei Zhang~

2023/01296 ~ Complete ~54:SMALL AUTOMATED REBAR CUTTING EQUIPMENT ~71:Lu 'an Hengwei Sign Co., LTD, Building 59, Liansheng Industrial Park, Centralized Demonstration Park, Lu 'an, Anhui, Lu 'an City, People's Republic of China ~72: Weiwei Zhang~

2023/01297 ~ Complete ~54:AN INTELLIGENT REMOTE MONITORING AND DIAGNOSIS SYSTEM FOR AGRICULTURAL GREENHOUSES ~71:Zhejiang International Maritime College, No. 268, Haitian Avenue, Lincheng, Zhoushan, Zhejiang, 316021, People's Republic of China ~72: Feijun Guo~

2023/01299 ~ Complete ~54:SUPPORT CARRIER FOR CIVIL ENGINEERING BRIDGE CONSTRUCTION ~71:Jinggangshan University, No. 28, Xueyuan Road, Qingyuan District, Ji'an City, Jiangxi Province,

343000, People's Republic of China ~72: LIAO, Xiaoling;WANG, Zhenwu~ 33:CN ~31:202210210623.6
~32:04/03/2022

2023/01301 ~ Complete ~54:ATMOSPHERE PROTECTION SYSTEM FOR LASER ADDITIVE
MANUFACTURING AND LASER ADDITIVE MANUFACTURING EQUIPMENT ~71:Harbin Institute of
Technology, No. 92, Xidazhi Street, Nangang District, Harbin City, Heilongjiang Province, 150001, People's
Republic of China ~72: CHENG, Xu;LU, Yanling;SUN, Yongguo;YE, Liang;YU, Guangbin;YUE, Daxun~

2023/01304 ~ Complete ~54:AN INTELLIGENT IONIZATION PURIFICATION AND DUST-REMOVAL
EQUIPMENT FOR LIVESTOCK AND POULTRY HOUSING ~71:Zhejiang Academy of Agricultural Sciences, 298
Desheng Middle Road, Shangcheng District, Hangzhou City, Zhejiang Province, 310021, People's Republic of
China ~72: Cun Zhang;Jionggang Hua;Liu Chen;Tao Yun;Weicheng Ye;Yinchu Zhu;Zheng Ni~

2023/01307 ~ Complete ~54:A METHOD FOR EVALUATING THE EFFICACY OF INDIGENOUS THERAPEUTIC
FOOD IN MANAGING THE SEVERE ACUTE MALNUTRITION WITHOUT COMPLICATIONS ~71:Yashwant
Kumar Rao, Professor and Head, Department of Pediatrics, GSVM Medical College Kanpur, Uttar Pradesh,
208002, India ~72: Alok Raghav;Roshan Jacob;Tanu Midha;Yashwant Kumar Rao~

2023/01314 ~ Complete ~54:METHOD FOR THE FERMENTATIVE PRODUCTION OF GUANIDINOACETIC
ACID ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY,
Germany ~72: JANKOWITSCH, Frank;SCHNEIDER, Frank~ 33:EP ~31:20184949.4 ~32:09/07/2020

2023/01289 ~ Provisional ~54:LINE SUPPORT UNIT ~71:D'OLIVEIRA, Marionette Estelle, 21 Edwards
Avenue, South Africa ~72: D'OLIVEIRA, Peter Edward (Deceased)~

2023/01290 ~ Complete ~54:EXPERIMENTAL RESEARCH METHOD OF INTEGRATION OF DEPOSITION
PHYSICAL SIMULATION AND DEPOSITION NUMERICAL SIMULATION BASED ON SOURCE-SINK SYSTEM
~71:China University of Geosciences, Beijing, No.29, Xueyuan Road, Haidian District, Beijing, People's Republic
of China ~72: HU Guangming;JIANG Zaixing;LIU Zhongbao;WEI Siyuan;XUE Xinyu~ 33:CN
~31:202310012792.3 ~32:05/01/2023

2023/01291 ~ Complete ~54:SPLICED NON-LOAD-BEARING BUILDING WALLS ~71:Lu 'an Hengwei Sign
Co., LTD, Building 59, Liansheng Industrial Park, Centralized Demonstration Park, Lu 'an, Anhui, Lu
'an City, People's Republic of China ~72: Weiwei Zhang~

2023/01325 ~ Complete ~54:ROTATABLE RETAINING DEVICE FOR TUBULAR REACTORS ~71:Johnson
Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM,
United Kingdom ~72: BAKER, Robert Miles;CLAXTON, Henry Arthur;GRAHAM, Simon;SHAW, Dean Graham~
33:GB ~31:2015189.0 ~32:25/09/2020

2023/01320 ~ Complete ~54:ELECTRODE FOR GAS EVOLUTION IN ELECTROLYTIC PROCESSES
~71:INDUSTRIE DE NORA S.P.A., Via Bistolfi 35, 20134, Milan, Italy ~72: CHIARA DI BARI;DJ DONN
MATIENZO;EMANUELE INSTULI;FRANCESCO PINO;RICCARDO MARINA~ 33:IT ~31:102020000020575
~32:28/08/2020

2023/01306 ~ Complete ~54:A SYSTEM FOR PREPARING IPOMOEA PES-CAPRAE EXTRACT AND
TREATING MELANOMA CANCER ~71:Dr. Amirtha Tom, Department of Pharmacy Practice, Dr. D.Y. Patil
Institute of Pharmaceutical Sciences and Research, Sant Tukaram Nagar, Pimpri, Pune, Maharashtra, 411018,
India;Dr. Hari Narayanan, Department of Pharmacy Practice, Dr. D.Y. Patil Institute of Pharmaceutical Sciences
and Research, Sant Tukaram Nagar, Pimpri, Pune, Maharashtra, 411018, India;Dr. Haritha S. Nath, Department
of Pharmacy Practice, Dr. D.Y. Patil Institute of Pharmaceutical Sciences and Research, Sant Tukaram Nagar,

Pimpri, Pune, Maharashtra, 411018, India;Dr. Krishana Kumar Sharma, Department of Pharmacology, Teerthanker Mahaveer College of Pharmacy, Teerthanker Mahaveer University, Delhi Road, Nh 24, Bagadpur, Moradabad, Uttar Pradesh, 244001, India;Dr. Liz Mathew, Regulatory affairs specialist, Abbott Ireland Diagnostics Div, Longford, N39 E932, Ireland;Dr. Maheshwari Vengat, Chester medical school, Chester University, Chester, CH1 4BJ, United Kingdom;Dr. Midhun Mathew Kizhakethil, Dr. D Y Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune, Maharashtra, 411018, India;Dr. Rajnandini Singha, Tamilnadu Dr. M.G.R. medical University, Chennai, Tamil Nadu, 600032, India;Samaresh Pal Roy, Maliba Pharmacy College, Uka Tarsadia University, Bardoli, Surat, Gujarat, 394620, India;Sruthi Nair, Tamilnadu Dr. M.G.R. medical University, Chennai, Tamil Nadu, 600032, India ~72: Dr. Amirtha Tom;Dr. Hari Narayanan;Dr. Haritha S. Nath;Dr. Krishana Kumar Sharma;Dr. Liz Mathew;Dr. Maheshwari Vengat;Dr. Midhun Mathew Kizhakethil;Dr. Rajnandini Singha;Samaresh Pal Roy;Sruthi Nair~

2023/01309 ~ Complete ~54:METHODS FOR ASSESSING THE RISK OF DEVELOPING PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY CAUSED BY JOHN CUNNINGHAM VIRUS BY GENETIC TESTING ~71:PML SCREENING, LLC, 23 Corporate Plaza, Suite 150, Newport Beach, California, 92660, United States of America;THE ASSISTANCE PUBLIQUE - HÔPITAUX DE PARIS (APHP), 149 rue de Sevres, 75015, Paris, France;THE INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICAL (INSERM), 101 rue Tolbiac , 75654, Paris Cedex 13, France;UNIVERSITÉ PARIS-SACLAY, Parc Technologique, Immeuble Discovery, Route de l'Orme aux Merisiers, RD 128, 91190, Saint Aubin, France ~72: EDWARD B. III SMITH;ELI HATCHWELL;PEGGY S EIS;YASSINE TAOUFIK~ 33:US ~31:62/716,072 ~32:08/08/2018;33:US ~31:62/716,183 ~32:08/08/2018

2023/01311 ~ Complete ~54:PREPARATION METHOD OF METAL OXALATE LITHIUM ION BATTERY ANODE MATERIAL WITH ORDERED THREE-DIMENSIONAL SKELETON STRUCTURE ~71:Kunming University of Science and Technology, No.727 Jingming South Road, Chenggong District, Kunming, Yunnan, 650500, People's Republic of China ~72: CUI Dingfang;DAI Yongnian;GAO Geng;MI Ruzhong;YANG Bin;YAO Yaochun;ZHANG Keyu~ 33:CN ~31:2021110851221 ~32:16/09/2021

2023/01316 ~ Complete ~54:FGFR3 ANTIBODIES AND METHODS OF USE ~71:GENZYME CORPORATION, 50 Binney Street, Cambridge, MA, United States of America ~72: BRONDYK, William;CHEN, Yangde;CHO, HyunSuk;LEMOINE, Cendrine;PARK, Sunghae;QIU, Huawei;QIU, Yu;SABBAGH, Yves;WEI, Ronnie;ZHOU, Yanfeng~ 33:US ~31:63/068,575 ~32:21/08/2020

2023/01292 ~ Complete ~54:SPLICED BUILDING TEMPLATE FRAME ~71:Lu 'an Hengwei Sign Co., LTD, Building 59, Liansheng Industrial Park, Centralized Demonstration Park, Lu 'an, Anhui, Lu 'an City, People's Republic of China ~72: Weiwei Zhang~

2023/01321 ~ Complete ~54:SYSTEM FOR ELECTROPHYSIOLOGICAL ANALYSIS OF PLANTS ~71:Vegetal Signals, Péniche Minerve Quai Hubert Prom, BORDEAUX 33000 , FRANCE, France ~72: COCHETEUX, Patrice;LE BOURDIEC, Fabian~ 33:FR ~31:2007385 ~32:15/07/2020;33:FR ~31:2007386 ~32:15/07/2020;33:FR ~31:2007387 ~32:15/07/2020

2023/01294 ~ Complete ~54:SAND AUTOMATIC SCREENING DEVICE ~71:Lu 'an Hengwei Sign Co., LTD, Building 59, Liansheng Industrial Park, Centralized Demonstration Park, Lu 'an, Anhui, Lu 'an City, People's Republic of China ~72: Weiwei Zhang~

2023/01319 ~ Complete ~54:A COMPRESSION MOULDING METHOD AND APPARATUS ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: FABRIZIO PUCCI;FIORENZO PARRINELLO~ 33:IT ~31:102020000019351 ~32:05/08/2020;33:IT ~31:102020000019360 ~32:05/08/2020;33:IT ~31:102020000032156 ~32:23/12/2020

2023/01323 ~ Complete ~54: SUPER ABSORBENT POLYMERIC FOAM ~71: UPL Corporation Limited, 5th Floor, Newport Building, Louis Pasteur Street, PORT LOUIS, MAURITIUS, Mauritius; UPL do Brasil Industria e Comercio de Insumos Agropecuarios S.A., Avenida Maeda, s/n#186;, Pr#233;dio Comercial, t#233;reio, Distrito Industrial, ITUVERAVA 14500-000, BRAZIL, Brazil ~72: FABRI, Carlos Eduardo; HERMENEGILDO OLIVEIRA, Gilson Aparecido; MARCANDALLI, Luiz Henrique ~ 33: BR ~31:10 2020 013617-8 ~32:02/07/2020; 33: BR ~31:10 2021 013138-1 ~32:02/07/2021

2023/01300 ~ Complete ~54: ENVIRONMENT-FRIENDLY CONSTRUCTION WASTE TREATMENT DEVICE FOR CIVIL ENGINEERING ~71: Jingtangshan University, No. 28, Xueyuan Road, Qingyuan District, Ji#39;an City, Jiangxi Province, 343000, People's Republic of China ~72: LIAO, Xiaoling; WANG, Zhenwu ~ 33: CN ~31:202210236165.3 ~32:11/03/2022

2023/01303 ~ Complete ~54: FEED PRODUCTION EQUIPMENT AND METHOD ~71: Bright (Hangzhou) Feed Sci-tech Co., Ltd., Xiejia Village, Puyang Town, Xiaoshan District, Hangzhou City, Zhejiang Province, 311255, People's Republic of China ~72: DING, Jinbao; JIN, Miaoren; LOU, Lingling; XU, Jian; XU, Qiuwen; XU, Yingying; YU, Xiaoying ~ 33: CN ~31:202210804863.9 ~32:08/07/2022

2023/01308 ~ Complete ~54: AN IPOMOEA PES-CAPRAE EXTRACT COMPOSITION FOR TREATMENT OF MELANOMA CANCER AND ITS PREPARATION METHOD THEREOF ~71: Dr. Ashish Manigauha, Mittal Institute of Pharmacy, Opposite Bhopal Memorial Hospital & Research Center, Nabibagh, Karond, Bhopal, Madhya Pradesh, 462038, India; Dr. Farhad F Mehta, Assistant Professor, School of Pharmaceutical sciences, University Teaching Department, Rajiv Gandhi Prodyogiki Vishvidyalya, University of Technology of Madhya Pradesh, Bhopal, Madhya Pradesh, 462033, India; Dr. Harish Shah, Professor, Pharmacognosy and Phytochemistry, School of Pharmacy, Bharat Institute of Technology, NH-58, By Pass Road, Partapur, Meerut, Uttar Pradesh, 250103, India; Neha Singh, S.R.L.T. GROUP OF INSTITUTIONS, NH#2, KANPUR-DELHI ROAD, EKDIL, ETAWAH, UTTAR PRADESH, 206001, India; Rabia Aqeel, Integral University, Dasauli, Bas-ha Kursi Road, Lucknow, Uttar Pradesh, 226026, India; Raj Kumar, S. N. College of Pharmacy, Babupur, Jaunpur, Uttar Pradesh, 222132, India ~72: Dr. Ashish Manigauha; Dr. Farhad F Mehta; Dr. Harish Shah; Neha Singh; Rabia Aqeel; Raj Kumar ~

2023/01310 ~ Complete ~54: SYSTEM AND METHOD FOR DETERMINING OWNERSHIP, AND REGULATING DIGITAL CONTENT THEREOF ~71: Comviva Technologies Limited, 5th, 7th & 8th floor, Capital Cyberscape, Village Ullahwas, Sector 59, Golf Course Extension Road, Gurugram, Haryana, 122102, India ~72: GOYAL, Gaurav; JAIN, Manish ~ 33: IN ~31:202211005885 ~32:03/02/2022

2023/01315 ~ Complete ~54: SYSTEMIC DELIVERY OF OLIGONUCLEOTIDES ~71: DICERNA PHARMACEUTICALS, INC, 75 Hayden Avenue, Lexington, United States of America ~72: ABRAMS, Marc; BROWN, Bob, Dale; CAI, Xiaochuan; WANG, Weimin; YU, Hongchuan ~ 33: US ~31:63/060,715 ~32:04/08/2020; 33: US ~31:63/144,603 ~32:02/02/2021

2023/01317 ~ Complete ~54: A MOULDING APPARATUS AND METHOD ~71: SACMI COOPERATIVA MECCANICI IMOLA SOCIET#192; COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: DAVIDE ZANOTTI; FABRIZIO PUCCI; FIORENZO PARRINELLO; FRANCESCO PIRAZZOLI; GIOVANNI MAZZOTTI ~ 33: IT ~31:102020000019351 ~32:05/08/2020; 33: IT ~31:102020000019360 ~32:05/08/2020; 33: IT ~31:102020000032156 ~32:23/12/2020

2023/01288 ~ Provisional ~54: ENERGY STORAGE DEVICE AND SYSTEM ~71: DALTON, Brian, Francis, 104 SMIT AVENUE, VELDDRIF, 7365, SOUTH AFRICA, South Africa ~72: DALTON, Brian, Francis ~

2023/01318 ~ Complete ~54:ELECTRODE WITH ENHANCED SHUTDOWN TOLERANCE ~71:INDUSTRIE DE NORA S.P.A., Via Bistolfi 35, 20134, Milan, Italy ~72: AKIHIRO KATO;FRANCESCO PINO;NAKAI TAKAAKI~ 33:IT ~31:102020000020587 ~32:28/08/2020

2023/01324 ~ Complete ~54:QUIC TRANSACTIONS ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: KRISTENSEN, Brad;PAGANI, Alessio~ 33:GB ~31:2014471.3 ~32:15/09/2020

2023/01298 ~ Complete ~54:METHOD FOR DETERMINING SPATIAL DISTRIBUTION OF CARBON EMISSIONS ~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;LIU, Aiguo;LU, Wenjuan;MA, Weijun;MAO, Xi;WANG, Jizhou~

2023/01302 ~ Complete ~54:EXPERIMENTAL INSTRUMENT FOR MEASURING THE SURFACE TENSION COEFFICIENT OF LIQUID AND ITS MEASURING METHOD ~71:Liupanshui Normal University, 288 Minghu Road, Zhongshan District, Liupanshui City, Guizhou Province, 553004, People's Republic of China ~72: KANG Shiju;LI Mingjun;WEN Shan;YIN Yue;ZHANG Yuncheng;ZHU Kun~

2023/01305 ~ Complete ~54:CLOSED CARRIER FOR HUMAN EMBRYO RAPID FREEZING ~71:Zhejiang University, No. 866 Yuhangtang Road, Xihu District, Hangzhou, Zhejiang, People's Republic of China ~72: Feng Chun;Jin Fan;Jin Min;Qiu Feng;Rao Jinpeng;Tian Shen~

2023/01313 ~ Complete ~54:MODIFIED SILICAS, PROCESS FOR PREPARATION THEREOF AND USE THEREOF ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: BLUME, Anke;KRAFCZYK, Roland;KUFELT, Olga;LAMANN, Rainer;MASCHKE, Dominik;RÖBEN, Caren;THOMA, Herbert;WEHMEIER, André~ 33:DE ~31:10 2020 208 510.2 ~32:07/07/2020

- APPLIED ON 2023/02/02 -

2023/01329 ~ Complete ~54:PREPARATION METHOD OF NOVEL CONIP CLUSTER DISPERSION MODIFIED PHOTOCATALYST ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: FAN Hua;LI Peng;LI Taifeng;LI Xinyu;LIU Xiaoyan;TENG Weili;WANG Jing;WU Wanying;XU Kaidong;YANG Qingjie;YANG Yilong;YOU Peibo;ZHANG Haiyang;ZHANG Zhiyuan;ZHU Ying~

2023/01339 ~ Complete ~54:ONLINE DIAGNOSIS SYSTEM AND METHOD FOR PROPERTIES OF PLASMA BEAMS ~71:Sichuan University of Science and Engineering, 180 Xueyuan Street, Huidong, Zigong City, Sichuan Province, 643002, People's Republic of China ~72: CAO, Xiuquan;DENG, Zhiyuan;GUO, Wenyu;ZHANG, Jiemei;ZHAO, Mingbo~

2023/01347 ~ Complete ~54:AN ISOMETRIC ADJUSTING DEVICE FOR MECHANICAL PROCESSING ~71:Southwest Petroleum University, No.8, Xindu Avenue, Xindu District, Chengdu City, Sichuan Province, 610500, People's Republic of China ~72: Linnan Liu;Shuai Liu;Xiangchao Shi;Yinghe Hong;Yulin Lai~

2023/01351 ~ 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 ~31:10-2018-0107256 ~32:07/09/2018

2023/01354 ~ Complete ~54:HIGHLY STABLE PEROVSKITE QUANTUM DOTS AND PREPARATION METHOD THEREOF ~71:Jiujiang Research Institute, Building 4, Shuangchuang Base, Chengxi Port District, Economic

Development Zone, Jiujiang, Jiangxi, 332000, People's Republic of China;Xiamen University, No. 422, Siming South Road, Xiamen, Fujian, 361005, People's Republic of China ~72: Jing Li;Jun Yin;Tan Ping~

2023/01358 ~ Complete ~54:MULTILAYERED Ti/REXALN COATINGS ON HSS/TUNGSTEN CARBIDE CUTTING TOOL INSERTS BY PVD CO-SPUTTERING ~71:Jafar Ali Ibrahim Syed Masood, Department of IoT, School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, Tamilnadu, 632014, India;Secretary & Correspondent QIS College of Engineering & Technology, Vengamukkapalem, Ongole, Andhra Pradesh, 523272, India ~72: Dr. David Asirvatham;Hari Krishna Kharidu;Jafar Ali Ibrahim Syed Masood;Madhusudhanarao Sriram;Prof. Krishna Kishore Jampani;Revalla Maheswararao;Sadineni Mourya Pravardhan;Saikumar Eedupalli;Sarathkumar.D;Surya Kalyan Chakravarthy Nidamanuri~

2023/01368 ~ Complete ~54:TEST SYSTEM ~71:Senseair AB, Box 96, DELSBO 824 08 , SWEDEN, Sweden ~72: GRANSTAM, Mathias;HESSMAN PETTERSSON, Karl-Adam;HOLMQVIST, Niclas~ 33:SE ~31:2050823-0 ~32:02/07/2020

2023/01375 ~ Complete ~54:COMPOUNDS AND METHODS TARGETING HUMAN AND MOUSE INSL5 ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: VERDINO, Petra;YANG, Hsiu-Chiung~ 33:US ~31:63/060,701 ~32:04/08/2020

2023/01377 ~ Complete ~54:PHARMACEUTICAL COMPOSITION OF INTRA-ARTICULAR CORTICOSTEROID FOR PAIN CONTROL ~71:TAIWAN LIPOSOME COMPANY, LTD., 11f-1, No. 3 Yuanqu Street, Nangang District Taipei City, 11503, Taiwan, Province of China;TLC BIOPHARMACEUTICALS, INC., 611 Gateway Blvd., Suite 830, South San Francisco, California, 94080, United States of America ~72: CARL OSCAR BROWN;SHEUE-FANG SHIH~ 33:US ~31:63/061,395 ~32:05/08/2020

2023/01384 ~ Complete ~54:METHODS OF ENRICHING A TARGET SEQUENCE FROM A SEQUENCING LIBRARY USING HAIRPIN ADAPTORS ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, Cambridge, CB21 6DF, United Kingdom ~72: ANDREW SLATTER~ 33:US ~31:63/077,271 ~32:11/09/2020

2023/01340 ~ Complete ~54:ROAD CONCRETE STRENGTH DETECTION AND CONTROL DEVICE ~71:Beihua University, No. 3999 Binjiang East Road, Jilin City, Jilin Province, People's Republic of China ~72: LI Kexin;LIU Jinxin;WANG Jiaqi;WANG Kaixing~

2023/01343 ~ Complete ~54:TRANSPLANTING AND DOMESTICATION METHOD FOR ANEMONE AMURENSIS ~71:Northeast Forestry University, No. 26 Hexing Road, Xiangfang Distric, Harbin City, Heilongjiang Province, 150036, People's Republic of China ~72: DONG, Xueyun;WANG, Hongfeng;ZHENG, Lantao~ 33:CN ~31:202211313077.5 ~32:25/10/2022

2023/01346 ~ Complete ~54:PREPARATION METHOD FOR NANO BIOMASS CARBON COMPOSITE PHOTOCATALYST ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: Cui Leqi;Li Baixin;Li Yanna;Mao Yanli;Pan Long;Song Zhongxian;Yan Xu;Zhu Han;Zhu Xinfeng~

2023/01353 ~ Complete ~54:COMPOSITION COMPRISING AN ALKALI METAL CARBONATE, CALCIUM HYDROXIDE AND SODIUM OR POTASSIUM METASILICATE, IN PARTICULAR AMOUNTS ~71:L&O REAL, 14, rue Royale, France ~72: DONCK, Simon;RABUTHU, Obakeng~

2023/01330 ~ Complete ~54:AN ANTI-OXIDANT AND ANTI-AGING POMEGRANATE HEALTH CARE PREPARATION AND PREPARATION METHOD THEREOF ~71:Zaozhuang Vocational College, No. 2169, Qilianshan Road, XueCheng District, Zaozhuang City, Shandong Province, 277800, People's Republic of China

~72: Changyan Liu;Fei Sun;Hu Li;Liang Li;Rong Chen;Xin Han;Yingying Li~ 33:CN ~31:202210122702.1
~32:09/02/2022

2023/01333 ~ Complete ~54:SELF-ASSEMBLED ARTIFICIAL BLOOD VESSEL ~71:JILIN UNIVERSITY, No. 938, Minzhu West Street, Chaoyang District, Changchun City, Jilin Province, People's Republic of China ~72: GUO Wenlai;LI Bo;LI Shihuai;MENG Zifan;QU Wenrui;XING Haiyang;YI Min;YOU Junyuan;YU Zehao;ZHOU Huidong~

2023/01335 ~ Complete ~54:METHOD AND SYSTEM FOR CONSTRUCTING CONSTITUTIVE MODEL OF STEEL FIBER RECYCLED AGGREGATE CONCRETE ~71:Zhengzhou University of Aeronautics, No.2 Daxue Middle Road, Erqi District, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: ZHU Qian~

2023/01338 ~ Complete ~54:A SECURITY DEVICE ~71:SCHARFFENORTH, Ronald Ralph, 214 GOLDEN MILE BOULEVARD, BRITANNIA BAY, South Africa ~72: SCHARFFENORTH, Ronald Ralph~ 33:ZA ~31:2022/05307
~32:13/05/2022

2023/01342 ~ Complete ~54:A FRICTION COEFFICIENT MEASUREMENT DEVICE FOR ZINC-BASED ALLOY BONE IMPLANTS ~71:Hunan Institute of Science and Technology, 439 Xiangbei Avenue, Yueyang Lou District, Yueyang city, Hunan, 414006, People's Republic of China ~72: Chunyang LIU;Jianzeng REN;Sheng LI;Xiaoqing LI;Xiaoyu YAN;Yulin JIANG;Zhining CHEN;Zhiwei XU;Zihao KUANG~

2023/01348 ~ Complete ~54:DAMPING ELEMENT FOR EXCAVATOR BUCKETS ~71:MINETEC S.A., Av. Am#233;rico Vespucio, Renca, Santiago, 2101, Chile ~72: ANTONIO FLORES;BERNARDO LUIS VERA TORRES;FERNANDO ESTEBAN DE LA FUENTE LÓPEZ~ 33:CL ~31:202200312 ~32:07/02/2022

2023/01352 ~ Complete ~54:IMAGE ENCODING/DECODING METHOD AND DEVICE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0107256 ~32:07/09/2018

2023/01360 ~ Complete ~54:PHOSPHOLIPID COMPOUNDS AND USES THEREOF ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: LAZERWITH, SCOTT E.;MEDLEY, JONATHAN WILLIAM;MORGANELLI, PHILIP A.;NADUTHAMBI, DEVAN;STRATTON, THOMAS P.;WANG, PEIYUAN~ 33:US ~31:63/069,449 ~32:24/08/2020;33:US ~31:63/092,386 ~32:15/10/2020;33:US ~31:63/151,509 ~32:19/02/2021

2023/01366 ~ Complete ~54:ATR INHIBITORS AND USES THEREOF ~71:Antengene Discovery Limited, Suite 1206-1209, Block B, Zhongshan SOHO Plaza, 1065 West Zhongshan Road, Changning District, SHANGHAI 200051, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Peng;HOU, Bing;MEI, Jay;SHAN, Bo;SHI, Zhongyang;YUWEN, Hui~ 33:IB ~31:2020/100088 ~32:03/07/2020;33:IB ~31:2020/110396 ~32:21/08/2020;33:IB ~31:2020/134732 ~32:09/12/2020;33:IB ~31:2020/135604 ~32:11/12/2020

2023/01371 ~ Complete ~54:MODIFIED FINE PARTICULATE CARBON MATERIALS AND METHOD FOR PRODUCING SAME ~71:SunCoal Industries GmbH, Rudolf-Diesel-Strasse 15, LUDWIGSFELDE 14974, GERMANY, Germany ~72: LÜDER, Ulf;PODSCHUN, Jacob;SCHMAUCKS, Gerd;WITTMANN, Tobias~ 33:DE ~31:10 2020 210 801.3 ~32:26/08/2020

2023/01379 ~ Complete ~54:A HIGHLY MOISTURE-PROOF ENVIRONMENT-FRIENDLY MULTI-ELEMENT COMPOSITE FLOOR AND ITS PRODUCTION PROCESS ~71:ANHUI YANGZI FLOORING INCORPORATED COMPANY, No. 98, Garden Road, Chuzhou, Anhui, 100098, People's Republic of China ~72: XIANG LEI~ 33:CN ~31:202111445001.3 ~32:30/11/2021

2023/01382 ~ Complete ~54:METHODS AND SYSTEMS FOR OPTIMIZING MECHANICAL VAPOR COMPRESSION AND/OR THERMAL VAPOR COMPRESSION WITHIN MULTIPLE-STAGE PROCESSES ~71:ENERGY INTEGRATION, INC., Bill Schafer CEO, 710 Sunshine Canyon Drive, Boulder, Colorado, 80302, United States of America ~72: LYNN CRAWFORD;WILLIAM III SCHAFFER~ 33:US ~31:63/052,202 ~32:15/07/2020;33:US ~31:63/172,150 ~32:08/04/2021;33:US ~31:63/172,151 ~32:08/04/2021;33:US ~31:17/374,962 ~32:13/07/2021

2023/01334 ~ Complete ~54:THREE-DIMENSIONAL ACCURATE PESTICIDE SPRAYING DEVICE ~71:Shandong Academy of Pesticide Sciences, No. 234, Beiyuan Street, Jinan, Shandong, 250000, People's Republic of China ~72: GAO Deliang;LIANG Lin;LIU Yu;XU Nana;XU Yumei;ZHUANG Zhiguo~

2023/01341 ~ Complete ~54:A HEAT-RESISTANT DISSOLVABLE FRACTURING BALL ~71:Hunan Institute of Science and Technology, 439 Xiangbei Avenue, Yueyang Lou District, Yueyang city, Hunan, 414006, People's Republic of China ~72: Chunyang LIU;Jianzeng REN;Sheng LI;Xiaoqing LI;Xiaoyu YAN;Yulin JIANG;Zhining CHEN;Zhiwei XU;Zihao KUANG~

2023/01345 ~ Complete ~54:ELECTROCHROMIC LENS FOR AUTOMOBILE ~71:Leshan Normal University, No.778, Binhe Road, Shizhong District, Leshan City, Sichuan Province, 614000, People's Republic of China ~72: CHEN, Jiaxuan;CHEN, Qiao;HE, Zhaoxia;TIAN, Chong;WEN, Zhiguo~

2023/01350 ~ Complete ~54:METHOD OF DETERMINING MINIMUM CRITICALITY ACCIDENT SOURCE TERM ~71:China Nuclear Power Engineering Co., Ltd., No. 117 West Third Ring Road, Haidian District, BEIJING 100840, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Tian;HU, Xiaoli;HUO, Xiaodong;LI, Yunlong;LIU, Guoming;SHAO, Zeng;YI, Xuan;YU, Miao;ZHANG, Haoran~ 33:CN ~31:202210651739.3 ~32:10/06/2022

2023/01356 ~ Complete ~54:A LONG-TERM METHOD FOR REPAIRING DEFECTIVE FARMLAND SOIL BY USING EXOGENOUS MATERIALS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: Huijie Li;Yanli Mao;Yanyan Zhan;Zhanhui Zhao~ 33:CN ~31:202210189821.9 ~32:28/02/2022

2023/01357 ~ Complete ~54:CULTURE SUBSTRATE FOR RHODODENDRON LAPPONICUM, AND PREPARATION METHOD AND USE THEREOF ~71:Guizhou Normal University, Huaxi University Town, Gui'an New District, Guiyang City, Guizhou Province, 550025, People's Republic of China;Guizhou Wuying Agricultural Technology Development Co., Ltd., No. 24-2, No. 2 Villager Group, Guoyuan Village, Maijia Town, Baiyun District, Guiyang City, Guizhou Province, 550000, People's Republic of China ~72: CHEN, Yinhao;GONG, Jiyi;LI, Yuke;LIU, Jie;QIN, Fanxin;TANG, Jiafu;YI, Yin;ZHANG, Yubin~ 33:CN ~31:202210773261 .1 ~32:01/07/2022

2023/01362 ~ Complete ~54:SYSTEMS AND METHODS FOR PUCCH REPETITION ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: ANDERSSON, Mattias;BLANKENSHIP, Yufei;FALAHATI, Sorour;FRÖBERG OLSSON, Jonas;KITTIKHOKECHAI, Kittipong;SINGH, Bikramjit;ZOU, Zhenhua~ 33:US ~31:63/058,135 ~32:29/07/2020

2023/01332 ~ Complete ~54:MODEL EXPERIMENTAL SYSTEM FOR RADIATION DAMAGE OF SEMICONDUCTOR DEVICES ~71:Zhengzhou University of Aeronautics, No.15 Wenyuan West Road, Zhengdong New District, Zhengzhou City, Henan Province, 450018, People's Republic of China ~72: DUAN Xiangyang;FU Linjie;WANG Haili;WANG Xianli;WANG Yanyan;XU Kun;YANG Mengjie;YANG Peng~

2023/01336 ~ Complete ~54:METHOD FOR BREEDING VIRUS-FREE CONTAINER SEEDLINGS OF CITRUS ~71:Institute of Subtropical Crops of Zhejiang Province, No.334 Xueshan Road, Wen zhou, Zhejiang Province, People's Republic of China ~72: GUO Xiuzhu;LI Fayong;LIU Dongfeng;SONG Yang;ZHANG Peian;ZHAO Quan~

2023/01355 ~ Complete ~54:A NOVEL IOT- BASED DIGITAL VERMICOMPOSTING MICRONUTRIENT QUALITY PREDICTION DEVICE ~71:Jafar Ali Ibrahim Syed Masood, Department of IoT, School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, Tamilnadu, 632014, India;Secretary & Correspondent QIS College of Engineering & Technology, Vengamukkapalem, Ongole, Andhra Pradesh, 523272, India ~72: Abburi Venkata Pavani;Bethapudi Rajesh;Jafar Ali Ibrahim Syed Masood;Kanavath Chinna Kullayappa Naik;Lalitha Krishnasamy;Mahaboob Basha Shaik;Malakonda Rayudu;Sunitha Thella;Suresh Pallepaga;Surya Kalyan Chakravarthy Nidamanuri;Tagore Kumar Pasupula~

2023/01359 ~ Complete ~54:UE, NETWORKS NODES, AND METHODS PERFORMED THEREBY, FOR HANDLING RACH-REPORTS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: BELLESCHI, Marco;CENTONZA, Angelo;PARICHEHREHTEROUJENI, Ali;RAMACHANDRA, Pradeepa~ 33:US ~31:63/068,590 ~32:21/08/2020

2023/01361 ~ Complete ~54:CONFIGURATION METHOD AND CONFIGURATION APPARATUS FOR UNKNOWN NEIGHBOR CELL, AND ELECTRONIC DEVICE ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan District, Shenzhen, People's Republic of China ~72: LIU, Xiao;LV, Shasha~ 33:CN ~31:202011008211.1 ~32:23/09/2020

2023/01365 ~ Complete ~54:TESTING DEVICE FOR VORTEX-INDUCED VIBRATION RESPONSE OF RISER AND METHOD OF APPLICATION ~71:Guangdong Ocean University, No. 1, Haida Road, Mazhang District, Zhanjiang City, Guangdong Province, 524088, People's Republic of China ~72: CHEN Hui;PAN Xinxiang;PANG Jianhua;YAN Jin;ZHANG Jiwei;ZHONG Linsen~ 33:CN ~31:202110656541X ~32:11/06/2021

2023/01370 ~ Complete ~54:ELECTRO-MECHANICAL LINEAR DRIVE UNIT FOR PRECISE POSITIONING E.G. OF A LARGE REFLECTOR USED IN RADIO ASTRONOMY OR OF A COMMUNICATION ANTENNA ~71:Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V., Hofgartenstrasse 8, MÜNCHEN 80539 , GERMANY, Germany;OHB Digital Connect GmbH, Manfred-Fuchs-Platz 2-4, BREMEN 28359, GERMANY, Germany ~72: SÜSS, Martin;WIECHING, Gundolf;ZIMMERER, Thomas~

2023/01381 ~ Complete ~54:METHODS AND SYSTEMS FOR ELECTRIFYING, DECARBONIZING, AND REDUCING ENERGY DEMAND AND PROCESS CARBON INTENSITY IN INDUSTRIAL PROCESSES VIA INTEGRATED VAPOR COMPRESSION ~71:ENERGY INTEGRATION, INC., Bill Schafer CEO, 710 Sunshine Canyon Drive, Boulder, Colorado, 80302, United States of America ~72: LYNN CRAWFORD;WILLIAM III SCHAFFER~ 33:US ~31:63/052,202 ~32:15/07/2020;33:US ~31:63/172,150 ~32:08/04/2021;33:US ~31:63/172,151 ~32:08/04/2021;33:US ~31:17/374,959 ~32:13/07/2021

2023/01363 ~ Complete ~54:ENTECAVIR MONOPHOSPHATE ALANINAMIDE PHENOLIC ESTER AND MEDICAL USE THEREOF ~71:BEIJING JUNKE HUAYUAN MED TECH CO., LTD., Room 1208, Building 3, 8 Haiying Road, Fengtai District, People's Republic of China ~72: LI, Hongwu;WANG, Xiaozai;ZHONG, Bohua~ 33:CN ~31:202010273139.9 ~32:08/04/2020

2023/01386 ~ Complete ~54:ANTI-VIRAL BIODEGRADABLE MODIFIED POLYSACCHARIDES ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naudé Road, South Africa ~72: BALOGUN, Mohammed~ 33:ZA ~31:2020/04927 ~32:11/08/2020

2023/01938 ~ Complete ~54:IMAGE ENCODING/DECODING METHOD AND DEVICE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0107256 ~32:07/09/2018

2023/01327 ~ Provisional ~54:AN ELECTRONIC CONTENT MANAGEMENT SYSTEM FOR CAREER ADVICE ~71:Ilearner Publishing (Pty) Ltd, 1 Trafford Avenue, Westville, South Africa ~72: Sandile Ivin Magosa~

2023/01328 ~ Provisional ~54:MIXED BLASTING SYSTEM ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: MEYER, Tielman Christiaan;SWART, Johannes Nicholaas Gerhardus~

2023/01331 ~ Complete ~54:METHOD FOR CULTIVATING ADONIS AMURENSIS ~71:Northeast Forestry University, No. 26 Hexing Road, Xiangfang District, Harbin City, Heilongjiang Province, 150036, People's Republic of China ~72: DONG, Xueyun;WANG, Hongfeng;ZHENG, Lantao~ 33:CN ~31:202211470001.3 ~32:23/11/2022

2023/01364 ~ Complete ~54:(2,4,4-TRIMETHYLPENTYL)SILANE OLIGOMER, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:SHANDONG SILICON TECHNOLOGY NEW MATERIAL CO. , LTD., Jining Chemical Industry Park, Huji Town, Jinxiang County, Jining, Shandong, 272200, People's Republic of China ~72: KONG, Fanzhen;LI, Hanghang;LI, Pengtao;QU, Yuan;YANG, Tiantian~ 33:CN ~31:202110724340.9 ~32:29/06/2021

2023/01367 ~ Complete ~54:AVOIDING ELECTROMAGNETIC INTERFERENCE (EMI) IN ELECTRICAL EQUIPMENT AND DRIVE SYSTEMS, E.G. USED IN RADIO ASTRONOMY ~71:Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V., Hofgartenstrasse 8, MÜNCHEN 80539 , GERMANY, Germany;OHB Digital Connect GmbH, Manfred-Fuchs-Platz 2-4, BREMEN 28359, GERMANY, Germany ~72: DUBOIS-DIT-BONCLAUDE, Pierre;GOTTA, Jens;JOST, Matthias;KASEMANN, Christoph;LEINZ, Christian;WIECHING, Gundolf~

2023/01369 ~ Complete ~54:PCSK9 INHIBITORS AND METHODS OF TREATMENT USING SAME ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: KNÖCHEL, Jane;NILSSON, Catarina;REKIC, Dinko;RYDÉN-BERGSTEN, Tina~ 33:US ~31:63/079,947 ~32:17/09/2020;33:US ~31:63/104,107 ~32:22/10/2020;33:US ~31:63/122,199 ~32:07/12/2020;33:US ~31:63/140,373 ~32:22/01/2021

2023/01374 ~ Complete ~54:BALLOON COVER FOR A DELIVERY APPARATUS FOR AN EXPANDABLE PROSTHETIC HEART VALVE ~71:Edwards Lifesciences Corporation, One Edwards Way, IRVINE 92614, CA, USA, United States of America ~72: ANGELICO, Gonzalo German;BIALAS, Michael R.;BRITZMAN, Karl J.;CERQUEIRA, Carla Susana;DO, Vicky Hong;FERNANDEZ, Andrea;HICKS, Kristen;HOANG, Lien Huong Thi;HOYE, Shannon Nicole;LOW, Victoria Mariko;MURAD, Michael C.;NGUYEN, Kim D.;SENESH, Gil;WHITEHEAD, Haley Nicole;WINTERS, Taylor Michael~ 33:US ~31:63/069,567 ~32:24/08/2020;33:US ~31:63/138,890 ~32:19/01/2021

2023/01378 ~ Complete ~54:SOLID FORM OF COMPOUND ~71:INXMED (NANJING) CO., LTD., Floor 3, Building 16-D-2, No.73 Shuwu, Tanmi Road, Jiangbei New District, Nanjing, Jiangsu, 210061, People's Republic of China ~72: JING GAO;YINGXIA SANG;ZAIQI WANG~ 33:CN ~31:202010768730.1 ~32:03/08/2020;33:CN ~31:202010837005.5 ~32:19/08/2020

2023/01385 ~ Complete ~54:MICROEMULSION DRUG DELIVERY SYSTEM FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naudé Road, South Africa ~72: KALOMBO, Michel Lonji;LEMMER, Yolandy;NKUNA, Tshepo

Patric~ 33:ZA ~31:2020/04916 ~32:07/08/2020;33:ZA ~31:2020/04917 ~32:07/08/2020;33:ZA
~31:2020/04918 ~32:07/08/2020

2023/01373 ~ Complete ~54:AAV VECTORS ENCODING PARKIN AND USES THEREOF ~71:Prevail
Therapeutics, Inc., 430 East 29th Street, Suite 940, NEW YORK 10016, NY, USA, United States of America ~72:
ABELIOVICH, Asa;SHYKIND, Benjamin~ 33:US ~31:63/060,353 ~32:03/08/2020

2023/01387 ~ Complete ~54:METHOD FOR MANUFACTURING AMMONIUM SULPHATE AND CALCIUM
CARBONATE FROM PHOSPHOGYPSUM ~71:OCP SA, Hay Erraha, Rue Al Abtal n#176; 2-4,
Morocco;UNIVERSITE MOHAMED VI POLYTECHNIQUE, Lot 660 Hay Moulay Rachid, Morocco ~72: BOULIF,
Rachid;HASSOUNE, Hicham;LACHEHAB, Adil~ 33:FR ~31:2008203 ~32:31/07/2020

2023/01337 ~ Complete ~54:WALL SUPPORT STRAP ~71:DDT MECHANISED MINING SERVICES (PTY) LTD,
34 Unit 3A Harbour Park, 1059 Schooner Ave, Laser Park, South Africa ~72: VAN NIEKERK, Dennis~ 33:ZA
~31:2021/08540 ~32:02/11/2021

2023/01344 ~ Complete ~54:LIQUID FIRE EXTINGUISHING AGENT FOR SODIUM HYDROSULFITE FIRE
SUPPRESSION AND CORRESPONDING SLOW RELEASE TYPE SODIUM HYDROSULFITE ~71:Maoming
Polytechnic, No. 232, Wenming North Road, Maonan District, Maoming City, Guangdong Province, 525000,
People's Republic of China ~72: CHE, Wencheng;CHEN, Shaofeng~

2023/01349 ~ Complete ~54:MODIFIED BUCKET ~71:MINETEC S.A., Av. Am#233;rico Vespuccio, Renca,
Santiago, 2101, Chile ~72: ANTONIO FLORES;BERNARDO LUIS VERA TORRES;FERNANDO ESTEBAN DE
LA FUENTE L#211;PEZ~ 33:CL ~31:202200313 ~32:07/02/2022

2023/01372 ~ Complete ~54:TREATMENT OF DISEASES RELATED TO COLONY-STIMULATING FACTOR 1
RECEPTOR DYSFUNCTION USING TREM2 AGONISTS ~71:Vigil Neuroscience, Inc., One Broadway Suite 07-
300, CAMBRIDGE 02142, MA, USA, United States of America ~72: BRENNAN, Matthew;DUNN, Judith;FISHER,
Richard;LYNCH, Berkley A.;ROBINETTE, Steven~ 33:US ~31:63/061,315 ~32:05/08/2020;33:US
~31:63/129,852 ~32:23/12/2020

2023/01376 ~ Complete ~54:METHODS AND APPARATUS FOR INSTALLATION AND REMOVAL OF
CATALYST CARRIERS ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street,
LONDON EC4A 4AB, UNITED KINGDOM, United Kingdom ~72: CLAXTON, Henry Arthur;GRAHAM,
Simon;HOLDEN, Paul;MALLAM, Benjamin Geoffrey;SHAW, Dean Graham~ 33:GB ~31:2015180.9
~32:25/09/2020

2023/01380 ~ Complete ~54:CAP MADE OF PAPER ~71:TUNAP GMBH & CO. KG, B#252;rgermeister-
Seidl-Strasse 2, 82515, Wolfratshausen, Germany ~72: ANDR#201; HOFMANN;JOCHEN GRUNERT;MAREK
HAUPTMANN;STEFFEN HEROLD~ 33:DE ~31:10 2020 119 510.9 ~32:23/07/2020

2023/01383 ~ Complete ~54:EFFERVESCENT FORMULATION CONTAINING APOAEQUORIN ~71:QUINCY
BIOSCIENCE, LLC, 726 Heartland Trail, Suite 300, Madison, Wisconsin, 53717, United States of America ~72:
MARK Y UNDERWOOD~ 33:US ~31:63/068,084 ~32:20/08/2020

- APPLIED ON 2023/02/03 -

2023/01443 ~ Complete ~54:CLEVIS-ENDED SUSPENSION STRUT MANUFACTURED WITHOUT WELDS
~71:Caterpillar Inc., 100 NE Adams Street, PEORIA 61629-9510, IL, USA, United States of America ~72: CHOW,
Jeffrey;GOSLOVICH, Kurt S.~ 33:US ~31:16/926,213 ~32:10/07/2020

2023/01445 ~ Complete ~54:PROTEINS BINDING NKG2D, CD16 AND EGFR ~71:Dragonfly Therapeutics, Inc., 35 Gatehouse Drive, WALTHAM 02451, MA, USA, United States of America ~72: CHEUNG, Ann F.;DRABIC, Stacey V.;GRINBERG, Asya;JUO, Zong Sean;LIHARSKA, Katia;MORGAN, Christopher Ryan;WAGTMANN, Nicolai~ 33:US ~31:63/061,510 ~32:05/08/2020

2023/01451 ~ Complete ~54:AUTOMATIC NODE FUNGIBILITY BETWEEN COMPUTE AND INFRASTRUCTURE NODES IN EDGE ZONES ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: ALPHONSE KURIAN;ARPAN KUMAR ASTHANA;CHANDRASEKHAR PASUPULETI;HUMAYUN MUKHTAR KHAN;PUSHRAJ AGRAWAL~ 33:NL ~31:2026456 ~32:11/09/2020

2023/01453 ~ Complete ~54:ALUMINIUM MATERIAL AND PROCESS FOR PRODUCING AN ALUMINIUM MATERIAL ~71:ALLA KASAKWITSCH, Anemonenstrasse 9, 17033, Neubrandenburg, Germany ~72: ALLA KASAKWITSCH;UWE ARLIC~ 33:DE ~31:10 2020 117 761.5 ~32:06/07/2020

2023/01409 ~ Complete ~54:METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0037812 ~32:01/04/2018

2023/01415 ~ Complete ~54:STRONG MAGNETIC SEPARATOR DEVICE WITH ULTRASONIC WAVE ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 68, Wenchang Road, 121st Street, Wuhua District, Kunming City, Yunnan Province, People's Republic of China ~72: FA LIN HU;QIN BO CAO;WEN CHAO YAN;YAN JUN LI~ 33:CN ~31:202220419386.X ~32:28/02/2022

2023/01416 ~ Complete ~54:GROOVING SAMPLING DEVICE FOR GEOLOGICAL TUNNELS ~71:KUNMING METALLURGY COLLEGE, No. 388, Xuefu Road, Kunming City, Yunnan Province, People's Republic of China ~72: CHANG HE;CHENG YONG;DAO YAN;JIA FU JU;JIAN LONG;LI JING TING;PAN PING;WU SONG;WU WEI~ 33:CN ~31:202210118145.6 ~32:08/02/2022

2023/01437 ~ Complete ~54:COMPOUNDS AND METHODS FOR TREATMENT OF VIRAL INFECTIONS ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: BUNYAN, ELAINE;CHUN, BYOUNG-KWON;DEMPAH, KASSIBLA E.;HUI, HON C.;KALLA, RAO V.;MACKMAN, RICHARD L.~ 33:US ~31:63/071,134 ~32:27/08/2020;33:US ~31:63/162,283 ~32:17/03/2021;33:US ~31:63/215,310 ~32:25/06/2021

2023/01449 ~ Complete ~54:COMPOUND FOR TARGETING AND DEGRADING PROTEIN, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:SHANGHAI LEADINGTAC PHARMACEUTICAL CO., LTD., Room 501, 781 Cai Lun Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area Shanghai, 201203, People's Republic of China ~72: SHIQIANG LI;YAN FENG~ 33:CN ~31:202010785541.5 ~32:05/08/2020;33:CN ~31:202011513669.2 ~32:18/12/2020

2023/01455 ~ Complete ~54:PROCESS FOR PREPARATION OF MESOTRIONE AND ITS INTERMEDIATES ~71:RALLIS INDIA LIMITED, 23rd Floor, Lodha Excelus, New Cuffe Parade, Off Eastern Freeway, Wadala, India ~72: KUMAR. D, Suresh;PANIRAJ, A.S.;S.V.R, Adithya~ 33:IN ~31:202021032977 ~32:31/07/2020

2023/01392 ~ Provisional ~54:A PISTON ENGINE ~71:SWAN, Patrick Graves, 16 Bray Road, Kenilworth, Cape Town 7708, SOUTH AFRICA, South Africa;SWAN, Stuart Graves, 16 Bray Road, Kenilworth, Cape Town 7708, SOUTH AFRICA, South Africa ~72: SWAN, Patrick Graves;SWAN, Stuart Graves~

2023/01399 ~ Complete ~54:WRIST STRAP TYPE HEALTH MONITOR BASED ON CLOUD PLATFORM ~71:Air Force Medical University, No. 169, Changle West Road, Xincheng District, Xi'an City, Shaanxi Province,

710032, People's Republic of China ~72: LI, Xiao;MA, Di;MA, Zhujing;QIN, Wei;SONG, Lei;WANG, Yidi;WU, Zhongying;YANG, Qun~ 33:CN ~31:202210829852.6 ~32:15/07/2022

2023/01401 ~ Complete ~54:CRISPY FRAGRANT PASTE AND ITS PROCESSING METHOD ~71:Anhui Science And Technology University, No. 9 Donghua Road, Fengyang County, Chuzhou, Anhui Province, 233100, People's Republic of China ~72: Ge ChengDang;Li PeiYan;Wu XiaoWei~

2023/01404 ~ Complete ~54:A SYSTEM FOR SECURE FIRMWARE UPGRADE ~71:VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, SURVEY NO. 3/4, KONDHWA (BUDRUK), PUNE, MAHARASHTRA, 411048, India ~72: DESHPANDE, Pallavi Devendra;GHULE, Gauri Vaijukumar;HABBU, Shraddha Kiran;KADGAONKAR, Tejas Dhananjay;RATNAPARKHI, Archana Kshitij~

2023/01411 ~ 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,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0173164 ~32:28/12/2018;33:KR ~31:10-2018-0173228 ~32:29/12/2018

2023/01420 ~ Complete ~54:RICE CULTIVATION METHOD WITH HIGH WATER AND FERTILIZER UTILIZATION RATIO ~71:Anhui Science And Technology University, 9 Donghua Road, Fengyang, Chuzhou, Anhui, 233100, People's Republic of China ~72: Duan Sumei;Li Ziyu;Liu Shengqin;Men Yuting;Shen Yan;Shen Yan;Shi Qingwen;Zhang Qianxi;Zhao Chaoyue~

2023/01424 ~ Complete ~54:NANO SIL CONTENT MONITORING DEVICE ~71:Bozhou Science and Technology Bureau, No.455 Xiyi Dadao, Bozhou City, Anhui Province, 236800, People's Republic of China;Bozhou University, No.2266 Tangwang Dadao, Bozhou City, Anhui Province, 236800, People's Republic of China ~72: Lu Ning;Mu Kui;Pu Shunchang;Qian Zhengxing;Yu Yue;Zhang Xiaoqian;Zhang Yu;Zhou Xiaohui~

2023/01430 ~ Complete ~54:METHODS FOR PREVENTING AND TREATING CARDIAC DYSFUNCTION AND COVID-19 WITH ACTIVIN A ANTAGONISTS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GLASS, David;MACDONNELL, Scott;MEGNA, Jake;MORTON, Lori~ 33:US ~31:63/068,251 ~32:20/08/2020;33:US ~31:63/111,394 ~32:09/11/2020;33:US ~31:63/139,234 ~32:19/01/2021

2023/01434 ~ Complete ~54:ANTI-VIRAL LACTOFERRIN FACEMASK ~71:HOPE, Paul, Flat 8, 14 Cote Green Lane, Maple Bridge, United Kingdom;VIRUSTATIC LTD., Menai Science Partk, Gaerwen, United Kingdom ~72: HOPE, Paul~ 33:US ~31:63/028,073 ~32:21/05/2020;33:US ~31:17/322,815 ~32:17/05/2021

2023/01440 ~ Complete ~54:NOVEL OLIGONUCLEOTIDES FOR DETECTING STAPHYLOCOCCUS ~71:Beiersdorf AG, Unnastraße 48, HAMBURG 20253, GERMANY, Germany ~72: AHLE, Charlotte;FOELSTER, Heike;HUEPEDEN, Jennifer;REUTER, Joern Hendrik~ 33:EP ~31:20184339.8 ~32:06/07/2020

2023/01447 ~ Complete ~54:ENGINEER RECERTIFICATION ASSISTANT ~71:Wi-Tronix, LLC, 631 E. Boughton Road, # 240, BOLINGBROOK 60440, IL, USA, United States of America ~72: DINESH, Divya;JORDAN, Lawrence B.;MARTINEZ, Roger;MESSINA, Frank;PHADKE, Mihir~ 33:US ~31:63/061,548 ~32:05/08/2020;33:US ~31:17/394,135 ~32:04/08/2021

2023/01391 ~ Provisional ~54:A METHOD FOR PRODUCING AGGLOMERATED PELLETS ~71:SYLVANIA SOUTH AFRICA (PTY) LTD, Constantia Office Park, Cycad House, Block 17, Cnr Hendrik Potgieter Road, 14th Avenue, Weltevreden Park, Gauteng, 1709, South Africa;TIZER INTERNATIONAL (PTY) LTD, 10 Fuschia Way,

Simbithi Estate, Ballito, Kwa-Zulu Natal, 4320, South Africa ~72: JEFFREY SANTOS CHAUKE;RYAN MICHAEL MCCONNACHIE~

2023/01394 ~ Complete ~54:CLASSROOM BEHAVIOR RECOGNITION METHOD AND SYSTEM BASED ON IMAGE ANALYSIS, COMPUTER TERMINAL AND MEDIUM ~71:Hainan University, No. 58, Renmin Avenue, Haikou City, Hainan Province, 570228, People's Republic of China ~72: LIU, Yongna~ 33:CN ~31:202210747957.7 ~32:29/06/2022

2023/01396 ~ Complete ~54:HUMIDITY ADJUSTABLE HEAT PUMP DRYING DEVICE ~71:YANTAI UNIVERSITY, No.30 Qingquan Road, Laishan District, Yantai City, Shandong Province, People's Republic of China;Yantai Vocational College, No.2018 Binhai Middle Road,Laishan District, Yantai City, Shandong Province, People's Republic of China ~72: WU Kun;ZHAO Haibo~

2023/01407 ~ Complete ~54:FRUIT CLAMPING TOOL, IN PARTICULAR FOR CLAMPING PEACHES, MACHINE AND METHOD FOR PITTING FRUIT WITH SUCH A TOOL ~71:CRESCENZO, Biagio, c/o Via San Gregorio VII 1, SALERNO 84125, ITALY, Italy ~72: CRESCENZO, Biagio~ 33:IT ~31:102022000001979 ~32:04/02/2022

2023/01410 ~ Complete ~54:VEHICLE EXIT CONTROL ~71:Turnstar Systems (Pty) Ltd, No. 18, 6th Street, Wynberg, South Africa ~72: SACKS, Craig~ 33:ZA ~31:202108649 ~32:05/11/2021

2023/01425 ~ Complete ~54:COMBINED SOLAR CELL CAPABLE OF IMPROVING SOLAR ENERGY UTILIZATION RATIO ~71:Xinyu University, 2666 Sunshine Avenue, High-tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: He Wei;Liu Danjuan~

2023/01433 ~ Complete ~54:FILTRATION SYSTEM ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Friederike-Franka ALBRECHT;Jan-Erik HILGER;Luc DIEZ;Maxime BROSSARD;Paul DURIGHELLO~ 33:IB ~31:PCT/IB2020/058336 ~32:08/09/2020

2023/01439 ~ Complete ~54:EXCESSIVE TRAIN BRAKE PIPE FLOW DIAGNOSTICS ~71:NEW YORK AIR BRAKE, LLC, 748 Starbuck Avenue, United States of America ~72: PARISIAN, Michael, L~ 33:US ~31:63/059,371 ~32:31/07/2020

2023/01446 ~ Complete ~54:ANTIBODIES TARGETING EGFR AND USE THEREOF ~71:Dragonfly Therapeutics, Inc., 35 Gatehouse Drive, WALTHAM 02451, MA, USA, United States of America ~72: GRINBERG, Asya;JUO, Zong Sean;LIHARSKA, Katia;MORGAN, Christopher Ryan~ 33:US ~31:63/061,507 ~32:05/08/2020

2023/01435 ~ Complete ~54:ENDOSCOPIC SUTURE GRASPER FOR ACHILLES TENDON REPAIR ~71:WEI, Shijun, No.627 Wuluo Road, Wuhan, Hubei, People's Republic of China ~72: WEI, Shijun;WU, Helin~ 33:CN ~31:202121203352.9 ~32:31/05/2021

2023/01441 ~ Complete ~54:COMBINATION OF AN ALPHA2-ADRENOCEPTOR SUBTYPE C (ALPHA-2C) ANTAGONIST WITH A TASK1/3 CHANNEL BLOCKER FOR THE TREATMENT OF SLEEP APNEA ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: DELBECK, Martina;HAHN, Michael~ 33:EP ~31:20184206.9 ~32:06/07/2020

2023/01448 ~ Complete ~54:METHOD AND SYSTEM FOR DETERMINING A TARGET COURSE OF A TRACK FOR POSITION CORRECTION ~71:PLASSER & THEURER EXPORT VON BAHNBAUMASCHINEN GESELLSCHAFT M.B.H., Johannesgasse 3, A-1010, Vienna, Austria ~72: BERNHARD METZGER;FABIAN HINTERBERGER;FLORIAN AUER;KRZYSZTOF WILCZEK;MICHAEL BERGHUBER~ 33:AT ~31:A50782/2020 ~32:16/09/2020

2023/01456 ~ Provisional ~54:ONE-FRAME CALENDAR ~71:MICHAEL KHUMALO, 10 ULSTER CRESCENT, CROWN GARDENS, South Africa ~72: MICHAEL KHUMALO~

2023/01395 ~ Complete ~54:DATA PROCESSING METHOD AND SYSTEM FOR INTELLIGENT AGRICULTURE BASED ON INTERNET OF THINGS, TERMINAL AND MEDIUM ~71:Hainan University, No. 58, Renmin Avenue, Haikou City, Hainan Province, 570228, People's Republic of China ~72: LIU, Debing~ 33:CN ~31:202210754246.2 ~32:29/06/2022

2023/01400 ~ Complete ~54:IMMERSIVE PSYCHOLOGICAL MASSAGE INSTRUMENT ~71:Air Force Medical University, No. 169, Changle West Road, Xincheng District, Xi'an City, Shaanxi Province, 710032, People's Republic of China ~72: CHEN, Chen;CUI, Longbiao;DAI, Hong;GAO, Xing;JIN, Yinchuan;MA, Zhujing;WU, Zhongying;YANG, Qun~ 33:CN ~31:202210548318.8 ~32:20/05/2022

2023/01405 ~ Complete ~54:A SYSTEM FOR OPTIMIZATION OF PARTIAL PRODUCTS IN MODIFIED BOOTH MULTIPLIER ~71:VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, SURVEY NO. 3/4, KONDHWA (BUDRUK), PUNE, MAHARASHTRA, 411048, India ~72: BHOSALE, Sharwari;CHITRE, Abhijit V.;DESHMUKH, Minal;PAVNASKAR, Vaibhav;RAUT, Ketan J.~

2023/01406 ~ Complete ~54:METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0037812 ~32:01/04/2018

2023/01390 ~ Provisional ~54:A DRIVE MOTOR ~71:COHEN, Lloyd, 40 King Fisher Drive, Pecanwood Estate, Broederstroom, North West, 0240, SOUTH AFRICA, South Africa;RADEV, Ivan Nikolov, 220a Blvd. Lomsko Shose, Sofia 1231, BULGARIA, Bulgaria ~72: RADEV, Ivan Nikolov~

2023/01397 ~ Complete ~54:MOVABLE CONSTRUCTION WASTE PROCESSING EQUIPMENT ~71:Huzhou Vocational and Technical College, No. 299, Xuefu Road, Wuxing District, Huzhou City, Zhejiang Province, 313099, People's Republic of China;Zhejiang Dadongwu Group Construction Co., Ltd, No. 2599, Huzhi Road, Wuxing District, Huzhou City, Zhejiang Province, 313099, People's Republic of China ~72: CHEN Jing;GAO Lixin;JIANG Xinying;WU Zeli;XU Bixiang;XU Xueyong;ZHUANG Liqiang~

2023/01426 ~ Complete ~54:IRRIGATION DEVICE FOR PLANTING ALHAGI SPARSIFOLIA SHAP ~71:China Agricultural University, 2 Yuanmingyuan West Road, Haidian District, Beijing, 100089, People's Republic of China;HEBEI AGRICULTURAL UNIVERSITY, No. 289 Lingyusi Street, Baoding, Hebei, 071000, People's Republic of China;XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY CHINESE ACADEMY OF SCIENCES, No. 40, Beijing South Road, Urumqi, Xinjiang, 830011, People's Republic of China ~72: Guan pingyin;Long lanlan;Tang gangliang;Wang lixin;Zhang bo;Zhang zhihao~

2023/01428 ~ Complete ~54:ELECTROCHROMIC GLASS AND PREPARATION METHOD THEREOF ~71:Jiangsu Urban and Rural Construction Vocational College, No. 1, Heyu Road, Yin-Village Vocational Education Park, Zhonglou District, Changzhou City, Jiangsu Province, 213147, People's Republic of China ~72: Li Xiaobo;Lin Gai~

2023/01436 ~ Complete ~54:METHOD, DEPOT FACILITY AND SYSTEM FOR HANDOVER OF A PLURALITY OF PARCELS TO A PLURALITY OF RECIPIENTS AND/OR TO RECEIVE A LARGE NUMBER OF PARCELS FROM MULTIPLE DEPOSITORS ~71:INNOVATIVE ROBOT DELIVERY GMBH, Elisabeth-Enselsing-Strasse 28, 53121, Bonn, Germany ~72: BORGER, Christian;MAYER, Boris;SCHARES, Christof~ 33:DE ~31:10 2020 214 660.8 ~32:20/11/2020;33:DE ~31:10 2020 216 558.0 ~32:23/12/2020;33:DE ~31:10 2020 216 560.2 ~32:23/12/2020;33:DE ~31:10 2021 200 970.0 ~32:03/02/2021;33:DE ~31:10 2021 201 155.1 ~32:08/02/2021;33:DE ~31:10 2021 103 926.6 ~32:18/02/2021;33:DE ~31:10 2021 104 973.3

~32:02/03/2021;33:DE ~31:10 2021 201 964.1 ~32:02/03/2021;33:DE ~31:10 2021 207 617.3
~32:16/07/2021;33:DE ~31:10 2021 207 620.3 ~32:16/07/2021

2023/01438 ~ Complete ~54:AA V5-BASED VACCINE AGAINST SARS-COV-2 ~71:JOINT STOCK COMPANY
"BIOCAD", Pomeshch. 89, str.1, d. 38, ul. Svyazi, vn. Ter. G. poselok, Russian Federation ~72:
GERSHOVICH, Pavel Mikhailovich;IAKOVLEV, Pavel Andreevich;KONDINSKAIA, Diana
Aleksandrovna;MOROZOV, Dmitry Valentinovich;PROKOFYEV, Alexander Vladimirovich;SPIRINA, Natalia
Aleksandrovna;STRELKOVA, Anna Nikolaevna~ 33:RU ~31:2020128658 ~32:28/08/2020

2023/01444 ~ Complete ~54:GENERATING NOISY COPIES OF TRAINING DATA IN A METHOD FOR
DETECTING ANOMALIES ~71:Suez International, Tour CB 21, 16, Place de l'Iris, PARIS LA DEFENSE
92040, CEDEX, FRANCE, France ~72: MOSCOVIZ, Roman~ 33:FR ~31:2007444 ~32:16/07/2020

2023/01389 ~ Provisional ~54:FIRE EXTINGUISHMENT ~71:DUNCAN, Douglas Malcolm, 901 Cloud Cover
Lane, Leander, United States of America;DUNCAN, Grant Malcolm, 901 Cloud Cover Lane, Leander, United
States of America;DUNCAN, Malcolm Douglas, 901 Cloud Cover Lane, Leander, United States of America ~72:
DUNCAN, Douglas Malcolm;DUNCAN, Grant Malcolm;DUNCAN, Malcolm Douglas~

2023/01393 ~ Complete ~54:GREENING PLANTING STRUCTURE DESIGN METHOD USING POLYMER
DRAINAGE PROFILED SHEET TO DRAIN SALT ~71:SHANGHAI INSTITUTE OF TECHNOLOGY, No. 120,
Caobao Road, Xuhui District, Shanghai, 200235, People's Republic of China ~72: HE, Kun;YE, Sihao~ 33:CN
~31:202211701249.6 ~32:29/12/2022

2023/01452 ~ Complete ~54:DISAGGREGATED COMPUTER SYSTEMS ~71:MICROSOFT TECHNOLOGY
LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72:
CHRISTIAN L BELADY;HUSAM A ALISSA;IOANNIS MANOUSAKIS;MARCUS FELIPE FONTOURA;MARK
EDWARD SHAW;RICARDO G BIANCHINI;WINSTON ALLEN SAUNDERS~ 33:US ~31:17/033,322
~32:25/09/2020

2023/01414 ~ Complete ~54:A FIREARM MONITORING DEVICE ~71:CEREBUS CYBER FORENSICS (PTY)
LTD., 17 Scott Street, Waverley, Johannesburg, 2090, South Africa ~72: TRISTAN GARETH PARKES~ 33:ZA
~31:2021/08545 ~32:03/11/2021

2023/01418 ~ Complete ~54:GYROSCOPE-BASED INTEGRATED LINEAR GEOLOGICAL OCCURRENCE
MEASURING DEVICE ~71:KUNMING METALLURGY COLLEGE, No. 388, Xuefu Road, Kunming City, Yunnan
Province, People's Republic of China ~72: CHANG HE;CHENG YONG;DAO YAN;JIA FU JU;JIAN LONG;JIANG
MEI NING;LI JING TING;LU JIA;PAN PING;PU XIN YAO;SHI RUI;WANG YAN MIN;WANG YU XIANG;WU
WEI;YAO ZHI QI~ 33:CN ~31:202210217650.6 ~32:08/03/2022

2023/01421 ~ Complete ~54:METHOD FOR PREPARING CATHODE CATALYST WITH HIGH CATALYTIC
ACTIVITY FOR FUEL CELL ~71:Anhui Science And Technology University, 9 Donghua Road, Fengyang,
Chuzhou, Anhui, 233100, People's Republic of China;Bengbu Yiai Electronic Technology Co., Ltd, (in Yiai
Electronics Industrial Park)West side of Bengxi Road, Bengbu City, Anhui Province, People's Republic of
China;Tianchang Senior Technical School, No. 18, Weisan Road, Tianchang Economic Development Zone, Anhui
Province, People's Republic of China ~72: Fan Xiaoyu;Fan Zhiping;Guo Rui;Ren Guodong;Yao Yue;Zhang
Qiaolin;Zhang Yushan~

2023/01423 ~ Complete ~54:ANALYSIS DISPLAY RACK FOR INTELLIGENT MATHEMATIC AND APPLIED
MATHEMATIC PROBLEM ~71:JIAMUSI UNIVERSITY, No.258 Xuefu St. Jiamusi, Heilongjiang, People's
Republic of China ~72: Han Zai Quan;Li Li;Li Sheng Ju;Ma Li Guo;Sun Yan Bin;Wang Han Zhong;Wang
Xian Kun;Wang Yong;Zhao Lin~

2023/01431 ~ Complete ~54:BLAST FURNACE FOR IRONMAKING PRODUCTION ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Dominique SERT;Edouard IZARD~

2023/01450 ~ Complete ~54:LYOPHILIZED LIVE BORDETELLA VACCINES ~71:ILIAD BIOTECHNOLOGIES, LLC, 4581 Weston Road, Suite #260, Weston, Florida, 33331, United States of America ~72: MARCEL THALEN-33:US ~31:63/066,020 ~32:14/08/2020

2023/01454 ~ Complete ~54:INHIBITORS OF APOL1 AND METHODS OF USING SAME ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: AKIRA JOSEPH SHIMIZU;BRAD D MAXWELL;ELENA DOLGIKH;HAOXUAN WANG;HARDWIN O'DOWD;JESSICA HOWARD OLSEN;JINGRONG CAO;JOHN E COCHRAN;JON H COME;JUN MYUN AHN;LESLIE A DAKIN;MICHAEL AARON BRODNEY;SAMANTHA ANGLE;STEVEN DAVID STONE;SUGANTHINI S NANTHAKUMAR;TIMOTHY J SENTER~ 33:US ~31:63/070,705 ~32:26/08/2020

2023/01413 ~ 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,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0173164 ~32:28/12/2018;33:KR ~31:10-2018-0173228 ~32:29/12/2018

2023/01419 ~ Complete ~54:A RESPIRATORY ASSISTANCE APPARATUS, AND VALVES FOR RESPIRATORY ASSISTANCE APPARATUSES ~71:Nelson Mandela University, Room 1207, 12th Floor, Main Building, Summerstrand Campus (South), University Way, Port Elizabeth 6031, SOUTH AFRICA, South Africa ~72: CAWOOD, John Henry;PHILLIPS, Russell~ 33:GB ~31:2115876.1 ~32:04/11/2021

2023/01422 ~ Complete ~54:ASSEMBLE STRUCTURE OF INTELLIGENT DATA ACQUISITION CONTROLLER ~71:Jiangsu Province Xuzhou Technician College, Xuzhou Technician College, Quanshan District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Chen Ziang;Dong Cuicui;He Junhao;Li Weitong;Li Yaqiu;Sheng Ziqi;Sun Haoyang;Sun Lu;Wang Haoran;Wang Nan;Wang Ruixue;Xie Fei;Xu Haojun;Zhang Jianshuo;Zhang Le;Zhang Lin;Zhang Tianlei~

2023/01432 ~ Complete ~54:DEVICE TO INJECT A REDUCING GAS INTO A SHAFT FURNACE ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Dominique SERT;Edouard IZARD;Jérôme DAULMERIE~

2023/01442 ~ Complete ~54:RECOMBINANT VACCINIA VIRUS ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: BINDER, Joseph John;EISENBRAUN, Michael Dale;LEES, Clare;MYERS, Jeremy Shawn;PATTERSON, James Travis~ 33:US ~31:63/051,628 ~32:14/07/2020;33:US ~31:63/051,890 ~32:14/07/2020

2023/01388 ~ Provisional ~54:PERSISTENT ALPR VISUAL TRACKING SYSTEM ~71:Shaun Mkhohliwe, 2082 Giranu Street, South Africa ~72: Shaun Sipumeze Mkhohliwe~

2023/01398 ~ Complete ~54:METHOD FOR PRODUCING SILICON CARBIDE MICROPOWDER FOR SILICON NITRIDE BONDED SILICON CARBIDE PRODUCT ~71:SHENYANG CHANGXIN NEW MATERIAL CO., LTD, Cuisanjazi Village, Zhangjiatun Town, Xinmin City, Shenyang City, Liaoning Province, 110327, People's Republic of China ~72: LIU, Changchun;REN, Jiang;REN, Xia;REN, Yun;ZHANG, Qiuyue~

2023/01402 ~ Complete ~54:CRISPY FRAGRANT PASTE SUITABLE FOR FRENCH FRIES AND ITS PROCESSING METHOD ~71:Anhui Science And Technology University, No. 9 Donghua Road, Fengyang County, Chuzhou, Anhui Province, 233100, People's Republic of China ~72: Li PeiYan;Wu XiaoWei;Yan Han~

2023/01403 ~ Complete ~54:A SYSTEM FOR CIGARETTE SMOKER IDENTIFICATION AT PUBLIC PLACES USING MACHINE LEARNING AND IOT ~71:VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, SURVEY NO. 3/4, KONDHWA (BUDRUK), PUNE, MAHARASHTRA, 411048, India ~72: AGARWAL, Kashish;BHAT, Aditya;MALI, Manisha Pravin;SAKHARE, Sachin;WANJALE, Kirti~

2023/01408 ~ Complete ~54:METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0037812 ~32:01/04/2018

2023/01412 ~ 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,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0173164 ~32:28/12/2018;33:KR ~31:10-2018-0173228 ~32:29/12/2018

2023/01417 ~ Complete ~54:NOVEL INTEGRATED LINEAR GEOLOGICAL OCCURRENCE MEASURING DEVICE ~71:KUNMING METALLURGY COLLEGE, No. 388, Xuefu Road, Kunming City, Yunnan Province, People's Republic of China ~72: CHANG HE;CHENG YONG;DAO YAN;JIA FU JU;JIAN LONG;LI JING TING;LIU CONG;LU JIA;PAN PING;WU WEI;ZHANG XIAO LUN~ 33:CN ~31:202210135702.5 ~32:15/02/2022

2023/01427 ~ Complete ~54:COMBINE URBAN DISASTER SIMULATION EXPERIMENT DEVICE ~71:General Hospital of Xuzhou Mining Group, No.32 coal road, XuzhouCity, Jiangsu Province , 221000, People's Republic of China;Jiangsu Academy Of Safety Science And Technology, No. 9 Huayuan Road, Nanjing, Jiangsu Province, 210000, People's Republic of China;Jiangsu College of Safety Technology, No. 1, Yucai Road, Jiawang District, Xuzhou City, Jiangsu Province, 221011, People's Republic of China ~72: Gao Zhenning;Sheng Qi;Wang Lin~ 33:CN ~31:202210248179.7 ~32:14/03/2022

2023/01429 ~ Complete ~54:CONVEYOR ROLLER TUBE ~71:PROK CONVEYOR COMPONENTS PTY LTD, 285 Collier Road, Australia ~72: ANDERSON, Raymond;KUBALA, Brayden~ 33:AU ~31:2020902575 ~32:23/07/2020

- APPLIED ON 2023/02/06 -

2023/01467 ~ Complete ~54:SYNCHRONOUSLY REMOVE AND INSTALL SPLICE TYPE BUILDING TEMPLATES ~71:Lu 'an Likang Sign Co., LTD, Building 59, Liansheng Industrial Park, Jin 'an District, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: Siwen Gao~

2023/01470 ~ Complete ~54:MULTIFUNCTIONAL BUILDING WALL ~71:Lu 'an Likang Sign Co., LTD, Building 59, Liansheng Industrial Park, Jin 'an District, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: Siwen Gao~

2023/01494 ~ Complete ~54:A TEST METHOD FOR DETERMINING THE FATIGUE CRACK INITIATION LIFE ~71:CIVIL AVIATION FLIGHT UNIVERSITY OF CHINA, No. 46, Section 4, Nanchang Road, Guanghan, Deyang City, Sichuan Province, 618307, People's Republic of China ~72: Lei XIONG;Luopeng XU;Mengquan HAO;Rulun ZHANG;Shi HU;Youquan DAN;Zhixin LI~

2023/01495 ~ Complete ~54:A METHOD FOR TRANSLATION BY USING A SPEECH ASSISTED DICTIONARY AUTOMATION SYSTEM ~71:Dr. Debendra Muduli, C. V. Raman Global University, Bhubaneswar, Odisha, 752054, India;Dr. Dillip Khamari, Vikash Institute of Technology, Bargarh, Odisha, 768028, India;Dr. Ram Chandra Barik, C. V. Raman Global University, Bhubaneswar, Odisha, 752054, India;Dr. Rashmikanta Pati, Sambalpur University Institute of Information Technology, Burla, Odisha, 768019, India;Dr. Rojalina Priyadarshini, C. V. Raman Global University, Bhubaneswar, Odisha, 752054, India;Dr. Surendra Kumar Nanda, C. V. Raman

Global University, Bhubaneswar, Odisha, 752054, India;Dr. Tusharkanta Samal, C. V. Raman Global University, Bhubaneswar, Odisha, 752054, India ~72: Dr. Debendra Muduli;Dr. Dillip Khamari;Dr. Ram Chandra Barik;Dr. Rashmikanta Pati;Dr. Rojalina Priyadarshini;Dr. Surendra Kumar Nanda;Dr. Tusharkanta Samal~

2023/01505 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO CATALYST CARRIERS FOR TUBULAR REACTORS AND ASSOCATED METHODS ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM, United Kingdom ~72: CLARKSON, Jay Simon;CLAXTON, Henry Arthur;MALLAM, Benjamin Geoffrey~ 33:GB ~31:2015186.6 ~32:25/09/2020

2023/01506 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO THERMOCOUPLES FOR TUBULAR REACTORS ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM, United Kingdom ~72: CLARKSON, Jay Simon;CLAXTON, Henry Arthur;DYER, Andrew Lewis;MALLAM, Benjamin Geoffrey~ 33:GB ~31:2015181.7 ~32:25/09/2020

2023/01937 ~ Complete ~54:COMPOUNDS ~71:SPERO THERAPEUTICS, INC., 675 Massachusetts Avenue, 14th Floor, United States of America ~72: BOAKES, Steven;BROWN, Pamela;COLEMAN, Scott;DAWSON, Michael;DUPERCHY, Esther;LESTER, Roy;RIVERS, Dean;SIMONOVIC, Mona~ 33:US ~31:62/689,602 ~32:25/06/2018

2023/01457 ~ Provisional ~54:BATTERY BACKUP UPS INVERTER ~71:Ashandra Singh, 121 Pretoria Avenue, South Africa ~72: Ashandra Singh~

2023/01460 ~ Provisional ~54:MY OWN SEVEN MILLION JOB PROVISION/MASSIVE EMPLOYMENT AND EMPOWERMENT ON LOS KOP WATER PROJECT ~71:Mabovane Stemmer Jiyane, 382 Zithabiseni B, South Africa;Mabovane Stemmer Jiyane, 382 Zithabiseni B, South Africa ~72: Mabovane Stemmer Jiyane~

2023/01461 ~ Provisional ~54:A VEHICLE REMOTE AND A METHOD OF CONTROLLING SUCH A REMOTE ~71:SWANEPOEL, Petrus Albertus, 13 Augusta Street, Sonheuwel, NELSPRUIT 1200, Mpumalanga, SOUTH AFRICA, South Africa ~72: SWANEPOEL, Petrus Albertus~

2023/01465 ~ Complete ~54:FOUNDATION PIT SLOPE PROTECTION AND REINFORCEMENT DEVICE FOR CIVIL ENGINEERING ~71:Zhengzhou University of Aeronautics, No.15 Wenyuan West Road, Zhengdong New District, Zhengzhou, Henan Province, People's Republic of China ~72: CHEN Mengze;WANG Jibing;WEI Xiaogang;YUE Pengwei;ZHAO Rui~

2023/01469 ~ Complete ~54:FOLDING BUILDING TEMPLATE ~71:Lu 'an Likang Sign Co., LTD, Building 59, Liansheng Industrial Park, Jin 'an District, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: Siwen Gao~

2023/01486 ~ Complete ~54:METHOD AND DEVICE FOR CODING/DECODING IMAGE USING INTRA PREDICTION ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0107250 ~32:07/09/2018;33:KR ~31:10-2018-0110815 ~32:17/09/2018;33:KR ~31:10-2018-0112528 ~32:19/09/2018

2023/01487 ~ Complete ~54:METHOD AND DEVICE FOR CODING/DECODING IMAGE USING INTRA PREDICTION ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0107250 ~32:07/09/2018;33:KR ~31:10-2018-0110815 ~32:17/09/2018;33:KR ~31:10-2018-0112528 ~32:19/09/2018

2023/01496 ~ Complete ~54:LIGHT SOURCE COMBINATION FOR TARGETED CORRECTION OF VISUAL DISEASES RELATED TO FORM SENSES, LIGHT SENSES AND COLOR SENSES AFTER EYE GENE

SEQUENCING ~71:Guangzhou Huangpu Aperture Targeted Photon Technology CO., LTD, 1st Floor, Building 6B, No.2 Fenghuang 3rd Road, Huangpu District, Guangzhou, People's Republic of China ~72: Linqi, WU~

2023/01497 ~ Complete ~54:GRIP APPLICATOR ~71:ADVANI, Nihal Hiroo, Chellaram House, 5th Floor, Carmichael Road, India ~72: MANDAL, Tirtha;SUDHIR, Sanandan~ 33:IN ~31:202021028727 ~32:06/07/2020

2023/01508 ~ Provisional ~54:RAIN WATER HARVESTING ~71:THEYS VAN ROOYEN, 283 PLATT AVENUE,, South Africa ~72: THEYS VAN ROOYEN~

2023/01476 ~ Complete ~54:RETRIEVAL AND ANALYSIS METHOD, DEVICE AND MEDIUM FOR PRE-AUDIT INFORMATION OF ACADEMIC JOURNALS ~71:Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, No.818 South Beijing Road, Xinsiqu District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: Gao Yuting;Liu Na;Wang Qingqing;Yang Jinhua;Yu Ruide;Zhang Haiyan;Zhang Yinling~

2023/01478 ~ Complete ~54:EVALUATION METHOD CONCERNING GREEN CARBON SEQUESTRATION IN COMPREHENSIVE LOW-CARBON TRANSFORMATION OF MINE SHAFTS AND GROUND IN RESOURCE-DEPLETED MINING AREA ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, 1 Daxue Road, Xuzhou City, Jiangsu Province, 221000, People's Republic of China;Jiangsu Guoneng Deep Well Safety Mining Technology Co., Ltd., No. 235 Huaihai West Road, Xuzhou City, Jiangsu Province, 221000, People's Republic of China;Jiangsu Xukuang Energy Co., Ltd., Floor 3, Building E2, Software Park, Xuzhou Economic Development Zone, Xuzhou City, Jiangsu Province, 221000, People's Republic of China;Xuzhou Mining Group Co., Ltd., No. 7 Qiantang Road, Yunlong District, Xuzhou City, Jiangsu Province, 221000, People's Republic of China ~72: CHEN Qinghua;FENG Xingzhen;LI Jianfeng;LIU Jinhu;LIU Sanxing;SHI Binghua;WANG Xiangyang;XIN Haihui~ 33:CN ~31:202211411185.6 ~32:11/11/2022

2023/01481 ~ Complete ~54:A HEAT SOURCE BODY REHABILITATION PHYSIOTHERAPY BELT FOR CERVICAL AND LUMBAR VERTEBRAE ~71:Liu Huajun, Room 2303, Building 7, Huban Building, Hongkou District, Shanghai, People's Republic of China ~72: Liu Huajun~

2023/01484 ~ Complete ~54:HIGH-EFFICIENCY FUEL ECONOMIZER FOR AUTOMOBILE ENGINES ~71:Yee lian guy, 27-1-102, Zijin Aoling Garden, Yunlong District, Xuzhou, Jiangsu, Malaysia ~72: Liu Xuemei;Yee lian guy~

2023/01489 ~ Complete ~54:IMAGE ENCODING/DECODING METHOD AND DEVICE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0034174 ~32:25/03/2018;33:KR ~31:10-2018-0034882 ~32:27/03/2018

2023/01501 ~ Complete ~54:PREPARATION METHOD FOR EPOXY RESIN CLEANING ADHESIVE, AND APPLICATION THEREOF ~71:LIMING VOCATIONAL UNIVERSITY, Wang Jingyi No. 298, West Tonggang Street, Fengze District, Quanzhou, Fujian, 362000, People's Republic of China ~72: WANG, Jingyi;XIAO, Hui;ZENG, Feihu;ZHAN, Yingxu;ZHANG, Qinghai~ 33:CN ~31:202011371508.4 ~32:30/11/2020

2023/01503 ~ Complete ~54:POSITIONING METHOD, DEVICE AND SYSTEM FOR TRANSMITTING DEVICE, AND STORAGE MEDIUM AND ELECTRONIC DEVICE ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, People's Republic of China ~72: CHEN, Yijian;DOU, Jianwu;FANG, Min;PENG, Lin;ZHANG, Nan~ 33:CN ~31:202010615392.8 ~32:30/06/2020

2023/01507 ~ Complete ~54:COMPACTING ELEMENTS FOR REDUCING FLUIDISATION IN CATALYST CARRIER FOR TUBULAR REACTORS AND ASSOCIATED METHODS ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM, United

Kingdom ~72: CLARKSON, Jay Simon;CLAXTON, Henry Arthur;MALLAM, Benjamin Geoffrey~ 33:GB
~31:2015185.8 ~32:25/09/2020

2023/01757 ~ Provisional ~54:ITAS BLASH RESISTANT CAGE (BRC) ~71:Benjamin Luyt, 245 3rd Ave, South Africa ~72: Benjamin Luyt~

2023/01458 ~ Provisional ~54:EZHAIL ~71:Tshepo Leonette Masoga, 6829 Shimerock hills street, South Africa ~72: tshepo Leonette Masoga~

2023/01463 ~ Complete ~54:A DEVICE FOR ORIENTATING AN OUTLET OF A SPRINKLER ~71:UNIVERSITY OF SOUTH AFRICA, 1 Preller Street Muckleneuk Ridge, South Africa ~72: STOFFBERG, GERRIT HENDRIK~ 33:ZA ~31:2022/01686 ~32:09/02/2022

2023/01474 ~ Complete ~54:FOWL ADENOVIRUS 4 STRAIN, VACCINE, VACCINE COMPOSITION AND MULTI-COMBINED VACCINE THEREOF, AND APPLICATIONS OF FOWL ADENOVIRUS 4 STRAIN, VACCINE AND VACCINE COMPOSITION ~71:Liaocheng University, No. 1, Hunan Road, Dongchangfu District, Liaocheng City, Shandong Province, 252000, People's Republic of China ~72: CAO, Shengliang;CHEN, Lele;LI, Yubao;LIU, Cheng;LU, Jianbiao;PEI, Lanying;SI, Zhenshu;WANG, Kaili~

2023/01462 ~ Provisional ~54:MINING METHOD ~71:HALL, Alethea Rosalind Melanie, Erf 525, 8/RE, Zwartkop 525, MOGALE CITY 1739, Gauteng, SOUTH AFRICA, South Africa ~72: HALL, Alethea Rosalind Melanie~

2023/01464 ~ Complete ~54:PREPARATION AND APPLICATION OF PROBIOTIC FERTILIZER COATED WITH TRICHODERMA AND BACILLUS ~71:Shanghai Jiao Tong University, No. 800 Dongchuan Road, Minhang District, Shanghai, 200000, People's Republic of China ~72: CHEN, Jie;DING, Yi~

2023/01471 ~ Complete ~54:PREFABRICATED STEEL CONSTRUCTION WALL ~71:Lu 'an Likang Sign Co., LTD, Building 59, Liansheng Industrial Park, Jin 'an District, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: Siwen Gao~

2023/01472 ~ Complete ~54:METHOD FOR CULTIVATING SALT-TOLERANT PLANTS OF XUXIANG KIWIFRUIT ~71:Southwest Forestry University, 300#, Bailongsi, Panlong District, Kunming City, Yunnan Province, People's Republic of China ~72: Bian Wen;Liu Xiaozhen;Wei Zhuo;Wu Jiexin;Zhang Hanyao;Zhang Zhiming~

2023/01477 ~ Complete ~54:AUTOMATIC PRESSURE MEASURING SYSTEM FOR CEREBROSPINAL FLUID IN LUMBAR PUNCTURE ~71:ZHEJIANG PROVINCIAL PEOPLE'S HOSPITAL (AFFILIATED PEOPLE'S HOSPITAL, HANGZHOU MEDICAL COLLEGE), NO. 158, SHANGTANG ROAD, People's Republic of China ~72: DING, Kaiqi~ 33:CN ~31:202210301505.6 ~32:24/03/2022

2023/01480 ~ Complete ~54:DEVICE AND METHOD FOR PREVENTING AND CONTROLLING SAPROLEGNIA BY OZONE IN RAINBOW TROUT FRY BREEDING PROCESS ~71:Heilongjiang River Fishery Research Institute of Chinese Academy of Fishery Sciences, NO.232 Hesong Street, Daoli District, Harbin, Heilongjiang Province, 150070, People's Republic of China;Yantai Jinghai Blue Seed Industry Research Institute Co.LTD, 6F,No.2 Kunlunshan Road,Economic and Technological Development Zone, Yantai, Shandong Province, 264006, People's Republic of China;Yantai Jinghai Ocean Fishery Co.LTD, 6F,No.2 Kunlunshan Road,Economic and Technological Development Zone, Yantai, Shandong Province, 264006, People's Republic of China ~72: CAO Xuebin;DONG Fulin;GAO Bin;GU Wei;GUO Fuyuan;HUANG Tianqing;LIN Jiliang;LIU Enhui;LIU Xuemao;WANG Gaochao;XU Gefeng;ZHANG Lili;ZHENG Longhua~

2023/01482 ~ Complete ~54:AGRICULTURAL AND SIDELINE PRODUCT DRYING DEVICE AND A CONTROL METHOD ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic and Technological Development Zone, Shenyang, Liaoning Province, 110870, People's Republic of China ~72: Dong Shiyuan;Huang Xiaoyue;Jin Hong;Liu Weiwei;Qi Shuo;Wu Lingfeng;Wu Yao;Zou Mingyang~

2023/01490 ~ Complete ~54:IMAGE ENCODING/DECODING METHOD AND DEVICE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~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

2023/01493 ~ Complete ~54:A PROFICIENT FREQUENCY REGULATION SYSTEM FOR MICROGRID OPERATIONS ~71:Amar Kumar Barik, Assistant Professor, Electrical Engineering Department. Institute of Technology, Nirma University. Ahmedabad, PIN-382481 Gujarat, India;Dulal Chandra Das, Associate Professor, Electrical Engineering Department. NIT Silchar-788010 Dist.: Cachar Assam, India;Subash Chandra Sahoo, National Institute of Technology Silchar, Dist: Cachar, Assam, Pin: 788010, India ~72: Amar Kumar Barik;Dulal Chandra Das;Subash Chandra Sahoo~

2023/01485 ~ Complete ~54:A CONSTRUCTION METHOD OF DUCK ENTERITIS VIRUS WITH ENVELOPE GLYCOPROTEIN GG GENE DELETION ~71:Zhejiang Academy of Agricultural Sciences, 298 Desheng Middle Road, Shangcheng District, Hangzhou City, Zhejiang Province, 310021, People's Republic of China ~72: Cun Zhang;Jionggang Hua;Liu Chen;Tao Yun;Weicheng Ye;Yinchu Zhu;Zheng Ni~

2023/01488 ~ Complete ~54:IMAGE ENCODING/DECODING METHOD AND DEVICE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~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

2023/01491 ~ Complete ~54:A COORDINATED HYBRID MICROGRID SYSTEM WITH QUASI-OPPOSITIONAL SELFISH-HERD OPTIMIZATION ~71:Amar Kumar Barik, Assistant Professor, Electrical Engineering Department. Institute of Technology, Nirma University. Ahmedabad, PIN-382481 Gujarat, India;Dulal Chandra Das, Associate Professor, Electrical Engineering Department. NIT Silchar-788010 Dist.: Cachar Assam, India;Subash Chandra Sahoo, National Institute of Technology Silchar, Dist: Cachar, Assam, Pin: 788010, India ~72: Amar Kumar Barik;Dulal Chandra Das;Subash Chandra Sahoo~

2023/01502 ~ Complete ~54:AN EPIDEMIOLOGICAL INFORMATION COLLECTOR WITH A PROTECTIVE MECHANISM ~71:North China University of Science and Technology, No.21, Bohai Avenue, Caofeidian New Town, Caofeidian District, Tangshan City, Hebei Province, 063210, People's Republic of China ~72: Jian SUN;Shichao YANG;Yue LI~ 33:CN ~31:202211677388.X ~32:26/12/2022

2023/01498 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS AND METHODS OF USING THE SAME FOR TREATING CANCER ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-machi Chiyoda-ku, Tokyo, 101-8535, Japan ~72: ARAM OGANESIAN;HAROLD KEER;KIM-HIEN DAO~ 33:US ~31:63/107,010 ~32:29/10/2020

2023/01500 ~ Complete ~54:METHODS OF IDENTIFYING THE PRESENCE AND/OR CONCENTRATION AND/OR AMOUNT OF PROTEINS OR PROTEOMES ~71:PROTEOTYPE DIAGNOSTICS LTD, 483 Green Lanes, United Kingdom ~72: YATES, Emma Victoria~ 33:GB ~31:2012749.4 ~32:14/08/2020;33:GB ~31:2110514.3 ~32:21/07/2021

2023/01504 ~ Complete ~54:EDIBLE COATINGS FOR MAINTAINING FRUIT QUALITY ~71:THE STATE OF ISRAEL, MINISTRY OF AGRICULTURE & RURAL DEVELOPMENT, AGRICULTURAL RESEARCH

ORGANIZATION (ARO) (VOLCANI INSTITUTE), Volcani Center, Israel ~72: ALKAN, Noam;FEYGENBERG, Oleg;MAURER, Dalia;POVERENOV, Elena;SAIDI, Lilach~ 33:US ~31:63/061,346 ~32:05/08/2020

2023/01459 ~ Provisional ~54:GASMISER ~71:JOHANN DE KOCK, FARM DOORNFONTEIN, South Africa ~72: JOHANN DE KOCK~

2023/01466 ~ Complete ~54:A CLEANING ROBOT FOR GLASS CURTAIN WALL OF HIGH-RISE BUILDINGS ~71:Shenyang University of Technology, 111, Shenliao West Road, Economic & Technological Development Zone, Shenyang, 110870, People's Republic of China ~72: CHEN, Zihui;DUAN, Yuting;LIU, Jialong;MA, Jinyu;PAN, Li;TANG, Henan;WANG, Miancai;WU, Hao~

2023/01468 ~ Complete ~54:EASY TO OPERATE BUILDING TEMPLATE ~71:Lu 'an Likang Sign Co., LTD, Building 59, Liansheng Industrial Park, Jin 'an District, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: Siwen Gao~

2023/01473 ~ Complete ~54:SUPPORT SYSTEM FOR CROSS-VALIDATION METHODS OF ACADEMIC JOURNAL PAPERS ~71:Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, No.818 South Beijing Road, Xinchiqu District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: Gao Yuting;Liu Na;Wang Qingqing;Yang Jinhua;Yu Ruide;Zhang Haiyan;Zhang Yinling~

2023/01475 ~ Complete ~54:AN APPLE PEELING DEVICE WITH PEEL COLLECTION STRUCTURE ~71:JINHUA POLYTECHNIC, 1188 Wuzhou Street, Wucheng District, Jinhua City, Zhejiang Province, 321000, People's Republic of China ~72: WANG,Zhiming;XIONG,Yongsen;ZHANG, Zhengzhong~

2023/01479 ~ Complete ~54:A HIGHLY EFFICIENT PRUNING DEVICE FOR XANTHOCERAS SORBIFOLIA BUNG ~71:Gansu Province Academy of Qilian Water Resource Conservation Forests Research Institute, No.3, Donghuan Road, Ganzhou District, Zhangye City, 734000, Gansu Province, People's Republic of China ~72: Ming ZHAO;Xiaoyan LI;Yilin WANG~

2023/01483 ~ Complete ~54:MYCOBACTERIUM TUBERCULOSIS SPECIFIC IFN-GAMMA/IL-2/TNF-ALPHA TRIPLE-COLOR FLUOROSPOT ASSAY KIT AND ITS APPLICATION ~71:Peking Union Medical College Hospital, Chinese Academy of Medical Sciences, No.1 Shuaifuyuan, Wangfujing, Dongcheng District, Beijing, People's Republic of China ~72: Liu Xiaoqing;Zhang Lifan~

2023/01492 ~ Complete ~54:A METHOD FOR ANALYZING LESSOR KNOWN TRADITIONAL RECIPES ~71:DR. ABHAYA R. JOGLEKAR, PROFESSOR OF HOME SCIENCE, GOVERNMENT D.B. GIRLS'P.G. COLLEGE, RAIPUR, CHHATTISGARH, 492001, India;DR. SARITA DUBEY, PROFESSOR OF HISTORY, GOVERNMENT D.B. GIRLS'P.G. COLLEGE, RAIPUR, CHHATTISGARH, 492001, India;POONAM PRADHAN, STUDENT, M.SC. FOODS AND NUTRITION, GOVERNMENT D.B. GIRLS'P.G. COLLEGE, RAIPUR, CHHATTISGARH, 492001, India;PRATIBHA PRADHAN, STUDENT, M.SC. FOODS AND NUTRITION, GOVERNMENT D.B. GIRLS'P.G. COLLEGE, RAIPUR, CHHATTISGARH, 492001, India;VARSHA HIRWANI, STUDENT, M.SC. FOODS AND NUTRITION, GOVERNMENT D.B. GIRLS'P.G. COLLEGE, RAIPUR, CHHATTISGARH, 492001, India;VIDEH NANDINI, RESEARCH SCHOLAR, GOVERNMENT D.B. GIRLS'P.G. COLLEGE, RAIPUR, CHHATTISGARH, 492001, India ~72: DR. ABHAYA R. JOGLEKAR;DR. SARITA DUBEY;POONAM PRADHAN;PRATIBHA PRADHAN;VARSHA HIRWANI;VIDEH NANDINI~

2023/01499 ~ Complete ~54:DETERGENT COMPOSITION COMPRISING ISETHIONATE SURFACTANT ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: NARAYANAN SUBRAHMANIAM;PANCHANAN BHUNIA~ 33:EP ~31:20192941.1 ~32:26/08/2020

- APPLIED ON 2023/02/07 -

2023/01518 ~ Complete ~54:INTELLIGENT CONTROL METHOD FOR NONLINEAR VIBRATION OF PIEZOELECTRIC LAMINATED PLATES ~71:HUAINAN NORMAL UNIVERSITY, Dongshan West Road, Tianjiaan District, Huainan City, Anhui Province, People's Republic of China ~72: GUO Xiangpeng;HUO Yuhong;ZHOU Yi;ZUO Hongkun~

2023/01528 ~ Complete ~54:BRIQUETTE ~71:Tshwane University of Technology, Arcadia Campus, 175 Mandela Drive, Arcadia, PRETORIA 0083, Gauteng Province, SOUTH AFRICA, South Africa ~72: MOLELEKWA, Gomotsegang Fred~ 33:ZA ~31:2021/10758 ~32:22/12/2021

2023/01532 ~ Complete ~54:AN IMPROVED MEASLES VIRUS VACCINE VECTOR BASED ON MULTIPLE TANDEM ADDITIONAL TRANSCRIPTION UNITS (ATUS) ~71:INSTITUT PASTEUR, 25-28, rue du Docteur Roux, France ~72: COMBREDET, Chantal;GRACIAS, Ségolène;NAMPRACHAN-FRANTZ, Phanramphoei;TANGY, Frédéric~ 33:EP ~31:20305789.8 ~32:08/07/2020

2023/01546 ~ Complete ~54:A PLUG COMPRISING A COMBUSTION RETARDING ADDITIVE AND USES THEREOF ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: AOUN, Walid Abi;HEPWORTH, Richard~ 33:GB ~31:2013121.5 ~32:21/08/2020;33:GB ~31:2109079.0 ~32:24/06/2021;33:GB ~31:2109701.9 ~32:05/07/2021

2023/01509 ~ Provisional ~54:ROCKEXTEN ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2023/01520 ~ Complete ~54:SELENIUM-ENRICHED FOLIAR FERTILIZER AND APPLICATION THEREOF ~71:Jiangsu Xuhuai Huaiyin Agricultural Science Research Institute, No. 104, Huaihai North Road, Huai'an City, Jiangsu Province, 223001, People's Republic of China ~72: WANG, Guolian;WANG, Wei;WU, Chuanwan;ZHAO, Jianfeng~

2023/01524 ~ Complete ~54:BRIDGE CRACK MEASURING DEVICE FOR BRIDGE ENGINEERING ~71:Hunan City University, No. 518, Yingbin Road, Yiyang City, Hunan Province, People's Republic of China ~72: FANG Weiqi;FENG Haoxiong;PENG Zhigao;WANG Xinzhong;YANG Aocheng~ 33:CN ~31:2022101693257 ~32:23/02/2022

2023/01545 ~ Complete ~54:UNDERGROUND WORKSITE VEHICLE POSITIONING CONTROL ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: HÄMÄLÄINEN, Jyrki~ 33:EP ~31:20193811.5 ~32:01/09/2020

2023/01515 ~ Complete ~54:CATHETER BALLOON PUNCTURING DEVICE ~71:The Second Affiliated Hospital of Shandong First Medical University, No. 366, Taishan Street, Tai'an City, Shandong Province, 271000, People's Republic of China ~72: QI, Yan;SUN, Ying~

2023/01516 ~ Complete ~54:A TRADITIONAL CHINESE MEDICINE PRODUCT AND PREPARATION METHOD THAT CAN IMPROVE IMMUNITY AND KILL CORONAVIRUS ~71:Li Zude, No.2-77 Huagu Street, Guangde City (county-level city), Xuancheng, Anhui, People's Republic of China ~72: Li Zude~

2023/01535 ~ Complete ~54:CAMPTOTHECIN ANALOGS CONJUGATED TO A GLUTAMINE RESIDUE IN A PROTEIN, AND THEIR USE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: HAN, Amy~ 33:US ~31:63/051,172 ~32:13/02/2020;33:US ~31:63/154,531 ~32:26/02/2021

2023/01539 ~ Complete ~54:GENE THERAPIES FOR NEURODEGENERATIVE DISORDERS ~71:Prevail Therapeutics, Inc., 430 East 29th Street, Suite 940, NEW YORK 10016, NY, USA, United States of America ~72:

ABELIOVICH, Asa;LEWIS, Travis;SEVIGNY, Jeffrey;USPENSKAYA, Olga~ 33:US ~31:63/063,852
~32:10/08/2020

2023/01542 ~ Complete ~54:PENTAVALENT VACCINE AGAINST NEISSERIA MENINGITIDIS COMPRISING A
SYNTHETIC MEN A ANTIGEN ~71:GlaxoSmithKline Biologicals SA, Rue de l'Institut 89, RIXENSART B-
1330, BELGIUM, Belgium ~72: ADAMO, Roberto;ROMANO, Maria Rosaria;TONTINI, Marta~ 33:GB
~31:2013262.7 ~32:25/08/2020

2023/01513 ~ Complete ~54:METHOD FOR DETERMINING AGE OF GROUND WATER AFFECTED BY
POLLUTION ~71:Chinese Research Academy of Environmental Sciences, No. 8 Dayangfang, Anwai Beiyuan,
Chaoyang District, Beijing, 100012, People's Republic of China ~72: GAO, Hongjie;LENG, Peifang;LI, Fadong;LI,
Zhao;LIANG, Ming;LIU, Jia;QIAO, Yunfeng;ZHANG, Qiuying~

2023/01521 ~ Complete ~54:IN VITRO CULTURE METHOD FOR IMMATURE EMBRYO OF TOMATO
~71:Ningxia University, School of Agriculture, Ningxia University, No. 489, Helanshan West Road, Xixia District,
Yinchuan City, Ningxia, 750021, People's Republic of China ~72: CHENG, Guoxin;GAO, Yanming;GUO,
Meng;MA, Haixia;WANG, Kaibin;WANG, Lin;WANG, Xiaomin;ZHANG, Xueyan;ZHAO, Wen~

2023/01537 ~ Complete ~54:FREQUENCY-INCREASED AND MICRO-VIBRATED OCEAN CURRENT ENERGY
TRIBOELECTRIC NANOGENERATOR ~71:CHANGLE COUNTY INVESTMENT COOPERATION PROMOTION
CENTER, Floor 3, Building 1, Chengguan Business Community, Changle County,, Weifang,, Shandong, 262415,
People's Republic of China;GUANGDONG OCEAN UNIVERSITY, No.1 Haida Road, Mazhang District,,
Zhanjiang,, Guangdong, 524088, People's Republic of China ~72: HUANG, Xili;LING, Ziyun;PAN,
Xinxiang;PANG, Hongchen;SUN, Zibin;WEI, Bin;YANG, Fang;YU, Haihua~ 33:CN ~31:202110983303.X
~32:25/08/2021

2023/01541 ~ Complete ~54:TROLLEY-ASSISTED WORK MACHINE, ARRANGEMENT AND METHOD
~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72:
JUNTUNEN, Raimo~

2023/01548 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING MESOTHELIN POSITIVE
CANCERS ~71:A2 Biotherapeutics, Inc., 30301 Agoura Road, Suite 210, AGOURA HILLS 91301, CA, USA,
United States of America ~72: HAMBURGER, Agnes;KAMB, Carl Alexander;TOKATLIAN, Talar;WARSHAVIAK,
Dora Toledo~ 33:US ~31:63/068,245 ~32:20/08/2020;33:US ~31:63/085,971 ~32:30/09/2020

2023/01530 ~ Complete ~54:SEALING CAP FOR A CONTAINER CLOSURE AND CONTAINER CLOSURE
COMPRISING SUCH A SEALING CAP ~71:PROTECHNA S.A., Avenue de la Gare 14, Switzerland ~72: KLATT,
Bernd~ 33:DE ~31:10 2020 123 861.4 ~32:14/09/2020

2023/01533 ~ Complete ~54:USE OF BENZISOSELAZOLE DERIVATIVE FOR ANTI-CORONAVIRUS AND
CONTROL OF INTERSTITIAL LUNG DISEASE (ILD) RELATED TO CORONAVIRUS ~71:SHANGHAI YUANXI
MEDICINE CORP., Bldg 1-3, 400 Fangchun Road China (Shanghai) Pilot Free Trade Zone, People's Republic of
China ~72: YIN, Hanwei;ZENG, Huihui~ 33:CN ~31:202010373848.4 ~32:06/05/2020

2023/01543 ~ Complete ~54:METHODS AND SYSTEMS FOR ALIGNING A COMMISSURE OF A PROSTHETIC
HEART VALVE WITH A COMMISSURE OF A NATIVE VALVE ~71:Edwards Lifesciences Corporation, One
Edwards Way, IRVINE 92614, CA, USA, United States of America ~72: ANGELICO, Gonzalo German;BIALAS,
Michael R.;BRITZMAN, Karl J.;CERQUEIRA, Carla Susana;FERNANDEZ, Andrea;HICKS, Kristen;HOYE,
Shannon Nicole;LOW, Victoria Mariko;MURAD, Michael C.;SENEESH, Gil;WHITEHEAD, Haley Nicole~ 33:US
~31:63/069,567 ~32:24/08/2020;33:US ~31:63/138,890 ~32:19/01/2021

2023/01511 ~ Provisional ~54:UTILIZING POTENTIAL ENERGY FOR COST SAVING AND SAFETY IN TRANSPORTATION ~71:Johan van Wyk, 7 St Luke Road, South Africa ~72: Johan van Wyk~

2023/01517 ~ Complete ~54:INTELLIGENT LIGHTING DEVICE FOR BUILDINGS THAT IS EASY TO INSTALL ~71:xuzhou college of industrial technology, No.1, Xiwang Road, Gulou District, Xuzhou, Jiangsu, 221000, People's Republic of China ~72: Chen Yan;Yang Qiong;Yue Zixuan~

2023/01519 ~ Complete ~54:ANTI-CLOGGING SELF-CLEANING NEGATIVE PRESSURE DRAINAGE DEVICE ~71:AFFILIATED HOSPITAL OF WEIFANG MEDICAL UNIVERSITY, No. 2428, Yuhe Road, Kuiwen District, Weifang City, Shandong Province, People's Republic of China ~72: FENG Lingjun;HUO Huixia~

2023/01526 ~ Complete ~54:SIMULTANEOUS NITRIFICATION/DENITRIFICATION (SNDN) IN SEQUENCING BATCH REACTOR APPLICATIONS ~71:EVOQUA WATER TECHNOLOGIES LLC, 210 Sixth Avenue, Suite 3300, Pittsburgh, Pennsylvania, 15222, United States of America ~72: BRANDON MARTIN OLSON~ 33:US ~31:62/558,570 ~32:14/09/2017

2023/01544 ~ Complete ~54:USE OF COPOLYMERS HAVING A SPECIFIC MOLAR MASS DISTRIBUTION FOR LOWERING THE COLD FILTER PLUGGING POINT OF FUELS ~71:CPE Lyon Formation Continue et Recherche - CPE Lyon FCR, 43 Boulevard du 11 Novembre 1918, VILLEURBANNE 69100, FRANCE, France;Centre National de la Recherche Scientifique (CNRS), 3 rue Michel Ange, PARIS 75016, FRANCE, France;TotalEnergies OneTech, La Défense 6, 2 Place Jean Millier, COURBEVOIE 92400, FRANCE, France;Universite Claude Bernard Lyon 1, 43 blvd du 11 novembre 1918, VILLEURBANNE 69100, FRANCE, France ~72: CENACCHI-PEREIRA, Ana-Maria;D'AGOSTO, Franck;MONTEIL, Vincent;WOLPERS, Arne~ 33:FR ~31:2008192 ~32:31/07/2020

2023/01547 ~ Complete ~54:LOCKING APPARATUSSES, SYSTEMS, AND METHODS OF PROVIDING ACCESS CONTROL ~71:Havenlock Inc., 188 Front St., Suite 116-112, FRANKLIN 37064-5078, TN, USA, United States of America ~72: BANKS, Kenneth Clay;BERTELLI, Alexander Michael;KUHLMAN, Fredrick Bachman~ 33:US ~31:63/058,970 ~32:30/07/2020

2023/01510 ~ Provisional ~54:PPPS ~71:Johannes Hermanus Boucher, 10 Fairway Crescent, Robinpark, South Africa;Lourens Cornelius De La Rey, 27 Convent Road, South Africa ~72: Johannes Hermanus Boucher;Lourens Cornelius De La Rey~

2023/01512 ~ Complete ~54:METHOD FOR ACCURATELY RETRIEVING AND POSITIONING PHOTSENSITIVE FILM IMAGE INFORMATION ~71:BEIJING DASHENFENGHUA TECHNOLOGY CO., LTD., Room 406-2, Building 5, Yard 98, Lianshihu West Road, Mentougou District, Beijing, 102308, People's Republic of China ~72: BAI, Wei;LIU, Shangyuan;LIU, Wei~

2023/01514 ~ Complete ~54:MULTIFUNCTIONAL SKIN EXAMINING DEVICE ~71:The Second Affiliated Hospital of Shandong First Medical University, No. 366, Taishan Street, Tai'an City, Shandong Province, 271000, People's Republic of China ~72: QI, Yan;SUN, Ying~

2023/01536 ~ Complete ~54:A DISPENSABLE FOOD CONTAINER ~71:B.BOX FOR KIDS DEVELOPMENTS PTY LTD, Unit 5, 677 Springvale Road, Mulgrave, Victoria, 3170, Australia ~72: LISA EDLUND TJERNBERG;SYLVAIN JACQUES AMATOURY;VICTOR ZHEN JUN TOH~ 33:AU ~31:2020207877 ~32:24/07/2020

2023/01538 ~ Complete ~54:COMBINATION OF ZIBOTENTAN AND DAPAGLIFLOZIN FOR THE TREATMENT OF CHRONIC KIDNEY DISEASE ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN,

Sweden ~72: AHLSTRÖM, Christine;GREASLEY, Peter;MENZIES, Robert;SKRTIC, Stanko~ 33:US
~31:63/050,147 ~32:10/07/2020;33:US ~31:63/196,793 ~32:04/06/2021

2023/01522 ~ Complete ~54:A METHOD FOR DETECTING CANCEROUS CELLS IN ASYMPTOTIC PATIENTS USING MONOCLONAL ANTIBODY DRUGS ~71:Dr. Amarendranath Choudhury, Assistant Professor, Department of Zoology, Patharkandi College, Patharkandi, Karimganj, Assam, 788724, India;Dr. Ashish Kumar Sarangi, Assistant Professor, Department of Chemistry, School of Applied Science, Centurion University of Technology and Management, Balangir, Odisha, 767001, India;Dr. Kapil Paiwal, Professor, Department of Oral & Maxillofacial Pathology, Daswani Dental College & Research Center, IPB-19, RIICO Institutional Area Rd., Ranpur, Kota, Rajasthan, 324005, India;Dr. Kumar Pratyush, Assistant Professor, Department of Pharmaceutical Chemistry, Shri Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule, Maharashtra, 424001, India;Dr. Rudra Narayan Sahoo, Assistant Professor, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar, Odisha, 752050, India;Dr. Sushma Jaiswal, Assistant Professor, Department of Computer Science & Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur, Chhattisgarh, 495009, India;Mr. Dhilleshwara Rao Vana, Alumnus, Bharathidasan University, Tiruchirappalli, Tamil Nadu, 620024, India;Mr. Tarun Jaiswal, Research Scholar, Department of Computer Application, National Institute of Technology (NITRR), Raipur, Chhattisgarh, 492010, India;Mr. Wishard la Vincent Barreto, Assistant Professor, School of Forensic Science, Centurion University of Technology and Management, Bhubaneswar, Odisha, 752050, India;Mrs. Madhu Chhanda Mishra, Associate Professor, Sri Jayadev College of Pharmaceutical Sciences, Naharkanta, Bhubaneswar, Odisha, 751012, India ~72: Dr. Amarendranath Choudhury;Dr. Ashish Kumar Sarangi;Dr. Kapil Paiwal;Dr. Kumar Pratyush;Dr. Rudra Narayan Sahoo;Dr. Sushma Jaiswal;Mr. Dhilleshwara Rao Vana;Mr. Tarun Jaiswal;Mr. Wishard la Vincent Barreto;Mrs. Madhu Chhanda Mishra~ 33:IN ~31:202231074077 ~32:20/12/2022

2023/01527 ~ Complete ~54:SELF-RECHARGING STAND-ALONE MONITORING SYSTEM ~71:CORNELL PUMP COMPANY LLC, 16261 Southeast 130th Avenue, Clackamas, Oregon, 97015, United States of America ~72: ADAM LINDEMAN;COLIN O'CALLAGHAN;ERICK JOHNSON;WILLIAM JAMES WARREN~ 33:US
~31:63/308,735 ~32:10/02/2022

2023/01534 ~ Complete ~54:A PERSONAL CARE DEVICE ~71:SHIRPURWALA, Fazle-Imdad Altaf, ALTAF VILLA, A5, MAHESHNAGAR, NEAR SHANTINAGAR GARDEN, MAHARASHTRA, NAGPUR 440002, INDIA, India ~72: SHIRPURWALA, Fazle-Imdad Altaf~ 33:IN ~31:202021000672 ~32:07/07/2020

2023/01540 ~ Complete ~54:TOTAL ANKLE REPLACEMENT INSTRUMENTS, ASSEMBLY, AND METHODS OF USE ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: DOGUÉ, Joseph;LEE, Daniel J.;MARIK, Greg;RAYMOND, Spanky~ 33:US ~31:62/705,801
~32:16/07/2020

2023/01523 ~ Complete ~54:A KIND OF DRENCHING DEVICE FOR REMEDIATION OF HEAVY METAL CONTAMINATED SOIL ~71:Gansu Agricultural University, No.1 Yingmen Village, Anning District, Lanzhou City, Gansu Province, 730070, People's Republic of China ~72: Jun WU~

2023/01525 ~ Complete ~54:CONTAINER SEEDLING CULTIVATION METHOD AND DEVICE FOR PAULOWNIAS ~71:Research Institute of Non-timber Forestry, Chinese Academy of Forestry, No.3 Weiwu Road, Jinshui District, Zhengzhou City, Henan Province, 450000, People's Republic of China ~72: Baoping Wang;Chaowei Yang;Haijiang Zhou;Jie Qiao;Shanshan Xu;Wei Duan;Yang Zhao;Yanzhi Feng~

2023/01529 ~ Complete ~54:METHOD TO PRODUCE A SYNTHESIS PRODUCT, E.G. METHANE UTILIZING METHANOGENIC MICROORGANISMS IN A MICROBIAL ELECTROLYSIS CELL (MEC) BY APPLYING A SEPARATED NUTRIENT FEEDING STRATEGY ~71:ELECTROCHAEA GMBH, Semmelweisstrasse 3, Germany

~72: COCIANCICH, Matteo;HAFENBRADL, Doris;PATEL, Nitant;RODRIGO, Jose~ 33:DE ~31:10 2020 123 184.9 ~32:04/09/2020

2023/01531 ~ Complete ~54:GABION TYPE PROTECTION STRUCTURE ~71:OFFICINE MACCAFERRI S.P.A., Via Kennedy, 10, Italy ~72: Paolo BIANCHINI~ 33:IT ~31:102020000020947 ~32:03/09/2020

2023/01549 ~ Complete ~54:LOCALIZATION SYSTEM AND METHOD ~71:GEONAVO POSITIONING SYSTEMS, INC., 26 Oxe Close, Hammonds Plains, Canada ~72: CURTICAPEAN, Ioan Romulus;HARDIE, Stewart Ian;HUDSON, Benjamin Griffen Ryan;WILLIAMS, Malcolm~ 33:US ~31:63/061,438 ~32:05/08/2020

- APPLIED ON 2023/02/08 -

2023/01553 ~ Complete ~54:RICE TRANSPLANTING DEVICE ~71:Institute of Crop Cultivation and Tillage, Heilongjiang Academy of Agricultural Sciences, No. 800, Chuangxin Third Road, Songbei District, Harbin City, Heilongjiang Province, 150000, People's Republic of China ~72: DONG, Wenjun;JIANG, Shukun;LENG, Chunxu;LI, Kun;LI, Liang;LIU, Kai;LIU, Youhong;LV, Guoyi;LV, Yuping;MA, Rui;MENG, Ying;SHANG, Quanyu;SUN, Bing;TANG, Ao;WANG, Lizhi;XIA, Tianshu;YANG, Xianli;ZHANG, Guangchen;ZHANG, Xijuan~

2023/01557 ~ Complete ~54:INTELLIGENT DOCUMENT RETRIEVAL SYSTEM ~71:YUNNAN ARTS UNIVERSITY, No. 1577, Yuhua Road, Chenggong District, Kunming City, Yunnan Province, People's Republic of China ~72: ZHU Guirong~

2023/01560 ~ Complete ~54:METHOD OF PREPARING A HIGH TOUGHNESS AND HIGH RESILIENCE SILANE CROSS-LINKED POLYETHYLENE MATERIAL ~71:Tianjin University of Science & Technology, Tianjin University of Science & Technology, No.9,13th Street, Tianjin Economic-Technological Development Area, Tianjin, People's Republic of China ~72: ZENG Wei~

2023/01563 ~ Complete ~54:A CONVEYING DEVICE WITH DETECTION FUNCTION ~71:Dong Yangyang, Beijing Middle Road Anhui Engineering University, Wuhu, People's Republic of China ~72: Dong Yangyang~

2023/01564 ~ Complete ~54:A STRENGTH TEST DEVICE FOR ENGINEERING INVESTIGATION ~71:Wu Helong, Anhui Normal University, Yijiang District, Wuhu, People's Republic of China ~72: Wu Helong;Zhao Wenjuan~ 33:CN ~31:202211563496.4 ~32:07/12/2022

2023/01569 ~ Complete ~54:AUTHENTICATION METHODS AND SYSTEMS ~71:LICENTIA GROUP LIMITED, 3 Assembly Square, Britannia Quay, United Kingdom;MYPINPAD LIMITED, 3 Assembly Square, Britannia Quay, United Kingdom ~72: PIKE, Justin~ 33:GB ~31:1509030.1 ~32:27/05/2015;33:GB ~31:1509031.9 ~32:27/05/2015;33:GB ~31:1520741.8 ~32:24/11/2015;33:GB ~31:1520760.8 ~32:24/11/2015

2023/01570 ~ Complete ~54:CONNECTING DEVICE FOR BEARS OF MULTI-STAGE GEAR MECHANISM ~71:ZHUCHENG HUILIN PRECISION MACHINERY CO. LTD., (South of Zhujia Village) Small and Medium-sized Enterprise Entrepreneurship Service Base, Huanghua Town, Zhucheng County, Weifang City, Shandong Province, People's Republic of China ~72: ZHIYUN HAN~

2023/01574 ~ Complete ~54:INTELLIGENT LEASING MANAGEMENT SYSTEM FOR BOX-TYPE SUBSTATION EQUIPMENT AND WORKING METHOD THEREOF ~71:Shandong Aipu Electric Equipment Co., Ltd. Jinan High-tech Branch, No. 2199, West Airport Road, Lingang, High-tech Industrial Development Zone, Jinan, Shandong Province, 250107, People's Republic of China;Shandong University, No. 27, Shanda South Road, Licheng District, Jinan, Shandong Province, 250000, People's Republic of China ~72: Bo LIU;Hequan LI;Jianjun LIU;Jing WANG;Jinzhong ZHENG;Renfeng YUE;Shengli HAN;Xuezhong FAN;Yuanbin LIU;Yuhai ZHANG;Zhengfang WANG~

2023/01586 ~ Complete ~54:PYRAZOLONE FORMYL PEPTIDE 2 RECEPTOR AGONISTS ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: CHATTOPADHYAY, Amit Kumar;CLARK, Charles G.;JOHNSON, James A.;KICK, Ellen K.;PI, Zulan;SESHADRI, Balaji;SHIRUDE, Pravin Sudhakar;SMALLHEER, Joanne M.;VALENTE, Meriah Neissel;WURTZ, Nicholas R.~ 33:US ~31:63/049,831 ~32:09/07/2020

2023/01551 ~ Provisional ~54:RESEALABLE BEVERAGE CAN WITH CROWN ~71:Martin Hempel, Endeavour Farm, South Africa ~72: Martin Hempel~

2023/01554 ~ Complete ~54:A METHOD FOR PREPARING SIC/TIO2 BASED PHOTOCATALYST BY USING WASTE SOLAR PHOTOVOLTAIC PANEL AND A PHOTOCATALYST ~71:Shanghai Polytechnic University, No.2360 Jinhai Road, Pudong New Area, Shanghai City, 200041, People's Republic of China ~72: Fei Li;Lijun XU;Mouyong HUANG;Qing HUANG;Wenyi YUAN~

2023/01559 ~ Complete ~54:ROOF WITH RAINWATER COLLECTION AND IRRIGATION STRUCTURE ~71:Zhengzhou University of Aeronautics, No. 2, University Middle Road, Erqi District, Zhengzhou, Henan, People's Republic of China ~72: Hongyu HAN;Junfa WANG;Lijuan ZHU;Wei CHEN;Yang SU~ 33:CN ~31:202320071142.1 ~32:10/01/2023

2023/01562 ~ Complete ~54:SNAIL PREPARATION PROCESS FOR RETORT COOKING AND PACKAGING ~71:MICALLEF, Stanley Charles, 10 Orange Road, Farrarmere, South Africa ~72: MICALLEF, Stanley Charles~ 33:ZA ~31:2022/03735 ~32:01/04/2022

2023/01565 ~ Complete ~54:A METAL BUILDING MATERIAL PROCESSING FORGING FRAME ~71:Yang Lili, 1009, Building 4, Service Outsourcing Park, Yijiang District, Wuhu, People's Republic of China ~72: Fu Lingling;Yang Lili~ 33:CN ~31:202211624685.8 ~32:16/12/2022

2023/01568 ~ Complete ~54:A BRAZING MATERIAL FOR COPPER-ALUMINUM FLAME BRAZING, PREPARATION METHOD AND APPLICATION THEREOF ~71:China Machinery General Institute of Ningbo Smart Machine Tool Research Institute Co., Ltd., No. 929 Binhai Avenue, Xiangshan County, Ningbo City, Zhejiang Province, 315700, People's Republic of China;Jiangsu University of Science and Technology, No. 2 Mengxi Road, Jingkou District, Zhenjiang City, Jiangsu Province, 212003, People's Republic of China;Zhengzhou Machinery Research Institute Co., Ltd., No. 149 Science Avenue, High-tech Industrial Development Zone, Zhengzhou City, Henan Province, 450001, People's Republic of China ~72: Datian Cui;Jinfeng Geng;Juan Pu;Long Fu;Mingyuan Zhao;Quanbin Lu;Shuiqing Wang;Xiupeng Li;Yuanxun Shen;Yunfeng Chang~ 33:CN ~31:202211717355.3 ~32:29/12/2022

2023/01573 ~ Complete ~54:MOBILE RECYCLING ARRANGEMENT ~71:MATTHEWS, Andrew Abel, 358 James West Avenue, Eersterust, PRETORIA 0022, Gauteng, SOUTH AFRICA, South Africa;MATTHEWS, David, 266 Venue Street, Toekomsrus, RANDFONTEIN 1759, Gauteng, SOUTH AFRICA, South Africa ~72: MATTHEWS, David~ 33:ZA ~31:2021/10820 ~32:23/12/2021

2023/01575 ~ Complete ~54:NICOTINE ELECTRONIC VAPING DEVICES HAVING NICOTINE PRE-VAPOR FORMULATION LEVEL DETECTION AND AUTO SHUTDOWN ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BACHE, Terrance, Theodore;GALLAGHER, Niall;HAWES, Eric;KEEN, Jarrett;LAU, Raymond, W.;SUNDAR, Rangaraj, S.~ 33:US ~31:16/929,452 ~32:15/07/2020

2023/01578 ~ Complete ~54:A FREQUENCY CONVERSION MICROWAVE ENERGY SAVING CO-PYROLYSIS METHOD FOR REMOVING TAR FROM OILY SLUDGE AND BIOGAS RESIDUE BY IN-SITU CRACKING ~71:Harbin Institute of Technology, No.92, Xidazhi Street, Nangang District, Harbin City, Heilongjiang Province,

150001, People's Republic of China ~72: Jun ZHANG;Linlin YIN;Yifan CHEN;Zhengrui CHEN~ 33:CN
~31:202211663110.7 ~32:23/12/2022

2023/01589 ~ Complete ~54:PROTEIN SECRETION INHIBITORS ~71:Kezar Life Sciences, 4000 Shoreline
Court, Ste. 300, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: MCMINN,
Dustin;RAO, Meera~ 33:US ~31:63/072,690 ~32:31/08/2020

2023/01600 ~ Complete ~54:ARRANGEMENT FOR DISPENSING THE CONTENTS OF A PACKET
~71:ALEKSEY ILJICH NONIASHVILI, ul. Ukhtomskogo, d.9, kv.69, g. Electrogorsk, Moscow region, 142530,
Russian Federation ~72: ALEKSEY ILJICH NONIASHVILI;ANDREY RUDOLFOVICH GOLDBERG~ 33:RU
~31:2020124170 ~32:21/07/2020

2023/01605 ~ Complete ~54:PARASITE DETECTION METHOD AND SYSTEM BASED ON ARTIFICIAL
INTELLIGENCE, AND TERMINAL DEVICE ~71:ACADEMY OF MILITARY MEDICAL SCIENCE, PLA, 27 Taiping
Road, Haidian District, People's Republic of China ~72: CUI, Yujun;SONG, Yajun;TENG, Yue;YANG, Shan~
33:CN ~31:202010693922.0 ~32:17/07/2020

2023/01588 ~ Complete ~54:NOVEL DISEASE RESISTANT WATERMELON PLANTS ~71:Syngenta Crop
Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BHATTARAI,
Kishor;KINKADE, Matthew;OLIVER, Marc;RIZZOLATTI, Carine;SANDHU, Ajay~ 33:EP ~31:20192669.8
~32:25/08/2020

2023/01596 ~ Complete ~54:MODIFIED GLUTAMATE DEHYDROGENASE AND USE THEREOF ~71:HUNAN
LIER BIOTECH CO., LTD., No. 10 Shan Yan Road, Jia Shan Street Jinshi, Hunan, 415400, People's Republic of
China ~72: JUNYING FAN;WEI XU;XINKAI XIE~ 33:CN ~31:202010659106.8 ~32:09/07/2020

2023/01584 ~ Complete ~54:WINDMILL ELECTRICAL POWER SYSTEM AND TORQUE ENHANCED
TRANSMISSION ~71:WASHINGTON, Jerry Dewayne Jr., 15617 Hwy 82 East Duncanville, United States of
America ~72: WASHINGTON, Jerry Dewayne Jr.~ 33:CA ~31:3086465 ~32:09/07/2020

2023/01592 ~ Complete ~54:METHOD OF PREPARING LIPID VESICLES ~71:Micro pore Technologies Limited,
1 Massey Road, Thornaby, STOCKTON-ON-TEES TS17 6DY, CLEVELAND, UNITED KINGDOM, United
Kingdom ~72: HAYWARD, David;KERR, Alex;TROTTER, Sam~ 33:GB ~31:2011367.6 ~32:22/07/2020

2023/01598 ~ Complete ~54:SMART MULTIFUNCTIONAL KEY DOOR VIEWER BOX AND SYSTEM
~71:SHENZHEN JUCIYUN TECHNOLOGY CO., LTD., 402A1, Building 709, Pengji Industrial Zone No. 2,
Pengxing Road, Pengxing Community Liantang Street, Luohu District Shenzhen, Guangdong 518111, People's
Republic of China ~72: LINGYUN GUO~ 33:CN ~31:202010684977.5 ~32:16/07/2020

2023/01552 ~ Complete ~54:PRIMER AND PROBE COMBINATION FOR SIMULTANEOUSLY DETECTING
THREE COMPOSITIONS OF COARSE CEREALS, KIT AND METHOD ~71:TECHNOLOGY CENTER OF
DALIAN CUSTOMS, 11th Floor, No. 60, Changjiang East Road, Zhongshan District, Dalian, Liaoning Province,
116007, People's Republic of China ~72: JIANG, Li;LIANG, Bing;SUN, Jiyang;WAN, Chao;XU, Junyi;YANG,
Aifu;YANG, Chunhua;ZHENG, Qiuyue~

2023/01555 ~ Complete ~54:A HEAVY METAL CONTENT IDENTIFICATION DEVICE FOR FOREST
ECOLOGICAL SOIL ~71:Gansu Province Academy of Qilian Water Resource Conservation Forests Research
Institute, No.3, East Ring Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of
China;Gaotai County Urban Landscaping Bureau, No. 486, Jiefang North Road, Binhe Community, Chengguan
Town, Gaotai County, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Hongyan
XU;Qiaoxia GUO;Wanqi ZENG;Xingpeng ZHAO;Xiumei YANG~

2023/01561 ~ Complete ~54:A VISUAL SCENE RECOGNITION METHOD BASED ON DEEP LEARNING
~71:Jiangsu Ocean University, No.59 Cangwu Road, Haizhou District, Lianyungang City, Jiangsu Province,
222005, People's Republic of China ~72: Cheng SU;Chengrong GE;Huiru HAN;Jianchao YAO;Jinxue ZHANG;Kai
ZHOU;Linyi CHEN;Liu LIU;Tianchi ZHANG;Yuting TANG;Yuxiang DOU~

2023/01567 ~ Complete ~54:A GEOTECHNICAL SAMPLING DEVICE ~71:Wu Helong, Anhui Normal University,
Yijiang District, Wuhu, People's Republic of China ~72: Wu Helong;Zhao Wenjuan~ 33:CN ~31:202211598151.2
~32:12/12/2022

2023/01572 ~ Complete ~54:AN AUTOMATED LATHE FOR SHAFT MACHINING ~71:QINGDAO VOCATIONAL
AND TECHNICAL COLLEGE, No. 369, Qiantangjiang Road, Economic and Technological Development Area,
Qingdao, Shandong Province, 266555, People's Republic of China ~72: GAO, Jian;LI, Wen;ZONG, Deyun~

2023/01577 ~ Complete ~54:PROBIOTIC LACTOBACILLUS PLANTARUM STRAIN AND USE THEREOF IN
PREPARATION OF LOW-SALT FERMENTED MEAT PRODUCT ~71:CHINA MEAT RESEARCH CENTER, 70
Yangqiao, Fengtai District, Beijing, 110000, People's Republic of China ~72: CHEN, Xi;LI, Jiapeng;LIU,
Ruiqian;MI, Ruifang;QI, Biao;QIAO, Xiaoling;QU, Chao;WANG, Shouwei;XIONG, Suyue;ZHAO, Yan~ 33:CN
~31:202210169296.4 ~32:24/02/2022

2023/01581 ~ Complete ~54:DEVICE TO INJECT A REDUCING GAS INTO A SHAFT FURNACE
~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Dominique SERT;Edouard
IZARD;Jérôme DAULMERIE~

2023/01582 ~ Complete ~54:BLAST FURNACE FOR IRONMAKING PRODUCTION ~71:ARCELORMITTAL, 24-
26, Boulevard d'Avranches, Luxembourg ~72: Dominique SERT;Edouard IZARD~

2023/01594 ~ Complete ~54:POWER DISTRIBUTION WITHIN AN ELECTRIC MACHINE ~71:Tau Motors, Inc.,
1104 Main St., REDWOOD CITY 94063, CA, USA, United States of America ~72: BAGGET SWINT,
Ethan;OWEN, Michael Parker;PENNINGTON III, Walter Wesley;PREINDL, Matthias;RUBIN, Matthew
J.;STEVENSON, Gregory Gordon~ 33:US ~31:63/059,929 ~32:31/07/2020

2023/01602 ~ Complete ~54:MULTI-SPEED REAR DRIVE FOR A BICYCLE ~71:WORLD BICYCLE RELIEF,
NFP, 1000 West Fulton Market, 4th Floor, Chicago, Illinois, 60607, United States of America ~72: BRIAN
JORDAN~ 33:US ~31:63/063,672 ~32:10/08/2020

2023/01604 ~ Complete ~54:SECURITY DEVICE ~71:AUTIDA AB, Dalagatan 6, 3 tr 111 23 Stockholm, Sweden
~72: PETER STENLUND~ 33:SE ~31:2050402-3 ~32:08/04/2020

2023/01585 ~ Complete ~54:DEVICE AND METHOD FOR MIXING AT LEAST TWO CHEMICALLY REACTIVE
PLASTICS COMPONENTS ~71:KraussMaffei Technologies GmbH, Krauss-Maffei-Str. 2, MÜNCHEN
80997, GERMANY, Germany ~72: BERG, Alexander;BRUNNER, Robert;KOMPE, Jens;MOSER,
Ralf;SCHWEISSTHAL, Patrick~ 33:DE ~31:10 2020 123 521.6 ~32:09/09/2020

2023/01593 ~ Complete ~54:METHOD OF TREATMENT OF PATIENTS HAVING REDUCED SENSITIVITY TO
A BCL-2 INHIBITOR ~71:The Regents of the University of Colorado, a Body Corporate, 1800 Grant Street, 8th
Floor, DENVER 80203, CO, USA, United States of America;argenx BV, Industriepark 7, ZWIJNAARDE 9052,
BELGIUM, Belgium ~72: DE HAARD, Johannes;HULTBERG, Anna;JACOBS, Julie;JORDAN, Craig;SMITH,
Clayton;ZABROCKI, Piotr~ 33:US ~31:63/072,113 ~32:29/08/2020

2023/01583 ~ Complete ~54:BLAST FURNACE FOR IRONMAKING PRODUCTION ~71:ARCELORMITTAL, 24-
26, Boulevard d'Avranches, Luxembourg ~72: Dominique SERT~

2023/01587 ~ Complete ~54:METHOD AND SYSTEM FOR DEHUMIDIFICATION AND ATMOSPHERIC WATER EXTRACTION WITH MINIMAL ENERGY CONSUMPTION ~71:Battelle Memorial Institute, 902 Battelle Boulevard, RICHLAND 99354, WA, USA, United States of America ~72: JENKS, Jeromy W. J.;MCGRAIL, Bernard P.;MOTKURI, Radha K.~

2023/01591 ~ Complete ~54:USE OF PERLECAN AND FRAGMENTS THEREOF TO REDUCE THE RISK OF DEATH IN STROKE PATIENTS ~71:Stream Biomedical, Inc., 2450 Holcombe Blvd., Suite J, HOUSTON 77021, TX, USA, United States of America ~72: ADKISSON IV, Huston Davis;CLOSSEN, Bryan Lloyd;GAGE, Gary B.~ 33:US ~31:63/056,059 ~32:24/07/2020;33:US ~31:63/061,308 ~32:05/08/2020

2023/01595 ~ Complete ~54:COMPOSITIONS AND METHODS OF TREATMENT USING MICROVESICLES FROM BONE MARROW-DERIVED MESENCHYMAL STEM CELLS ~71:University of Miami, 1400 NW 10th Avenue, Suite 1214, MIAMI 33136, FL, USA, United States of America ~72: BADIAVAS, Evangelos V.~ 33:US ~31:63/068,517 ~32:21/08/2020

2023/01599 ~ Complete ~54:EMERGENCY RESCUE SYSTEM ~71:SHENZHEN JUCIYUN TECHNOLOGY CO., LTD., 402A1, Building 709, Pengji Industrial Zone No. 2, Pengxing Road, Pengxing Community Liantang Street, Luohu District Shenzhen, Guangdong 518111, People's Republic of China ~72: LINGYUN GUO~ 33:CN ~31:202010686762.7 ~32:16/07/2020

2023/01550 ~ Provisional ~54:NKHII (MEEE) ~71:LLOYD, 1309 ,TLEBEBE SECTION ,LUKA, South Africa ~72: LLOYD KEABETSWE RAMELA~ 33:ZA ~31:2022/01518 ~32:07/02/2023

2023/01556 ~ Complete ~54:A VIRTUAL SIMULATION METHOD BASED ON PLC ~71:Shanghai Polytechnic University, No.2360 Jinhai Road, Pudong New Area, Shanghai, 201209, People's Republic of China ~72: Bao CAI;Caifang ZHANG;Hongliang GU;Wenhua ZHU;Xin LIU;Yi ZUO;Zhangchi SUN~

2023/01558 ~ Complete ~54:AN INTELLIGENT LIBRARY DATA MANAGEMENT SYSTEM ~71:YUNNAN OPEN UNIVERSITY, No. 318, Qixiu Street, Chenggong District, Kunming City, Yunnan Province, People's Republic of China ~72: XIONG Jinquan~

2023/01566 ~ Complete ~54:A TELESCOPIC GUARDRAIL ~71:Chuzhou Jincheng Metal Products Co., Ltd, No. 801, Xinglong Road, New District, Nanqiao District, Chuzhou, People's Republic of China ~72: Dai Linhui;Ding Zhongjian;Li Bangfu;Yang Shusheng;Zhang Lei~ 33:CN ~31:202211626897.X ~32:16/12/2022

2023/01571 ~ Complete ~54:METHOD FOR PREPARING ANTIOXIDATIVE EXTRACT OF FRUCTUS LYCII AND APPLICATION THEREOF ~71:Ningxia Wuxing Science and Technology Co. Ltd., Zhengyuan North Road, Jinfeng District, Yinchuan, Ningxia, 750002, People's Republic of China;North Minzu University, Wenchang Road, Xixia District, Yinchuan, Ningxia, 750021, People's Republic of China ~72: Hao Wang;Jianbao Ding;Jin Yang;Wenjun Zeng;Xianjie Hou;Yanping Li;Zhenyu Wang~

2023/01576 ~ Complete ~54:NANO-COMPOSITE POLYMER SEPARATOR WITH ENHANCED SAFETY PERFORMANCE AND PREPARATION METHOD THEREOF ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: ESKEN, Daniel;HUANG, Yuan-Chang;KINZLINGER, Uwe;LEE, Chih-Hung;LIN, Ting-Fang;LIN, Yu-Han;SCHARF, Guido;SCHMIDT, Gerold;WU, Hung-Chun~ 33:EP ~31:20185989.9 ~32:15/07/2020

2023/01601 ~ Complete ~54:SYSTEMS AND METHODS FOR DRUG DELIVERY TO OCULAR TISSUE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: BIBIANA IGLESIAS;BRYAN GRYGUS;MATTHEW PAUSLEY;MEGAN

DERIDDER;PAIGE WAECHTER;PRITHVI SINGH;ROSS KENYON;SIBGAT ULLA;TREVOR LANGLEY~ 33:US
~31:63/064,658 ~32:12/08/2020

2023/01579 ~ Complete ~54:TUNNELLING SHIELD ~71:HYPERTUNNEL IP LIMITED, 1ST FLOOR, THE
PAVILLION VIEWPOINT, BASING VIEW, BASINGSTOKE HAMPSHIRE RG21 4RG, UNITED KINGDOM, United
Kingdom ~72: JORDAN, Steve;MEEKS, Alan~ 33:GB ~31:2014848.2 ~32:21/09/2020

2023/01580 ~ Complete ~54:COLD ROLLED AND COATED STEEL SHEET AND A METHOD OF
MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72:
Doriane SERRA;Edgar, Alejandro PACHON RODRIGUEZ;Virginie BLESSE~

2023/01590 ~ Complete ~54:NOVEL AAV CAPSIDS AND COMPOSITIONS CONTAINING SAME ~71:The
Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA,
United States of America ~72: MARTINO, Richard Alexander;NAMBIAR, Kalyani;SIDRANE, Jenny A.;WANG,
Qiang;WILSON, James M.~ 33:US ~31:63/065,616 ~32:14/08/2020;33:US ~31:63/109,734 ~32:04/11/2020

2023/01597 ~ Complete ~54:EMERGENCY WARNING AND ASSISTANCE PROVIDING SYSTEM AND
METHOD ~71:SHENZHEN JUCIYUN TECHNOLOGY CO., LTD., 402A1, Building 709, Pengji Industrial Zone No.
2, Pengxing Road, Pengxing Community Liantang Street, Luohu District Shenzhen, Guangdong 518111, People's
Republic of China ~72: LINGYUN GUO~ 33:CN ~31:202010684290.1 ~32:16/07/2020

2023/01603 ~ Complete ~54:ADAR DEPENDENT EDITING COMPOSITIONS AND METHODS OF USE
THEREOF ~71:ADARX PHARMACEUTICALS, INC., 5871 Oberlin Drive Suite 200 San Diego, California 92121,
United States of America ~72: JEAN DA SILVA CORREIA;KIMBERLY FULTZ;RUI ZHU;SAM LEAR;SEAN
STUDER;ZHEN LI~ 33:US ~31:63/059,084 ~32:30/07/2020;33:US ~31:63/127,839 ~32:18/12/2020

- APPLIED ON 2023/02/09 -

2023/01608 ~ Provisional ~54:BOGIE ~71:DUNCAN, Malcolm Douglas, 901 Cloud Cover Lane, Leander, United
States of America ~72: DUNCAN, Malcolm Douglas~

2023/01610 ~ Provisional ~54:SLEP TANK MOBILE SHOWER ~71:Karabo Selepe, 363a dichabe street, South
Africa ~72: Karabo Selepe~ 33:ZA ~31:ZA20230208 ~32:08/02/2023

2023/01617 ~ Complete ~54:PHOTOCONVERSION AGING RESISTANT FOG-DROP RESISTANT
POLYETHYLENE FILM AND PREPARATION METHOD THEREOF ~71:Guizhou Yishengyuan Technology Co.,
Baiyun North Road New Material Industrial Park, Baiyun District, Guiyang City, Guizhou Province, 550014,
People's Republic of China ~72: Daohai ZHANG;Jinhui XIE;Meng PEI;Wenjing ZHANG;Xiaonan LIU;Yu
XUE;Yuhuan XU~

2023/01629 ~ Complete ~54:AN EFFICIENT IRRIGATION DEVICE ~71:Tarim University, No. 705, Hongqiao
South Road, Alar, Xinjiang, People's Republic of China ~72: Liu Kun;Wang Xingpeng;Yang Fan;Yang Xiyan;Yao
Baolin;Zhang Yuan~

2023/01637 ~ Complete ~54:COMPOSITIONS AND METHODS FOR IN VIVO GENERATION OF CAR
EXPRESSING CELLS ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: APSUNDE, Tushar
Dattu;BARDROFF, Michael;BRIDGEMAN, Chris;BROGGI, Maria Anna Sofia;CANHAM, Stephen Michael;CEBE,
Regis;DRANOFF, Glenn;GRANDA, Brian Walter;GUYOT, Justine;JAYASHANKAR, Shyamali;KOSHY, Sandeep
Tharian;LEE, Cameron Chuck-munn;MELLES, Yoel;MILLER, Sandra;PRICE, Andrew Patrick;RAYO,
Amy;SKEGRO, Darko;TREANOR, Louise Mary;YANG, Jennifer~ 33:US ~31:63/068,876 ~32:21/08/2020;33:US
~31:63/154,609 ~32:26/02/2021

2023/01642 ~ Complete ~54:TREATMENT OF SEPSIS WITH PCSK9 AND LDLR MODULATORS
~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591,
United States of America ~72: AMY DAMASK;ARIS BARAS;CHARLES PAULDING;GAREN MANVELIAN;JULIE
HOROWITZ;LUCA ANDREA LOTTA;MANUEL ALLEN REVEZ FERREIRA;MICHAEL CANTOR~ 33:US
~31:63/069,789 ~32:25/08/2020

2023/01646 ~ Complete ~54:POWER DISTRIBUTION WITHIN AN ELECTRIC MACHINE WITH RECTIFIED
ROTOR WINDINGS ~71:Tau Motors, Inc., 1104 Main Street, REDWOOD CITY 94063, CA, USA, United States of
America ~72: BAGGET SWINT, Ethan;OWEN, Michael Parker;PENNINGTON III, Walter Wesley;PREINDL,
Matthias;RUBIN, Matthew J.;STEVENSON, Gregory Gordon~ 33:US ~31:63/059,930 ~32:31/07/2020

2023/01651 ~ Complete ~54:ADDITIVE FOR FCC PROCESS ~71:Johnson Matthey Process Technologies, Inc,
115 Eli Whitney Boulevard, SAVANNAH 31408, GR, USA, United States of America ~72: ALLAHVERDI,
Mehdi;DIDDAMS, Paul;KANYI, Charles~ 33:US ~31:63/198,262 ~32:07/10/2020

2023/01615 ~ Complete ~54:A MECHANOCHEMICAL REMEDIATION METHOD FOR HEAVY METAL-POPS
COMPOSITE CONTAMINATED SOIL ~71:Shanghai Polytechnic University, No.2360 Jinhai Road, Pudong New
Area, Shanghai, 200041, People's Republic of China ~72: Junying XIE;Kaiyou HUANG;Lifei CHEN;Qing
HUANG;Wenyi YUAN;Xiaoyan WANG;Yingjie SHEN~

2023/01619 ~ Complete ~54:THE INVENTION RELATES TO A LOW-COST BIODEGRADABLE FILM AND A
PREPARATION METHOD THEREOF ~71:Guizhou Yishengyuan Technology Co., Baiyun North Road New
Material Industrial Park, Baiyun District, Guiyang City, Guizhou, 550014, People's Republic of China ~72: Daohai
ZHANG;Lei ZHANG;Meng PEI;Wenjing ZHANG;Xiaonan LIU;Yu XUE;Yuhuan XU~

2023/01622 ~ Complete ~54:A PEDESTAL PAN DEVICE FOR THE ELDERLY WITH BUFFER FUNCTION
~71:Zaozhuang Vocational College, No. 2169, Qilianshan Road, Xue Cheng District, Zaozhuang City, Shandong
Province, 277800, People's Republic of China ~72: Changyan Liu;Fei Sun;Hu Li;Liang Li;Rong Chen;Xin
Han;Yingying Li~ 33:CN ~31:202223318512.1 ~32:08/12/2022

2023/01625 ~ Complete ~54:SEEDLING RAISING APPARATUS FOR RICE PLANTING ~71:Jiangxi Gaotian
Ecological Agriculture Technology Co., Ltd., Changke Group of Lidi Village, Gaotian Town, Shicheng County,
GANZHOU CITY 342700, JIANGXI PROVINCE, CHINA (P.R.C.), People's Republic of China ~72: LI,
Qianqian;WAN, Zhenlong;WU, Jiawei~ 33:CN ~31:202210157347.1 ~32:21/02/2022

2023/01635 ~ Complete ~54:HAM15-52 ANALOGUES WITH IMPROVED AMYLIN RECEPTOR (HAMY3R)
POTENCY ~71:GUBRA APS, Hørsholm Kongevej 11B, Denmark ~72: BALLARÍN-GONZÁLEZ,
Borja;BECH, Esben Matzen;LUNDH, Morten;MAGOTTI, Paola;NIELSEN, Jens Christian
Frøslev;PEDERSEN, Søren Ljungberg;RIGBOLT, Kristoffer Tobias Gustav;VRANG, Niels~ 33:EP
~31:20198117.2 ~32:24/09/2020

2023/01643 ~ Complete ~54:METHOD AND SYSTEM FOR ENHANCED INDICATION OF TPC COMMAND
VALUE FOR UPLINK TRANSMISSION IN MULTI-TRP OPERATION ~71:ZTE CORPORATION, ZTE Plaza, Keji
Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72:
BO GAO;CHUANGXIN JIANG;HAO WU;KE YAO;YANG ZHANG;ZHAOHUA LU~

2023/01645 ~ Complete ~54:SERUM ALBUMIN-BINDING POLYPEPTIDES ~71:Avacta Life Sciences Limited,
Unit 20, Ash Way, Thorp Arch Estate, WETHERBY LS23 7FA , UNITED KINGDOM, United Kingdom ~72: ADAM,
Estelle;BASRAN, Amrik;GOMES, Bruno;JENKINS, Emma;STANLEY, Emma;VINCENT, Matthew P.~ 33:US
~31:63/059,026 ~32:30/07/2020

2023/01650 ~ Complete ~54:AEROSOL-GENERATING MATERIAL WITH COMBUSTION RETARDING PROPERTIES AND USES THEREOF ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: AOUN, Walid Abi~ 33:GB ~31:2013123.1 ~32:21/08/2020;33:GB ~31:2109081.6 ~32:24/06/2021

2023/01606 ~ Provisional ~54:GMR GB HOE WEED REMOVER ~71:Vuyisile Aaron Ramafikeng, 2524 Dithaba Street Zone 13 Sebokeng, South Africa ~72: Vuyisile Aaron Ramafikeng~

2023/01607 ~ Provisional ~54:COLLAPSIBLE PLASTIC PALLET ~71:AMPALLET (PTY) LTD., cnr. Nywerheid and Evergreen Streets, Tunney Township, ELANDSFONTEIN, Johannesburg 1429, Gauteng, SOUTH AFRICA, South Africa ~72: ZULBERG, Trevor~

2023/01613 ~ Complete ~54:RECYCLED AGGREGATE CONCRETE AND PREPARATION METHOD THEREOF ~71:Zhengzhou University of Aeronautics, No.2 Daxue Middle Road, Erqi District, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: GUAN Qiaoyan;LI Han;SHI Ke;XIE Xiaopeng;ZHU Qian~

2023/01611 ~ Complete ~54:DETECTION SYSTEM AND METHOD OF GREENHOUSE GAS EMISSIONS OF SEDIMENT AND WATER BODY ~71:Chinese Research Academy of Environmental Sciences, No. 8 Dayangfang, Anwai Beiyuan, Chaoyang District, Beijing, 100012, People's Republic of China ~72: GAO, Hongjie;LENG, Peifang;LI, Fadong;LI, Zhao;LIU, Jia;QIAO, Yunfeng;TIAN, Chao;ZHANG, Qiuying~

2023/01614 ~ Complete ~54:SELF-BALANCING MANIPULATOR ~71:Shenyang University of Technology, 111, Shenliao West Road, Economic & Technological Development Zone, Shenyang, People's Republic of China ~72: FU, Xiaohan;GUO, Zhongfeng~

2023/01618 ~ Complete ~54:TRANSPARENT PET/PETG INFRARED ABSORPTION COMPOSITE MATERIAL, PREPARATION METHOD AND APPLICATION THEREOF ~71:Guizhou FST Chemical Material Technology Co., Baiyun North Road New Material Industrial Park, Baiyun District, Guiyang City, Guizhou, 550014, People's Republic of China ~72: Daohai ZHANG;Jinhui XIE;Lei ZHANG;Meng PEI;Wenjing ZHANG;Xiaonan LIU;Yu XUE;Yuhuan XU~

2023/01627 ~ Complete ~54:A CONTAINER FOR AN/A AQUAPONIC/HYDROPONIC SYSTEM, A DRAINAGE ARRANGEMENT, AN/A AQUAPONIC/HYDROPONIC SYSTEM, AND A METHOD OF DRAINING FLUID FROM AN/A AQUAPONIC/HYDROPONIC SYSTEM ~71:BREMNER, Colin Derek, Plot 65, Donkerhoek, Rayton, 1001, SOUTH AFRICA, South Africa ~72: BREMNER, Colin Derek~ 33:ZA ~31:2021/08792 ~32:09/11/2021

2023/01631 ~ Complete ~54:A RAW MATERIAL PREPARATION DEVICE FOR MIXING CHROMIUM FREE ZINC ALUMINUM ANTI-CORROSION COATING FOR TRAFFIC STEEL COMPONENTS ~71:Jilin jianzhu University, 5088 Xincheng Street, Changchun, Jilin, 130118, People's Republic of China ~72: Chai Yuan;Chen Guangyi;Dong Weizhi;Liu Hantao;Tian Wei;Wang Yan;Zhang Wanxi;Zhang longfei;Zhu Fu~

2023/01634 ~ Complete ~54:AN ANTI-SEISMIC PERFORMANCE ABNORMAL WARNING SYSTEM AND METHOD OF UTILITY TUNNEL ~71:Hebei GEO University, No.136 Huai'an East Road, Yuhua District, Shijiazhuang City, Hebei Province, 050031, People's Republic of China ~72: Haiyan XU;Jianming LI;Muci YUE;Qingyao LI;Siru ZHANG;Song CHEN;Xingkuo WANG;Xiuling CAO;Yunsheng GAO;Yuzhang WANG;Zhiqiang ZHAI~ 33:CN ~31:202111464381.5 ~32:03/12/2021

2023/01639 ~ Complete ~54:LOCKING MECHANISM, BATTERY BRACKET, ELECTRIC VEHICLE, AND METHOD FOR LOCKING AND UNLOCKING BATTERY PACK ~71:AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP, Block 1, Room 606, No. 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou, Guangdong, 510700, People's Republic of China;SHANGHAI DIANBA NEW

ENERGY TECHNOLOGY CO., LTD., Building 1, No.4766, Jiangshan Road, Nicheng Town, Pudong New Area Shanghai, 201308, People's Republic of China ~72: CHUNHUA HUANG;JIANPING ZHANG~ 33:CN ~31:202010794648.6 ~32:10/08/2020

2023/01640 ~ Complete ~54:CONSTRAINED CONDITIONALLY ACTIVATED BINDING PROTEINS ~71:TAKEDA PHARMACEUTICAL COMPANY LIMITED, 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka, 541-0045, Japan ~72: CHAD MICHAEL MAY;DANIELLE DETTLING;JEREMIAH DEGENHARDT;PATRICIA A CULP;ROBERT B DUBRIDGE;TSENG-HUI TIMOTHY CHEN~ 33:US ~31:63/066,565 ~32:17/08/2020

2023/01647 ~ Complete ~54:A COMBUSTION RETARDING MATERIAL AND USES THEREOF ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: AOUN, Walid Abi~ 33:GB ~31:2013121.5 ~32:21/08/2020;33:GB ~31:2109079.0 ~32:24/06/2021

2023/01633 ~ Complete ~54:SOLID LIPID NANOPARTICLES FOR TARGETTED DRUG DELIVERY ~71:Dr. Anna Balaji, Professor and Director IIMT College of Pharmacy Plot No. 19 & 20, Knowledge Park III, Greater Noida, Uttar Pradesh, 201310, India;Dr. Archana S. Patil, Assistant Professor, Department of Pharmaceutics, KLE College of Pharmacy Belagavi, KLE Academy of Higher Education and Research, Belagavi, Karnataka, 590010, India;Dr. Kumaraswamy Gandla, Professor & Head, Department of Pharmaceutical Analysis, Chaitanya (Deemed to be University), Hanamkonda (Dist.)-, Telangana, 506001, India;Dr. Neerugatti Dora babu, Prof & HOD Department of Pharmacogony College of Pharmacy Al- Ayen University, Nasiriyah, DHI QAR, Iraq;Dr.Qutaiba Abdulkareem Qasim, Assistant Professor, Dean of Pharmacy College, Al- Ayen University, Nasiriyah, DHI QAR, Iraq;Imad Raouf Zahreddine, Faculty of Pharmacy, Lebanese University, Hadat, Beirut, Lebanon;Lalitha Repudi, Associate Professor, Department of Pharmacy, Chaitanya (Deemed to be University), Hanamkonda (Dist.), Telangana, 506001, India ~72: Dr. Anna Balaji;Dr. Archana S. Patil;Dr. Kumaraswamy Gandla;Dr. Neerugatti Dora babu;Dr.Qutaiba Abdulkareem Qasim;Imad Raouf Zahreddine;Lalitha Repudi~

2023/01636 ~ Complete ~54:APPARATUS FOR USE IN A WIRELESS DETONATOR SYSTEM ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: LIEBENBERG, Abraham Johannes;MEYER, Tielman Christiaan;MULLER, Elmar Lennox;SMITH, Ruan~ 33:ZA ~31:2021/03409 ~32:20/05/2021

2023/01648 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING CEACAM POSITIVE CANCERS ~71:A2 Biotherapeutics, Inc., 30301 Agoura Road, Suite 210, AGOURA HILLS 91301, CA, USA, United States of America ~72: KAMB, Carl Alexander;SANDBERG, Mark L.;WANG, Xueyin;WARSHAVIAK, Dora Toledo;XU, Han~ 33:US ~31:63/068,244 ~32:20/08/2020

2023/01609 ~ Provisional ~54:BARRIER ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: TBA~

2023/01612 ~ Complete ~54:A SPECIAL-SHAPED VERTICAL POLE ~71:Chuzhou Jincheng Metal Products Co., Ltd, No. 801, Xinglong Road, New District, Nanqiao District, Chuzhou, People's Republic of China ~72: Dai Linhui;Ding Zhongjian;Li Bangfu;Yang Shusheng;Zhang Lei~ 33:CN ~31:202211613303.1 ~32:15/12/2022

2023/01621 ~ Complete ~54:DEVICE CAPABLE OF DETERMINING HEAVY METAL CONTENT OF ATMOSPHERIC DEPOSITION IN SEDIMENTS BY LAYERS ~71:YELLOW SEA FISHERIES RESEARCH INSTITUTE, No. 106, Nanjing Road, Shinan District, Qingdao, Shandong Province, People's Republic of China ~72: QU Keming;SUN Yao;YANG Qian;YANG Shu;ZHANG Yan;ZHOU Mingying~

2023/01628 ~ Complete ~54:APPLICATION OF PD-1SIRNA COMBINED WITH CHLOROQUINE IN PREPARING A MEDICINE FOR TREATING RECTAL CANCER ~71:THE FIRST AFFILIATED HOSPITAL OF

XINXIANG MEDICAL UNIVERSITY, No. 88, Weihui Health Road, Xinxiang, Henan Province, 453100, People's Republic of China ~72: Huijie JIA;Jiateng ZHONG;Qingzu GAO;Shuya LU;Tiesuo ZHAO;Wei SU;Xiaoyu YANG~

2023/01630 ~ Complete ~54:SUSTAINABLE ELECTRIC BUS BASED TRANSIT SYSTEM FOR MANAGING TRANSPORTATION AND SUPPLY POWER TO ELECTRIC BUSES ~71:Dr. Krishnarti De, Block No- A-II, House No. A-II a/13(a), Chaltlang, Salem Veng road, Near UPC Pastor Quarter Aizawl, Mizoram, 796012, India;Dr. Suman Majumder, Block No- A-II, House No. A-II a/13(a), Chaltlang, Salem Veng road, Near UPC Pastor Quarter Aizawl, Mizoram, 796012, India ~72: Dr. Krishnarti De;Dr. Suman Majumder~

2023/01638 ~ Complete ~54:HYDROTHERMAL PURIFICATION PROCESS ~71:APPLIED RESEARCH ASSOCIATES, INC., 4300 San Mateo Blvd., N.E., Suite A-220, United States of America ~72: COPPOLA, Edward, N.;GOODWIN, Jocelyn, Marie;NANA, Sanjay;RED, Charles, Jr.~ 33:US ~31:63/064,234 ~32:11/08/2020;33:US ~31:17/398,082 ~32:10/08/2021

2023/01641 ~ Complete ~54:METHODS OF TREATING SENSITIZED PATIENTS WITH HYPOIMMUNOGENIC CELLS, AND ASSOCIATED METHODS AND COMPOSITIONS ~71:SANA BIOTECHNOLOGY, INC., 188 East Blaine Street, Suite 400, Seattle, Washington, 98102, United States of America ~72: CHARLES E MURRY;SONJA SCHREPFER;STEVE HARR~ 33:US ~31:63/065,342 ~32:13/08/2020;33:US ~31:63/136,137 ~32:11/01/2021;33:US ~31:63/151,628 ~32:19/02/2021;33:US ~31:63/175,030 ~32:14/04/2021

2023/01616 ~ Complete ~54:USE OF MICRO RIBONUCLEIC ACID (MIRNA) COMBINATION AS A BIOMARKER IN PREPARATION OF REAGENT OR KIT FOR DIAGNOSING LUNG CANCER AND/OR EVALUATING PROGNOSIS OF LUNG CANCER ~71:Zhejiang University, No. 866, Yuhangtang Road, Xihu District, Hangzhou City, Zhejiang Province, 310058, People's Republic of China ~72: CHEN, Ran;WANG, Kai;XU, Yili~ 33:CN ~31:202211400311.8 ~32:08/11/2022

2023/01620 ~ Complete ~54:GREEN LOW CARBON BRIGHT COLOR POLYESTER COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Guizhou FST Chemical Material Technology Co., Baiyun North Road New Material Industrial Park, Baiyun District, Guiyang City, Guizhou, 550014, People's Republic of China ~72: Daohai ZHANG;Jinhui XIE;Lei ZHANG;Meng PEI;Wenjing ZHANG;Yu XUE;Yuhuan XU~

2023/01623 ~ Complete ~54:METHOD AND APPARATUS FOR GENERATING FROM A COEFFICIENT DOMAIN REPRESENTATION OF HOA SIGNALS A MIXED SPATIAL/COEFFICIENT DOMAIN REPRESENTATION OF SAID HOA SIGNALS ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E, Herikerbergweg 1-35, NL-1101, CN Amsterdam Zuidoost, Netherlands ~72: ALEXANDER KRUEGER;SVEN KORDON~ 33:EP ~31:13305986.5 ~32:11/07/2013

2023/01624 ~ Complete ~54:ANNULAR CATALYST CARRIER CONTAINER FOR USE IN A TUBULAR REACTOR ~71:JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED, 5th Floor, 25 Farringdon Street, London, EC4A 4AB, United Kingdom ~72: JULIAN GRAY~ 33:GB ~31:1417462.7 ~32:02/10/2014

2023/01626 ~ Complete ~54:PREPARATION OF EXTREME MONASCUS-FERMENTED PRODUCT OF SORGHUM AND APPLICATION THEREOF IN SKIN CARE ~71:Chengdu Baolu Biotechnology Co., Ltd., No. 60, Floor 15, Building 1, No. 20, Jialing Road, Wuhou District, Chengdu 610047, Sichuan Province, CHINA (P.R.C.), People's Republic of China;Moutai Institute, Luban Avenue, Renhuai City, Zunyi City 564500, Guizhou Province, CHINA (P.R.C.), People's Republic of China ~72: ZHENG, Yuxi~

2023/01632 ~ Complete ~54:A HYBRID SYSTEM FOR CLASSIFICATION AND RETRIEVAL OF HYPERSPECTRAL IMAGES ~71:Dr. Archana Belge, Thakur College of Engineering and Technology, A-Block, Gate No 5, Thakur Educational Campus, Shyamnarayan Thakur Rd, Thakur Village, Kandivali East, Mumbai, Maharashtra, 400101, India;Dr. Bhushankumar P. Nemade, B-101, Trimurti Center, Besides Aastha Hospital,

Ambadi Road, Vasai (West), Dist- Palghar, Maharashtra, 401202, India;Dr. Sujata Alegavi, Associate Professor, Thakur College of Engineering and Technology, A-Block, Gate No 5, Thakur Educational Campus, Shyamnarayan Thakur Rd, Thakur Village, Kandivali East, Mumbai, Maharashtra, 400101, India;Dr. Vinayak Ashok Bharadi, Professor and Head of Department, Information Technology Department, Finolex Academy of Management and Technology, P60, P60-1, MIDC, Mirjole, Ratnagiri, Maharashtra, 415639, India ~72: Dr. Archana Belge;Dr. Bhushankumar P. Nemade;Dr. Sujata Alegavi;Dr. Vinayak Ashok Bharadi~

2023/01644 ~ Complete ~54:SELF-BAKING ELECTRODE CASING ASSEMBLY ~71:GREYLING, Frederik Petrus, 5 St George Avenue, Midlands Estate, South Africa ~72: GREYLING, Frederik Petrus~ 33:ZA ~31:2020/05200 ~32:21/08/2020

2023/01649 ~ Complete ~54:QUINOLINE COMPOUNDS AS SELECTIVE AND/OR DUAL MODULATORS OF BILE ACID RECEPTORS AND LEUKOTRIENE CYSTEINYL RECEPTORS ~71:Precision Bio-Therapeutics S.r.l., Viale Centova, 6, PERUGIA 06128, ITALY, Italy ~72: FIORUCCI, Stefano;ZAMPELLA, Angela~ 33:IT ~31:102020000019210 ~32:04/08/2020

- APPLIED ON 2023/02/10 -

2023/01655 ~ Complete ~54:A DEVICE FOR FOREST ENVIRONMENT MONITORING ~71:Gansu Province Academy of Qilian Water Resource Conservation Forests Research Institute, No.3, Donghuan Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Minglong LIU;Pengyu SHI;Rongxin WANG;Shunli WANG;Wenmao JING;Xiaoping SHI~

2023/01662 ~ Complete ~54:PVC PIPE-CONFINED BASALT FIBER CONCRETE COLUMN AND PREPARATION METHOD THEREOF ~71:Hunan City University, No. 518, Yingbin Road, Yiyang City, Hunan Province, People's Republic of China ~72: CHEN Shang kang;HE Wenjie;LI Yang;LIN Long;WANG Xinzong;XIONG Bing;XU Qing~

2023/01665 ~ Complete ~54:CONSTRUCTION METHOD OF JACKING-UP AND LOWERING OF STEEL BOX BEAM ~71:CHINA RAILWAY FIRST GROUP BRIDGE ENGINEERING CO., LTD, No. 11, Renhe Avenue, North New Area, Chongqing, 401121, People's Republic of China;CHINA RAILWAY FIRST GROUP CO.,LTD, No.1, Yanta North Road, Beilin District, Xi'an City, Shaanxi Province, 710054, People's Republic of China ~72: BI, Zhanglong;CHEN, Qingyun;FENG, Sichao;LI, Xiaoxia;QIN, Dingsong;SHEN, Jie;TONG, Ligang;WANG, Hu;WANG, Zenghui;XING, Liao;XU, Changfei;XU, Hong;XUAN, Xinpeng;ZHAO, Bin~ 33:CN ~31:202211107638.6 ~32:13/09/2022

2023/01668 ~ Complete ~54:METHOD FOR DISTINGUISHING BIOLOGICAL SOIL CRUST RESPIRATION FROM UNDERLYING SOIL BASAL RESPIRATION ~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;ZHANG, Zhishan;ZHAO, Yang~

2023/01680 ~ Complete ~54:OLEOGEL ~71:BFLIKE B.V., Handelsweg 15, Netherlands ~72: CAMILLERI, Michael;FRANKEN, Wouter Matthijs;HOOGLAND, Oscar Jan~ 33:NL ~31:2026242 ~32:07/08/2020

2023/01698 ~ Complete ~54:WATERCRAFT SYSTEM INCLUDING WATER AND/OR AIR PASSAGEWAYS ~71:BORJA RODRIGUEZ GUEVARA, 41520 Myrtle Street Palmdale, California 93551, United States of America ~72: BORJA RODRIGUEZ GUEVARA~ 33:US ~31:17/002,631 ~32:25/08/2020

2023/01658 ~ Complete ~54:METHOD FOR MEASURING WEIGHT LOSS OF SLICED CIGARETTES DURING STORAGE ~71:China Tobacco Henan Industrial Co., Ltd, No. 16, Yulin South Road, northeast corner of Yulin

South Road, Guancheng Hui District, Zhengzhou, Henan, People's Republic of China ~72: Bai Feng;Chen Xiaolong;Duan Weidong;Liu Yong;Shen Hongtao;Wang Xinzhong;Zhang Ziyang~

2023/01666 ~ Complete ~54: PREFABRICATED ASSEMBLED PIER WITH TENON-MORTISE CONNECTION ~71: Fujian Rongsheng Municipal Engineering Co., Ltd., No.226 Fuxin Middle Road, Jin & #39; an District, Fuzhou City, Fujian Province, People's Republic of China; Fujian University of Technology, No.33 Xuefu South Road, University New District, Fuzhou City, Fujian Province, People's Republic of China; Fuzhou Jingyan engineering technology co., ltd, No.10 Keji East Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, People's Republic of China ~72: CHEN Zhixiong; GUO Xing; LIN Shangshun; LIN Xin; LIN Yongjie; LIN Yulian~

2023/01673 ~ Complete ~54: SELF-ASSEMBLING PEPTIDE SCAFFOLD ~71: HEXAMER THERAPEUTICS, INC., 2345 NE Hopkins Court, Suite B, Pullman, Washington, 99163, United States of America ~72: KEITH DOUGLAS MILLER~ 33:US ~31:62/697,132 ~32:12/07/2018

2023/01679 ~ Complete ~54: A CONSTRUCTION METHOD FOR FINAL DEMOLISHING THE STATION REINFORCEMENT COLUMN ~71: China Railway No.8 Engineering Group Co., Ltd, No. 68, Jinke East Road, Jinniu District, Chengdu, Sichuan, People's Republic of China ~72: Hu Jian; Hu Qiming; Li Luqian; Liang Shengyou; Ran Quansheng; Xie Mingkun; Zhang Zilong; Zhou Bo; Zhou Xibing~

2023/01688 ~ Complete ~54: TRUE RANDOM NUMBER GENERATOR ~71: Phystech Technologies True Random AG, Bosch 71, HUNENBERG ZG 6331, SWITZERLAND, Switzerland ~72: GONCHAROV, Sergey Vladimirovich~ 33:RU ~31:2020123866 ~32:17/07/2020

2023/01694 ~ Complete ~54: LOW STRESS CAVITY FOR CONICALLY CONNECTING DRILL BITS ~71: Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: JANSSON, Tomas; KRAFT, Conny~ 33:EP ~31:20199285.6 ~32:30/09/2020

2023/01701 ~ Complete ~54: SYSTEMS, DEVICES, AND METHODS FOR CHARGING AND DISCHARGING MODULE-BASED CASCADED ENERGY SYSTEMS ~71: TAE TECHNOLOGIES, INC., 19631 Pauling, Foothill Ranch, California, 92610, United States of America ~72: MIKHAIL SLEPCHENKOV; MILAN BHAKTA; ROMI S KADRI; ROOZBEH NADERI~ 33:US ~31:63/009,996 ~32:14/04/2020; 33:US ~31:63/043,731 ~32:24/06/2020; 33:US ~31:63/069,369 ~32:24/08/2020; 33:US ~31:63/084,300 ~32:28/09/2020

2023/01654 ~ Complete ~54: BASE FERTILIZER AND FERTILIZER FOR IMPROVING THE QUALITY OF UPPER TOBACCO LEAVES AND APPLICATION METHOD THEREOF ~71: China Tobacco Henan Industrial Co., Ltd, No. 16, Yulin South Road, northeast corner of Yulin South Road, Guancheng Hui District, Zhengzhou, Henan, People's Republic of China ~72: Bai Feng; Chen Xiaolong; Duan Weidong; Jia Guotao; Ma Yiqiong; Shen Hongtao; Yang Xinling~

2023/01660 ~ Complete ~54: A COORDINATED AND OPTIMIZED OPERATING METHOD AND SYSTEM FOR REGIONAL ENERGY INTERNET ~71: Electric Power Research Institute of Shandong Electric Power Company, No.2000, Wangyue Road, Shizhong District, Jinan City, Shandong Province, 250003, People's Republic of China; National Grid Shandong Electric Power Company Marketing Service Center (Measurement Center), No.150, Jinger Road, Daguanyuan, Shizhong District, Jinan City, Shandong Province, 071033, People's Republic of China; Shandong University, No.27 Shanda South Road, Licheng District, Jinan City, Shandong Province, 250000, People's Republic of China ~72: Chao YU; Congcong LI; Hongxia ZHU; Jiaqi ZHANG; Pingxin WANG; Qing WANG; Yanjie DAI~

2023/01670 ~ Complete ~54: POSITIONING METHOD FOR SMALL PACKAGE OF TRADITIONAL CHINESE MEDICINE BASED ON BINOCULAR VISION ~71: Nanjing Rongxin Intelligent Technology Co., Ltd., 2nd Floor, Comprehensive R And D Building, Nanjing Baixia High-tech Industrial Park, No. 162, Guanghua Road, Qinhuai

District, Nanjing, Jiangsu Province, 210000, People's Republic of China ~72: CHEN, Chen;HE, Xin;MA, Xuan~ 33:CN ~31:202211412596.7 ~32:11/11/2022

2023/01686 ~ Complete ~54:APPARATUS FOR AN AEROSOL GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: VINTOLA, Tomi;ZHIYONG, Zheng~ 33:GB ~31:2014643.7 ~32:17/09/2020

2023/01692 ~ Complete ~54:RNAI CONSTRUCTS AND METHODS FOR INHIBITING MARC1 EXPRESSION ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: HOMANN, Oliver;LONG, Jason C.;MEADE, Bryan;MURRAY, Justin K.;ZHANG, Jun~ 33:US ~31:63/065,190 ~32:13/08/2020;33:US ~31:63/214,016 ~32:23/06/2021

2023/01659 ~ Complete ~54:STROPHARIA RUGOSOANNULATA FRUITING INDUCER WITHOUT SOIL COVERING AND PREPARATION METHOD THEREOF ~71:Guizhou Horticultural Institute (Guizhou Horticultural Engineering Technology Research Center), Guizhou Horticultural Institute, Guizhou Academy of Agricultural Sciences, Jinxin Community, Huaxi District, Guiyang City, Guizhou Province, 550006, People's Republic of China ~72: CHEN, Zhilin;LI, Yurong;WEN, Linhong;ZHANG, Chaojun~ 33:CN ~31:202211492484.7 ~32:25/11/2022

2023/01661 ~ Complete ~54:POWDER FOR COMPRESSOR END COVER AND PREPARATION METHOD THEREOF ~71:Ma'an Shan Jiupeng Jiateng Machinery Industry Co., Ltd., No. 198, Changjiang Road, Huashan District, Ma'an Shan City, Anhui Province, 243000, People's Republic of China ~72: CAO, Cheng;HE, Hao;HUANG, Huaqin;HUANG, Zhenyi;LI, Jun;MEI, Jianhua~

2023/01669 ~ Complete ~54:NITROGEN AND PHOSPHORUS CO-DOPED GRAPHENE QUANTUM DOTS AND PREPARATION METHOD THEREFOR ~71:GUILIN UNIVERSITY OF TECHNOLOGY, No. 12, Jiangan Road, Qixing District, Guilin City, Guangxi Zhuang Autonomous Region, 541004, People's Republic of China ~72: CHEN, Dinghan;LI, Ming;TANG, Tao;WEI, Guiyu~

2023/01675 ~ Complete ~54:SMOKE DETECTION METHOD AND APPARATUS BASED ON COMPUTER VISION ~71:PLA Armored Force Academy, No. 21 Institute of Dujiakan, Fengtai District, Beijing, People's Republic of China ~72: Ji Bogong;Liu Zhongxuan;Qu Qiang;Song Cheng;Wang Xi;Wang Ziqiang;Xie Xiaozhu~

2023/01693 ~ Complete ~54:NOVEL PSILOCIN DERIVATIVES HAVING PRODRUG PROPERTIES ~71:Compass Pathfinder Limited, 3rd Floor, 1 Ashley Road, ALTRINCHAM WA14 2DT, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: GRILL, Matthias~ 33:DE ~31:10 2020 121 965.2 ~32:21/08/2020;33:US ~31:63/118,842 ~32:27/11/2020

2023/01700 ~ Complete ~54:ENGINEERED AMYLASE VARIANTS ~71:CODEXIS, INC., 200 Penobscot Drive, Redwood City, California, 94063, United States of America;SOCIETE DES PRODUITS NESTLE S.A., Avenue Nestle 55, 1800, Vevey, Switzerland ~72: CHINPING CHNG;DA DUAN;HARVINDER CHAGGER MANIAR;NIKKI DELLAS;RAVI DAVID GARCIA~ 33:US ~31:63/071,641 ~32:28/08/2020

2023/01684 ~ Complete ~54:ANTI-CLDN-18.2 ANTIBODY AND USE THEREOF ~71:Shanghai Junshi Biosciences Co., Ltd., Floor 13, Building 2, Nos. 36 and 58, Haiqu Road, Pilot Free Trade Zone, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China;Suzhou Junmeng Biosciences Co., Ltd., East of Changan Road, Wujiang Economic and Technological Development Zone, SUZHOU 215002, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: HUANG, Lanqing;LIU, Hongchuan;LIU, Hui;WU, Hai;YAO, Jian;ZHANG, Jing;ZHOU, Yuehua~ 33:CN ~31:202010671413.8 ~32:13/07/2020

2023/01685 ~ Complete ~54:WALL ASSEMBLY FOR CATALYTIC BEDS OF SYNTHESIS REACTORS
~71:Casale SA, Via Pocobelli 6, LUGANO 6900, SWITZERLAND, Switzerland ~72: PANZERI, Nicola~ 33:EP
~31:20190846.4 ~32:13/08/2020

2023/01689 ~ Complete ~54:METHOD AND COMPOUND FOR USE, IN TREATING AND/OR PREVENTING
NETOSIS ~71:Jubilant Epipad LLC, 1430 Route 206, Suite 110, BEDMINSTER 07921, NJ, USA, United States of
America ~72: KAZMI, Syed M. I.;RAJAGOPAL, Sridharan;SIVANANDAN, Dhanalakshmi~ 33:US
~31:63/064,576 ~32:12/08/2020

2023/01696 ~ Complete ~54:PLANT METABOLITE-MEDIATED INDUCTION OF BIOFILM FORMATION IN SOIL
BACTERIA TO INCREASE BIOLOGICAL NITROGEN FIXATION AND PLANT NITROGEN ASSIMILATION
~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, Office of Technology Transfer, 1111 Franklin
Street, 12th Floor, Oakland, California, 94607-5200, United States of America ~72: DAWEI YAN;EDUARDO
BLUMWALD;HOWARD-YANA SHAPIRO~ 33:US ~31:63/051,267 ~32:13/07/2020

2023/01705 ~ Complete ~54:CAPSULES COMPRISING A PERFUME COMPOSITION FOR SINGLE-DOSE
FRAGRANCING ~71:V. MANE FILS, 620, route de Grasse, France ~72: HANNETEL, Jean-Michel;TARDIEU,
Audrey~ 33:FR ~31:FR2007630 ~32:20/07/2020

2023/01652 ~ Complete ~54:SPLICING STRUCTURE OF PREFABRICATED PIER ~71:Fujian Rongsheng
Municipal Engineering Co.,Ltd., No.226 Fuxin Middle Road, Jin 'an District, Fuzhou City, Fujian Province,
People's Republic of China;Fujian University of Technology, No.33 Xuefu South Road, University New District,
Fuzhou City, Fujian Province, People's Republic of China;Fuzhou Jingyan engineering technology co., ltd, No.10
Keji East Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, People's Republic of China ~72:
CHEN Zhixiong;GUO Xing;JI Bangchong;LIN Shangshun;LIN Yongjie;LIN Yulian;YE Shiji~

2023/01653 ~ Complete ~54:POTATO AND OAT INSTANT NOODLES AND MAKING METHOD THEREFOR
~71:Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences, No. 22, Zhaojun Road, Yuquan
District, Hohhot, Inner Mongolia Autonomous Region, 010031, People's Republic of China ~72: KANG, Lianhe;LI,
Xingyun;MOU, Yingnan;QIAO, Jianmin;WANG, Limei;WANG, Liwei;YANG, Minghao;ZHANG, Yuanyuan;ZHANG,
Zhifen~

2023/01657 ~ Complete ~54:NEW METHOD FOR PRODUCING P-MENTHANE HYDROPEROXIDE BY
MULTIPLE BUBBLE COLUMN REACTORS IN SERIES ~71:Jiaying University, No. 100, Meisong Road, Meijiang
District, Meizhou City, People's Republic of China ~72: Chen Guiting;Dai Chuanbo;He Baitian;Wang Hua~

2023/01664 ~ Complete ~54:CRISPR CAS12A-BASED METHOD AND KIT FOR DETECTING FUSARIUM
CULMORUM AND APPLICATION OF THE SAME ~71:Dalian Minzu University, No. 18, Liaohe West Road,
Economic and Technological Development Zone,, Dalian City,, Liaoning Province, 116602, People's Republic of
China ~72: CAO, Jijuan;CHEN, Liang;JIANG, Bin;LI, Xin;WANG, Jinling;WANG, Pin;YANG, Aifu;YANG,
Chunhua;ZHENG, Qiuyue~

2023/01671 ~ Complete ~54:SELECTION OF PATIENTS FOR COMBINATION THERAPY ~71:SYNDAX
PHARMACEUTICALS, INC., 35 Gatehouse Drive, Building D, Floor 3, Waltham, Massachusetts, 02451, United
States of America ~72: PETER ORDENTLICH~ 33:US ~31:62/213,288 ~32:02/09/2015;33:US ~31:62/219,612
~32:16/09/2015

2023/01672 ~ Complete ~54:INHIBITORS OF CYCLIN-DEPENDENT KINASE 7 (CDK7) ~71:SYROS
PHARMACEUTICALS, INC., 35 CambridgePark Drive, Cambridge, Massachusetts, 02140, United States of
America ~72: ANZHELIKA KABRO;CLAUDIO CHUAQUI;DANA K WINTER;DARBY SCHMIDT;GORAN
MALOJCIC;HENRI PIRAS;JASON J MARINEAU;KATE-LYN LUND;KENNETH MATTHEW WHITMORE;KEVIN

SPROTT;ROBERT ZAHLER;STEPHANE CIBLAT;STEPHANIE ROY;WILLIAM SINKO~ 33:US ~31:62/361,852
~32:13/07/2016

2023/01695 ~ Complete ~54:HIGH-PROFILE, ANATOMY-SPECIFIC CRANIOFACIAL IMPLANTS FOR
COMBINED HARD AND SOFT TISSUE RECONSTRUCTION WITH EMBEDDED TECHNOLOGY FOR
MEDICINE DELIVERY ~71:CRANIUS LLC, 1700 Union Avenue, Suite A-1, United States of America ~72:
GORDON, Chad~ 33:US ~31:63/065,045 ~32:13/08/2020;33:US ~31:17/400,239 ~32:12/08/2021

2023/01676 ~ Complete ~54:A SHIELD CUTTER HEAD REPLACEMENT CONSTRUCTION STRUCTURE BY
ENTERING HOLLOW PILE FROM GROUND ~71:China Railway No.8 Engineering Group Co., Ltd, No. 68, Jinke
East Road, Jinniu District, Chengdu, Sichuan, People's Republic of China ~72: Hu Jian;Hu Qiming;Li
Luqian;Liang Shengyou;Ran Quansheng;Xie Mingkun;Zhang Zilong;Zhou Bo;Zhou Xibing~

2023/01683 ~ Complete ~54:METHODS, DEVICES, COMPUTER EQUIPMENT AND STORAGE MEDIA FOR
BUILDING COLLAPSE RISK ASSESSMENT ~71:SHENZHEN URBAN PUBLIC SAFETY AND TECHNOLOGY
INSTITUTE, 202 Bofeng Building, Qingshuihe 1st Road, Qingshuihe Community, Qingshuihe Street, Luohu
District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Dayong Xu;Fang
Dong;Gansu Shen;Huichun Jiang;Jun Ling;Qingrui Yue;ShuFeng Xi;Yu Qin;Zhongqi Shi~ 33:CN
~31:202210889585.1 ~32:27/07/2022

2023/01691 ~ Complete ~54:SEPARATOR FOR A GRAPE COLLECTION UNIT ~71:Aussie Wine Group
Holdings Pty Ltd, Unit 4 3-5, Mount Barker Road, STIRLING 5152, SOUTH AUSTRALIA, AUSTRALIA, Australia
~72: VILLIS, Malcolm~ 33:AU ~31:2020904882 ~32:03/08/2020;33:AU ~31:2021902003 ~32:30/06/2021

2023/01656 ~ Complete ~54:MICRO RIBONUCLEIC ACID (MIRNA) DETECTION KIT BASED ON PROBE-
ANCHORED DUPLEX AND USE THEREOF ~71:Zhejiang University, No. 866, Yuhangtang Road, Xihu District,
Hangzhou City, Zhejiang Province, 310058, People's Republic of China ~72: CHEN, Ran;WANG, Kai;XU, Yili~
33:CN ~31:202211389048.7 ~32:08/11/2022

2023/01663 ~ Complete ~54:A MULTIFUNCTIONAL INTELLIGENT NAVIGATION CRUTCH ~71:Zaozhuang
Vocational College, No. 2169, Qilianshan Road, Xue Cheng District, Zaozhuang City, Shandong Province,
277800, People's Republic of China ~72: Hu Li;Rong Chen;Weiwei Wei;Yajuan Wang~

2023/01667 ~ Complete ~54:DEEP EUTECTIC SOLVENT AND METHOD FOR REGENERATING WASTE
LITHIUM BATTERY CATHODE MATERIAL BY SAME ~71:Kunming University of Science and Technology, No.
68, Wenchang Road, 121 Street, Kunming City, Yunnan Province, 650031, People's Republic of China ~72:
DONG, Peng;FEI, Zitong;LI, Chenchen;MENG, Qi;ZHANG, Yingjie~

2023/01674 ~ Complete ~54:AN ANIONIC ASPHALT EMULSIFIER FOR SPRAYING QUICK-SETTING RUBBER
ASPHALT WATERPROOF PAINT AND PREPARATION METHOD THEREOF ~71:JIANGSU JINYANG NEW
MATERIAL TECHNOLOGY CO., LTD., No. 168, Yuehe Street, Zhenjiang New District, Zhenjiang, Jiangsu
Province, 212009, People's Republic of China ~72: CAO, Chunxia;LU, Feng;XIAO, Furong~

2023/01687 ~ Complete ~54:LID FOR CONTAINERS OF SUBSTANCES, AND CONTAINER OF SUBSTANCES
COMPRISING SAID LID ~71:Oc Bev Ltd, 85 Great Portland Street, LONDON W1W 7LT, UNITED KINGDOM,
United Kingdom ~72: MENTASTI GRANELLI, Kerry~

2023/01697 ~ Complete ~54:ROTARY IMAGING SYSTEM, PLANT IMAGER, ANIMAL IMAGER, AND ANIMAL
AND PLANT IMAGER ~71:CLINX SCIENCE INSTRUMENTS CO., LTD, Room 5C102-1, Building 5, No.258,
SongXing Road (West), BaoShan District, Shanghai, 200940, People's Republic of China ~72: DEBAO

CHU;HUIMING WANG;JIE GAO;RONGWEI CAI;XIONGQUN CHEN~ 33:CN ~31:202010683375.8
~32:14/07/2020

2023/01702 ~ Complete ~54:THE METHOD AND DEVICE OF FILLING DEGREE EVALUATION FOR VERTICAL OIL STORAGE TANK UNDER WIND PRESSURE ~71:SHENZHEN URBAN PUBLIC SAFETY AND TECHNOLOGY INSTITUTE, 202 Bofeng Building, Qingshuihe 1st Road, Qingshuihe Community, Qingshuihe Street, Luohu District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Dayong Xu;Fang Dong;Gansu Shen;Huichun Jiang;Jun Ling;Qingrui Yue;ShuFeng Xi;Yu Qin;Zhongqi Shi~ 33:CN ~31:202210854333.5 ~32:20/07/2022

2023/01678 ~ Complete ~54:A CONTROL STRUCTURE TO PREVENT HEAD DOWN AT THE START OF THE SHIELD TUNNELING MACHINE ~71:China Railway No.8 Engineering Group Co., Ltd, No. 68, Jinke East Road, Jinniu District, Chengdu, Sichuan, People's Republic of China ~72: Hu Jian;Hu Qiming;Li Luqian;Liang Shengyou;Ran Quansheng;Xie Mingkun;Zhang Zilong;Zhou Bo;Zhou Xibing~

2023/01682 ~ Complete ~54:STORAGE TANK SAFETY ASSESSMENT METHODS, DEVICES, COMPUTER EQUIPMENT AND STORAGE MEDIA ~71:SHENZHEN URBAN PUBLIC SAFETY AND TECHNOLOGY INSTITUTE, 202 Bofeng Building, Qingshuihe 1st Road, Qingshuihe Community, Qingshuihe Street, Luohu District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Dayong Xu;Fang Dong;Gansu Shen;Huichun Jiang;Jun Ling;Qingrui Yue;ShuFeng Xi;Yu Qin;Zhongqi Shi~ 33:CN ~31:202210931069.0 ~32:04/08/2022

2023/01690 ~ Complete ~54:DISPENSING PACKAGE AND METHOD FOR CONTROLLED DELIVERY OF A VISCOUS COMPOSITION ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: ABERGAS, Billy Gonzales;BALLERINI FERNANDES, Mariane;MASANAIAH, Vinayak~ 33:US ~31:63/072,946 ~32:01/09/2020

2023/01699 ~ Complete ~54:PROTECTIVE FACE MASK ~71:RODAN ENTERPRISES, LLC, 3000 Glenview Street, Philadelphia, Pennsylvania, 19149, United States of America;RONALD K RUSSIKOFF, 3000 Glenview Street, Philadelphia, Pennsylvania, 19149, United States of America ~72: RONALD K RUSSIKOFF~ 33:US ~31:63/103,125 ~32:17/07/2020

2023/01704 ~ Complete ~54:SYSTEMS AND METHODS FOR IMPROVED CORE SAMPLE ANALYSIS ~71:LONGYEAR TM, INC., 2455 South 3600 West, United States of America ~72: GEORGE, Luke~ 33:US ~31:63/062,975 ~32:07/08/2020

2023/01677 ~ Complete ~54:A THREE-DIMENSIONAL MONITORING DEVICE FOR SOIL MASS AND WATER LEVEL IN SIPHON DRAINAGE EXPERIMENT ~71:Second Institute of Oceanography, Ministry of Natural Resources, No. 36, Baochu North Road, Xihu District, Hangzhou, Zhejiang Province, People's Republic of China ~72: Chen Zhongxuan;Ji Youjun;Song Sheng~

2023/01681 ~ Complete ~54:PROBING CONFIGURATION ~71:NATIONAL METROLOGY INSTITUTE OF SOUTH AFRICA, Meiring Naude Road, Brummeria, PRETORIA 0184, SOUTH AFRICA, South Africa ~72: KRUGER, Oelof Abraham~ 33:ZA ~31:2020/04445 ~32:20/07/2020

2023/01703 ~ Complete ~54:TEXT COHESION JUDGMENT METHODS, DEVICES, ELECTRONIC EQUIPMENT AND STORAGE MEDIA ~71:SHENZHEN URBAN PUBLIC SAFETY AND TECHNOLOGY INSTITUTE, 202 Bofeng Building, Qingshuihe 1st Road, Qingshuihe Community, Qingshuihe Street, Luohu District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Dayong Xu;Fang Dong;Gansu Shen;Huichun Jiang;Jun Ling;Qingrui Yue;ShuFeng Xi;Yu Qin;Zhongqi Shi~ 33:CN ~31:202210919249.7 ~32:02/08/2022

- APPLIED ON 2023/02/13 -

2023/01756 ~ Provisional ~54:PARK ALIGNMENT CAMERA AND SCREEN ~71:ROBERT MOORE BRUWER, 35A GERALD DREYER STREET, OLYMPIA, NAMIBIA, Namibia ~72: ROBERT MOORE BRUWER~

2023/01713 ~ Complete ~54:A STORAGE AND RELEASE SYSTEM FOR SAND-DUST WEATHER FORECAST SERVICE PRODUCTS ~71:Lanzhou Central Meteorological Observatory (Lanzhou Drought Ecological Environment Monitoring and Prediction Center), No. 2070, Donggang East Road, Lanzhou, Gansu, People's Republic of China ~72: Dong Wei;Haojun Qin;Honge Sha;Junxia Zhang;Qiang Song;Rong Li;Xiaohong Di;Yong Wang~

2023/01719 ~ Complete ~54:METHOD FOR CULTIVATING NEW BREED OF 48 - 58 S THREE-WAY CROSSBRED SEMI-FINE WOOL SHEEP ~71:Bijie Institute of Animal Husbandry and Veterinary Science, Majiayuan, Biyu Village, Dexi Office, Qixingguan District, Bijie City, Guizhou Province, 551700, People's Republic of China;Guizhou Xinwumeng Ecological Animal Husbandry Development Co., Ltd., Dazhai Group, Yingzui Village, Xingfa Township, Hezhang County, Bijie City, Guizhou Province, 553200, People's Republic of China ~72: GUO, Zhengang;LIAO, Jiafa;LIU, Qichang;MA, Jinping;PENG, Hua;SONG, Derong;WANG, Zhonggui;WU, Ping;WU, Ruiru;WU, Ying;ZHOU, Darong~

2023/01726 ~ Complete ~54:A MECHANOCHEMICAL REMEDIATION METHOD FOR HEAVY METAL-POPS CONTAMINATED SOIL ~71:Shanghai Polytechnic University, No.2360 Jinhai Road, Pudong New Area, Shanghai, 200041, People's Republic of China ~72: Junying XIE;Kaiyou HUANG;Lifei CHEN;Qing HUANG;Wenyi YUAN;Xiaoyan WANG;Yingjie SHEN~

2023/01936 ~ Complete ~54:FORGED PART OF STEEL AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Bernard RESIAK;Didier FORGEOUX;Francois-Xavier HOCHÉ;Victor BORDEREAU~

2023/01707 ~ Complete ~54:METHOD FOR MULTI-OBJECT COOPERATIVE REGULATION AND CONTROL IN WIRE AND ARC ADDITIVE MANUFACTURING ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, 1 Daxue Road, Xuzhou City, Jiangsu Province, 221000, People's Republic of China;Shandong Jiaotong University Mechanical Equipment Technology Co., Ltd, 5, Jiaoxiao Road, Tianqiao District, Jinan City, Shandong Province, 250000, People's Republic of China ~72: CHAO Luqiang;CHENG Yanhai;GENG Ruwei~ 33:CN ~31:202210550154.2 ~32:20/05/2022

2023/01751 ~ Complete ~54:BLOOD-BASED ASSAY FOR DETECTING TAUOPATHY OR AMYLOIDOGENIC DISEASE ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: KOLB, Hartmuth C.;SAAD, Ziad;TRIANA-BALTZER, Gallen~ 33:US ~31:62/705,759 ~32:14/07/2020;33:US ~31:63/200,399 ~32:04/03/2021

2023/01710 ~ Complete ~54:HIGH-STRENGTH LONG-SERVICE-LIFE SOLID LUBRICATING COATING FOR MAIN FUEL PUMP OF AERO-ENGINE ~71:Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, No. 18, Tianshui Middle Road, Chengguan District, Lanzhou City, Gansu Province, 730000, People's Republic of China ~72: CHEN, Jianmin;CHEN, Lei;LI, Hongxuan;WAN, Hongqi;XU, Haiyan;YE, Yinping;ZHOU, Huidi~

2023/01724 ~ Complete ~54:HIGH-TEMPERATURE RESISTANT IRON TAILINGS RECYCLED AGGREGATE CONCRETE AND PREPARATION METHOD THEREOF ~71:Zhengzhou University of Aeronautics, No.2 Daxue Middle Road, Erqi District, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: ZHU Qian~ 33:CN ~31:202310078895X ~32:16/01/2023

2023/01727 ~ Complete ~54:EMERGENCY SUPPORT SYSTEM FOR SPECIAL VEHICLES BASED ON DIGITAL TWIN TECHNOLOGY ~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: TANG Fei~

2023/01740 ~ Complete ~54:SOLAR REFLECTOR FOR HOME FOR VITAMIN D ENHANCEMENT ~71:DR. VISHWANATH KARAD MIT -WORLD PEACE UNIVERSITY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;JAVALE, Deepali Pankaj, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India ~72: JAVALE, Deepali Pankaj~

2023/01758 ~ Provisional ~54:LONG DISTANCE ONLINE RANK (L'DOR) ~71:Pembelani Elma Netshivha, The Cosmos estate, 15 Aquarius, Kosmosdal, South Africa;The Cosmos estate, 15 Aquarius, Kosmosdal, 15 Aquarius, Kosmosdal, South Africa ~72: PEMBELANI ELMA NETSHIVHA~

2023/01733 ~ Complete ~54:PATRON MANAGEMENT SYSTEM AND METHOD THEREOF ~71:Gruvtec (Pty) Ltd, 82 Tamboti Road, La Maison Royale H68, Midrand, 1685, SOUTH AFRICA, South Africa ~72: TSHETLO, Katlego Tsholofelo~ 33:ZA ~31:2021/03270 ~32:14/11/2021;33:ZA ~31:2022/00297 ~32:06/01/2022

2023/01735 ~ Complete ~54:A SUBSPACE-BASED MODE RECOGNITION METHOD FOR DYNAMIC STABILITY OSCILLATIONS IN POWER SYSTEMS ~71:State Grid Nanjing Power Supply Company, No. 1, Olympic Street, Jianye District, Nanjing, Jiangsu Province, People's Republic of China;Tianjin University, Weijin Road Campus: No.92 Weijin Road, Nankai District, Tianjin, 300072, People's Republic of China ~72: Tengmu Li;Xiaodong Jiang;Yandi Wang;Zhiyuan Wang~

2023/01739 ~ Complete ~54:A CRYPTO WALLET FOR FARMERS ~71:BHAMARE, Mamta, SCHOOL OF COMPUTER ENGINEERING AND TECHNOLOGY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, PUNE, MAHARASHTRA, 411038, India;DATAR, Aditya, SCHOOL OF COMPUTER ENGINEERING AND TECHNOLOGY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, PUNE, MAHARASHTRA, 411038, India;DR. VISHWANATH KARAD MIT -WORLD PEACE UNIVERSITY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;KULKARNI, Pradnya Vaibhav, SCHOOL OF COMPUTER ENGINEERING AND TECHNOLOGY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, PUNE, MAHARASHTRA, 411038, India;NAGARKAR, Ajinkya, SCHOOL OF COMPUTER ENGINEERING AND TECHNOLOGY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, PUNE, MAHARASHTRA, 411038, India;NAIK, Udayan, SCHOOL OF COMPUTER ENGINEERING AND TECHNOLOGY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, PUNE, MAHARASHTRA, 411038, India;NIRFARAKE, Chaitanya, SCHOOL OF COMPUTER ENGINEERING AND TECHNOLOGY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, PUNE, MAHARASHTRA, 411038, India ~72: BHAMARE, Mamta;DATAR, Aditya;KULKARNI, Pradnya Vaibhav;NAGARKAR, Ajinkya;NAIK, Udayan;NIRFARAKE, Chaitanya~

2023/01741 ~ Complete ~54:A CORNER FITTING ROTARY CONNECTING NODE FOR MODULAR CONSTRUCTION ~71:TIANJIN UNIVERSITY, No. 92 Weijin Road, Nankai District, Tianjin, 300110, People's Republic of China ~72: CHEN, Zihua;LIU, Jiadi;LIU, Yang;ZHOU, Zidong~

2023/01744 ~ Complete ~54:A POWDER AND METHOD FOR LASER CLADDING CORROSION-RESISTANT HIGH ENTROPY ALLOY COATING ON THE SURFACE OF STAINLESS STEEL ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic & Technological Development Zone, Shenyang, People's Republic of China ~72: CHEN, Shengyuan;WU,Chenliang;WU,Hao;ZHANG,Chunhua;ZHANG,Song;ZHUANG,Siming~

2023/01747 ~ Complete ~54:NON-ORTHOAGONAL MULTIPLE ACCESS METHOD APPLIED TO SATELLITE COMMUNICATION ~71:TANGSHAN UNIVERSITY, No. 9, Daxuexidao, Tangshan, Hebei, 063000, People's Republic of China ~72: HAN, Guofeng;MA, Zhuang;TANG, Wanwei;WANG, Lixia~ 33:CN ~31:202111293683.0 ~32:03/11/2021

2023/01750 ~ Complete ~54:METHOD FOR SWEETENING A MILK-CONTAINING FLUID, DISPENSING DEVICE, SWEETENING UNIT AND USE OF A SWEETENING UNIT ~71:JURA ELEKTROAPPARATE AG, Kaffeeweltstrasse 10, Switzerland ~72: Christoph GROB~ 33:EP ~31:20199474.6 ~32:30/09/2020

2023/01709 ~ Complete ~54:REACTION TESTER FOR LIME SAND PILE ~71:SHAANXI HISTORIC STYLE BUILDING AND GARDEN CONSTRUCTION GROUP COMPANY LTD., No. 199, North Street, Lianhu District, Xi'an City, Shaanxi Province, 710000, People's Republic of China ~72: HE, Lizhe;JU, Junpeng;LIU, Yefeng;MA, Peiyuan;NIU, Xiaoyu;SI, Jianhui;WANG, Di;WANG, Yi;WANG, Zhen;XIANG, Junlin;ZHOU, Xuwen;ZHOU, Yuan~ 33:CN ~31:202223562913.1 ~32:30/12/2022

2023/01715 ~ Complete ~54:A POWDER AND TECHNICAL METHOD USED FOR LASER MELTING DEPOSITION OF FERRITIC STAINLESS STEEL ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic & Technological Development Zone, Shenyang, People's Republic of China ~72: DU, Yi;WU, Chenliang;WU, Hao;ZHANG, Chunhua;ZHANG, Hanfang;ZHANG, Song~

2023/01723 ~ Complete ~54:SEALING STRUCTURE ~71:Jiangsu Institute of Marine Resources Development(Lianyungang), No.59 Cangwu Road, Haizhou District, Lianyungang City, Jiangsu Province, People's Republic of China ~72: BAO Encai;DU Yuling;LIU Chengwen;LIU Guoliang;WANG Luyao;WANG Yanfeng;ZHANG Haitao~

2023/01730 ~ Complete ~54:ACCESSORY FOR A MOTORCYCLE ~71:SNYMAN, George Frederik, 1287 Elandsfontein, LICHTENBURG 2740, SOUTH AFRICA, South Africa ~72: SNYMAN, George Frederik~ 33:ZA ~31:2022/02332 ~32:24/02/2022

2023/01731 ~ Complete ~54:REGULATION OF GENE EXPRESSION BY APTAMER-MEDIATED MODULATION OF ALTERNATIVE SPLICING ~71:MeiraGTx UK II Limited, 92 Britannia Walk, LONDON N1 7NQ, UNITED KINGDOM, United Kingdom ~72: BOYNE, Alex R.;DANOS, Olivier F.;GUO, Xuecui;VOLLES, Michael J.~ 33:US ~31:62/110,919 ~32:02/02/2015

2023/01732 ~ Complete ~54:REGULATION OF GENE EXPRESSION BY APTAMER-MEDIATED MODULATION OF ALTERNATIVE SPLICING ~71:MeiraGTx UK II Limited, 92 Britannia Walk, LONDON N1 7NQ, UNITED KINGDOM, United Kingdom ~72: BOYNE, Alex R.;DANOS, Olivier F.;GUO, Xuecui;VOLLES, Michael J.~ 33:US ~31:62/110,919 ~32:02/02/2015

2023/01754 ~ Complete ~54:DOSAGE FORM COMPOSITIONS COMPRISING AN INHIBITOR OF BTK AND MUTANTS THEREOF ~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 ~31:63/066,105 ~32:14/08/2020;33:IB ~31:2020/047196 ~32:20/08/2020

2023/01734 ~ Complete ~54:COMBINATION TREATMENT FOR HEMATOLOGICAL CANCERS ~71:GERON CORPORATION, 149 Commonwealth Drive, Menlo Park, California, 94025, United States of America ~72: ALEKSANDRA RIZO;FEI HUANG;JOSHUA J RUSBULDT~ 33:US ~31:62/370,018 ~32:02/08/2016;33:EP ~31:16197293.0 ~32:04/11/2016;33:US ~31:62/422,738 ~32:16/11/2016

2023/01743 ~ Complete ~54:A METHOD FOR PREPARING A WEAR-CORROSION-EROSION-RESISTANT MODIFICATION HASTELLOY C-276 COATING ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic & Technological Development Zone, Shenyang, People's Republic of China ~72: HUO,Renjie;WANG,Dingchen;WU,Chenliang;ZHANG,Chunhua;ZHANG,Song;ZHAO,Te~

2023/01746 ~ Complete ~54:COMPOSITIONS FOR AND METHODS OF INHIBITING SARS-COV2 INFECTION ~71:TEXAS SOUTHERN UNIVERSITY, 3100 CLEBURNE STREET, HANNAH HALL, ROOM 340, HOUSTON TEXAS 77004, USA, United States of America ~72: OLALEYE, Omonike A.~ 33:US ~31:63/065,401 ~32:13/08/2020;33:US ~31:63/076,936 ~32:11/09/2020

2023/01706 ~ Provisional ~54:ONLINE ALGORITHM AUTO BET ~71:Selby Mabaso, Peza Street, 10063a Peza Street, South Africa ~72: Selby Mabaso~

2023/01708 ~ Complete ~54:METHOD FOR INCREASING YIELD OF BETA-CAROTENE PRODUCED BY FERMENTATION OF BLAKESLEA TRISPORA ~71:Jining University, No. 16, Haichuan Road, High-tech Zone, Jining City, Shandong Province, 272071, People's Republic of China ~72: CHANG, Yanhong;CUI, Fengxia;LI, Mingli;LI, Yanlian;SHI, Yanqiu;XIAO, Chuan;YUAN, Qipeng;ZHANG, Hongmei~

2023/01716 ~ Complete ~54:A DRIVERLESS BRAKE SYSTEM FOR AUTOMOBILES ~71:Shenzhen Polytechnic, Xili Lake, Xili Lake Town, Xili Street, Nanshan District, Shenzhen City, Guangdong province, 518055, People's Republic of China ~72: Hua XIA;Xiaochun ZHU;Yang ZHAO;Zhengkun CHENG;Zhijun DENG;Zhurong DONG~ 33:CN ~31:202210735612.X ~32:27/06/2022

2023/01720 ~ Complete ~54:APPLICATION OF PYRIDINE-QUINOLIZIDINE ALKALOIDS IN PREPARING DRUGS FOR PREVENTING AND TREATING NEURODEGENERATIVE DISEASES ~71:Jinan University, 601 Huangpu Avenue West, Tianhe District, Guangzhou City, Guangdong Province, People's Republic of China ~72: HU Lijun;SHI Lei;WANG Guiyang;WANG Ying;WU Zhenlong;YE Wencai;ZHANG Shiqing~ 33:CN ~31:2023100594210 ~32:18/01/2023

2023/01737 ~ Complete ~54:UNFOLDING AND FIXING DEVICE FOR PANCREATIC TUMOR OPERATION ~71:SECOND AFFILIATED HOSPITAL OF NANCHANG UNIVERSITY, No. 1 Minde Road, Donghu District, Nanchang City, Jiangxi Province, 330008, People's Republic of China ~72: Kuiyuan LAI;Rongfa YUAN;Rui SUN;Xuliang HU;Zhimeng CHEN~

2023/01738 ~ Complete ~54:AN OFFLINE SMART IRRIGATION SYSTEM ENABLED WITH MACHINE LEARNING AND RASPBERRY-PI ~71:DR. VISHWANATH KARAD MIT -WORLD PEACE UNIVERSITY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;KALE, Preeti Amit, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;PUROHIT, Swaraj, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;SALUJA, Dhairya, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India ~72: KALE, Preeti Amit;PUROHIT, Swaraj;SALUJA, Dhairya~

2023/01753 ~ Complete ~54:PHYSICALLY UNCLONABLE FUNCTIONS STORING RESPONSE VALUES ON A DATA STORE ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: DAVIES, Jack Owen;WRIGHT, Craig Steven~ 33:GB ~31:2015477.9 ~32:30/09/2020

2023/01711 ~ Complete ~54:FUNGUS BAG REMOVING AND SOIL COVERING CULTIVATION TECHNOLOGY FOR DICTYOPHORA RUBROVALVATA IN GUIZHOU ~71:Guizhou Institute of Crop Germplasm Resources, 13th Floor, Agricultural Science and Technology Innovation Building, Provincial Academy of Agricultural Sciences,

Huaxi District, Guiyang City, Guizhou Province, 550006, People's Republic of China ~72: GONG, Guanglu;GUI, Yang;HUANG, Wanbing;HUANG, Xiaorun;LI, Biao;LIU, Hongyu;LIU, Qingcheng;LU, Yingying;SHANG, Nianjie;YANG, Tongjing;ZHU, Guosheng~

2023/01721 ~ Complete ~54:FLUIDIZED BED MEMBRANE REACTOR FOR METHANE AUTOTHERMAL REFORMING WITH INTEGRATED CO2 CAPTURE ~71:TAIYUAN UNIVERSITY OF TECHNOLOGY, No. 79, Yingze West Street, Taiyuan, Shanxi Province, People's Republic of China ~72: LI Guoqiang;LIU Jun;WANG Baojun;WANG Ying;WU Xinyang;ZHANG Guojie;ZHANG Riguang;ZHANG Yongfa;ZHANG Yunfei;ZHAO Yuqiong~

2023/01728 ~ Complete ~54:A KIND OF HARVESTING AND ACIDIFICATION INTEGRATED LAVER HARVESTING BOAT ~71:Dalian Ocean University, No.52, Haishi Reef Street, Shahekou District, Dalian City, Liaoning Province, 116023, People's Republic of China ~72: Gang MU;Jiahong TANG;Shang NI;Wei CHANG;Wei LU;Yilin ZHAI;Zhuo CHEN~

2023/01745 ~ Complete ~54:PREPARATION METHOD OF BREAD WITH LOW AUXILIARY MATERIALS ~71:Heilongjiang Bayi Agricultural University, No.5, Xinfeng Road,High Tech Zone, Daqing, Heilongjiang, 163000, People's Republic of China ~72: BAO Guofeng;JIA Pengyu;JIANG Xiujie;LI Chaoyang;LI Hongfei;LI Liangyu;LING Yang;TANG Huacheng;WANG Weihao;ZHANG Guifang~

2023/01748 ~ Complete ~54:A HERBICIDE AND PESTICIDE COMPOSITION OF 2-METHYL-4-CHLOROPHENOXYACETIC ACID SODIUM AND DIMEHYPO ~71:Anhui Huaxing Chemical Co., Ltd., Wujiang Town, He County, Maanshan, Anhui, People's Republic of China ~72: Li Wenming;Wang Yugui;Xiong Jinhua;Yan Zebin~ 33:CN ~31:202211184525.6 ~32:27/09/2022

2023/01749 ~ Complete ~54:MATERIAL ANALYSIS AND SEPARATION SYSTEM FOR THE DETERMINATION OF THEIR CHEMICAL COMPOSITION AND MATERIAL ANALYSIS AND SEPARATION METHOD FOR THE DETERMINATION OF THEIR CHEMICAL COMPOSITION ~71:COMEX POLSKA SP. Z O.O., Kamienskiego 51, Poland ~72: Jacek KOLACZ~

2023/01752 ~ Complete ~54:VERIFICATION SYSTEM AND METHOD ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: DAVIES, Jack Owen;WRIGHT, Craig Steven~ 33:GB ~31:2015498.5 ~32:30/09/2020

2023/01755 ~ Complete ~54:IMMUNOCONJUGATES TARGETING CD46 AND METHODS OF USE THEREOF ~71:FORTIS THERAPEUTICS, INC., 11099 North Torrey Pines Road, Suite 290, United States of America ~72: DORR, Andrew;NASOFF, Marc~ 33:US ~31:63/062,740 ~32:07/08/2020

2023/01714 ~ Complete ~54:A LOW-COST METHOD FOR PREPARING HIGH ENTROPY ALLOY COATINGS ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic & Technological Development Zone, Shenyang, People's Republic of China ~72: WU, Chenliang;WU, Hao;ZHANG, Chunhua;ZHANG, Song;ZHAO, Te;ZHUANG, Siming~

2023/01718 ~ Complete ~54:PRODUCTION PROCESS FOR SIZING FLAME-RETARDANT WARP YARNS BY USING WATER-SOLUBLE POLYESTER SIZE ~71:JIHUA 3542 TEXTILE CO., LTD., Huopai Textile Industrial Park, Xiangzhou District, Xiangyang City, Hubei Province, 441116, People's Republic of China ~72: CHEN, Guoxiang;DENG, Xiaohong;DENG, Yunlong;FAN, Yonggang;FENG, Xiangwei;LI, Mengxiang;TANG, Jiandong;ZHAO, Shengnan;ZHENG, Minbo;ZHOU, Yongyou~

2023/01722 ~ Complete ~54:DESERT ECOLOGICAL ANALYSIS SYSTEM ~71:XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY, CHINESE ACADEMY OF SCIENCES, 818 South Beijing Road, Urumqi, Xinjiang, People's Republic of China ~72: WANG Yongdong;YOU Yuan;ZHOU Na~

2023/01712 ~ Complete ~54:INTERACTIVE PRACTICE ROBOT FOR MEMORIZING WORDS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: DONG Zhaofeng;JIA Junli;LI Bing;WANG Di;WANG Li;ZHANG Xiangyu;ZHANG Xiaoyu~

2023/01717 ~ Complete ~54:A COMMUNITY SMART HEALTH ALARM DEVICE ~71:Shaanxi Institute of International Trade & Commerce, No. 35, Tongyi West Road, Fengxi New City University Park, Xixian New District, Xi'an City, Shaanxi Province, 712046, People's Republic of China ~72: Hengni Ren;Lijun Wang;Rong Miao;Yanrong Liu~

2023/01725 ~ Complete ~54:DETECTION METHOD AND APPLICATION OF MYCOPLASMA SUIS, MYCOPLASMA PARVUM AND CANDIDATUS MYCOPLASMA HAEMOSUIS ~71:Zhejiang Academy of Agricultural Science, 298 Desheng Middle Road, Hangzhou, Zhejiang Province, 310021, People's Republic of China ~72: Bin Yu;Deqian Wang;Fei Su;Hongchao Sun;Junxing Li;Lihua Xu;Tuanyuan Shi;Xiufang Yuan;Yuan Fu~

2023/01729 ~ Complete ~54:QUADRIVALENT INFLUENZA VIRUS SUBUNIT VACCINE AND PREPARATION METHOD THEREOF ~71:ZHONGYIANKE BIOTECH CO., LTD, NO. 86, GAOXIN AVENUE, People's Republic of China ~72: GAO, Hui~

2023/01736 ~ Complete ~54:AN EMERGENCY VEHICLE FRIENDLY SMART TRAFFIC SIGNAL ~71:CHINCHMALATPURE, Suyash Vijaykumar, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;DIXIT, Bharati, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;PAWAR, Rajendra G., MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India ~72: CHINCHMALATPURE, Suyash Vijaykumar;DIXIT, Bharati;PAWAR, Rajendra G.~

2023/01742 ~ Complete ~54:A POWER AND METHOD FOR PREPARING A SELF-LUBRICATING BABBITT ALLOY/GRAPHITE COATING ON THE SURFACE OF LOW-CARBON STEEL ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic & Technological Development Zone, Shenyang, People's Republic of China ~72: DU,Yi;HUANG,Yichi;WU,Chenliang;XU,Tongzhou;ZHANG,Chunhua;ZHANG,Song~

- APPLIED ON 2023/02/14 -

2023/01761 ~ Complete ~54:A KIND OF RUBBER FLOOR PAVING TILE AND ITS PREPARATION METHOD ~71:Lvjian Sports Industry Technology (Shanxi) Co., Fenyang Xinghua Village Economic and Technological Development Zone White Wine Trading Centre, Lvliang, Shanxi Province, 034000, People's Republic of China;Taiyuan University of Technology, No.79 Yingze West Street, Wanbolin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Jingxin ZHU;Lan JIA;Lingjie LIANG;Wensen ZHAO;Yanlong MA;Yaodong ZHANG~

2023/01776 ~ Complete ~54:A METHOD FOR PREDICTING THE GENETIC RISK OF SEVERE ACUTE MOUNTAIN DISEASE FOR NON-DIAGNOSTIC PURPOSES ~71:General Hospital of the Western Theater

Command of the PLA, No 270, Rongdu Avenue, Jinniu District, Chengdu City, Sichuan Province, 611830, People's Republic of China ~72: Min Yang;Tao Liu;Ting Luo;Xingbiao Yang;Yiling Sun~

2023/01779 ~ Complete ~54:AN ADJUSTABLE THYROID POSITIONING PUNCTURE DEVICE ~71:Binzhou Luanfei Numerical Control Machinery Co., Ltd., The intersection of Xingbo Second Road and Xingye Seventh Road in the Economic Development Zone, Boxing County, Binzhou City, Shandong Province, 256500, People's Republic of China ~72: Zihua Wang~

2023/01781 ~ Complete ~54:A RAPID DISSOLVING DEVICE FOR OBSTETRICS AND GYNECOLOGY CLINICAL AGENTIA ~71:Ruizhi Information Technology (Binzhou) Co., Ltd., North of Xingbo Third Road and west of Xingye Fifth Road in the Economic Development Zone, Boxing County, Binzhou City, Shandong Province, 256500, People's Republic of China ~72: Zihua Wang~

2023/01784 ~ Complete ~54:CRF2 RECEPTOR AGONISTS AND THEIR USE IN THERAPY ~71:SANOFI, 54, rue la Boe#233;tie, France ~72: BEAUVERGER, Philippe;BIANCHI, Elisabetta;ELVERT, Ralf;EVERS, Andreas;HALLAND, Nis;ILLIANO, Stephane;JANIAK, Philip;LEDEIN, Laetitia;LI, Ziyu;LUCATS, Laurence;OZOUX, Marie-Laure;ROVERSI, Daniela;SANTOPRETE, Alessia;TRIPEPI, Martina~ 33:EP ~31:20315387.9 ~32:19/08/2020

2023/01789 ~ Complete ~54:COMMERCIAL GRADE ULTRA-LOW SULPHUR DIESEL PRODUCTION PROCESS FROM MIXED WASTE PLASTICS PYROLYSIS OIL ~71:CLEAN PLANET ENERGY, A TRADING NAME OF PYROPLAST ENERGY LTD, Kemp House, 152-160 City Road, United Kingdom ~72: ODJO, Andrew;STEPHENS, Bertie~ 33:GB ~31:2012708.0 ~32:14/08/2020

2023/01794 ~ Complete ~54:AQUEOUS PHARMACEUTICAL COMPOSITION COMPRISING A P2Y12 RECEPTOR ANTAGONIST ~71:Idorsia Pharmaceuticals Ltd, Hegenheimermattweg 91, ALLSCHWIL 4123, SWITZERLAND, Switzerland ~72: BUCHMANN, Stephan;FRAICHARD, Amandine;HERRMANN, Charlyse;LIENHART, Céline;VON RAUMER, Markus;WERK, Tobias~ 33:IB ~31:2020/069976 ~32:15/07/2020

2023/01797 ~ Complete ~54:METHOD FOR PRODUCING A SUGAR SYRUP FROM A RESIDUAL LIGNOCELLULOSIC BIOMASS ~71:Suez International, Tour CB21, 16 place de l'Iris, La Defense Cedex, PARIS 92040, FRANCE, France ~72: PERCHERON, Benjamin~ 33:FR ~31:2008205 ~32:31/07/2020

2023/01768 ~ Complete ~54:TREATMENT METHOD FOR IMPROVING REGENERATION EFFICIENCY OF QUERCUS ROBUR TISSUE CULTURE ~71:Research Institute of Non-timber Forestry, Chinese Academy of Forestry, No. 3, Weiwu Road, Jinshui District, Zhengzhou City, Henan Province, 450003, People's Republic of China ~72: CHEN, Mengjiao;FAN, Wei;HUANG, Lin;LI, Hui;NIU, Xinjiang;QIN, Yue;REN, Yue;ZHAI, Lihai;ZHAO, Han;ZHOU, Zongshun;ZHU, Jingle;ZUO, Siyu~

2023/01804 ~ Complete ~54:THERAPEUTIC ANTIBODY FORMULATIONS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: MARKHAM, Aaron Paul;SHI, Galen Huaiqiu;THOMAS, Justin Cody~ 33:US ~31:63/076,600 ~32:10/09/2020

2023/01762 ~ Complete ~54:PORTABLE CLINICAL PHARMACY DISPENSING DEVICE ~71:AFFILIATED HOSPITAL OF WEIFANG MEDICAL UNIVERSITY, No. 2428, Yuhe Road, Kuiwen District, Weifang City, Shandong Province, People's Republic of China ~72: BAI Farui;JI Yinghui;LI Min~

2023/01767 ~ Complete ~54:METHOD FOR DISTINGUISHING QUERCUS VARIABILIS FROM QUERCUS ACUTISSIMA ~71:Research Institute of Non-timber Forestry, Chinese Academy of Forestry, No. 3, Weiwu Road, Jinshui District, Zhengzhou City, Henan Province, 450003, People's Republic of China ~72: CHEN,

Mengjiao;HUANG, Lin;LI, Hui;LIU, Yaxin;QIAO, Yongsheng;QIN, Yue;TANG, Jun;YANG, Xia;ZHANG, Wan;ZHAO, Han;ZHOU, Zongshun;ZHU, Jingle;ZUO, Siyu~

2023/01770 ~ Complete ~54:METHOD FOR DETERMINING TEMPERATURE FIELD OF SPIRAL BEVEL GEAR ~71:Zhengzhou Research Institute of Mechanical Engineering Co., Ltd., No. 149, Science Avenue, Zhengzhou High-tech Industrial Development Zone, Henan Province, 450000, People's Republic of China ~72: LIU, Shijun;WANG, Dongfei;WANG, Feng;XU, Wenbo;YANG, Shufeng;YU, Wentao;ZHAO, Hongfeng~

2023/01759 ~ Provisional ~54:DIGITAL TRANSACTION TYPE-CONVERSION ~71:ENTERSEKT INTERNATIONAL LIMITED, Level 3, Alexander House, 35 Cybercity, Mauritius ~72: OOSTHUIZEN, Gerhard Gysbert~

2023/01760 ~ Provisional ~54:"ATMOSPHERIC PRESSURE ENABLER" AND ATMOSPHERIC PRESSURE POWERED MACHINE ~71:Muvili Simba, Plot 90, M26 (Erasmia Road),Knopjslaagte, Centurion, South Africa ~72: Dr. Muvili Simba~

2023/01763 ~ Complete ~54:A KIND OF ROAD INORGANIC BONDED BASE MATERIAL ANTI-SCOURING TEST EQUIPMENT AND EVALUATION METHOD ~71:Changchun Jianye Group Co., No.9399 Renmin Street, Nangan District, Changchun City, Jilin Province, 130022, People's Republic of China;Harbin Institute of Technology, No.73, Huanghe Road, South District, Harbin City, Heilongjiang Province, 150090, People's Republic of China ~72: Fengxia JIANG;Long WANG~

2023/01764 ~ Complete ~54:A ROAD COMPACTION UNIFORMITY DETECTION AND EVALUATION METHOD BASED ON PFWD ~71:Changchun Jianye Group Co., No.9399 Renmin Street, Nangan District, Changchun City, Jilin Province, 130022, People's Republic of China;Harbin Institute of Technology, No.73, Huanghe Road, South District, Harbin City, Heilongjiang Province, 150090, People's Republic of China ~72: Fengxia JIANG;Long WANG~

2023/01766 ~ Complete ~54:BROAD BAND DIRECTIONAL ANTENNA ~71:POYNTING ANTENNAS (PTY) LIMITED, Unit 4, N1 Industrial Park, Landmarks Avenue, South Africa ~72: MOYCE, Shane Alexander;NITCH, Derek, Colin~ 33:ZA ~31:2022/02053 ~32:18/02/2022

2023/01769 ~ Complete ~54:PREPARATION METHOD FOR DOUBLE-DRUG-LOADED CORE-SHELL STRUCTURE TYPE NANOFIBERS BASED ON ELECTROSTATIC SPINNING OF PICKERING EMULSION ~71:Anhui Polytechnic University, Anhui Polytechnic University, Beijing Middle Road, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: XU, Bo;XU, Maodong;ZHANG, Cuige;ZHANG, Rongli~

2023/01772 ~ Complete ~54:CHICKEN PREPARATION PROCESS FOR RETORT COOKING AND PACKAGING ~71:MICALLEF, Stanley Charles, 10 Orange Road, Farrarmere, South Africa ~72: MICALLEF, Stanley Charles~ 33:ZA ~31:2022/09591 ~32:29/08/2022

2023/01773 ~ Complete ~54:SNP MARKER OF GP GENE AND ITS APPLICATION IN MACROBRACHIUM ROSENBERGII ~71:GUANGXI ACADEMY OF FISHERY SCIENCES, No.8 Qingshan Road, QingXiu District, Nanning City, Guangxi Zhuang Autonomous Region, 530021, People's Republic of China;GUANGXI BOTANICAL GARDEN OF MEDICINAL PLANTS, No.189 Changgang Road, Xingning District, Nanning City, Guangxi Zhuang Autonomous Region, 530023, People's Republic of China ~72: GUANGHUA HUANG;JIANPING JIANG~ 33:CN ~31:2022102133750 ~32:04/03/2022

2023/01780 ~ Complete ~54:TRAJECTORY TRACKING ALGORITHM FOR ASTEROID SURFACE SPACE EQUIPMENT BASED ON SPARROW SEARCH ALGORITHM ~71:China University of Mining and Technology, Nanhu Campus, China University of Mining and Technology, Quanshan District, Xuzhou City, Jiangsu Province,

221116, People's Republic of China ~72: Baiyi Wang; Congmin Fang; Dezheng Hua; Lai Peng; Mengya Hu; Qiyu Wang; Xiaoqiang Guo; Xiaoyang Liu; Xinhua Liu; Yurui Shen~ 33:CN ~31:202211295394.9 ~32:21/10/2022

2023/01783 ~ Complete ~54:A THORACIC SURGERY MEDICAL CARE DISK ~71:Binzhou Boxing Zhichuang Digital Technology Co., Ltd., The intersection of Xingbo Third Road and Xingye Fifth Road in the Economic Development Zone, Boxing County, Binzhou City, Shandong Province, 256500, People's Republic of China ~72: Ruifeng Han~

2023/01788 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TARGETING TUMOR-ASSOCIATED MACROPHAGES ~71:RESOLUTE SCIENCE, INC., 3210 Merryfield Row, San Diego, California 92121, United States of America ~72: FAITH BARNETT~ 33:US ~31:63/068,904 ~32:21/08/2020

2023/01796 ~ Complete ~54:DRILL STRING JOINT DESIGN ~71:Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: JANSSON, Tomas; NORDBERG, Anders~ 33:EP ~31:20196583.7 ~32:17/09/2020

2023/01803 ~ Complete ~54:PROCESSES AND INTERMEDIATES FOR THE PREPARATION OF (S)-5-AMINO-3-(4-((5-FLUORO-2-METHOXYBENZAMIDO)METHYL)PHENYL)-1-(1,1,1-TRIFLUOROPROPANE-2-YL)-1H-PYRAZOLE-4-CARBOXAMIDE ~71:Loxo Oncology, Inc., 281 Tresser Blvd. 9th Floor, STAMFORD 06901, CT, USA, United States of America ~72: ARGUELLES DELGADO, Alonso Jose; EARY, Charles Todd; FENNELL, Jared Wade; FRANK, Scott Alan; MAGNUS, Nicholas Andrew; MCFADDIN, Elizabeth Ann; ROTHHAAR, Roger Ryan; SPENCER, Stacey Renee; VAID, Radhe Krishan~ 33:US ~31:63/076,577 ~32:10/09/2020

2023/01786 ~ Complete ~54:QUALITY EVALUATION SYSTEM FOR PROPHASE ACHIEVEMENTS OF WATER PROJECT BASED ON MOBILE PHONE APP ~71:SHENZHEN SHENSHUI WATER RESOURCES CONSULTING CO., LTD., Building 401, Luohu Investment Holding Building, 112 Qingshuihe First Road, Qingshuihe Community, Qingshuihe Street, Luohu District, Shenzhen, Guangdong, 518001, People's Republic of China ~72: LAI, Fengfeng; LI, Donglai; LI, Yunke; LIU, Zhe; LUO, Wenjun; YAN, Ge; YANG, Fan; ZHANG, Meng~ 33:CN ~31:202111500784.0 ~32:09/12/2021

2023/01790 ~ Complete ~54:EARLY INDICATION FOR REDUCED CAPABILITY DEVICES ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: BERGMAN, Johan; ENBUSKE, Henrik; GLUND, Andreas; KADAN VEEDU, Sandeep Narayanan; KITTICHOKECHAI, Kittipong; TIRRONEN, Tuomas; WANG, Yi-Pin Eric~ 33:US ~31:63/092,738 ~32:16/10/2020

2023/01792 ~ Complete ~54:PRODUCTION OF OXYGENATED DITERPENOID COMPOUNDS ~71:KØBENHAVNS UNIVERSITET, Nørregade 10, Denmark ~72: ANDERSEN-RANBERG, Johan; FORMAN, Victor; HANSEN, Nikolaj, Lervad~ 33:DK ~31:PA 2020 00964 ~32:27/08/2020

2023/01795 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING AN ANTISENSE OLIGONUCLEOTIDE FOR ORAL ADMINISTRATION ~71:AstraZeneca AB, SÖDERTÄLJE 151-85, SWEDEN, Sweden; Ionis Pharmaceuticals, Inc., 2855 Gazelle Ct., CARLSBAD 92010, CA, USA, United States of America ~72: CLEMMENSEN, Niclas; DAVIES, Nigel; DELLAMARY, Luis; ELEBRING, Marie; GENNEMARK, Peter; MARUCCI, Mariagrazia; MATIC, Hanna; PUTRA, Okky; RÅDEVIK, Andreas; TILLMAN, Lloyd; TIVESTEN, Anna; UPADHYAY, Pratik Pankaj; WALTER, Katrin~ 33:US ~31:63/079,941 ~32:17/09/2020; 33:US ~31:63/114,232 ~32:16/11/2020

2023/01802 ~ Complete ~54:LOW STRESS CAVITY EXIT FOR CONICALLY CONNECTING DRILL BIT ~71:Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: JANSSON, Tomas; KRAFT, Conny~ 33:EP ~31:20199284.9 ~32:30/09/2020

2023/01800 ~ Complete ~54:SERUM HALF-LIFE EXTENDED PD-L1 INHIBITORY POLYPEPTIDES ~71:Avacta Life Sciences Limited, Unit 20, Ash Way, Thorp Arch Estate, WETHERBY LS23 7FA , UNITED KINGDOM, United Kingdom ~72: ADAM, Estelle;BASRAN, Amrik;JENKINS, Emma;STANLEY, Emma;VINCENT, Matthew P.~ 33:US ~31:63/059,026 ~32:30/07/2020;33:US ~31:63/059,037 ~32:30/07/2020

2023/01801 ~ Complete ~54:INHIBITORS OF SARM1 ~71:Disarm Therapeutics, Inc., 1 Main Street, 11th Floor, Mailbox #14, CAMBRIDGE 02142, MA, USA, United States of America ~72: BOSANAC, Todd;BREARLEY, Andrew Simon;DEVRAJ, Rajesh;HUGHES, Robert Owen;JARJES-PIKE, Richard Andrew;PARROTT, Shelley Anne~ 33:US ~31:63/069,408 ~32:24/08/2020;33:US ~31:63/142,398 ~32:27/01/2021

2023/01765 ~ Complete ~54:DEVICE SUITABLE FOR SHORT-TERM ADHESIVE PERFORMANCE EXPERIMENT OF OLD TIMBER AND FRP SHEET ~71:North China University of Technology, NO.5, Jinyuanzhuang Road, Shijingshan District, Beijing, People's Republic of China ~72: DAI Jian;QIAN Wei;ZHANG Bo;ZHU Zhaoyang~

2023/01771 ~ Complete ~54:METHOD FOR JUDGING LARGE-SCALE PARTICIPATION OF OIL AND GAS IN SANDSTONE URANIUM MINERALIZATION BY INCLUSION H-O ISOTOPE ~71:Northwest University, No. 229, Taibai North Road, Xi'an, Shaanxi Province, People's Republic of China ~72: Li Qi;Lin Zhouyang;Liu Chiyang;Liu Mingyi;Sun Guoquan;Wang Miao;Wu Bailin;Zhang Xiaorui~

2023/01774 ~ Complete ~54:A NURSING ASSISTIVE DEVICES FOR CARDIOTHORACIC SURGERY ~71:Binzhou Boxing Zhichuang Digital Technology Co., Ltd., The intersection of Xingbo Third Road and Xingye Fifth Road in the Economic Development Zone, Boxing County, Binzhou City, Shandong Province, 256500, People's Republic of China ~72: Ruifeng Han~

2023/01775 ~ Complete ~54:HIGHLAND BARLEY MORINGA OLEIFERA HEALTH WINE AND PREPARATION METHOD THEREOF ~71:GUANGXI MINZU NORMAL UNIVERSITY, No. 23, Fozhi Road, Jiangzhou District, Chongzuo, Guangxi, People's Republic of China ~72: DONG Guiying;DONG Sishi;DUAN Aimei;GAO Zequn;GONG Yating;HUANG Qirong;JIANG Yusu;LI Cailian;LIANG Linying;LUO Chang;QIN Danfeng;XIE Luqi;YANG Jingjun~

2023/01777 ~ Complete ~54:A SPUTUM SUCTION NURSING DEVICE FOR RESPIRATORY MEDICINE ~71:Ruizhi Information Technology (Binzhou) Co., Ltd., North of Xingbo Third Road and west of Xingye Fifth Road in the Economic Development Zone, Boxing County, Binzhou City, Shandong Province, 256500, People's Republic of China ~72: Zihua Wang~

2023/01782 ~ Complete ~54:A LIMITING FIXATION AUXILIARY MECHANISM SUITABLE FOR LIVER TARGETED DRUG THERAPY ~71:Boxing Ruifeng New Materials Co., Ltd., Room 203, Foreign Trade Service Center, New Material Industrial Park, Economic Development Zone, Boxing County, Binzhou City, Shandong Province, 256500, People's Republic of China ~72: Ruifeng Han~

2023/01785 ~ Complete ~54:INHALER SYSTEM WITH OFFSET PIERCING ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: DAYIOGLU, Onur~ 33:EP ~31:20213324.5 ~32:11/12/2020

2023/01787 ~ Complete ~54:SINGLE-SERVE CAPSULE MAIN BODY AND SINGLE-SERVE CAPSULE FOR A BEVERAGE PREPARATION MACHINE AND ASSOCIATED METHOD ~71:TCHIBO GMBH, Überseering 18, 22297, Hamburg, Germany ~72: RÜDIGER TERNITE~ 33:EP ~31:20191803.4 ~32:19/08/2020

2023/01791 ~ Complete ~54:CENTRIFUGAL PUMP ~71:BATTLEMAX (PTY) LTD, 592 Barolong Street, Mooiplaats 355-Jr, South Africa ~72: BUITENDAG, Marthinus Jacobus;DE VILLIERS, Conrad Gräbe;MULLER, Thomas~ 33:ZA ~31:2020/05272 ~32:25/08/2020

2023/01793 ~ Complete ~54:ETHYL METHYL 10-UNDECYLAMINOPROPIONATE, AS WELL AS PREPARATION METHOD THEREFOR AND APPLICATION THEREOF IN REPELLING MOSQUITOES ~71:INSTITUTE OF ZOOLOGY, GUANGDONG ACADEMY OF SCIENCES, No. 105, Xingang Road West, Haizhu District, Guangzhou City, People's Republic of China ~72: Dasong CHEN;Hong HUANG;Hua WU;Jianqing DAI;Jihuan ZHENG~ 33:CN ~31:202110088370.5 ~32:22/01/2021

2023/01798 ~ Complete ~54:COMMISSURE MARKER FOR A PROSTHETIC HEART VALVE ~71:Edwards Lifesciences Corporation, One Edwards Way, IRVINE 92614, CA, USA, United States of America ~72: ANGELICO, Gonzalo German;BIALAS, Michael R.;BRITZMAN, Karl J.;CERQUEIRA, Carla Susana;CORONA, Jeannette Jasmine;DO, Vicky Hong;FERNANDEZ, Andrea;HICKS, Kristen;HOANG, Lien Huong Thi;HOYE, Shannon Nicole;ISHIGO, Ashley Akemi;LOW, Victoria Mariko;MURAD, Michael C.;NGUYEN, Kim D.;SENEESH, Gil;WHITEHEAD, Haley Nicole;WINTERS, Taylor Michael~ 33:US ~31:63/069,567 ~32:24/08/2020;33:US ~31:63/138,890 ~32:19/01/2021

2023/01799 ~ Complete ~54:DEVICE AND METHOD FOR POLLEN APPLICATION ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: BORROWMAN, Eric Lee;BOYER, Zachary;GHEBRETINSAE, Amanuel;KOHNE, Jeffrey Lawrence;MORRIS, Jeffrey Steven;RASSOOLKHANI, Payman;SPIESS, Gretchen E.;STENDAL, Chad A.~ 33:US ~31:63/070,234 ~32:25/08/2020;33:US ~31:63/154,395 ~32:26/02/2021

2023/01778 ~ Complete ~54:A HEATING CHAIR FOR EMERGENCY TRADITIONAL CHINESE MEDICINE NURSING ~71:Boxing Ruifeng New Materials Co., Ltd., Room 203, Foreign Trade Service Center, New Material Industrial Park, Economic Development Zone, Boxing County, Binzhou City, Shandong Province, 256500, People's Republic of China ~72: RuiFeng Han~

- APPLIED ON 2023/02/15 -

2023/01809 ~ Complete ~54:PAENIBACILLUS TERRAE STRAIN FOR CONTROLLING BOTRYTIS CINEREA OF PARIS POLYPHYLLA AND APPLICATION THEREOF ~71:Institute of Chinese Herbal Medicines, Hubei Academy of Agricultural Sciences, No. 253, Xueyuan Road, Enshi City, Enshi Tujia and Miao Autonomous Prefecture, Hubei Province, 445000, People's Republic of China ~72: DUAN, Yuanyuan;GUO, Jie;GUO, Xiaoliang;TANG, Tao;WANG, Fanfan;YOU, Jingmao~

2023/01812 ~ Complete ~54:HIGHLAND BARLEY ROSA LAEVIGATA HEALTH-CARE WINE AND PREPARATION METHOD ~71:GUANGXI MINZU NORMAL UNIVERSITY, No. 23, Fozhi Road, Jiangzhou District, Chongzuo, Guangxi, People's Republic of China ~72: HUANG Xiangping;JIANG Xingwei;QIN Siqu;QU Bin;WANG Xuanping;WANG Yinlan;WEI Meili;WEN Dongyu;YANG Jingjun;ZHANG Hongying~

2023/01817 ~ Complete ~54:THE STEEL PLATE BENDING MACHINE IS CONVENIENT TO ADJUST THE BENDING ANGLE ~71:Lu 'an Bi Qianwei Electromechanical Technology Co., LTD, Room 303, Building A, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: HeNeng Wang~

2023/01829 ~ Complete ~54:METHOD FOR BREEDING NEW BARLEY VARIETIES BY CHEMICAL MUTATION ~71:Zhejiang Academy of Agricultural Sciences, 198 Shiqiao Road, Hangzhou, Zhejiang Province, 310021, People's Republic of China ~72: Cai Kangfeng;Liu Lei;Wang Junmei;Yue Wenhao~

2023/01838 ~ Complete ~54:A MATERNITY, INFANT AND CHILD PRODUCT PACKAGING TABLE WITH A GUIDING MECHANISM ~71:Huainan Normal University, Dongshan West Road, Quanshan Campus of Huainan Normal University, Tian Jia'an District, Huainan City, Anhui Province, 232038, People's Republic of China ~72: Shaohua Qiu;Yanfen Li~

2023/01852 ~ Complete ~54:COMPOSITIONS OF SARS-COV-2 VACCINES BASED ON THE RECEPTOR BINDING DOMAIN, EXPRESSED AS A DIMER, AND THE OUTER MEMBRANE VESICLE OF MENINGOCOCCAL GROUP B BACTERIA ~71:CENTRO DE INMUNOLOGIA MOLECULAR, CALLE 216 ESQ. 15, ATABEY, PLAYA, HABANA 11300, LA HABANA ,CUBA, Cuba;INSTITUTO FINLAY DE VACUNAS, AVENIDA 21 ENTRE 198 Y 200, NÚMERO 19810, ATABEY, PLAYA, LA HABANA, C.P. 11600, CUBA, Cuba ~72: BOGGIANO AYO, Tammy;CHEN, Guang Wu;CHOVEL CUERVO, Mario Landys;CLIMENT RUIZ, Yanet;FERNÁNDEZ CASTILLO, Sonsire;GARCÍA RIVERA, Dagmar;GONZÁLEZ RODRÍGUEZ, Humberto;OJITO MAGAZ, Eduardo;OLIVA HERNÁNDEZ, Reynaldo;PÉREZ NICADO, Rocmira;RAMÍREZ GONZÁLEZ, Ubel Jesús;RODRÍGUEZ NODA, Laura Marta;SÁNCHEZ RAMÍREZ, Belinda;VALDÉS BALBÍN, Yury;VEREZ BENCOMO, Vicente Guillermo~ 33:CU ~31:2020-0057 ~32:20/08/2020

2023/01868 ~ Complete ~54:ANTI-EPHA4 ANTIBODY ~71:Eisai R&D Management Co., Ltd., 4-6-10 Koishikawa, Bunkyo-ku, TOKYO 1128088, JAPAN, Japan ~72: INOUE, Eiji;KAWAKATSU, Tomomi;NAKATANI, Aki;YAMADA, Akio~ 33:JP ~31:2020-214958 ~32:24/12/2020

2023/01818 ~ Complete ~54:PE RELEASE FILM PRODUCTION WITH THE WIND RING COOLING DEVICE ~71:Lu 'an Bi Qianwei Electromechanical Technology Co., LTD, Room 303, Building A, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: HeNeng Wang~

2023/01828 ~ Complete ~54:METHOD FOR TESTING EARLY PREGNANCY OF FEMALE SIBERIAN TIGERS AFTER MATING ~71:Mudanjiang Normal University, Cultural Street, Aimin District, Mudanjiang City, Heilongjiang Province, People's Republic of China ~72: JIN Zhe;JIN Zhimin;LIU Zhu;QIAO Zhenglei;XUE Jukun~

2023/01835 ~ Complete ~54:THE STORAGE RACK OF THE DIGITAL TUBE ~71:Lu 'an YuanRongTing Electromechanical Technology Co., LTD, Room 407, Building C, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: YongZhu Lu~

2023/01839 ~ Complete ~54:METHOD FOR EXTRACTING POLYSACCHARIDE FROM STROPHARIA RUGOSOANNULATA ~71:JIAXING VOCATIONAL&TECHNICAL COLLEGE, No. 547, Tongxiang Avenue, Jiaxing City, Zhejiang Province, People's Republic of China ~72: HE Weiqiang;LIU Jun~

2023/01857 ~ Complete ~54:MOTORIZED INJECTION SYSTEM AND METHODS OF USE ~71:MEIRAGTX UK II LIMITED, 92 Britannia Walk, London, N1 7NQ, United Kingdom ~72: BRYAN LAULICHT;EDWARD AHN;GIRISH CHITNIS~ 33:US ~31:63/064,975 ~32:13/08/2020

2023/01859 ~ Complete ~54:STAT-ACTIVATED MACROPHAGES, COMPOSITIONS, AND USES THEREOF ~71:THE GEORGE WASHINGTON UNIVERSITY, A CONGRESSIONALLY CHARTERED NOT-FOR-PROFIT CORPORATION, 1922 F Street N.W., 4th Floor, Washington, District of Columbia, 20052, United States of America ~72: ALEJANDRO VILLAGRA;MARIA DEL MAR GRACIA HERNANDEZ;SATISH NOONEPALLE~ 33:US ~31:63/108,027 ~32:30/10/2020

2023/01871 ~ Complete ~54:CRYSTALLINE FORM OF L-GLUFOSINATE AMMONIUM SALT AND PROCESS FOR PRODUCTION THEREOF ~71:UPL Limited, UPL House, 610 B/2, off Western Express Highway, Bandra Village, Bandra- East, MUMBAI 400051, MAHARASHTRA, INDIA, India ~72: KINI, Prashant Vasant;MISHRA, Ashishkumar Ravindra;MUDALIAR, Chandrasekhar Dayal;SHELKE, Santosh Ganpat~ 33:IN ~31:202021033002 ~32:31/07/2020

2023/01813 ~ Complete ~54:METHOD FOR PREPARING NITROGEN-DOPED POROUS CARBON MATERIAL BY TAKING ZINC NITRATE AS ACTIVATOR ~71:JIANGXI ACADEMY OF SCIENCES, No. 7777, Changdong Avenue, Qingshanhu District, Nanchang City, Jiangxi Province, 330096, People's Republic of China ~72: LIU, Yuewei~

2023/01816 ~ Complete ~54:A METHOD FOR COLLECTING SEEDS OF WINGED FRUIT SHRUBS AND ESTIMATING PRODUCTION ~71:Xinjiang Institute of Ecology and Geography of the Chinese Academy of Sciences, 818 Beijing South Road, Urumqi City, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: LI Congjuan;LI Shengyu;LIU Guojun;LV Chaoyan;PEI Yuliang;YANG Huabing~

2023/01836 ~ Complete ~54:ANTENNA AUXILIARY STRUCTURE ~71:Lu 'an YuanRongTing Electromechanical Technology Co., LTD, Room 407, Building C, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: YongZhu Lu~

2023/01840 ~ Complete ~54:A SYSTEM FOR COMPOSITE WAVEFORM OF (GAUSSIAN AND RAYLEIGH) DISTRIBUTION FOR NLFM GENERATION AND METHOD THEREOF ~71:Dr. B.Leelaram Prakash, Professor, Department of ECE, Geethanjali College of Engineering and Technology, Cheeryala, Hyderabad, Telangana, 501301, India;Mrs.N.Roopaa Vathi, Assistant Professor, Department of Electronics and Communication Engineering, GVP College of Engineering for Women, Madhurawada, Visakhapatnam, Andhra Pradesh, 530048, India;Prof. K.Raja Rajeswari, Formerly Professor from Andhra University, Present Director (R & D), GVP College of Engineering for Women, Madhurawada, Visakhapatnam, Andhra Pradesh, 530048, India ~72: Dr. B.Leelaram Prakash;Mrs.N.Roopaa Vathi;Prof. K.Raja Rajeswari~ 33:IN ~31:202241075280 ~32:25/12/2022

2023/01851 ~ Complete ~54:AQUEOUS POLYMER LATEX OF FILM-FORMING COPOLYMERS SUITABLE AS BINDER IN WATERBORNE COATING COMPOSITIONS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: EICHHORN, Sabine;FLECKENSTEIN, Christoph;FLEISCHHAKER, Friederike;LOHMEIJER, Bastiaan;MISSKE, Andrea;ROSCHMANN, Konrad;SCHEUBLE, Martin, Robert;WAGNER, Oliver;WILLERICH, Immanuel;WOLF, Thomas~ 33:EP ~31:20186698.5 ~32:20/07/2020;33:EP ~31:20215915.8 ~32:21/12/2020

2023/01811 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF METAL IN-DOPED ZNO QUANTUM DOT SENSOR ~71:Electric Power Research Institute of Jilin Electric Power Co., Ltd., Jilin, China., 4433 Renmin Street, Chaoyang District, Changchun City, Jilin Province, 130000, People's Republic of China;Jilin Electric Power Research Institute Co.,Ltd., 4433 Renmin Street, Chaoyang District, Changchun City, Jilin Province, 130000, People's Republic of China;Northeast Electric Power University, No.169, changchun road, Jilin City, Jilin Province, 132012, People's Republic of China ~72: CUI Tiancheng;DONG Hongda;GUO Jiachang;JIAO Lixin;LI Jiashuai;LI Shouxue;LIE Jianping;LIN Haidan;LIU Dan;LUAN Jingyao;TAI Yufeng;WANG Bolin;YANG Daiyong;YU Qunying;ZHANG Haifeng;ZHANG Zilong;ZHAO Tiancheng~ 33:CN ~31:2023100768585 ~32:29/01/2023

2023/01826 ~ Complete ~54:SAND BARRIER FOR ECOLOGICAL RESTORATION AND DESERTIFICATION CONTROL ~71:XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY, CHINESE ACADEMY OF SCIENCES, 818 South Beijing Road, Urumqi, Xinjiang, People's Republic of China ~72: WANG Yongdong;YOU Yuan;ZHOU Na~

2023/01830 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE PRODUCT SUITABLE FOR MEN TO IMPROVE IMMUNITY AND KILL CORONAVIRUS ~71:Li Zude, No.2-77 Huagu Street, Guangde City (county-level city), Xuancheng, Anhui, People's Republic of China ~72: Li Zude~

2023/01850 ~ Complete ~54:DEVICE FOR AN ENERGY TRANSFER AND FOR AN ENERGY STORAGE IN A LIQUID RESERVOIR ~71:ENVOLA GMBH, MAX-BORN-STRASSE 2-4, 89081 ULM, GERMANY, Germany ~72: ELHELALY, Islam;IHLE, Gerhard;SCHECHNER, Alexander~ 33:DE ~31:10 2020 119 652.0 ~32:24/07/2020

2023/01856 ~ Complete ~54:NOVEL COMPOUNDS FOR USE IN THE TREATMENT OF DISEASES ASSOCIATED WITH ANGIOTENSIN II ~71:VICORE PHARMA AB, Kornhamnstorg 53, SE-111 27, Stockholm, Sweden ~72: BENGT OHLSSON;TOMAS FEX~ 33:GB ~31:2013721.2 ~32:01/09/2020

2023/01860 ~ Complete ~54:USE OF THIAZOLIDES AGAINST CORONAVIRUSES ~71:ROMARK LABORATORIES L.C., 3000 Baypoint Drive, Suite 200, Tampa, Florida 33607, United States of America ~72: JEAN-FRANCOIS ROSSIGNOL~ 33:US ~31:63/069,313 ~32:24/08/2020

2023/01806 ~ Provisional ~54:DOG CALLER ~71:Matlhogonolo Solomon Tau, 1350 Pulela Street,Phahameng Location, South Africa ~72: Matlhogonolo Solomon Tau~ 33:ZA ~31:ZA ~32:14/02/2023

2023/01822 ~ Complete ~54:STEEL STRUCTURE WELDING JIG ~71:Lu 'an Bi Qianwei Electromechanical Technology Co., LTD, Room 303, Building A, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: HeNeng Wang~

2023/01832 ~ Complete ~54:CEMENT MORTAR GENERATING EQUIPMENT ~71:Lu 'an YuanRongTing Electromechanical Technology Co., LTD, Room 407, Building C, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: YongZhu Lu~

2023/01808 ~ Provisional ~54:DISPOSABLE BEVERAGE INSULATOR CONTAINER CUP ~71:Selby Mabaso, Peza Street, 10063a Peza Street, South Africa ~72: Selby Mabaso~

2023/01870 ~ Complete ~54:LIPID CONJUGATES FOR THE DELIVERY OF THERAPEUTIC AGENTS ~71:Arrowhead Pharmaceuticals, Inc., 177 East Colorado Boulevard, Suite 700, PASADENA 91105, CA, USA, United States of America ~72: AI, Teng;LI, Xiaokai;PEI, Tao;PHAN, Susan;RAMOS-HUNTER, Susan~ 33:US ~31:63/077,290 ~32:11/09/2020;33:US ~31:63/214,745 ~32:24/06/2021;33:US ~31:63/230,257 ~32:06/08/2021

2023/01842 ~ Complete ~54:MYTHIMNA SEPARATA (WALKER) FEED AND PREPARATION METHOD THEREOF ~71:HUNAN ACADEMY OF FORESTRY, NO. 658, SHAOSHAN SOUTH ROAD, People's Republic of China ~72: DENG, Wan;HE, Zhen;LI, Mi;XIE, Yifei;YU, Jinxiu;YUAN, Dongju;ZHONG, Wuhong~

2023/01844 ~ Complete ~54:A POWDER AND METHOD FOR PREPARING HIGH HARDNESS CO-BASED COATING ON STAINLESS STEEL SURFACE ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic & Technological Development Zone, Shenyang, People's Republic of China ~72: WANG,Rui;WANG,Tao;WU,Chenliang;ZHANG,Chunhua;ZHANG,Hanfang;ZHANG,Song~

2023/01862 ~ Complete ~54:AGRICULTURAL SPRAYER AND METHOD FOR OPERATING AN AGRICULTURAL SPRAYER ~71:KVERNELAND GROUP NIEUW-VENNEP B.V., Hoofdweg 1278, 2153 LR, Nieuw-Vennep, Netherlands ~72: RENÉ VAN DER KROGT~ 33:EP ~31:20202186.1 ~32:16/10/2020

2023/01807 ~ Provisional ~54:CUTTING HEAD FOR A TUNNEL BORING MACHINE ~71:Drilling Technical Services (Pty) Ltd., 4 Bosman Street, FOCHVILLE, 2515, Gauteng, SOUTH AFRICA, South Africa ~72: JORDAAN, Barend Jacobus;ROOTHMAN, Willem Hermanus~

2023/01825 ~ Complete ~54:A METHOD OF PLANTING CROPS IN A NARROW-ROW SHRUB ECONOMIC PROTECTION FOREST ~71:Xinjiang Institute of Ecology and Geography of the Chinese Academy of Sciences,

818 Beijing South Road, Urumqi City, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: FAN Jinglong;LI Shengyu;LIU Guojun;SONG Chunwu;YANG Huabing;ZHANG Shicong;ZHOU Zhibin~

2023/01845 ~ Complete ~54:A METHOD FOR MATHEMATICAL MODELING OF THE RESPONSES OF FOCUS GROUP PARTICIPANTS ~71:Dhiraj Rajesh Baghel, Government English Medium School, Pandariya, Kabirdham, Chhattisgarh, 491559, India;Dr Rashmi Jaiswal, St Aloysius Institute of Technology, Jabalpur, (Madhya Pradesh), 482001, India;Dr Ratnesh kumar, Tagore Collage of Management Sakri Bilaspur, Chhattisgarh, 495001, India;Dr. (Ms.) Aradhana Dhanaraj, St Aloysius Institute of Technology, Jabalpur, (Madhya Pradesh), 482001, India;Dr. Angesh K. Chandra, Government Naveen College Saragaon, District- Janjgir-Champa, Chhattisgarh, 495686, India;Dr. Anuradha Banerjee, Department of Computer Applications, Kalyani Government Engineering College, Kalyani, Nadia, West Bengal, 741235, India;Dr. Ashutosh Mishra, School of Integrated Technology, Yonsei University, 21983, Republic of Korea;Dr. Karunesh Tiwari, Department of Physics, Babu Banarasi Das University, Lucknow, Uttar Pradesh, 226028, India;Dr. Rajiv Harris Peters, Training and Placement (Head) of Dr. C. V. Raman University Kargi Road Kota, Bilaspur, Chhattisgarh, 495113, India;Pragati Banwar, Tagore College of Management, Sakri Bilaspur, Chhattisgarh, 495001, India;Preeti Nema, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, 492010, India ~72: Dhiraj Rajesh Baghel;Dr Rashmi Jaiswal;Dr Ratnesh kumar;Dr. (Ms.) Aradhana Dhanaraj;Dr. Angesh K. Chandra;Dr. Anuradha Banerjee;Dr. Ashutosh Mishra;Dr. Karunesh Tiwari;Dr. Rajiv Harris Peters;Pragati Banwar;Preeti Nema~

2023/01855 ~ Complete ~54:GENETIC-ALGORITHM-BASED EQUALIZATION USING IIR FILTERS ~71:THAT CORPORATION, 45 Sumner Street, Milford, United States of America ~72: BARNHILL, Matthew, S.~ 33:US ~31:63/089,929 ~32:09/10/2020

2023/01864 ~ Complete ~54:STEEL FOR LEAF SPRINGS OF AUTOMOBILES AND A METHOD OF MANUFACTURING OF A LEAF THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Bertrand MICHAUT;Jean-Michel JACHMICH;Laurent LORICH~

2023/01815 ~ Complete ~54:INTELLIGENT DEVICE FOR REAL-TIME MONITORING DRILLING PARAMETERS OF DRILLING RIG ~71:Hua Hui Engineering Design Group Co., Ltd, Floor 21, No.177 Jiefang Avenue, Shaoxing City, Zhejiang Province, People's Republic of China;SHAOXING UNIVERSITY, No.508 Huancheng West Road, Shaoxing City, Zhejiang Province, People's Republic of China ~72: CHEN Zhangwei;HU Chundong;HUANG Man;LIN Dongming;SHA Peng;WU Zaosheng;ZHANG Xin~ 33:CN ~31:2022112265440 ~32:09/10/2022

2023/01833 ~ Complete ~54:SPLICE TYPE PARTITION WALL ~71:Lu 'an YuanRongTing Electromechanical Technology Co., LTD, Room 407, Building C, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: YongZhu Lu~

2023/01843 ~ Complete ~54:A SOIL SLOPE ECOLOGICAL RESTORATION SYSTEM ~71:Nanchang Institute of Technology, No. 289 Tianxiang Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, 330099, People's Republic of China ~72: Fan Ma;Haina Zhang;Jianmin Zhao;Jinwen Xia;Lichao Zhang;Peilin Ge;Xianghui Lu~

2023/01863 ~ Complete ~54:SYSTEM AND METHODS OF A VERTICAL ROD BAFFLE HEAT EXCHANGER ~71:LUMMUS NOVOLEN TECHNOLOGY, GMBH, Gottlieb-Daimler-Str.8, Germany ~72: BRIGNONE, Marco;FIEDLER, Frank;RUHL, Oliver Marco;SCHWAB, Jochen Axel~ 33:EP ~31:20192268.9 ~32:21/08/2020

2023/01867 ~ Complete ~54:WATER SOLUBLE CONTAINER CONTAINING DYE AND METHOD FOR PRODUCING A DYED, AQUEOUS ALKALI METAL CYANIDE SOLUTION ~71:CyPlus GmbH, Deutsche Telekom-Allee 9, DARMSTADT 64295, GERMANY, Germany ~72: MEGATIF, Lena;SCHMIDT, Bernd;SCHUMACHER, Bernd;SILL, Torsten;VILLELA FILHO, Murillo~ 33:EP ~31:20191314.2 ~32:17/08/2020

2023/01820 ~ Complete ~54:ELECTROLYTIC CAPACITOR TRANSPORT DEVICE ~71:Lu 'an Bi Qianwei Electromechanical Technology Co., LTD, Room 303, Building A, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: HeNeng Wang~

2023/01823 ~ Complete ~54:THE PRODUCT STATIC IMAGE RECOGNITION DEVICE ~71:Lu 'an Bi Qianwei Electromechanical Technology Co., LTD, Room 303, Building A, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: HeNeng Wang~

2023/01831 ~ Complete ~54:VULCANIZED RUBBER RECYCLED RUBBER AND MANUFACTURING PROCESS THEREOF ~71:xuzhou college of industrial technology, No.1, Xiwang Road, Gulou District, Xuzhou, Jiangsu, 221000, People's Republic of China ~72: Wang Yanqiu;Weng Guowen~

2023/01841 ~ Complete ~54:AN ANTI-CANCER HDAC INHIBITOR TO TARGET ALZHEIMER'S DISEASE BY INHIBITING HUMAN MMP-13 AND GLUTATHIONE S-TRANSFERASE ~71:Dr. B. Senthilnathan, Professor, Department of Pharmaceutics, Faculty of Pharmacy, Sree Balaji Medical College and Hospital Campus, Bharath Institute of Higher Education and Research, Chromepet, Chennai, Tamilnadu, 600044, India;Dr. K. Manvizhi, Assistant Professor, Department of Chemistry, Faculty of Science and Humanities, Anand Institute of Higher Technology, Chennai, Tamilnadu, 603103, India;Dr. K. Masilamani, Professor, Department of Pharmaceutics, Faculty of Pharmacy, Sree Balaji Medical College and Hospital Campus, Bharath Institute of Higher Education and Research, Chromepet, Chennai, Tamilnadu, 600044, India;Dr. K.Rajaganapathy, Managing Director, Bioreach Labs (OPC) Pvt Ltd, No-163, 8th Cross Street, Balaji Nagar, Madampakkam,, Chennai, Tamilnadu, 600126, India;Dr. P. Panneerselvam, Principal, Faculty of Pharmacy, Sree Balaji Medical College and Hospital Campus, Bharath Institute of Higher Education and Research, Chromepet, Chennai, Tamilnadu, 600044, India;Dr. R. Gowri, Associate Professor, Department of Pharmaceutics, GRT Institute of Pharmaceutical Education and Research, Tirutani, Chennai, Tamilnadu, 631209, India;Mr. M. Loganathan, Associate Professor, Department of Pharmaceutical Chemistry, Jaya College of Paramedical Sciences, College of Pharmacy (Affiliated to The Tamilnadu Dr.MGR Medical University), Thiruninravur, Chennai, Tamilnadu, 602024, India;Mr. M.Vigneshwar, Assistant Professor, Department of Pharmaceutics, Faculty of Pharmacy, Dr.MGR Educational and Research Institute, Maduravoyal, Chennai, Tamilnadu, 600077, India;Mrs. K. Devi, Associate Professor, Department of Pharmacology, Annai Veilankanni's Pharmacy College,, (Affiliated to The Tamilnadu Dr.MGR Medical University), No.81/33, VGP Salai, Saidapet, Chennai, Tamilnadu, 600015, India;Mrs. M. Manoyogambiga, Assistant Professor, Faculty of Pharmacy, Sree Balaji Medical College and Hospital Campus, Bharath Institute of Higher Education and Research, Chromepet, Chennai, Tamilnadu, 600044, India ~72: Dr. B. Senthilnathan;Dr. K. Manvizhi;Dr. K. Masilamani;Dr. K.Rajaganapathy;Dr. P. Panneerselvam;Dr. R. Gowri;Mr. M. Loganathan;Mr. M.Vigneshwar;Mrs. K. Devi;Mrs. M. Manoyogambiga~ 33:IN ~31:202241072726 ~32:15/12/2022

2023/01861 ~ Complete ~54:METHODS OF PREPARING MODIFIED DOSAGE FORMS AND RELATED COMPONENTS ~71:THE GLOBAL ALLIANCE FOR TB DRUG DEVELOPMENT, INC., 40 Wall Street, New York, New York, 10005, United States of America ~72: JOSEPH ANTHONY SCARIM;RAJNEESH TANEJA~ 33:US ~31:63/073,049 ~32:01/09/2020;33:US ~31:63/167,988 ~32:30/03/2021

2023/01873 ~ Complete ~54:PHARMACOLOGICALLY ACTIVE HETEROCYCLIC-SUBSTITUTED PYRAZOLO[1,5-A]PYRIMIDINE DERIVATIVES ~71:RICHTER GEDEON NYRT., H-1103 Budapest, Hungary ~72: ÉLES, János;BÉNYEI, Gyula Attila;BORZA, István;GEGÖ, Csaba Lehel;PETRÓ, József Levente;ROMÁN, Viktor~ 33:HU ~31:P2000254 ~32:05/08/2020

2023/01819 ~ Complete ~54:THE COARSE TYPE CABLE FAST TRUNCATION EQUIPMENT ~71:Lu 'an Bi Qianwei Electromechanical Technology Co., LTD, Room 303, Building A, Xiyangyang Industrial Park, Economic

Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: HeNeng Wang~

2023/01848 ~ Complete ~54:A DIELECTRIC SPECTROSCOPY SENSOR SYSTEM FOR MEASURING LIQUID DIELECTRIC CONSTANT ~71:ARUNA MAHAROLKAR, Maharashtra Institute of Technology, Aurangabad, (Maharashtra), India;ASHOK DONGARE, Vasantdada Patil Arts, Commerce and Science College Patoda (Maharashtra), 414204, India;GAUS MOHIUDDIN SAYYAD, MGM's Jawaharlal Nehru Engineering College, Aurangabad, (Maharashtra), 431003, India;MANGESH KOLAPKAR, Vidyapratishtan's Arts, Science and Commerce College, Baramati, (Maharashtra), 413133, India;PATIL GANGADHAR, KRT Arts, BH Commerce & AM Science (KTHM) College, Nashik, (Maharashtra), 422002, India;SANDIP ANPAT, Marathwada Mitra Mandal's College of Commerce, Pune, (Maharashtra), 411004, India;SANTOSH DUBAL, Balbhim Arts, Science and Commerce College, Beed, (Maharashtra), 431122, India;SAYYAD SHAFIYODDIN, Milliya Arts, Science and Management Science College, Beed (Maharashtra), 431122, India;SHAIKH MUDASSAR, New Arts Commerce and Science College, Ahmednagar, (Maharashtra), 414001, India ~72: ARUNA MAHAROLKAR;ASHOK DONGARE;GAUS MOHIUDDIN SAYYAD;MANGESH KOLAPKAR;PATIL GANGADHAR;SANDIP ANPAT;SANTOSH DUBAL;SAYYAD SHAFIYODDIN;SHAIKH MUDASSAR~

2023/01869 ~ Complete ~54:RNAI AGENTS FOR INHIBITING EXPRESSION OF DUX4, COMPOSITIONS THEREOF, AND METHODS OF USE ~71:Arrowhead Pharmaceuticals, Inc., 177 East Colorado Boulevard, Suite 700, PASADENA 91105, CA, USA, United States of America ~72: AL, Teng;DING, Zhi-Ming;LI, Xiaokai;NICHOLAS, Anthony;PEI, Tao;PHAN, Susan;RAMOS-HUNTER, Susan;SCHIENEBECK, Casi M.;VAN DYKE, Jonathan;XU, Zhao~ 33:US ~31:63/077,272 ~32:11/09/2020;33:US ~31:63/214,742 ~32:24/06/2021

2023/01810 ~ Complete ~54:FOUR-ECCENTRIC BUTTERFLY VALVE CONVENIENT TO REMOVE AND INSTALL ~71:Dongbao Valve Co., Ltd., No. 96, East Fanhua Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, 325000, People's Republic of China ~72: CHU, Jiawei;LIU, Jiangtao;LIU, Yu;MAO, Hongbo;XIONG, Qiang;ZHANG, Haizhang;ZHANG, Qinghu;ZHU, Dailiang;ZUO, Weihui~

2023/01814 ~ Complete ~54:PROTECTIVE THROWING NET FOR HIGH-RISE BUILDING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: GENG Jinjun;LI Peng;MA Lin;NIU Jizhan;WANG Lizhi;YANG Qingjie;YOU Peibo~

2023/01821 ~ Complete ~54:MULTI-PURPOSE CIRCUIT BREAKER ~71:Lu 'an Bi Qianwei Electromechanical Technology Co., LTD, Room 303, Building A, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: HeNeng Wang~

2023/01824 ~ Complete ~54:APPLICATION OF BACILLUS VELEZENSIS ~71:Guangxi Academy of Sciences, Guangxi Academy of Sciences, No. 98, Daling Road, Nanning, Guangxi, People's Republic of China ~72: HE Shuang;WANG Xiaohu;WEI Shengbo;YE Liujian;ZHOU Liqin;ZHU Qixia~

2023/01853 ~ Complete ~54:SYSTEM FOR CLIMATE-CONTROL OF INTERIOR SPACES OF A BUILDING ~71:ENVOLA GMBH, MAX-BORN-STRASSE 2-4, 89081 ULM, GERMANY, Germany ~72: ELHELALY, Islam;IHLE, Gerhard;SCHECHNER, Alexander~ 33:DE ~31:10 2020 119 653.9 ~32:24/07/2020

2023/01872 ~ Complete ~54:IMPROVEMENTS IN PIPELINE NETWORKS ~71:PIPE TRANSFORMATIONS LTD, 20-22 BEDFORD ROW, United Kingdom ~72: PATTERSON, Colin~ 33:GB ~31:2012710.6 ~32:14/08/2020

2023/01805 ~ Provisional ~54:CENTER CAP CLIP ~71:Morne Spies, 945 Kromdraai ave Faerieglen, South Africa ~72: Morne Spies~

2023/01846 ~ Complete ~54:A METHOD FOR PERFORMING EFFICIENT SCHEDULING FOR MULTI-INPUT MULTI-OUTPUT SYSTEM USING BINARY FLOWER POLLINATION ALGORITHM ~71:Ajay Kumar Yadav, Department of Electronics and Communication Eng., C.V. Raman Global University, Bhubaneswar, Odisha, 752054, India;Jyoti Mohanty, Department of ECE, ITER, Sikha O Anusandhan Deemed to be University, Bhubaneswar, Odisha, 751030, India;Prabina Pattanayak, EC-A-31, Annex Building, Dept. of ECE, NIT Silchar, Silchar, Assam, 788010, India;Pritam Keshari Sahoo, Department of ECE, ITER, Sikha O Anusandhan Deemed to be University, Bhubaneswar, Odisha, 751030, India;Priyadarshi Kanungo, Department of Electronics and Communication Eng., C.V. Raman Global University, Bhubaneswar, Odisha, 752054, India;Yogesh Tripathi, Computer science and engineering, Koneru lakshmaiah educational foundation, Vijayawada, Andhra Pradesh, 522502, India ~72: Ajay Kumar Yadav;Jyoti Mohanty;Prabina Pattanayak;Pritam Keshari Sahoo;Priyadarshi Kanungo;Yogesh Tripathi~

2023/01854 ~ Complete ~54:CHARACTERIZATION OF ADENO-ASSOCIATED VIRUS USING MICROCHIP CAPILLARY ELECTROPHORESIS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: JIANG, Bowen;LIU, Dingjiang;TZUL, Franco~ 33:US ~31:63/071,815 ~32:28/08/2020

2023/01866 ~ Complete ~54:CONTROL DEVICE AND METHOD FOR TRACTION CONVERTER ~71:Zhuzhou CRRC Times Electric Co., Ltd., No. 169 Shidai Road, Shifeng District, ZHUZHOU 412001, HUNAN, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jinyu;FU, Gang;GAN, Weiwei;HUANG, Hao;LIN, Zhenjun;SHANG, Jing;XU, Shaolong;XUE, Xin;ZHANG, Zhibing;ZOU, Dangbing;ZOU, Donghai~ 33:CN ~31:202010751203.X ~32:30/07/2020

2023/01827 ~ Complete ~54:A KIND OF CHINESE PATENT MEDICINE FOR TREATING VOCAL CORD LEUKOPLAKIA ~71:Taizhou Central Hospital (Taizhou University Hospital), No. 999, Donghai Avenue, Economic development zone, Jiaojiang Dist., Taizhou, Zhejiang, 318000, People's Republic of China ~72: Hairong Shu~

2023/01834 ~ Complete ~54:BUILDING CURTAIN WALLS THAT ARE EASY TO CLEAN ~71:Lu 'an YuanRongTing Electromechanical Technology Co., LTD, Room 407, Building C, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: YongZhu Lu~

2023/01837 ~ Complete ~54:HIGH STRENGTH ALUMINUM CLAD STEEL CURTAIN WALL ~71:Lu 'an YuanRongTing Electromechanical Technology Co., LTD, Room 407, Building C, Xiyangyang Industrial Park, Economic Development Zone, Lu 'an City, Anhui Province, Lu 'an City, People's Republic of China ~72: YongZhu Lu~

2023/01847 ~ Complete ~54:A PROCESS OF PREPARING ORGANIC LIME-GGBS MORTARS USING ORGANIC FERMENTED WATER AND ITS COMPOSITION THEREOF ~71:Dr Bhavishya Pancharathi, Master's Student at Boston School of Public Health, Boston University, India;Dr. Nikhil Kumar Deglookar, Research Scholar, National Institute of Technology Warangal, India;Dr. Pallavi Gouribatla, Medical Officer at Alwal Health Facility (Basthi Dawakaana) Hyderabad, India;Dr.Rathish Kumar Pancharathi, Professor of Civil Engineering, National Institute of Technology, India ~72: Dr Bhavishya Pancharathi;Dr. Nikhil Kumar Deglookar;Dr. Pallavi Gouribatla;Dr.Rathish Kumar Pancharathi~

2023/01849 ~ Complete ~54:SLOPE FAILURE MONITORING SYSTEM ~71:GROUNDPROBE PTY LTD, 72 Newmarket Road, Windsor, Australia ~72: CAMPBELL, Lachlan~ 33:AU ~31:2020903032 ~32:25/08/2020

2023/01858 ~ Complete ~54:OXYGEN STORAGE CAPACITY ENHANCED COMPOSITIONS ~71:NEO PERFORMANCE MATERIALS (SINGAPORE) PTE. LTD., #01-19 The Galen, 61 Science Park Road, Singapore

Science Park Road III, 117525, Singapore ~72: PERLYN KOH;STEFFI TAN;SUZI DENG;SZU HWEE NG~ 33:US
~31:63/064,610 ~32:12/08/2020

2023/01865 ~ Complete ~54:METHOD AND SYSTEM FOR DETECTING AND AUTHENTICATING A TAGGANT
IN A MARKING VIA SURFACE-ENHANCED RAMAN SPECTROSCOPY ~71:SICPA HOLDING SA, Avenue de
Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: BREWSTER, James;MOLINA, Aldric~ 33:US
~31:63/052,695 ~32:16/07/2020

- APPLIED ON 2023/02/16 -

2023/01896 ~ Complete ~54:A NEW SMART HEALTH MULTI-FUNCTIONAL PILLOW ~71:The First Affiliated
Hospital of Xinxiang Medical College, No.88 Jiankang Road, Weihui City, Xinxiang City, Henan Province, 453100,
People's Republic of China ~72: Fujun Zhou;Jianhua Zhao;Jinghang Zhang;Junqiang Zhao;Lu Wang;Nan'ai
Li;Ningyu Li;Wu Ren;Yanbing Dun;Yong Liu;Yuxi Wang;Zongya Zhao~ 33:CN ~31:202223185761.8
~32:30/11/2022

2023/01898 ~ Complete ~54:METHOD AND DEVICE FOR INTEGRATED ENERGY DEMAND FORECASTING
OF THE PARK BASED ON THE TRANSFORMER ALGORITHM ~71:Zhejiang Sci-Tech University, No. 928, 2nd
Street, Baiyang Street, Economic and Technological Development Zone, HangZhou, ZheJiang Province, 310018,
People's Republic of China ~72: Yuanqian MA;Yuchen YIN;Yuhang LIU~

2023/01887 ~ Complete ~54:A SOIL LOSS MONITORING DEVICE ~71:Nanchang Institute of Technology, No.
289 Tianxiang Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, 330099, People's
Republic of China ~72: Fan Ma;Haina Zhang;Jianmin Zhao;Jinwen Xia;Lichao Zhang;Peilin Ge;Xianghui Lu~

2023/01917 ~ Complete ~54:ADENO-ASSOCIATED VIRUS VECTORS FOR TREATMENT OF RETT
SYNDROME ~71:SAREPTA THERAPEUTICS, INC., 215 First Street, Cambridge, Massachusetts, 02142, United
States of America ~72: COLIN O'BANION~ 33:US ~31:63/067,668 ~32:19/08/2020

2023/01933 ~ Complete ~54:CRYSTALLINE EDG-2 RECEPTOR ANTAGONIST AND METHODS OF MAKING
~71:SANOVI, 54, rue la Boétie, France ~72: BRITAIN, Jason;PERNERSTORFER, Josef;ROCCO,
William~ 33:US ~31:63/072,848 ~32:31/08/2020;33:US ~31:63/227,279 ~32:29/07/2021

2023/01934 ~ Complete ~54:BANK NOTE PROTECTION DEVICE ~71:MAGNETO IP HOLDINGS (PTY) LTD,
GATE 5, CNR NORTH REEF ROAD AND KRAFT ROAD, ELANDSFONTEIN, South Africa ~72: ROBSON,
Michael donald~ 33:ZA ~31:2020/05097 ~32:18/08/2020;33:WO ~31:PCT/IB2021/057582 ~32:18/08/2021

2023/01877 ~ Complete ~54:METHOD FOR CULTURING PRIMARY MUSCLE CELLS OF COILIA NASUS
~71:Freshwater Fisheries Research Center of Chinese Academy of Fishery Sciences, No. 9, East Shanshui
Road, Wuxi, Jiangsu Province, 214081, People's Republic of China ~72: HUANG, Dongyu;LIANG, Hualiang;REN,
Mingchun;XU, Gangchun;XU, Pao~

2023/01878 ~ Complete ~54:DEVICE FOR TREATING BUILDING CONSTRUCTION WASTE FOR CIVIL
ENGINEERING ~71:Zhengzhou University of Aeronautics, No.15 Wenyuan West Road, Zhengdong New District,
Zhengzhou, Henan Province, People's Republic of China ~72: MA Shufang;WANG Jibing;WEI Xiaogang;WU
Peng;YUE Pengwei;ZHAO Rui~

2023/01880 ~ Complete ~54:SLUDGE RECYCLING AND UTILIZING DEVICE ~71:Henan University of Urban
Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of
China ~72: DONG Zhaofeng;HAN Xiaolei;JU Rui;KONG Youfang;LI Xuhui;LIN Haixia;SHAO Di;WANG Jing;WEI

Dong;YANG Qingjie;YANG Yilong;YOU Peibo;ZHANG Lilin;ZHANG Shaozeng;ZHANG Zhiyuan;ZHOU Hengtao;ZHU Ying~

2023/01881 ~ Complete ~54:METHOD FOR PREPARING PROTEASE WITH ANTIBACTERIAL ACTIVITY AND APPLICATION THEREOF ~71:Guangxi Academy of Sciences, Guangxi Academy of Sciences,No. 98, Daling Road, Nanning, Guangxi, People's Republic of China ~72: HE Shuang;WANG Xiaohu;WEI Shengbo;YE Liujian;ZHOU Liqin;ZHU Qixia~

2023/01883 ~ Complete ~54:SLOPE REINFORCEMENT STRUCTURE OF CIVIL ENGINEERING ~71:Zhengzhou University of Aeronautics, No.15 Wenyuan West Road, Zhengdong New District, Zhengzhou, Henan Province, People's Republic of China ~72: CHEN Mengze;MA Shufang;WANG Jibing;WEI Xiaogang;YUE Pengwei;ZHAO Rui~

2023/01889 ~ Complete ~54:DOUBLE-LAYER FLAME RETARDANT FABRIC WITH WATER-REPELLENT SURFACE LAYER AND WATER-ABSORBENT INNER LAYER ~71:ZHENGZHOU ZHONGKE TEXTILE TECHNOLOGY CO., LTD., No. 6 Zizhu Road, Zhongyuan District, Zhengzhou City, Henan Province, People's Republic of China ~72: JINGHUA HUA~

2023/01897 ~ Complete ~54:TWO-SIDED MATCHING DECISION METHOD OF ELECTRICITY SALES PACKAGE BASED ON DISAPPOINTMENT THEORY ~71:Zhejiang Sci-Tech University, No. 928, 2nd Street, Baiyang Street, Economic and Technological Development Zone, Hangzhou, ZheJiang Province, 310018, People's Republic of China ~72: Jianyu RUAN;Yingtong WAN;Yuanqian MA~

2023/01900 ~ Complete ~54:A NON-INPUT SELF-COMMUTATION DRYING TYPE SECRETARIAL DATA SORTING MACHINE ~71:Henan Institute of Economics and Trade, Longzihu North Road, Longzihu University Park, Zhengdong New District, Zhengzhou City, Henan Province, People's Republic of China ~72: Du Xiaoping;Duan Qiuyue;Gao Bin;Liang Shan;Liao Wen;Wang Meng;Wang Yanfeng~

2023/01884 ~ Complete ~54:SLUDGE INTEGRATED TREATMENT DEVICE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: CHEN Honglin;DONG Shanshan;FU Haoka;JU Rui;KONG Youfang;LI Linjie;LIN Haixia;WANG Jing;WANG Xutao;ZHANG Lilin;ZHANG Zhiyuan;ZHOU Hengtao;ZHUANG Zhijian~

2023/01888 ~ Complete ~54:STEEL PIPE COMPOSITE COLUMN AND CONSTRUCTION METHOD THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: HAN Xiaolei;LI Peng;LI Taifeng;LI Xuhui;LI Ying;LIN Haixia;SHAO Di;WANG Jing;WEI Dong;WU Wanying;YANG Qingjie;YANG Yilong;YOU Peibo;ZHANG Shaozeng;ZHANG Zhiyuan;ZHU Ying~

2023/01899 ~ Complete ~54:A SOIL AND WATER CONSERVATION ECOLOGICAL TREATMENT SYSTEM IN THE RARE EARTH TAILINGS AREA ~71:Nanchang Institute of Technology, No. 289 Tianxiang Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, 330099, People's Republic of China ~72: Fan Ma;Haina Zhang;Hongmei Zhang;Jianmin Zhao;Jinwen Xia;Lichao Zhang;Peilin Ge;Rongxiu Xie;Song Guo;Xianghui Lu~

2023/01902 ~ Complete ~54:A PREPARATION METHOD OF CIGAR-FLAVORED PIPE TOBACCO ~71:China Tobacco Henan Industrial Co., Ltd., No.16, Yulin South Road, Zhengdong New District, Zhengzhou City, Henan Province, 450016, People's Republic of China ~72: Guangting Yin;Hongtao Shen;Sensen Zhao;Wenchao Zheng;Xiaohui Miao;Xinling Yang;Xinzhong Wang~ 33:CN ~31:202211680778.2 ~32:27/12/2022

2023/01909 ~ Complete ~54:METHOD AND SYSTEM FOR CALCULATING RIVERWAY WIDTH BASED ON SATELLITE IMAGES ~71:Hebei University of Engineering, No. 19, Taiji Road, economic and Technological Development Zone, Handan, Hebei, 056000, People's Republic of China;South-to-north Water Diversion Middle Route Information Technology Co. LTD, No. 202-117, 2nd Floor, Building 18, Section 17, 188 Nansihuan West Road, Fengtai District, Beijing, 100071, People's Republic of China;Zhangzhi River irrigation water supply Management Office of Handan City, No. 10, Southwest Dajie, Handan, Hebei, 056000, People's Republic of China ~72: Cai Jinshan;Guo Jie;Li Bin;Li Yulong;Liu Meiyu;Luan Qinghua;Wang Dong;Wu Wenfeng;Zhang Yinqin~ 33:CN ~31:202310082229.3 ~32:08/02/2023

2023/01914 ~ Complete ~54:POLYVINYL ALCOHOL COATED CELLULOSIC PRODUCTS ~71:AQUAPAK IP LIMITED, Hollymoor Point, Hollymoor Way, United Kingdom ~72: ASHWORTH, Robert;GRIFFITHS, Sian;MEADOWS, David Lee;WILLIAMS, John~ 33:EP ~31:20192950.2 ~32:26/08/2020

2023/01916 ~ Complete ~54:AGENTS AND METHODS FOR TARGETED DELIVERY TO CELLS ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: HANS-ULRICH SCHMOLDT;JOYCELYN WÜSTEHUBE-LAUSCH;UGUR SAHIN~ 33:EP ~31:PCT/EP2020/075744 ~32:15/09/2020

2023/01918 ~ Complete ~54:CRYSTALLINE FORMS OF CFTR MODULATORS ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ANDREY PERESYPKIN;MUNA SHRESTHA;SATISH KUMAR IYEMPERUMAL;YI SHI~ 33:US ~31:63/065,057 ~32:13/08/2020

2023/01928 ~ Complete ~54:INTERLEUKIN-17 INHIBITORS ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: FURET, Pascal;ORAIN, David;SCHLAPBACH, Achim;TROXLER, Thomas Josef;WEIGAND, Klaus~ 33:EP ~31:20205121.5 ~32:02/11/2020

2023/01915 ~ Complete ~54:PRESERVATIVE SYSTEMS AND COMPOSITIONS COMPRISING THE SAME ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: JAMIE LYNN MILLER;MATTHEW JOSEPH RIENZO~ 33:EP ~31:20192090.7 ~32:21/08/2020

2023/01919 ~ Complete ~54:SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF ~71:DE LA RUE INTERNATIONAL LIMITED, De La Rue House, Jays Close, Viables, Basingstoke, Hampshire, RG22 4BS, United Kingdom ~72: JOHN GODFREY;REBECCA LOCKE~ 33:GB ~31:2014325.1 ~32:11/09/2020;33:GB ~31:2014326.9 ~32:11/09/2020;33:GB ~31:2014327.7 ~32:11/09/2020;33:GB ~31:2014328.5 ~32:11/09/2020;33:GB ~31:2014329.3 ~32:11/09/2020;33:GB ~31:2014330.1 ~32:11/09/2020;33:GB ~31:2014331.9 ~32:11/09/2020

2023/01921 ~ Complete ~54:MOISTURIZING ANTIBACTERIAL COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AJAY SINGH NEGI;ANAT SHILOACH;BHARATH PALANISAMY;PREM CHANDAR;SAPNA SINGH;TEANOOSH MOADDEL;TORAL PATEL~ 33:IN ~31:202021041615 ~32:25/09/2020

2023/01923 ~ Complete ~54:ANTI-IL-36R ANTIBODIES FOR TREATMENT OF CHRONIC INFLAMMATORY PAIN ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: ESSER, Dirk;GLOEDE, Tristan;THOMA, Christian~ 33:EP ~31:20199185.8 ~32:30/09/2020;33:EP ~31:21163078.5 ~32:17/03/2021

2023/01926 ~ Complete ~54:IMPROVED INDUSTRIAL PROCESS FOR EXTRACTION OF ALPHA YOHIMBINE FROM RAUWOLFIA SPECIES AND THE EXTRACT THEREOF ~71:KUMAR GOEL, Pawan, House No.30,

Sector - 6, Panchkula, Haryana, 134114, India ~72: BALI, Manoj;KUMAR CHOUHAN, Ashok;TIWARI, Dr Kiran~ 33:IN ~31:202111012485 ~32:23/03/2021

2023/01931 ~ Complete ~54:LIQUID HERBICIDAL COMPOSITIONS ~71:UPL Limited, UPL House, 610 B/2, Bandra Village, Off Western Express Highway, Bandra-East, MUMBAI 400051, MAHARASHTRA, INDIA, India ~72: ADRIEN, Mertes;PIROTTE, Alan~ 33:IN ~31:202021035379 ~32:17/08/2020

2023/01935 ~ Complete ~54:PREDICTIVE CONTROL OF YANKEE DRYER CHEMISTRY AND CREPED PRODUCT QUALITY ~71:BUCKMAN LABORATORIES INTERNATIONAL, INC., 1256 North McLean Boulevard, United States of America ~72: CARTER, John;CHARRON, Remi;CHRISTOPHER, Mark;GLOVER, Bryan;GLOVER, Daniel~ 33:US ~31:63/071,189 ~32:27/08/2020

2023/01894 ~ Complete ~54:A VR HEART RATE INTELLIGENT DETECTION DEVICE ~71:The First Affiliated Hospital of Xinxiang Medical College, No.88 Jiankang Road, Weihui City, Xinxiang City, Henan Province, 453100, People's Republic of China ~72: Chang Wang;Fei Lin;Ge Lei;Guoan Zhao;Jinghang Zhang;Junqiang Zhao;Nan'ai Li;Ningyu Li;Shiqin Wei;Yi Yu;Yuxi Wang;Zhanghong Zhao~ 33:CN ~31:202222538835.5 ~32:26/09/2022

2023/01892 ~ Complete ~54:AN IMAGE RECOGNITION METHOD BASED ON CNN FUZZY EVALUATION ~71:Shenyang University of Technology, No.111, West Shenliao Road, Shenyang Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110000, People's Republic of China ~72: Ling ZHONG;Tongtong GUAN;Xinyi HAN;Xinyue LIU;Yajie YU;Yanhong MENG~

2023/01903 ~ Complete ~54:A NEW TYPE OF ECOLOGICAL GRASSED WATERWAY ~71:Nanchang Institute of Technology, No. 289 Tianxiang Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, 330099, People's Republic of China ~72: Hongguang Liu;Jinwen Xia;Lei Lei;Lichao Zhang;Minghao Mo;Peilin Ge;Xuhua Huang;Yanxin Pan;Yi Ouyang;Yingchun Liao;Yuejun Song~

2023/01905 ~ Complete ~54:NON-WOVEN SHEET FROM NERIUM OLEANDER STEM FIBERS AND METHOD OF MANUFACTURING ~71:DR. ANUPAM KUMAR, QUARTER NO. P7, STAFF COLONY, GZSCCET, DABWALI ROAD,, BATHINDA, PUNJAB, 151001, India;DR. RAMRATAN, SARDAR PURA BASS WARD NO. 24, NEAR MASJID NOHAR,, DISTT: HANUMANGARH, RAJASTHAN, 335523, India;ROHIT KUMAR, 33 A, TAGORE GARDEN, NEAR NARAINGARH ROAD,, AMBALA, HARYANA, India ~72: DR. ANUPAM KUMAR;DR. RAMRATAN;ROHIT KUMAR~ 33:IN ~31:202211009120 ~32:21/02/2022

2023/01907 ~ Complete ~54:GAS PRESSURE SPRING WITH OVERPRESSURE PROTECTION, METHOD FOR MANUFACTURING THE GAS PRESSURE SPRING ~71:STABILUS GmbH, Wallersheimer Weg 100, Germany ~72: BEIB, Felix;PROBST, Ulrich;REISER, Alexander;UNKELBACH, Nico~ 33:DE ~31:10 2022 103 750.9 ~32:17/02/2022

2023/01910 ~ Complete ~54:FOLIAR FERTILIZER AND ITS APPLICATION METHOD FOR REDUCING CADMIUM ACCUMULATION IN RICE AND INCREASING YIELD ~71:Zhejiang Academy of Agricultural Sciences, No. 198, Shiqiao Road, Hangzhou, Zhejiang Province, 310000, People's Republic of China ~72: Ma Jinchuan;Ma Junwei;Pan Jianqing;Sun Wanchun;Tao Juanhua;Wang Qiang;Zou Ping~

2023/01911 ~ Complete ~54:INTRA-FRAME PREDICTION METHOD AND DEVICE, DECODER, AND ENCODER ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road, Wusha, Chang'an, People's Republic of China ~72: WANG, Fan~

2023/01912 ~ Complete ~54:AN OPTIMISED VETERINARY INJECTABLE FORMULATION ~71:BIMEDA AMEA LIMITED, Floor 1B, The Herbert Building, The Park, Ireland ~72: CHENG, Xiao Xun;MCHARDY, Nicholas;YANG, Li Yang~ 33:EP ~31:20196085.3 ~32:14/09/2020

2023/01920 ~ Complete ~54:COMPOUNDS, COMPOSITIONS AND METHODS FOR HISTONE LYSINE DEMETHYLASE INHIBITION ~71:FIBROGEN, INC., 409 Illinois Street, San Francisco, California, 94158, United States of America ~72: CHRISTIAN HAUGE KJAERGAARD;MICHAEL P AREND;XIAOTI ZHOU;ZUHUI ZHANG~ 33:US ~31:63/072,012 ~32:28/08/2020

2023/01924 ~ Complete ~54:AN INHALABLE FORMULATION OF FLUTICASONE PROPIONATE AND ALBUTEROL SULFATE ~71:NORTON (WATERFORD) LIMITED, Unit 301, IDA Industrial Park, Cork Road, Ireland ~72: BLAIR, Julian, Alexander;EDLIN, Chris, David;MCKEON, Shane, Michael;O'NEILL, Brian, Paul;SHAH, Hardik, Kirtikumar~ 33:GB ~31:2012742.9 ~32:14/08/2020

2023/01927 ~ Complete ~54:PHYTONADIONE COMPOSITIONS ~71:Cipla Limited, Cipla House, Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, India ~72: ALAGARSWAMY, Alagumurugan;GHANWARY, Rajdeep;RAJYAGURU, Tushar;SONAWANE, Sameer~ 33:IN ~31:202021034467 ~32:11/08/2020

2023/01930 ~ Complete ~54:HYBRID AMIDE DERIVATIVES OF AMPHOTERICIN B ~71:The Board of Trustees of the University of Illinois, 352 Henry Administration Building, 506 South Wright Street, URBANA 61801, IL, USA, United States of America ~72: BURKE, Martin D.;MAJI, Arun~ 33:US ~31:63/063,655 ~32:10/08/2020;33:US ~31:63/175,771 ~32:16/04/2021

2023/01932 ~ Complete ~54:BANK NOTE STORAGE CONTAINER AND BANK NOTE ORIENTATION METHOD ~71:MAGNETO IP HOLDINGS (PTY) LTD, GATE 5, CNR NORTH REEF ROAD AND KRAFT ROAD, ELANDSFONTEIN, South Africa ~72: ROBSON, Michael Donald~ 33:ZA ~31:2020/05098 ~32:18/08/2020;33:WO ~31:PCT/IB2021/057581 ~32:18/08/2021

2023/01875 ~ Provisional ~54:ALUPURE HOUSEHOLD REVERSE OSMOSIS WATER FILTRATION SYSTEM ~71:Eliah Aluwani Mkhafa, 341 Hans Kekana View, Temba, South Africa ~72: Eliah Aluwani Mkhafa~

2023/01885 ~ Complete ~54:BRIDGE SUPPORT ADJUSTING DEVICE FOR BRIDGE CONSTRUCTION ~71:Hunan City University, No. 518, Yingbin Road, Yiyang City, Hunan Province, People's Republic of China ~72: YANG Rihua~

2023/01886 ~ Complete ~54:BEARING ASSEMBLY DEVICE ~71:Anhui Polytechnic University, Beijing Zhong Lu, Wuhu City, Anhui Province, People's Republic of China;Ningbo University of Finance & Economics, No.899 Xueyuan Road, Haishu District, Ningbo City, Zhejiang Province, People's Republic of China;Zhejiang XCC Group Co., LTD, No.199 Titan Avenue, Qixing Street, Xinchang County, Shaoxing City, Zhejiang Province, People's Republic of China ~72: Wang Fengtao;Wang Huafeng;Yan Shuping;Yu Chunlan;Zhang Yubin;Zhu Huomei~

2023/01890 ~ Complete ~54:NATURAL PLANT GLYCOLYSIS SUBSTANCE FOR PREVENTING AND CONTROLLING PORCINE ENTERITIS AND PREPARATION METHOD AND APPLICATION THEREOF ~71:INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, People's Republic of China ~72: TIAN, Ming~

2023/01901 ~ Complete ~54:A COMPREHENSIVE DETECTION DEVICE FOR INTERIOR ECOLOGICAL ENVIRONMENT OF FOREST ~71:Institute of Highland Forest Science, Chinese Academy of Forestry, Bailongsi, Panlong Dist., Kunming, Yunnan, People's Republic of China ~72: Jiayan Shen;Ruiguang Shang;Shuaifeng Li;Wande Liu;Xiaobo Huang~

2023/01904 ~ Complete ~54:A DIGITAL PAYMENT SYSTEM FOR TRANSACTION OF MONEY THROUGH FACE RECOGNITION AND METHOD THEREOF ~71:Dr. Amit Sharma, Associate Professor, Department of Information Technology, IMS Engineering College,, Ghaziabad, Uttar Pradesh, 201015, India;Dr. Sandeep Kumar, Associate Professor, Department of Computer Science and Engineering, Maharaja Surajmal Institute of Technology, New Delhi, Delhi, 110058, India;Dr. Sonali Mathur, Professor, Department of Computer Science and Engineering, IMS Engineering College, Ghaziabad, Uttar Pradesh, 201015, India;Dr. Vikram Bali, Director, IMS Engineering College, Ghaziabad, Uttar Pradesh, 201015, India ~72: Dr. Amit Sharma;Dr. Sandeep Kumar;Dr. Sonali Mathur;Dr. Vikram Bali~ 33:IN ~31:202211065006 ~32:14/11/2022

2023/01906 ~ Complete ~54:A DEVICE FOR ADJUSTING AND ORIENTATING A SPRINKLER OUTLET ~71:UNIVERSITY OF SOUTH AFRICA, 1 Preller Street Muckleneuk Ridge, South Africa ~72: STOFFBERG, GERRIT HENDRIK~ 33:ZA ~31:2022/02132 ~32:18/02/2022

2023/01908 ~ Complete ~54:A HANDY OBSTACLES DETECTION SMART STICK ~71:CHOUHAN, Maahi, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;DR. VISHWANATH KARAD MIT -WORLD PEACE UNIVERSITY, DR. VISHWANATH KARAD MIT - WORLD PEACE UNIVERSITY, S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, India;GUPTA, Mansi, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;GUTTE, Vitthal, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;LADDHA, Aditi, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;LILHA, Aayushi, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India;MISHRA, Yashasvi, MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India ~72: CHOUHAN, Maahi;GUPTA, Mansi;GUTTE, Vitthal;LADDHA, Aditi;LILHA, Aayushi;MISHRA, Yashasvi~

2023/01913 ~ Complete ~54:TRIGGER DISPENSING DEVICE ~71:GUALA DISPENSING S.P.A., Zona industriale D/5 - Spinetta Marengo, Italy ~72: ALLUIGI, Riccardo~ 33:IT ~31:10202000028214 ~32:24/11/2020

2023/01922 ~ Complete ~54:FLAPPER VALVE FOR PERCUSSION DRILL TOOLS ~71:MINCON INTERNATIONAL LIMITED, Smithstown Industrial Estate, Co. Clare, Shannon, V14 N993, Ireland ~72: BEN SEXTON;MARKKU KESKINIVA~ 33:IE ~31:S2020/0186 ~32:19/08/2020

2023/01925 ~ Complete ~54:FURFURAL RESIDUE/USED COOKING OIL MODIFIED ASPHALT AND PREPARATION METHOD THEREFOR ~71:NORTHEAST FORESTRY UNIVERSITY, NO. 26 HEXING ROAD, People's Republic of China ~72: LAI, Shuorong;LI, Shujun;XU, Wenyuan;XU, Yongli;ZHANG, Xianquan~ 33:CN ~31:202111430998.5 ~32:29/11/2021

2023/01929 ~ Complete ~54:USE OF NEUROMELANIN-SENSITIVE MRI AS A BIOMARKER OF DOPAMINE FUNCTION ~71:The Research Foundation for Mental Hygiene, Inc., 150 Broadway, Suite 301, MENANDS 12204, NY, USA, United States of America;The Trustees of Columbia University in the City of New York, 412 Low Memorial Library, 535 West 116th Street, NEW YORK 10027, NY, USA, United States of America ~72: CASSIDY, Clifford Mills;HERNANDEZ, Guiellermo Horga;WENGLER, Kenneth~ 33:US ~31:63/066,744 ~32:17/08/2020

2023/01893 ~ Complete ~54:OIL-WATER SEPARATION MATERIAL, PREPARATION METHOD AND APPLICATION THEREOF ~71:Hainan Tropical Ocean University, Yucai Rd1#,Jiyang District, Sanya City, Hainan Province, People's Republic of China;Yazhou Bay Innovation Institute of Hainan Tropical Ocean University, Hainan Ruize Office Building 6th floor, Yazhou Bay Science and Technology City, Yazhou District, Sanya City, Hainan Province, People's Republic of China ~72: HOU Xun;SHI Yaqin;WAN Wubo;WANG Zhizhen;WU Chuntao;ZHONG Shengkui~

2023/01874 ~ Provisional ~54:COAL WATER FUEL GASIFICATION ~71:YOUNG, Gerrit, 17 SOETDORING AVENUE, PROTEA PARK, RUSTENBURG, 0299, South Africa ~72: YOUNG, Gerrit~

2023/01876 ~ Complete ~54:FREEZE-THAW DEVICE FOR GERM CELLS AND EMBRYOS AND ITS USE METHOD ~71:Zhejiang University, No. 866 Yuhangtang Road, Xihu District, Hangzhou, Zhejiang, People's Republic of China ~72: Feng Chun;Jin Fan;Jin Min;Qiu Feng;Rao Jinpeng;Tian Shen~

2023/01879 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF NANO-MODIFIED GRAPHENE-BASED THIN-FILM SENSOR ~71:Electric Power Research Institute of Jilin Electric Power Co., Ltd., Jilin, China., 4433 Renmin Street, Chaoyang District, Changchun City, Jilin Province, 130000, People's Republic of China;Jilin Electric Power Research Institute Co.,Ltd., 4433 Renmin Street, Chaoyang District, Changchun City, Jilin Province, 130000, People's Republic of China;Northeast Electric Power University, No.169, changchun road, Jilin City, Jilin Province, 132012, People's Republic of China ~72: CUI Tiancheng;DONG Hongda;GUO Jiachang;JIAO Lixin;LI Jiashuai;LI Shouxue;LIE Jianping;LIN Haidan;LIU Dan;LUAN Jingyao;TAI Yufeng;WANG Bolin;YANG Daiyong;YU Qunying;ZHANG Haifeng;ZHANG Zilong;ZHAO Tiancheng~ 33:CN ~31:2023100768299 ~32:29/01/2023

2023/01882 ~ Complete ~54:WATER-SAVING AND DROUGHT-RESISTANT DEVICE FOR AGRICULTURE ~71:Dryland Farming Institute, Hebei Academy of Agricultural and Forestry Science, 1966 Shengli East Road, Hengshui City, Hebei Province, People's Republic of China ~72: CHEN Zhaoyang;GUO Anqiang;LIU Binhui;WANG Bianyin;WANG Qian;ZHANG Wenying~

2023/01891 ~ Complete ~54:CLOTHES WASHING AND DRYING DEVICE AND METHOD WITH SELF-ADAPTIVE REGULATION FUNCTION ~71:Anhui Polytechnic University, Beijing Middle Road, Wuhu City, Anhui Province, People's Republic of China;Anhui Suli Technology Co., Ltd, No. 16, Yongzhen Road, Wuhu District, China (Anhui) Pilot Free Trade Zone, Jiujiang District, Wuhu City, Anhui Province, People's Republic of China ~72: LING Xue;PAN Wei;QIU Wenbo;SU Zhaowei;WAN Zihao;WANG Gangyu;WANG Peng;WEI Yuhui;XIE Yuanyuan;ZHANG Zhenlin;ZHENG Chen~

2023/01895 ~ Complete ~54:METHOD FOR RAPIDLY IDENTIFYING EARLY MATURITY OR EXTRA-EARLY MATURITY OF BRASSICA NAPUS ~71:Hunnan Cotton Science Institute, No. 3036 Shanjuan Road, Dingcheng District, Changde City, Hunan Province, People's Republic of China ~72: Bu Yong;Chen Tingzhou;Fu Lin;He Lu;Li Yufang;Xiao Caisheng;Yang Chunan~

- APPLIED ON 2023/02/17 -

2023/01962 ~ Complete ~54:AUTONOMOUS CONTRAST TYPE REHABILITATION EXERCISE DEVICE FOR ELDERLY NURSING ~71:Loudi Vocational and Technical College, No. 727, Yuetang Street, Loudi City, Hunan Province, 417000, People's Republic of China ~72: ZHU, Qing~

2023/01973 ~ Complete ~54:CELL LYSIS SYSTEMS AND METHODS ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:EP ~31:20168245.7 ~32:06/04/2020;33:US ~31:16/889,667 ~32:01/06/2020;33:US ~31:17/065,992 ~32:08/10/2020;33:US ~31:63/111,592 ~32:09/11/2020;33:US ~31:17/122,025 ~32:15/12/2020

2023/01980 ~ Complete ~54:METHOD AND APPARATUS FOR VERIFYING RESTORATION EFFECT OF WATER BODY RESTORATION SCHEME AND ELECTRONIC DEVICE ~71:CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES, No. 8 Dayangfang, Anwai Beiyuan, Chaoyang District, Beijing, 100012,

People's Republic of China ~72: BAI, Lu;DONG, Liwei;XU, Chunlian;ZHANG, Wei;ZHANG, Yue~ 33:CN
~31:2022111918488 ~32:28/09/2022

2023/01988 ~ Complete ~54:UNIVERSAL PROPELLER, OPERATING METHOD AND FAVOURED USES
~71:CHENNUPATI, Siva Raghuram Prasad, BuchenstraBe 49 b, Germany ~72: CHENNUPATI, Siva Raghuram
Prasad~

2023/01982 ~ Complete ~54:DICEROCARYUM ERIOCARPUM PLANT EXTRACT-METAL NANOPARTICLES
FOR WATER PURIFICATION AND DISINFECTION ~71:UNIVERSITY OF VENDA, University Road, South Africa
~72: ADEEYO, Adeyemi Ojutalayo;ENITAN-FOLAMI, Abimbola Motunrayo;MAKUNGO, Rachel;ODIYO, John
Ogony~ 33:ZA ~31:2022/02330 ~32:24/02/2022

2023/01983 ~ Complete ~54:COPPER COMPLEXES FOR TREATMENT OF NEURODEGENERATIVE
DISORDERS ~71:ALS THERAPY DEVELOPMENT INSTITUTE, 300 Technology Square, Suite 400, United
States of America ~72: DEMIN, Peter;DENTON, Kyle;LUKASHEV, Matvey;PUSHECHNIKOV, Alexei~ 33:US
~31:63/070,792 ~32:26/08/2020

2023/01984 ~ Complete ~54:NITRILE DERIVATIVE THAT ACTS AS INHIBITOR OF DIPEPTIDYL PEPTIDASE 1
AND USE THEREOF ~71:HAISCO PHARMACEUTICALS PTE. LTD., 10 Anson Road, #13-09 International
Plaza, Singapore ~72: CHEN, Lei;LI, Yao;LIU, Xin;NI, Jia;SHI, Zongjun;TANG, Pingming;WANG, Wenjing;WANG,
Yajun;XU, Bo;YAN, Pangke;YE, Fei;ZHANG, Chen;ZHANG, Guobiao;ZHANG, Xiaobo;ZHENG, Dengyu~ 33:CN
~31:202010871912.1 ~32:26/08/2020;33:CN ~31:202011129809.6 ~32:21/10/2020;33:CN
~31:202110167731.5 ~32:07/02/2021

2023/01992 ~ Complete ~54:SULFUR-CONTAINING ISOINDOLINE DERIVATIVE, AND PREPARATION
METHOD THEREFOR AND MEDICAL USE THEREOF ~71:JIANGSU HENGRUI PHARMACEUTICALS CO.,
LTD., No.7 Kunlunshan Road, Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047,
People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing Road
Minhang District, Shanghai, 200245, People's Republic of China ~72: FANGLONG YANG;FENG HE;GANG
CHEN;LIMIN ZHANG;MINQIANG JIA;PEIHUA GUO;WEIKANG TAO~ 33:CN ~31:202010696995.5
~32:20/07/2020;33:CN ~31:202010783483.2 ~32:06/08/2020;33:CN ~31:202011223930.5
~32:05/11/2020;33:CN ~31:202110410441.9 ~32:16/04/2021

2023/01995 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING EGFR POSITIVE CANCERS
~71:A2 Biotherapeutics, Inc., 30301 Agoura Road, Suite 210, AGOURA HILLS 91301, CA, USA, United States of
America ~72: KAMB, Carl Alexander;OH, Julyun;XU, Han~ 33:US ~31:63/068,249 ~32:20/08/2020;33:US
~31:63/105,639 ~32:26/10/2020;33:US ~31:63/230,632 ~32:06/08/2021

2023/01997 ~ Complete ~54:SYSTEMS AND METHODS FOR THE APPLICATION AND SEALING OF END
CLOSURES ON CONTAINERS ~71:Sonoco Development, Inc., 540 North Second Street, HARTSVILLE 29550,
SC, USA, United States of America ~72: GROSS, Danny;HATJE, Dirk~ 33:US ~31:63/071,069 ~32:27/08/2020

2023/01999 ~ Complete ~54:CONTAINER ASSEMBLIES WITH PAPER-BASED END CLOSURES ~71:Sonoco
Development, Inc., 540 North Second Street, HARTSVILLE 29550, SC, USA, United States of America ~72:
HATJE, Dirk;SINS, Veronique~ 33:US ~31:63/071,019 ~32:27/08/2020

2023/01941 ~ Provisional ~54:HOTEL AND HOSPITALITY INDUSTRY RFID WRIST BANDS AND APP
~71:Grant McCrudden, 7 Van Wyk Louw Street, South Africa ~72: Grant McCrudden~

2023/01943 ~ Complete ~54:OPEN-CELL POLYVINYL FORMAL FOAM MATERIAL AND PREPARATION
METHOD THEREOF ~71:Guang'an Vocational And Technical College, No. 98, Binjiang East Road,

Guang'an District, Guang'an City, Sichuan Province, 638000, People's Republic of China; Sichuan Polyseed Polymer Materials Co., Ltd., Building C3, Industrial New Town, Huaying City, Sichuan Province, 638604, People's Republic of China ~72: DUAN, Wenjiang; LI, Yuanpeng; LI, Zhukai; REN, Yinguang; TANG, Liping; WU, Xun~

2023/01944 ~ Complete ~54: MULTIFUNCTIONAL INTERNET OF THINGS SOCKET ~71: Jiaxing Vocational and Technical College, No. 547, Tongxiang Avenue, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: CHEN, Shuangxi; DAI, Shaoqing; GU, Guangbing; WANG, Saibo; WU, Rongsen; YAO, Anyan; ZHANG, Huihui~

2023/01948 ~ Complete ~54: AN APPARATUS AND METHOD FOR THE PREPARATION OF ALLOY NANOPARTICLES WITH TUNABLE PARAMETERS ~71: Fushun Dongyu Magnetic Material Co., Ditai Village, Hebei Town, Shuncheng District, Fushun City, Liaoning Province, 113001, People's Republic of China; Shenyang University of Technology, No. 111, Shen Liaowest Road, Shenyang Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: Danna ZHAO; Guimei SHI; Hongwei ZHANG; Lifu BAO; Xianyi XIU; Zhijie LI~

2023/01952 ~ Complete ~54: AN EARLY WARNING DEVICE FOR DIGGING GROOVE OF MILLING MACHINE ~71: China Railway Third Bureau Group Co., Ltd., No. 6, Jianming North Road, Chang'an District, Shijiazhuang, Hebei, People's Republic of China; China Railway Third Group No.2 Engineering Co., Ltd., No. 6, Jianming North Road, Chang'an District, Shijiazhuang, Hebei, People's Republic of China ~72: Chen Yubo; Ding Hangying; Dong Jun; Feng Jinxing; Li Feng; Li Xuelei; Liu Chenghong; Ma Liang; Ma Linlin; Zhang Chao; Zhang Ningjun~

2023/01954 ~ Complete ~54: ELECTRODE COMPOSITE MATERIAL OF FLEXIBLE SUPERCAPACITOR, AND PREPARATION METHOD THEREFOR ~71: GUILIN UNIVERSITY OF TECHNOLOGY, No. 12, Jiangan Road, Qixing District, Guilin City, Guangxi Zhuang Autonomous Region, 541004, People's Republic of China ~72: CAI, Gaotuo; CHEN, Dinghan; LI, Ming; TANG, Tao~

2023/01960 ~ Complete ~54: METHOD FOR MEASURING AND CALCULATING THE FRACTAL DIMENSION OF ROCK CONCRETE MATERIALS BASED ON ACOUSTIC EMISSION TIME SERIES ~71: China Railway Construction Group Co., LTD., No.20, Shijingshan Road, Shijingshan District, Beijing, People's Republic of China; Tianjin Chengjian University, No. 26, Jinjing Road, Xiqing District, Tianjin, People's Republic of China ~72: JIAO Fengyu; LI Bingbing; LIU Jinghong; LIU Yaoru; LIU Zehao; WANG Taining; WANG Wenjie; ZHANG Lingbo; ZHANG Yuxue~

2023/01967 ~ Complete ~54: MELTING POT EQUIPMENT FOR CHEESE POWDER PROCESSING ~71: Shandong Shengdafeier Food Co., Ltd., No. 7827 East Mizhou Road, Zhucheng City, Weifang City, Shandong Province, 261000, People's Republic of China ~72: Fupeng XUE; Juanjuan SUN; Lulu CAO; Weifeng CHEN; Weifeng CHEN; Zhaoxiang HAO~

2023/01977 ~ Complete ~54: AN AGRICULTURAL FERTILIZER EQUIPMENT BASED ON THE INTERNET OF THINGS ~71: GUANGXI NORMAL UNIVERSITY FOR NATIONALITIES, No.23, Fozhi Road, Jiangzhou District, Chongzuo City, Guangxi Zhuang Autonomous Region, 532200, People's Republic of China ~72: Baohai Yang; Donghong Fan; Jiarong Kang; Quanhui Ren; Ruili Li; Yaxun Shi~ 33:CN ~31:202211680206.4 ~32:27/12/2022

2023/01985 ~ Complete ~54: PREPARATION OF NIOBIUM NANOPARTICLES, USE AND METHOD FOR OBTAINING SAME ~71: FRAS-LE S.A., RS 122, Km 66, n°186; 10945, Bairro Forqueta 95115-550, Brazil ~72: BOARETTO, Joel; CARDOSO TEIXEIRA DE ALBUQUERQUE FERREIRA, Cesar Augusto; DUDLEY CRUZ, Robinson Carlos~ 33:BR ~31:BR 10 2020 016774 0 ~32:17/08/2020

2023/01993 ~ Complete ~54:APPARATUS AND PROCESS FOR ROASTING AND DISCHARGING COFFEE BEANS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: SAVIOZ, Grégory~ 33:EP ~31:20187611.7 ~32:24/07/2020

2023/02000 ~ Complete ~54:PROCESS AND SYSTEM TO UTILIZE WASTE POLYESTER IN A CONTINUOUS POLYESTER POLYMERIZATION PROCESS ~71:Auriga Polymers Inc., Suite 450, 4235 South Stream Blvd., CHARLOTTE 28217, NC, USA, United States of America ~72: AWASTHI, Yashwant;KOWALSKE, Michael;KUSHWAHA, Durgesh Chand;OSORNIO, Miguel Angel~ 33:US ~31:63/068,200 ~32:20/08/2020

2023/01964 ~ Complete ~54:WEARABLE BLOOD PRESSURE DETECTION BRACELET ~71:Henan Provincial Hospital of Traditional Chinese Medicine (the Second Affiliated Hospital of Henan University of Traditional Chinese Medicine), No. 6, Dongfeng Road, Jinshui District, Zhengzhou, People's Republic of China ~72: Lu Yan;Wang Songhui;Xue Shuina~

2023/01978 ~ Complete ~54:A 3D-PRINTED ORTHOPEDIC SUPPORT DEVICE FOR CHILDREN'S LOWER EXTREMITY TORSION DEFORMITY ~71:Inner Mongolia Medical University, Jinshan Development Zone, Hohhot City, Inner Mongolia Autonomous Region, 010110, People's Republic of China ~72: Daihe Li;Hongdan Fu~

2023/01940 ~ Provisional ~54:BAG VALVE INDICATOR ~71:Paratrak, 325 Waterfall Hills Estate, South Africa ~72: Richard Roy Wood, Roy Canstant Wood~

2023/01946 ~ Complete ~54:INTELLIGENT AGRICULTURAL BAIT AUTOMATIC FEEDING ROBOT ~71:Guangdong AIB Polytechnic College, No. 198, Yueken Road, Tianhe District, Guangzhou, Guangdong Province, People's Republic of China ~72: CHEN Weihao;LIU Yating;QIU Jiabao;YANG Zhi;ZOU Xinyao~

2023/01951 ~ Complete ~54:PHOTOCATALYSIS-BASED DRINKING WATER DISINFECTION DEVICE AND DISINFECTION PROCESS ~71:Haishu District Water Conservancy Bureau, No. 1 Youngor Avenue, Shiqi Street, Haishu District, Ningbo City, Zhejiang Province, People's Republic of China;Ningbo University of Finance & Economics, No.899 Xueyuan Road, Haishu District, Ningbo City, Zhejiang Province, People's Republic of China;Ningbo Water Facilities Operation Management Center, No.64 Maiyu Road, Ningbo City, Zhejiang Province, People's Republic of China ~72: Feng Yimian;Liu Tian;Wang Xupeng;Zhang Yubin;Zhu Huomei;Zhu Xinguo~

2023/01956 ~ Complete ~54:PHOTOCATALYTIC COMPOSITE FILM, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:GUILIN UNIVERSITY OF TECHNOLOGY, No. 12, Jiangan Road, Qixing District, Guilin City, Guangxi Zhuang Autonomous Region, 541004, People's Republic of China ~72: JIANG, Aihua;TAO, Simin;WANG, Yingru;XIAO, Jianrong~

2023/01959 ~ Complete ~54:TYPE III PULLULAN HYDROLASE MUTANT FOR PREPARING CORN RESISTANT STARCH, PREPARATION METHOD AND APPLICATION THEREOF ~71:Institute of Microbiology, Jiangxi Academy of Sciences (Jiangxi Institute of Watershed Ecology), No.7777 Changdong Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, People's Republic of China ~72: GUO Jianjun;WANG Tong;YUAN Lin;ZENG Jing~ 33:CN ~31:202310056259.7 ~32:17/01/2023

2023/01966 ~ Complete ~54:A CHEESE STRETCH-FORMING DEVICE OF CHEESE FORMING MACHINE ~71:Shandong Shengdafeier Biotechnology Development Co., Ltd., No.99 Tanxue Road, Xuecheng District, Zaozhuang City, Shandong Province, 277000, People's Republic of China ~72: Fupeng XUE;Juanjuan SUN;Lulu CAO;Weifeng CHEN;Weifeng CHEN;Zhaoxiang HAO~

2023/01971 ~ Complete ~54:A SOIL AND WATER CONSERVATION SAND SETTLING TANK FOR SMALL WATERSHED TREATMENT ~71:Nanchang Institute of Technology, No. 289 Tianxiang Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, 330099, People's Republic of China ~72: Fangfang Shen;Hongguang Liu;Hongmei Zhang;Jinwen Xia;Kongzhong Xiao;Lichao Zhang;Minghao Mo;Peilin Ge;Song Guo;Yanyan Li;Yi Ouyang;Yingchun Liao;Yuejun Song~

2023/01987 ~ Complete ~54:DEVICE FOR COOLING A BEVERAGE COMPRISING A PRIMARY AND A SECONDARY COOLING CIRCUIT ~71:HEINEKEN SUPPLY CHAIN B.V., Tweede Wateringplantsoen 21, Netherlands ~72: VAN GEIJLSWIJK, Petrus Johannes~ 33:EP ~31:20194442.8 ~32:03/09/2020

2023/01990 ~ Complete ~54:6-SUBSTITUTED PYRIDAZINE COMPOUNDS AS SMARCA2 AND/OR SMARCA4 DEGRADERS ~71:AURIGENE ONCOLOGY LIMITED, 39-40, KIADB Industrial Area, Electronic City Phase II, Hosur Road, India ~72: ABBINENI, Chandrasekhar;KUILA, Bilash;MUKHERJEE, Subhendu;SAMAJDAR, Susanta;TATYASAHEB GORE, Suraj~ 33:IN ~31:202041033326 ~32:04/08/2020

2023/02001 ~ Complete ~54:SHEAR RESISTANT GEOMEMBRANE USING MECHANICAL ENGAGEMENT ~71:WATERSHED HOLDINGS, LLC, 11400 Atlantis Place, Suite 200, United States of America ~72: LEWIS, William Delaney;URRUTIA, Jose L.;YUAN, Zehong~ 33:US ~31:63/066,155 ~32:14/08/2020

2023/02002 ~ Provisional ~54:CANOPY WINDOW GAP WASHER SPONGES AND ALTERNATIVE HANDLE ~71:Robert Moore Bruwer, 35A Gerald Dreyer street, Olympia, South Africa ~72: Robert Moore Bruwer~

2023/01945 ~ Complete ~54:A FIRE EXTINGUISHING DEVICE OF COOLING FIRE WATER AND ITS USE METHOD, A BATTERY FIRE EXTINGUISHING METHOD ~71:China University of Petroleum, East China, No. 66 Changjiang West Road, Huangdao District, Qingdao City, Shandong Province, 266580, People's Republic of China ~72: Depeng KONG;Ping PING;Xinyi DAI~ 33:CN ~31:2022104580161 ~32:27/04/2022

2023/01947 ~ Complete ~54:PROCESSING METHOD FOR SPICED FREEZE-DRIED SLICES OF CHINESE CHESTNUT ~71:HEBEI NORMAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.360 WEST SECTION OF HEBEI STREET, HAIGANG DISTRICT, QINHUANGDAO, People's Republic of China ~72: CHANG, Xuedong;GUO, Xueying;WU, Jiaxiu;ZHAO, Yuhua~

2023/01953 ~ Complete ~54:APPARATUS AND METHOD FOR DETECTING SHAPE PARAMETER OF ULTRAMICRO GLUE DROPLET BASED ON MACHINE VISION ~71:Shenyang University of Technology, No. 111, Shenliao West Road, Economic and Technological Development Zone, Tiexi District, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: CHANG, Yunlong;GAO, Yifei;JIANG, Shenhui;LIU, Huifang;LIU, Xiaojiang;WANG, Wenguo~

2023/01958 ~ Complete ~54:THREE-COMPONENT VISIBLE-LIGHT PHOTOCATALYTIC NANOCOMPOSITE AND PREPARATION METHOD THEREOF ~71:GUILIN UNIVERSITY OF TECHNOLOGY, No. 12, Jiangan Road, Qixing District, Guilin City, Guangxi Zhuang Autonomous Region, 541004, People's Republic of China ~72: CHEN, Dinghan;LI, Ming;TANG, Tao;XU, Ruizheng~

2023/01969 ~ Complete ~54:INSTANT CHESTNUT FREEZE-DRIED SLICE OF MILK FLAVOR AND PROCESSING METHOD THEREOF ~71:HEBEI NORMAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.360 WEST SECTION OF HEBEI STREET, HAIGANG DISTRICT, QINHUANGDAO CITY,, People's Republic of China ~72: CHANG, Xuedong;GUO, Xueying;LIU, Xu;ZHAO, Yuhua~

2023/01972 ~ Complete ~54:A SOIL SAMPLE SAMPLER FOR RIVER, LAKE AND RESERVOIR WATERFRONT ZONE ~71:Nanchang Institute of Technology, No. 289 Tianxiang Avenue, High-tech Development Zone,

Nanchang City, Jiangxi Province, 330099, People's Republic of China ~72: Haina Zhang;Hong Cheng;Ji Feng;Jinwen Xia;Lichao Zhang;Liyang Xiao;Mei Li;Peilin Ge;Xianghui Lu;Yucheng Ye;Yuyin Guo;Zhiping Deng~

2023/01974 ~ Complete ~54:A PREPARATION METHOD OF CIGAR-FLAVORED CHEWING TOBACCO ~71:China Tobacco Henan Industrial Co., Ltd., No.16, Yulin South Road, Zhengdong New District, Zhengzhou City, Henan Province, 450016, People's Republic of China ~72: Feng Bai;Guangting Yin;Hongtao Shen;Weidong Duan;Xiaohui Miao;Xinling Yang;Zhuangzhuang Wei~ 33:CN ~31:202310019399.7 ~32:06/01/2023

2023/01965 ~ Complete ~54:A QUANTITATIVE METHOD OF BEARING CAPACITY OF LIMESTONE ROOF OF CONCEALED KARST CAVE ~71:Hainan University, No.58 Renmin Avenue, Meilan District, Haikou City, Hainan Province, 570228, People's Republic of China;Shijiazhuang Tiedao University, No. 17, North 2nd Ring East Road, Shijiazhuang City, Hebei Province, 050041, People's Republic of China ~72: Bingyang LIU;Bo CHEN;Haijia WEN;He QIU;Huchen DUAN;Jing XIE;Jingjing FU;Lu JIANG;Peng XIE;Runkun LIANG;Shaokun MA;Shaolong JIE;Yuanta Wang;Yuxuan YANG;Zhaoting LI;Zurun YUE~

2023/01949 ~ Complete ~54:DIFFERENTIAL PROTEIN COMBINATION FOR ACUTE STROKE AND APPLICATION AND ANALYSIS METHOD THEREOF ~71:Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences, No. 16, Nanxiaojie, within Dongzhimen, Dongcheng District, Beijing, People's Republic of China ~72: GAO Ya;SONG Yanan;WANG Yun;ZHANG Cun~

2023/01950 ~ Complete ~54:MOBILE MICRO NANO BUBBLES GENERATOR ~71:Ningbo Irrigation Agricultural Technology Co., Ltd, No. 777, Zhongguan West Road,, Zhenhai District, Ningbo City, Zhejiang Province, People's Republic of China;Ningbo University of Finance & Economics, No.899 Xueyuan Road, Haishu District, Ningbo City, Zhejiang Province, People's Republic of China;Ningbo Water Facilities Operation Management Center, No.64 Maiyu Road, Ningbo City, Zhejiang Province, People's Republic of China ~72: Feng Yimian;Liu Tian;Shen Jiani;Xu Jing;Zhang Yubin;Zhu Xinguo~

2023/01975 ~ Complete ~54:MGO ADSORBENT FOR ENVIRONMENTAL POLLUTION EMERGENCY AND PREPARATION METHOD AND APPLICATION THEREOF ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LONGXIANG AVENUE, XINCHENG DISTRICT, PINGDINGSHAN CITY, People's Republic of China ~72: CHANG, Linlin;GUO, Cuicui;HUANG, Zhenzhen;LI, Jiakuan;LI, Jiebing;LI, Wenjing;LI, Xiaoyue;LIU, Xueping;REN, Shiyang;SONG, Zhongxian;SUN, Jiawei;WANG, Chaohai;WANG, Jingyu;WANG, Tuo;WANG, Yunlong;YIN, Shiqiang;ZHANG, Jinhui;ZHANG, Yan;ZHAO, Yanyang;ZHU, Xinfeng~

2023/01981 ~ Complete ~54:PH-SENSITIVE POLYELECTROLYTE COMPLEX COMPOSITION FOR SUSTAINED DELIVERY OF ACID-SUSCEPTIBLE DRUGS AND ITS PREPARATION METHOD THEREOF ~71:Dr. Amit Kishor Srivastava, Gautam Buddha College of Pharmacy, Gaury Road, Lucknow, Uttar Pradesh, 226002, India;Dr. Bhushan Rajendra Rane, Head, Dept of Pharmaceutics, Shri D D Vispute College of Pharmacy and Research Center, Panvel, Maharashtra, 410206, India;Dr. Deepak Sharma, Department of Pharmaceutical Technology, SOMS, Adamas University, Barasat-Barakpore Road, North 24 Parganas, Kolkata, West Bengal, 700126, India;Dr. Dheeraj Chitara, Department. of Science, Biyani Girls College, Vidhyadhar Nagar, Jaipur, Rajasthan, 302039, India;Dr. Farhad F Mehta, School of Pharmaceutical Sciences, UTD, Rajiv Gandhi Prodyogiki Vishvidyalya, University of Technology of Madhya Pradesh, Bhopal, Madhya Pradesh, 462033, India;Dr. Manish Jaimini, Department of Pharmacy, Maharishi Arvind University, Jaipur, Rajasthan, 302041, India;Dr. Nayan Ashok Gujarathi, Shri Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule, Maharashtra, 424001, India;Dr. Prashant Kumar, Department of Bioinformatics, Kalinga University, Raipur, Chhattisgarh, 492101, India;Dr. Raj Kumar Keservani, Faculty of B. Pharmacy, CSM Group of Institutions, Prayagraj, Uttar Pradesh, 212111, India;Dr. Rajeshwar Kamalkant Arya, Department Of Pharmaceutical Sciences, Sir JC Bose Technical Campus, Bhimtal, Kumaun University, Nainital, Uttarakhand, 263136, India;Sheetal Baban Gosavi, Loknete Dr. Balasaheb Vikhe Patil (Padma Bhushan Awardee) Pravara Rural Education Society's College of Pharmacy (For Women),

Chincholi, Sinnar, Nashik, Maharashtra, 422103, India; Sweta Rai, School of Pharmaceutical Sciences, Chhatrapati Shahu Ji Maharaj University, Kanpur, Uttar Pradesh, 208024, India ~72: Dr. Amit Kishor Srivastava; Dr. Bhushan Rajendra Rane; Dr. Deepak Sharma; Dr. Dheeraj Chitara; Dr. Farhad F Mehta; Dr. Manish Jaimini; Dr. Nayan Ashok Gujarathi; Dr. Prashant Kumar; Dr. Raj Kumar Keservani; Dr. Rajeshwar Kamalkant Arya; Sheetal Baban Gosavi; Sweta Rai~

2023/01989 ~ Complete ~54: METHOD AND SYSTEM OF SIMULATIONS FOR PERSONALIZED BRAIN TREATMENTS ~71: YOUSEFIROSHAN, Hamed, Janbazan 11, Iran (Islamic Republic of) ~72: YOUSEFIROSHAN, Hamed~

2023/01991 ~ Complete ~54: SYSTEM AND METHOD FOR TRANSFERRING THERMAL ENERGY FROM INTEGRATED CIRCUITS ~71: JDI DESIGN INC., 119 West Pender Street, Canada ~72: RADOSEVIC, Nikolas (Deceased); VAN WIJK, Adrian~ 33: US ~31: 63/075,037 ~32: 04/09/2020

2023/01942 ~ Provisional ~54: TOILET ~71: JOHANNES JACOBUS PETRUS VAN WYK, Windsor Place 8, Nicholson Avenue, South Africa ~72: JOHANNES JACOBUS PETRUS VAN WYK~

2023/01955 ~ Complete ~54: MICRO-NANO STRUCTURE LAYER AND METHOD FOR IMPROVING BONDING FORCE BETWEEN FLUORINATED DIAMOND-LIKE CARBON FILM AND STEEL SUBSTRATE ~71: GUILIN UNIVERSITY OF TECHNOLOGY, No. 12, Jiangan Road, Qixing District, Guilin City, Guangxi Zhuang Autonomous Region, 541004, People's Republic of China ~72: JIANG, Aihua; LIU, Jiajun; RU, Lu; XIAO, Jianrong~

2023/01957 ~ Complete ~54: POROUS CU-SIC COMPOSITE FILM AND PREPARATION METHOD THEREFOR ~71: GUILIN UNIVERSITY OF TECHNOLOGY, No. 12, Jiangan Road, Qixing District, Guilin City, Guangxi Zhuang Autonomous Region, 541004, People's Republic of China ~72: JIANG, Aihua; XIAO, Jianrong; ZHANG, Jianhui~

2023/01961 ~ Complete ~54: SUPPORT DEVICE AND CONSTRUCTION METHOD FOR CAST-IN-PLACE PILES IN KARST CAVE AREAS ~71: China Railway Third Bureau Group Co., Ltd., No. 6, Jianming North Road, Chang'an District, Shijiazhuang, Hebei, People's Republic of China; China Railway Third Group No.2 Engineering Co., Ltd., No. 6, Jianming North Road, Chang'an District, Shijiazhuang, Hebei, People's Republic of China ~72: Chang Huijun; Chen Yubo; Liu Chenghong; Ma Junsheng; Ma Liang; Wang Lei; Wang Yingmei; Xue Haiwei; Zhang Yuanzheng; Zhao Haibo~

2023/01968 ~ Complete ~54: AN ORAL DRUG FEEDER FOR CANCER PATIENTS ~71: Henan Provincial Hospital of Traditional Chinese Medicine (the Second Affiliated Hospital of Henan University of Traditional Chinese Medicine), No. 6, Dongfeng Road, Jinshui District, Zhengzhou, People's Republic of China ~72: Huang Mingqi; Wang Yuping~

2023/01970 ~ Complete ~54: A NEW TYPE OF ECOLOGICAL BRICK ~71: Nanchang Institute of Technology, No. 289 Tianxiang Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, 330099, People's Republic of China ~72: Feifei He; Hong Cheng; Jinwen Xia; Lichao Zhang; Minghao Mo; Peilin Ge; Qianya Yang; Shuanglong Li; Xiao Xiao; Xuhua Huang; Yuejun Song~

2023/01986 ~ Complete ~54: DEVICE FOR COOLING A BEVERAGE COMPRISING A BUFFER MODULE ~71: HEINEKEN SUPPLY CHAIN B.V., Tweede Weteringplantsoen 21, Netherlands ~72: VAN GEIJLSWIJK, Petrus Johannes~ 33: EP ~31: 20194439.4 ~32: 03/09/2020

2023/01996 ~ Complete ~54: PESTICIDALLY ACTIVE HETEROCYCLIC DERIVATIVES WITH SULFUR CONTAINING SUBSTITUENTS ~71: Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BUCHHOLZ, Anke; EMERY, Daniel; JEANGUENAT, Andr#233;; KURTZ,

Benedikt;MUEHLEBACH, Michel;SASMAL, Swarnendu;SIKERVAR, Vikas;STOLLER, André- 33:IN
 ~31:202011037485 ~32:31/08/2020

2023/01939 ~ Provisional ~54:CANOPY WINDOW GAP WASHER SPONGES AND ALTERNATIVE HANDLE
 ~71:ROBERT MOORE BRUWER, 35A GERALD DREYER STREET, OLYMPIA, NAMIBIA, South Africa ~72:
 ROBERT MOORE BRUWER~

2023/01976 ~ Complete ~54:NOVEL FAULT DIAGNOSTIC APPARATUS FOR NONLINEAR ANALOG CIRCUIT
 ~71:GUANGXI NORMAL UNIVERSITY FOR NATIONALITIES, NO.23, FOZI ROAD, JIANGZHOU DISTRICT,
 CHONGZUO CITY, People's Republic of China ~72: KANG, Jiarong;LI, Ruili;YANG, Baohai~

2023/01979 ~ Complete ~54:IMAGE RECOGNITION DEVICE BASED ON DIGITAL TWIN TECHNOLOGY
 ~71:Zhengzhou University of Aeronautics, No.2, University Middle Road, Erqi District, Zhengzhou City, Henan
 Province, 450015, People's Republic of China ~72: DONG, Sheng;LIAO, Xin;WANG, Lele~ 33:CN
 ~31:202210977125.4 ~32:15/08/2022

2023/01963 ~ Complete ~54:LOW POLYLACTIC ACID, PREPARATION METHOD AND APPLICATION
 THEREOF ~71:Institute of Microbiology, Jiangxi Academy of Sciences (Jiangxi Institute of Watershed Ecology),
 No.7777 Changdong Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, People's Republic
 of China ~72: GUO Jianjun;WANG Tong;YUAN Lin;ZENG Jing~ 33:CN ~31:202211569315.9 ~32:08/12/2022

2023/01994 ~ Complete ~54:BICYCLOHEPTANE PYRROLIDINE OREXIN RECEPTOR AGONISTS ~71:Merck
 Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America ~72:
 BOGEN, Stephane L.;CLAUSEN, Dane James;GUIADEEN, Deodial Guy;HAO, Jinsong;LIN, Shishi;RUDD,
 Michael T.;WEI, Lan;XIAO, Li;YANG, Dexi~ 33:US ~31:63/066,908 ~32:18/08/2020;33:US ~31:63/226,798
 ~32:29/07/2021

2023/01998 ~ Complete ~54:SYSTEMS AND METHODS FOR THE APPLICATION AND SEALING OF END
 CLOSURES ON CONTAINERS ~71:Sonoco Development, Inc., 540 North Second Street, HARTSVILLE 29550,
 SC, USA, United States of America ~72: GRÄF, Daniel Christoph;HATJE, Dirk~ 33:US ~31:63/071,076
 ~32:27/08/2020

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

Application Number	Assignor	Assignee
2022/03424	NORTH CHINA UNIVERSITY OF TECHNOLOGY	WEIFANG GUOKE ECONOMIC AND TRADE CO., LTD
2013/00435	ANPAC BIO-MEDICAL SCIENCE CO., LTD	CHANGWEI SYSTEM TECHNOLOGY (SHANGHAI) CO., LTD.
2020/06927	FUSION HOLDINGS LTD	GAMES GLOBAL WORKS LIMITED
2020/06927	GAMES GLOBAL WORKS LIMITED	GAMES GLOBAL OPERATIONS LIMITED
2021/02696	JIANGSU HENGRUI MEDICINE CO., LTD. and SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD.	JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD. and SHANGHAI HANSOH BIOMEDICAL CO., LTD. and CHANGZHOU HANSOH PHARMACEUTICAL CO., LTD.
2017/04987	EVONIK FIBRES GMBH	EVONIK OPERATIONS GMBH
2021/02819	EVONIK FIBRES GMBH	EVONIK OPERATIONS GMBH
2022/11161	CELLULAR BIOMEDICINE GROUP HK LIMITED	CELLULAR BIOMEDICINE GROUP, INC.

Application Number	Assignor	Assignee
2016/00371	EVONIK FIBRES GMBH	EVONIK OPERATIONS GMBH
2018/01496	INVENTPRISE, LLC	INVENTPRISE, INC.
2018/00928	INVENTPRISE, LLC	INVENTPRISE, INC.
2022/03650	COLLEGE OF ANIMAL SCIENCES ZHEJIANUNIVERSITY	ZHEJIANG ACADEMY OF AGRICULTURAL SCIENCES
2019/08528	INVENTPRISE, LLC	INVENTPRISE, INC.
2021/00071	PROCLARA BIOSCIENCES, INC.	AMYL THERAPEUTICS SRL
2017/06867	INVENTPRISE, LLC	INVENTPRISE, INC.
2020/00167	INVENTPRISE, LLC	INVENTPRISE, INC.
2022/09187	INVENTPRISE, LLC	INVENTPRISE, INC.
2020/05673	PGEN THERAPEUTICS, INC.	PRECIGEN, INC.
020/05672	PGEN THERAPEUTICS, INC.	PRECIGEN, INC.
2013/00836	EVONIK FIBRES GMBH	EVONIK OPERATIONS GMBH
2015/00035	STICHTING I-F PRODUCT COLLABORATION	FMC AGRICULTURAL PRODUCTS INTERNATIONAL AG
2013/05238	STICHTING I-F PRODUCT COLLABORATION	FMC AGRICULTURAL PRODUCTS INTERNATIONAL AG
2021/05807	TRI INNOVATIONS LLC	BENYAMIN ABEHASERA
2021/05804	TRI INNOVATIONS LLC	BENYAMIN ABEHASERA
201905965	ATHENEX, INC.	ATNX SPV, LLC
2021/00106	ATHENEX, INC.	ATNX SPV, LLC
2016/08308	ASTELLAS PHARMA INC.	ASAHI PHARMA CO., LTD.
2015/03579	SYKEHUSET SORLANDET HF	CHRISTIAN KERSTEN, MARTE GRONLIE CAMERON ANS SVEIN MJALAND
2014/00205	SYKEHUSET SORLANDET HF	CHRISTIAN KERSTEN, MARTE GRONLIE CAMERON ANS SVEIN MJALAND
2016/06867	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2017/00071	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2016/00534	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2016/01700	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2016/03436	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2016/03437	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2016/03509	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2016/04472	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2015/04741	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2016/06494	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2016/06487	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2016/05765	SUNPOWER CORPORATION	MAXEON SOLAR PTE LTD.
2011/04838	MIKAEL DAHLSTROM	KJELL ANDERSSON, and PETER UNGE
2011/04838	KJELL ANDERSSON, and PETER UNGE	BEACON PRIVATE EQUITY GROUP AG
2011/04838	CINCLUS PHARMA AG	CINCLUS PHARMA HOLDING AB
2012/08828	ARC MEDICAL DESIGN LIMITED	KEYMED (MEDICAL & INDUSTRIAL EQUIPMENT) LIMITED
2021/00531	FOWLDS 3 LIMITED	AUTOSTEM LIMITED
2012/05797	HUNTSMAN ADVANCED MATERIALS (SWITZERLAND) GMBH	HUNTSMAN TEXTILE EFFECTS (SWITZERLAND) GMBH
2012/00455	HUNTSMAN ADVANCED MATERIALS (SWITZERLAND)	HUNTSMAN TEXTILE EFFECTS (SWITZERLAND) GMBH

Application Number	Assignor	Assignee
	GMBH	
2013/07112	HUNTSMAN ADVANCED MATERIALS (SWITZERLAND) GMBH	HUNTSMAN TEXTILE EFFECTS (SWITZERLAND) GMBH
2014/08712	HUNTSMAN ADVANCED MATERIALS (SWITZERLAND) GMBH	HUNTSMAN TEXTILE EFFECTS (SWITZERLAND) GMBH
2010/01879	HUNTSMAN ADVANCED MATERIALS (SWITZERLAND) GMBH	HUNTSMAN TEXTILE EFFECTS (SWITZERLAND) GMBH
2009/06449	HOWDEN ALPHAIR VENTILATING SYSTEMS INC.	HOWDEN CANADA INC.
2015/05121	CRODA INTERNATIONAL PLC	EQUUS UK TOPCO LTD
2017/02070	ZONEONE PHARMA, INC.	CELATOR PHARMACEUTICALS, INC.
2020/01372	ZONEONE PHARMA, INC.	CELATOR PHARMACEUTICALS, INC.
2015/06400	ZONEONE PHARMA, INC.	CELATOR PHARMACEUTICALS, INC.
2015/06400	ZONEONE PHARMA, INC.	CELATOR PHARMACEUTICALS, INC.
2010/05312	NATIONAL CHENG KUNG UNIVERSITY	FM&G BIOMED CO., LTD.
2010/05311	NATIONAL CHENG KUNG UNIVERSITY	FM&G BIOMED CO., LTD.
2016/06593	RELIANCE JIO INFOCOMM LIMITED	JIO PLATFORMS LIMITED
2016/05629	RELIANCE JIO INFOCOMM LIMITED	JIO PLATFORMS LIMITED
2018/05232	RELIANCE JIO INFOCOMM LIMITED	JIO PLATFORMS LIMITED
2022/02250	SUSTAINABLE MARINE ENERGY LIMITED	SWIFT ANCHORS LIMITED
2017/06737	THALES VISIONIX, INC.	THALES DEFENSE & SECURITY, INC.
2022/06436	COMET THERAPEUTICS, INC.	VECTIVBIO COMET AG
2018/06585	WILLIAM BURKE	PROVECTUS SYSTEM (PTY) LTD
2020/07716	ZHAI, WEN	CHINA ENERGY GROUP NINGXIA COAL INDUSTRY CO., LTD.
2018/03785	OBSEVA, SA	XOMA (US) LLC
2016/05586	KARUS THERAPEUTICS LIMITED	CONVALIFE (SHANGHAI) CO. LIMITED
2021/07120	A.W.A.L. S.R.O.	AXTER S.A.S.
2017/02753	UGM ADDCAR SYSTEMS LLC	EAGLE HIGHWAY MINING SYSTEMS, LLC
2017/02752	UGM ADDCAR SYSTEMS LLC	EAGLE HIGHWAY MINING SYSTEMS, LLC
2008/01877	UGM ADDCAR SYSTEMS LLC	EAGLE HIGHWAY MINING SYSTEMS, LLC
2006/08801	UGM ADDCAR SYSTEMS LLC	EAGLE HIGHWAY MINING SYSTEMS, LLC
2021/04082	BAYER CROPSCIENCE LP	GINKGO BIOWORKS, INC.
2020/04913	BAYER CROPSCIENCE LP	GINKGO BIOWORKS, INC.
2020/03582	BAYER CROPSCIENCE LP	GINKGO BIOWORKS, INC.
2021/10426	BAYER CROPSCIENCE LP	GINKGO BIOWORKS, INC.
2013/03290	G-NIUS LTD.	G-NIUS HOLDING & INVESTMENT AG
2016/04165	ABLATION TECHNOLOGIES, LLC	MICHAEL J. PILGRIM
2016/04165	MICHAEL J. PILGRIM	SIGNET AGGREGATES, LLC
2016/04165	SIGNET AGGREGATES, LLC	SIGNET AGGREGATES, LLC and DISA, LLC
2016/04165	SIGNET AGGREGATES, LLC	DISA TECHNOLOGIES, INC.

Application Number	Assignor	Assignee
2018/05741	STEM CELL THERANOSTICS, INC.	CAPELLA BIOSCIENCES, INC. and SCT II LLC
2021/02264	SHENYANG SINOCEM AGROCHEMICALS R&D CO., LTD.	SHENYANG SINOCEM AGROCHEMICALS R&D CO., LTD and JIANGSU YANGNONG CHEMICAL CO., LTD.
2014/01816	ABLATION TECHNOLOGIES, LLC	MICHAEL J. PILGRIM
2014/01816	MICHAEL J. PILGRIM	SIGNET AGGREGATES, LLC
2014/01816	SIGNET AGGREGATES, LLC	SIGNET AGGREGATES, LLC and DISA, LLC
2014/01816	SIGNET AGGREGATES, LLC	DISA, LLC
2021/07656	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
2021/07656	PROTEUS	PCAS
2015/03579	SYKEHUSET SORLANDET HF	CHRISTIAN KERSTEN, MARTE GRONLIE CAMERON and SVEIN MJALAND
2021/00416	CALITHERA BIOSCIENCES, INC.	ANTENGENE THERAPEUTICS LIMITED
2019/03939	CALITHERA BIOSCIENCES, INC.	ANTENGENE THERAPEUTICS LIMITED
2020/00284	AALTO UNIVERSITY FOUNDATION SR	ELMERY OY
2019/03951	AALTO UNIVERSITY FOUNDATION SR	ELMERY OY
2009/06551	JSR CORPORATION	ENEOS MATERIALS CORPORATION
2009/04419	JSR CORPORATION	ENEOS MATERIALS CORPORATION
2009/04418	JSR CORPORATION	ENEOS MATERIALS CORPORATION
2008/03331	JSR CORPORATION	ENEOS MATERIALS CORPORATION
2009/02558	JSR CORPORATION	ENEOS MATERIALS CORPORATION
2018/06858	BIONOU RESEARCH, S.L. KOROTT, S.L., and BIOPOLIS, S.L.	BIONOU RESEARCH, S.L. and BIOPOLIS, S.L.
2020/04375	AC IMMUNE SA and LIFE MOLECULAR IMAGING SA	AC IMMUNE SA and LIFE MOLECULAR IMAGING LIMITED
2009/04420	JSR CORPORATION	ENEOS MATERIALS CORPORATION
2016/04376	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2016/04264	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2015/06881	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/09431	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2016/00205	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2019/02908	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2016/02244	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2019/04237	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2019/00453	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2015/07801	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2015/03796	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2009/09155	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/04626	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2006/08182	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2006/08182	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/00251	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/04991	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2017/05741	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2016/04226	OUTOTEC (FINLAND) OY	METSO MINERALS OY

Application Number	Assignor	Assignee
2016/01095	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2016/01094	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2016/01093	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2016/00208	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/01366	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/00804	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2007/02177	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/07731	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2013/06228	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2014/00444	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2014/00475	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/00486	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2009/09194	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2008/05399	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2006/09163	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2005/03289	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2013/05265	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/08750	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2021/00521	RHODIA OPERATIONS	BELCHIM CROP PROTECTION NV
2009/09155	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2013/09448	ECO ENVIRONMENTAL ENERGY RESEARCH INSTITUTE LIMITED	ECO BIO-GREASE TECHNOLOGY COMPANY LIMITED
2009/01713	RICHARD E. WAGNER	PHYCOTRANSGENICS, LLC
2009/01713	PHYCOTRANSGENICS, LLC	PHYTERRA BIO INC.,
2009/01713	PHYTERRA BIO INC.,	KOHILO BIO INC.,
2009/01713	KOHILO BIO INC.,	SOLARVEST BIOENERGY INC.,
2019/06484	KBC GROUP NV	KBC GLOBAL SERVICES NV
2017/04457	HUAWEI TECHNOLOGIES CO., LTD.	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
2010/04991	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/00251	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2017/03564	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2013/06228	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/02593	XMESH TECHNOLOGY GMBH	STARLINGER & CO. GESELLSCHAFT M.B.H.
2012/02593	STARLINGER & CO. GESELLSCHAFT M.B.H.	ANCI INC.
2014/00444	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2013/05265	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/00486	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2019/04458	CADENT THERAPEUTICS, INC.	NOVARTIS AG
2009/09194	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2008/05399	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2006/09163	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2005/03289	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2005/06454	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/03815	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/02661	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/02666	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/08992	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/05024	OUTOTEC OYJ	OUTOTEC (FINLAND) OY

Application Number	Assignor	Assignee
2007/02959	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2019/05163	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2018/02129	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2019/06113	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2016/04162	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/06402	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/08400	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/08376	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2022/04802	THE SCRIPPS RESEARCH INSTITUTE	UNIVERSITY OF FLORIDA BOARD OF TRUSTEES
2022/04802	UNIVERSITY OF FLORIDA BOARD OF TRUSTEES	UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED
2010/08992	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/05024	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2007/02959	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/00282	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/01281	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/01706	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2007/08256	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2007/01901	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2007/10578	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2014/01226	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2013/09268	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2008/04071	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2013/09666	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2014/00681	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2011/05341	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/03577	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2014/03448	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2013/07634	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2009/04059	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/03205	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2007/10681	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/02661	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/02666	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2018/01877	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2015/03137	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/06582	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2018/03599	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/03815	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/03448	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/03205	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2009/04059	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/04626	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/01281	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/01706	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/01366	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/00804	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2007/02177	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/07731	OUTOTEC (FINLAND) OY	METSO MINERALS OY

Application Number	Assignor	Assignee
2007/08256	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2013/07634	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/08750	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2011/05341	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/03577	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2005/06454	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2007/10681	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/00282	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/00681	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2013/09268	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2007/10578	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2007/01901	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2019/06009	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2013/09666	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2006/01168	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2008/04071	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/01226	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/00475	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2006/01168	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2015/00635	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/01320	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/01320	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2011/05213	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2011/05213	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2011/05213	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2004/07637	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2015/08513	MARVIN SACKNER and JOSE ANTONIO ADAMS	MWT IP HOLDER, LLC
2022/12683	NGCONGO, MBUSO	WATOTO WAZANIA NPC
2012/02810	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/02810	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2017/04060	RHINO INNOVATED PRODUCTS (PTY) LTD	DDT MECHANISED MINING SERVICES (PTY) LTD
2012/06817	ALUMINIUM MATERIALS TECHNOLOGIES LIMITED	ECKART GMBH
2021/06249	HUTCHINSON INDUSTRIES, INC.	HUTCHINSON S.A.
2019/05432	QONQAVE GMBH	WATSON MARLOW GMBH
2011/02406	ASTELLAS PHARMA INC.	ASTELLAS IRELAND CO., LTD.
2011/02406	ASTELLAS IRELAND CO., LTD.	ASTELLAS PHARMA EUROPE LTD., NETHERLANDS BRANCH
2011/02406	ASTELLAS PHARMA EUROPE LTD., NETHERLANDS BRANCH	ASTELLAS PHARMA INC.
20005/03510	ASTELLAS PHARMA INC.	ASTELLAS IRELAND CO., LTD.
2005/03510	ASTELLAS IRELAND CO., LTD.	ASTELLAS PHARMA EUROPE LTD., NETHERLANDS BRANCH
2005/03510	ASTELLAS PHARMA EUROPE LTD., NETHERLANDS BRANCH	ASTELLAS PHARMA (PTY) LTD.
2022/01159	DOUGLAS SCIENTIFIC, LLC	LGC GENOMICS, LLC
2017/00540	DOUGLAS SCIENTIFIC, LLC	LGC GENOMICS, LLC
2018/05833	LYTELOOP TECHNOLOGIES, LLC	NKB PROPERTIES MANAGEMEMNT, LLC

Application Number	Assignor	Assignee
2020/07380	LYTELOOP TECHNOLOGIES, LLC	NKB PROPERTIES MANAGEMEMNT, LLC
2021/01393	LYTELOOP TECHNOLOGIES, LLC	NKB PROPERTIES MANAGEMEMNT, LLC
2021/10212	MAXWELL CHASE TECHNOLOGIES, LLC	CSP TECHNOLOGIES, INC.
2020/05026	LYTELOOP TECHNOLOGIES, LLC	NKB PROPERTIES MANAGEMEMNT, LLC
2014/01336	ONYX DISPLAY MEDIA (PTY) LTD.	ONYX MEDIA TECH (PTY) LTD
2017/03213	DICERNA PHARMACEUTICALS, INC.	NOVO NORDISK HEALTH CARE AG
2021/03591	OSAKA UNIVERSITY	mitsubishi tanabe pharma corporation
2012/04267	ANTARES PHARMA IPL AG	THE POPULATION COUNCIL, INC.
2019/01610	DICERNA PHARMACEUTICALS, INC.	NOVO NORDISK HEALTH CARE AG
2022/09518	MAXWELL CHASE TECHNOLOGIES, LLC	CSP TECHNOLOGIES, INC.
2022/09564	MAXWELL CHASE TECHNOLOGIES, LLC	CSP TECHNOLOGIES, INC.
2010/00710	MYFC AB	FUEL CELL TECHNOLOGY SWEDEN AB
2012/02848	MYFC AB	FUEL CELL TECHNOLOGY SWEDEN AB
2021/05194	MIZUSHIMA FERROALLOY CO., LTD.	JFE MINERAL & ALLOY COMPANY, LTD.
2019/02868	SETH LEDERMAN	TONIX PHARMACEUTICALS HOLDING CORP.
2019/02868	DAVID EVANS and RYAN NOYCE	THE GOVERNORS OF THE UNIVERSITY OF ALBERTA
2019/02868	THE GOVERNORS OF THE UNIVERSITY OF ALBERTA	TONIX PHARMA LIMITED
2018/04077	ONCOLMMUNE, INC.	ONCOC4, INC.
2020/06647	ONCOLMMUNE, INC.	ONCOC4, INC.
2008/09054	MYFC AB	FUEL CELL TECHNOLOGY SWEDEN AB
2009/07417	MYFC AB	FUEL CELL TECHNOLOGY SWEDEN AB
2010/00709	MYFC AB	FUEL CELL TECHNOLOGY SWEDEN AB
2005/07421	OUTOTEC OYJ	OUTOTEC (FINALND) OY
2006/08340	OUTOTEC OYJ	OUTOTEC (FINALND) OY
2004/05061	OUTOTEC OYJ	OUTOTEC (FINALND) OY
2004/05061	OUTOTEC (FINALND) OY	METSO MINERALS OY
2013/09401	OUTOKUMPU OYJ	OUTOKUMPU OYJ and OUTOTEC (FINLAND) OY
2013/09401	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/04061	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/04061	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/04837	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2011/06255	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2011/06232	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2011/06232	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/00306	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/00306	OUTOTEC (FINLAND) OY	METSO MINERLAS OY
2012/00612	OUTOTEC OYJ	OUTOTEC (FINLAND) OY

Application Number	Assignor	Assignee
2012/00612	OUTOTEC (FINLAND) OY	METSO MINERLAS OY
2005/05448	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2005/05448	OUTOTEC (FINLAND) OY	METSO MINERLAS OY
2005/07392	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2005/07392	OUTOTEC (FINLAND) OY	METSO MINERLAS OY
2011/06152	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2011/06152	OUTOTEC (FINLAND) OY	METSO MINERLAS OY
2006/08340	OUTOTEC (FINLAND) OY	METSO MINERLAS OY
2007/05653	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2007/05653	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2009/02336	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2009/02336	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2007/09128	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2007/09128	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2007/10710	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2007/10710	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2008/02800	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2008/02800	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2008/05181	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2008/05181	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2008/05641	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2008/05641	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2008/06541	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2008/06541	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2008/08382	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2008/08382	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2011/02773	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2011/02773	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2006/02040	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2006/02040	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/00149	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/00419	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/08295	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2010/08295	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2011/02772	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2013/02377	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2013/02377	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2013/03097	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2013/03097	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2011/02798	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2011/02798	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2011/05342	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2011/05342	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/03586	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/03586	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/03031	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/03031	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/04417	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/04417	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/05707	OUTOTEC OYJ	OUTOTEC (FINLAND) OY

Application Number	Assignor	Assignee
2012/05707	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2012/06148	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2012/06148	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2009/02337	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2009/02337	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2009/05470	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2009/05470	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2014/04175	OUTOTEC OYJ	OUTOTEC (FINLAND) OY
2014/04175	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2022/01500	ROVAXA, INC.	ZETAGEN THERAPEUTICS, INC.
2015/02896	AZANTA A/S	INPHENA APS
2016/03580	VIRGINIA COMMONWEALTH UNIVERSITY	THE UNITED STATES AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2021/07422	THE CLIMATE CORPORATION	CLIMATE LLC
2018/01427	CEPHALON, INC.	CEPHALON LLC
2019/03848	CEPHALON, INC.	CEPHALON LLC
2022/05938	MERCK SHARP & DOHME CORP.	MERCK SHARP & DOHME LLC.
2016/07691	THE CLIMATE CORPORATION	CLIMATE LLC
2013/08920	THE CLIMATE CORPORATION	CLIMATE LLC
2013/04918	THE CLIMATE CORPORATION	CLIMATE LLC
2015/00488	GKN LAND SYSTEMS LIMITED	GKN WHEELS LIMITED
2015/00488	GKN WHEELS LIMITED	MOVEERO LIMITED
2015/02977	ROPER PUMP COMPANY	ROPER PUMP COMPANY LLC
2007/07559	DIEBOLD, INCORPORATED	DIEBOLD NIXDORF, INCORPORATED
2020/02224	THE CLIMATE CORPORATION	CLIMATE LLC
2013/07255	ADVANCED MATERIAL ENGINEERING PTE. LTD.	ST ENGINEERING ADVANCED MATERIAL ENGINEERING PTE. LTD.
2021/06929	ABB POWER GRIDS SWITZERLAND AG	HITACHI ENERGY SWITZERLAND AG
2017/06127	HUNTSMAN P&A UK LIMITED	VENATOR MATERIALS UK LIMITED
2012/03335	MORPHO	IDEMIA IDENTITY & SECURITY FRANCE
2016/04053	MORPHO	IDEMIA IDENTITY & SECURITY FRANCE
2013/06597	MORPHO	IDEMIA IDENTITY & SECURITY FRANCE
2014/02994	MORPHO	IDEMIA IDENTITY & SECURITY FRANCE
2015/00755	MORPHO	IDEMIA IDENTITY & SECURITY FRANCE
2019/07422	DAELIM INDUSTRIAL CO., LTD.	DL HOLDINGS CO., LTD.
2016/07941	CORNELL PUMP COMPANY	CORNELL PUMP COMPANY LLC
2021/08163	CORNELL PUMP COMPANY	CORNELL PUMP COMPANY LLC
2011/04838	BEACON PRIVATE EQUITY GROUP AG	CINCLUS PHARMA AG
2005/04241	BALCKE-DURR ROTHEMUHLE GMBH	HOWDEN ROTHEMUHLE GMBH
2009/08902	BALCKE-DURR ROTHEMUHLE	HOWDEN ROTHEMUHLE GMBH

Application Number	In the name of	New name
	GMBH	
2016/07691	THE CLIMATE CORPORATION	CLIMATE LLC
2013/08920	THE CLIMATE CORPORATION	CLIMATE LLC
2013/04918	THE CLIMATE CORPORATION	CLIMATE LLC
2021/07656	GROUPEMENT NATIONAL INTERPROFESSIONNEL DES SEMENCES, GRAINES ET PLANTS (G.N.I.S.)	SEMAE
2016/04165	DISA, LLC	DISA TECHNOLOGIES, INC.
2019/07565	S A SENSATIONAL SEAFOODS	S A SENSATIONAL SEAFOODS (PTY) LTD
2018/05741	CAPELLA BIOSCIENCES, INC.	AURANSA INC.
2014/01816	DISA, LLC	DISA TECHNOLOGIES, INC.
2015/06918	ZYMEWORKS INC.	ZYMEWORKS BC INC.
2007/05793	CEPHALON, INC.	CEPHALON LLC
2022/10429	TWENTYEIGHT-SEVEN, INC.	REDONA THERAPEUTICS, INC.
2009/08020	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (NRA)	INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT (NRAE)
2018/00192	THE CLIMATE CORPORATION	CLIMATE LLC
2017/08126	THE CLIMATE CORPORATION	CLIMATE LLC
2016/03586	THE CLIMATE CORPORATION	CLIMATE LLC
2019/08192	THE CLIMATE CORPORATION	CLIMATE LLC
2016/05898	THE CLIMATE CORPORATION	CLIMATE LLC
2016/07637	THE CLIMATE CORPORATION	CLIMATE LLC
2017/05592	THE CLIMATE CORPORATION	CLIMATE LLC
2019/05427	THE CLIMATE CORPORATION	CLIMATE LLC
2017/01638	THE CLIMATE CORPORATION	CLIMATE LLC
2018/03007	THE CLIMATE CORPORATION	CLIMATE LLC
2018/03005	THE CLIMATE CORPORATION	CLIMATE LLC
2018/03757	THE CLIMATE CORPORATION	CLIMATE LLC
2017/02532	THE CLIMATE CORPORATION	CLIMATE LLC
2019/01405	THE CLIMATE CORPORATION	CLIMATE LLC
2018/02388	THE CLIMATE CORPORATION	CLIMATE LLC
2019/05571	THE CLIMATE CORPORATION	CLIMATE LLC
2016/06171	THE CLIMATE CORPORATION	CLIMATE LLC
2018/00071	THE CLIMATE CORPORATION	CLIMATE LLC
2018/00608	THE CLIMATE CORPORATION	CLIMATE LLC
2017/07982	THE CLIMATE CORPORATION	CLIMATE LLC
2019/03635	THE CLIMATE CORPORATION	CLIMATE LLC
2019/06280	THE CLIMATE CORPORATION	CLIMATE LLC
2019/03414	THE CLIMATE CORPORATION	CLIMATE LLC
2019/03339	THE CLIMATE CORPORATION	CLIMATE LLC
2012/02434	RAPTOR PHARMACEUTICALS INC.	HORIZON ORPHAN LLC
2007/10745	RAPTOR PHARMACEUTICALS INC.	HORIZON ORPHAN LLC
2011/03339	RAPTOR PHARMACEUTICALS INC.	HORIZON ORPHAN LLC
2011/07903	RAPTOR PHARMACEUTICALS INC.	HORIZON ORPHAN LLC
2018/08086	AMRYT ENDO, INC.	AMRYT ENDO, INC.

Application Number	In the name of	New name
2016/04376	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/04264	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2015/06881	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/09431	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2017/03564	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2013/05265	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2011/05341	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/00681	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2017/05741	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/04226	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/02244	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2013/09268	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2007/10578	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2007/01901	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2007/08256	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2007/10681	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2009/04059	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/03205	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/03448	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/03577	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/06402	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/08400	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2019/06113	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2019/06009	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2015/01675	DIAGEO IRELAND	DIAGEO IRELAND UNLIMITED COMPANY
2013/09666	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2007/02959	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/05024	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/08992	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/02666	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/01093	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2008/05399	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2006/09163	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2005/03289	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/08750	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/04991	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/00251	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2013/06228	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/00486	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/00444	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2013/07634	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2006/08182	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2008/04071	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/01226	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2018/04916	CHIASMA INC.	AMRTYU ENDO, INC.
2010/01706	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/01366	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/00804	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2007/02177	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/07731	METSO MINERALS OY	METSO OUTOTEC FINLAND OY

Application Number	In the name of	New name
2012/04626	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2005/06454	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/03815	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/02661	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/01281	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/00282	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2013/02261	KRAFTANLAGEN MUNCHEN GMBH	KRAFTANLAGEN ENERGIES & SERVICES GMBH
2017/05877	CHIASMA INC.	AMRYT ENDO, INC.
2017/04026	CHIASMA INC.	AMRYT ENDO, INC.
2014/00475	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2006/01168	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2011/01657	CHIASMA INC.	AMRYT ENDO, INC.
2018/07535	CHIASMA INC.	AMRYT ENDO, INC.
2016/04162	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2019/05163	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2019/04237	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2019/00453	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2018/03599	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2015/07801	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/01094	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/01095	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2018/01877	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2015/03796	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/08376	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/06582	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2009/09155	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2009/09194	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/00208	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/00205	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2019/02908	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2018/02129	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2015/00635	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/01320	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/04061	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2011/06232	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/00306	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/00612	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2005/05448	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2005/07392	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2011/06152	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2006/08340	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2007/05653	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2009/02336	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2007/09128	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2007/10710	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2008/02800	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2008/05181	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2008/05641	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2008/06541	METSO MINERALS OY	METSO OUTOTEC FINLAND OY

Application Number	In the name of	New name
2008/08382	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2011/02773	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2006/02040	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/00149	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2010/08295	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2011/02772	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2013/02377	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2013/03097	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2011/02798	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2011/05342	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/03586	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/03031	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/04417	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/05707	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/06148	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2009/02337	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2009/05470	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2014/04175	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/00134	DYWIDAG-SYSTEMS INTERNATIONAL PTY LIMITED	DSI UNDERGROUND AUSTRALIA PTY LIMITED
2018/03848	FRAUNDORFER AERONAUTICS AG	SENSOR AG
2004/05061	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2012/02810	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2016/03586	THE CLIMATE CORPORATION	CLIMATE LLC
2014/04837	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2022/01500	ROVAXA	ROVAXA, INC.
2013/07969	TOMTOM TELEMATICS B.V.	WEBFLEET SOLUTIONS B.V.
2013/07970	WEBFLEET SOLUTIONS B.V.	BRIDGESTONE MOBILITY SOLUTIONS B.V.
2017/08088	TOMTOM TELEMATICS B.V.	WEBFLEET SOLUTIONS B.V.
2017/08088	WEBFLEET SOLUTIONS B.V.	BRIDGESTONE MOBILITY SOLUTIONS B.V.
2017/03169	TOMTOM TELEMATICS B.V.	WEBFLEET SOLUTIONS B.V.
2017/03169	WEBFLEET SOLUTIONS B.V.	BRIDGESTONE MOBILITY SOLUTIONS B.V.
2017/03168	TOMTOM TELEMATICS B.V.	WEBFLEET SOLUTIONS B.V.
2017/03168	WEBFLEET SOLUTIONS B.V.	BRIDGESTONE MOBILITY SOLUTIONS B.V.
2017/03166	TOMTOM TELEMATICS B.V.	WEBFLEET SOLUTIONS B.V.
2017/03166	WEBFLEET SOLUTIONS B.V.	BRIDGESTONE MOBILITY SOLUTIONS B.V.
2015/08825	TOMTOM TELEMATICS B.V.	WEBFLEET SOLUTIONS B.V.
2015/08825	WEBFLEET SOLUTIONS B.V.	BRIDGESTONE MOBILITY SOLUTIONS B.V.
2015/08824	TOMTOM TELEMATICS B.V.	WEBFLEET SOLUTIONS B.V.
2015/08824	WEBFLEET SOLUTIONS B.V.	BRIDGESTONE MOBILITY SOLUTIONS B.V.

PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63

Application Number	Licensor	Licensee
2020/04453	MIRATI THERAPEUTICS, INC.	ORIC PHARMACEUTICALS, INC.
2021/07835	MIRATI THERAPEUTICS, INC.	ORIC PHARMACEUTICALS, INC.

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date
2021/07723	WITHDRAWN	12/10/2022
2021/08793	WITHDRAWN	05/04/2022
2021/07723	WITHDRAWN	12/10/2022
2022/02333	WITHDRAWN	12/01/2023
2021/05668	WITHDRAWN	08/02/2023

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 **BERNADETTE ELIZA MARIA DA COSTA OF SPOOR & FISHER, 11 BYLS BRIDGE BOULEVARD, CENTURION** that made application for the restoration of the patent granted to said **BERNADETTE ELIZA MARIA DA COSTA** an invention **GYRATORY CONE CRUSHER** numbered **2009/08510** dated **01/12/2009** which became void **01/12/2017** 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 **DEAN SHANE MARCUS OF RADEMEYER ATTORNEYS-MRF. 390 KENT AVENUE, FERDALE, RANDBURG** that made application for the restoration of the patent granted to said **DEAN SHANE MARCUS** an invention **POWER PACK** numbered **2018/03191** dated **15/05/2018** which became void **15/05/2021** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **ATTOCHRON LLC OF BOUERS INC, JHB** that made application for the restoration of the patent granted to said **ATTOCHRON LLC** an invention **USPL-FSO LASERCOM POINT-TO-POINT AND POINT-TO-MULTIPOINT OPTICAL WIRELESS COMMUNICATION** numbered **2014/05835** dated **09/01/2013** which became void **09/01/2022** 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.

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

Notice is hereby given that **MINETEK INVESTMENTS PTY LTD.,c/o Caska IP,14/5 Martin Place, Sydney, New South Wales, 2000, Australia.** made application for voluntary surrender of the patents granted to the said **MINETEK INVESTMENTS PTY LTD** numbered **2019/06132**.

Any person may give notice of opposition to the voluntary surrender of the design within two months of the advertisement hereof.

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: BYRNA TECHNOLOGIES INC. 100 Burt Road, Suite 115, Andover, MA 01810,USA request permission to amend the specification of letters patent no: **2016/03657** of **26/05/2016** for **A PROJECTILE** .

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: HYDRA LIGHT INTERNATIONAL LTD Suite 4, Level 2, 11-19 Bank Place Melbourne VIC 3000,USA request permission to amend the specification of letters patent no: **2019/03825** of **13/06/2019** for **METAL-AIR FUEL CELL**.

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: BRISTOL-MYERS SQUIBB COMPANY.,Rt.206 & Province Line Road, PRINCETON 08543, NJ,USA request permission to amend the specification of letters patent no: **2021/03353** of **18/05/2021** for **ANTAGONISTIC CD40 MONOCLONAL ANTIBODIES AND USES THEREOF**.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: Thirumalai Chemicals Limited Thirumalai House, Plot No. 101-102, Road No. 29, Sion (East), MUMBAI 400 022, INDIA. request permission to amend the specification of letters patent no: **2022/01939** of **15/02/2020** for **PRODUCTION OF MALIC ACID**.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

INSPECTION OF SPECIFICATIONS

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4, 00**. Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

COPIES OF DOCUMENTS

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: **R1, 00 per page**

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.

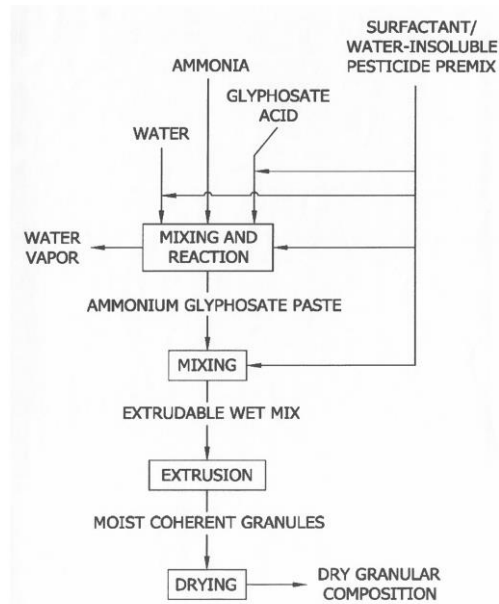
Registrar of Patents

21: 2012/06686. 22: 2012/09/06. 43: 2022/11/30
51: A01N
71: MONSANTO TECHNOLOGY LLC
72: DYSZLEWSKI ANDREW D, ABRAHAM
WILLIAM, ZHANG JUNHUA, KOHN FRANK C,
WRIGHT DANIEL R, HEMMINGHAUS JOHN W.
33: US 31: 61/313.436 32: 2010-03-12
54: PLANT HEALTH COMPOSITIONS

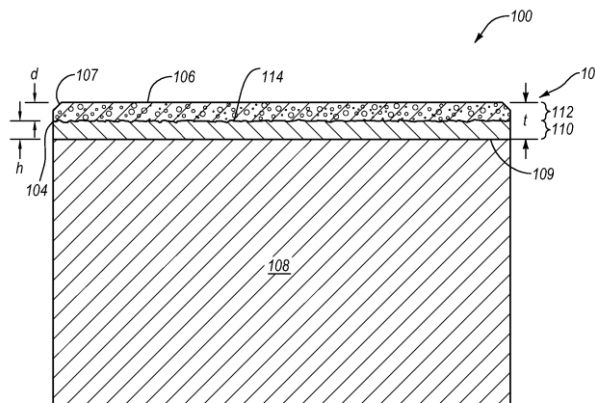
COMPRISING A WATER-SOLUBLE PESTICIDE AND A WATER-INSOLUBLE AGROCHEMICAL

00: -
Compositions for improving plant health, the compositions comprising at least one water-soluble pesticide and at least one non-herbicidal water-insoluble agrochemical, are described. Also described are processes for preparing the

compositions and methods of improving agronomic crop plant health using the compositions.



second HPHT process are chosen so that β is about 2 °Celsius-hours/gigapascals ("°C.h/GPa") to about 325 °C.h/GPa, with β represented as $\beta = tT./P$.



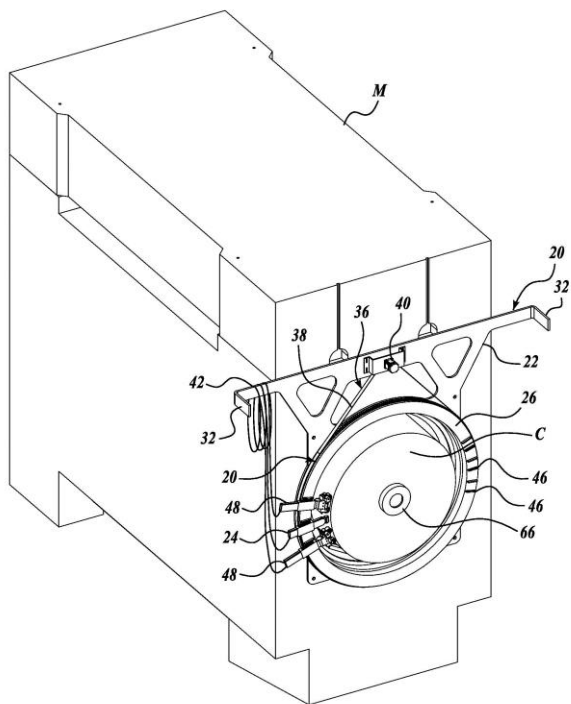
21: 2013/04105. 22: 2013/06/05. 43: 2023/01/26
 51: B22F; C22C; E21B
 71: US SYNTHETIC CORPORATION
 72: MUKHOPADHYAY DEBKUMAR,
 BERTAGNOLLI KENNETH E, GONZALEZ JAIR J
 33: US 31: 12/961,787 32: 2010-12-07
54: METHOD OF PARTIALLY INFITRATING AN AT LEAST PARTIALLY LEACHED POLYCRYSTALLINE DIAMOND TABLE AND RESULTANT POLYCRYSTALLINE DIAMOND COMPACTS

00: -
 In an embodiment, a method of fabricating a polycrystalline diamond compact ("PDC") includes forming a polycrystalline diamond ("PCD") table in the presence of a metal-solvent catalyst in a first high-pressure/high-temperature ("HPHT") process. The PCD table includes bonded diamond grains defining interstitial regions, with the metal-solvent catalyst disposed therein. The method includes at least partially leaching the PCD table to remove at least a portion of the metal-solvent catalyst therefrom. The method includes subjecting the at least partially leached PCD table and a substrate to a second HPHT process under diamond-stable temperature-pressure conditions to partially infiltrate the at least partially leached PCD table with an infiltrant. A maximum temperature (T), a total process time (t), and a maximum pressure (P) of the

21: 2014/08735. 22: 2014/11/27. 43: 2022/11/29
 51: G01N; G21C
 71: TN Americas LLC
 72: GRUBB, Robert, KOFMAN, Aleksandr
 33: US 31: 61/663,427 32: 2012-06-22

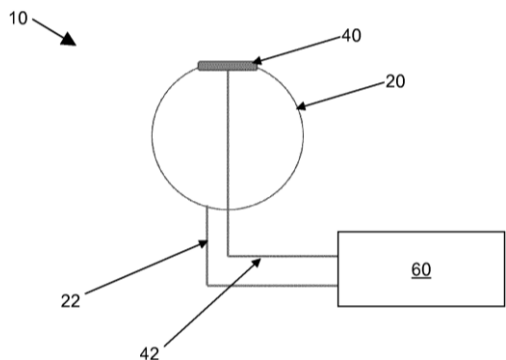
54: SYSTEMS AND METHODS FOR CANISTER INSPECTION, PREPARATION, AND MAINTENANCE

00: -
 A travel system (20) for a canister storage, transfer, or transport system generally includes a support structure (22), at least one traveling device (24) for preparing, inspecting, and/or repairing the canister, and a base ring (26) for supporting the traveling device and providing for rotational movement of the traveling device relative to the support structure.



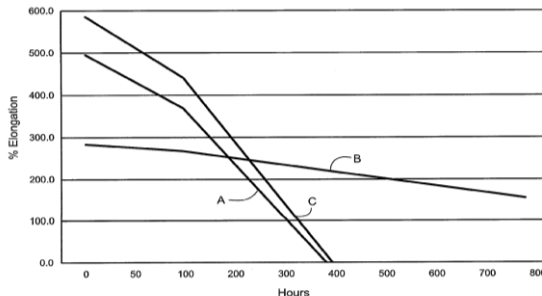
21: 2015/05939. 22: 2015/08/18. 43: 2023/01/25
 51: H01Q
 71: LEICA GEOSYSTEMS AG
 72: LILLY, Brendon, Troy
 33: AU 31: 2013900234 32: 2013-01-21
54: CO-LOCATED ANTENNA
 00: -

A co-located global navigation satellite system (GNSS) antenna and beamforming antenna, where the phase centres of the two antennae are co-located in at least one axis, preferably the vertical axis. Differences in the phase centre locations can be compensated using, for example, orientation and/or sensor data.



21: 2015/06563. 22: 2015/09/07. 43: 2023/01/16
 51: H01M
 71: DARAMIC, LLC
 72: MILLER, Eric, H., WHEAR, J., Kevin,
 CHAMBERS, Jeffrey, K.
 33: US 31: 61/774,160 32: 2013-03-07
54: OXIDATION PROTECTED SEPARATOR
 00: -

A battery separator for a lead/acid battery is resistant to oxidation arising from the use of water or acid containing contaminants, for example chromium (Cr), manganese (Mn), titanium (Ti), copper (Cu), and the like. The separator is a microporous membrane including a rubber. The rubber is no more than about 12% by weight of the separator. The rubber may be rubber latex, tire crumb, and combinations thereof. The rubber may be impregnated into the microporous membrane. The microporous membrane may be a microporous sheet of polyolefin, polyvinyl chloride, phenol-formaldehyde resins, cross-linked rubber, or nonwoven fibers. A method for preventing the oxidation and/or extending battery life of the separator is also included.



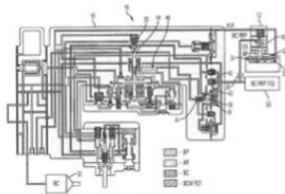
21: 2016/05812. 22: 2016/08/22. 43: 2023/01/23
 51: A61K; C07D
 71: SENTINEL ONCOLOGY LIMITED
 72: BOYLE, Robert, George, WALKER, David,
 Winter, BOYCE, Richard, Justin, PETERSON, Scott,
 FAROUZ, Francine, VO, Cong, Hung
 33: US 31: 62/083,687 32: 2014-11-24
 33: GB 31: 1402277.6 32: 2014-02-10
54: PHARMACEUTICAL COMPOUNDS
 00: -

This invention relates to compounds that inhibit or modulate the activity of Chk-1 kinase. Also provided are pharmaceutical compositions containing the compounds and the therapeutic uses of the compounds.

21: 2017/01523. 22: 2017/03/01. 43: 2023/01/26
51: B60T

71: NEW YORK AIR BRAKE, LLC
72: CONNELL, Jason, WRIGHT, Eric C
54: BRAKE CYLINDER MAINTAINING REFERENCE

00: -
A brake cylinder maintaining system produces a brake cylinder reference pressure based on the difference between the brake pipe pressure and the auxiliary reservoir pressure and the feeds that pressure to choke and a volume so that the ratio of the reference area of the choke to the volume of stored brake cylinder reference pressure may be used to adjust brake cylinder pressure by providing the reference pressure to a standard quick service limiting valve or to a relay that can selectively charge or exhaust the brake cylinder.



21: 2017/03263. 22: 2017/05/11. 43: 2022/11/30
51: A01K; A61K; C07K; A61P

71: REGENERON PHARMACEUTICALS, INC.
72: BUROVA, Elena, TANG, Yajun, LAI, Ka-Man, Venus, MURPHY, Andrew, J.
33: US 31: 62/089,549 32: 2014-12-09
33: US 31: 62/106,525 32: 2015-01-22

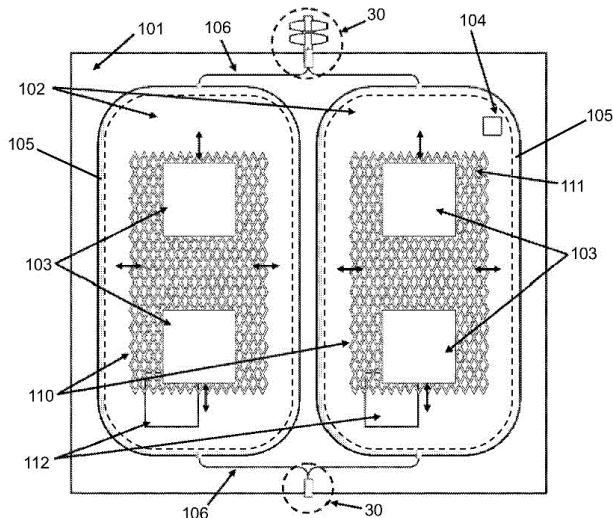
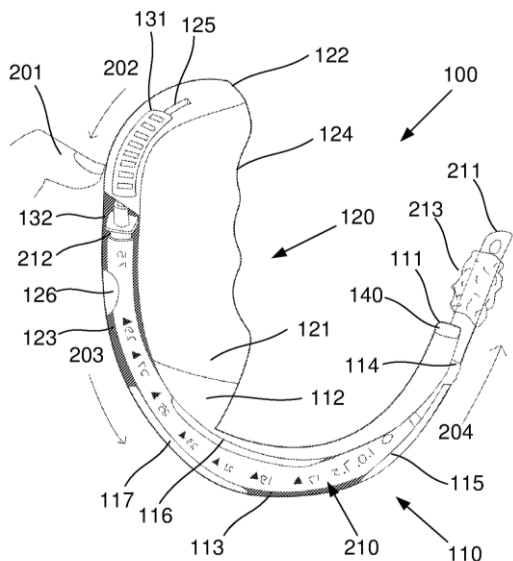
54: NON-HUMAN ANIMALS HAVING A HUMANIZED CLUSTER OF DIFFERENTIATION 274 GENE

00: -
Non-human animals, methods and compositions for making and using the same, are provided, wherein said non-human animals comprise a humanization of a Cluster of Differentiation 274 (CD274) gene. Such non-human animals may be described, in some embodiments, as having a genetic modification to an endogenous CD274 gene so that said non-human animals express a Programmed cell death ligand 1 (PD-L1) polypeptide that includes a human portion and an endogenous portion (e.g., a non-human portion).

21: 2017/04551. 22: 2017/07/05. 43: 2022/11/21
51: A61B; A61M

71: AIRWAY MEDICAL INNOVATIONS PTY LTD
72: ALONSO BABARRO, Julio Miguel
33: AU 31: 2014905049 32: 2014-12-12
54: INTUBATION DEVICE

00: -
An intubation device for use in an endotracheal intubation procedure, the intubation device including: a laryngoscope blade having a tip and a base; a handle attached to the base of the blade for allowing the intubation device to be held in a hand of a user; a channel for receiving an endotracheal tube, the channel including a blade channel portion extending along the blade substantially from the tip to the base and including an outlet proximate to the tip for allowing a distal end of the endotracheal tube to be advanced from the outlet and a handle channel portion extending partially along the handle from the blade channel portion; and a tube movement mechanism in the handle for moving the endotracheal tube through the channel to thereby advance the endotracheal tube, the tube movement mechanism including a thumb interface for allowing the user to operate the tube movement mechanism using a thumb of the hand that is holding the intubation device, to thereby allow the user to hold the intubation device and advance the endotracheal tube in an endotracheal intubation procedure using a single hand.



21: 2017/05924. 22: 2017/08/31. 43: 2022/11/30
 51: A01N; A61J; A61K; A61M; C12N
 71: HEMANEXT INC.
 72: WOLF, Michael, SARITA, Jancarlo, SUTTON, Jeffrey, Karl, CORDERO, Rafael, ZOCCHI, Michael, KEEGAN, Philip, RENGANATHAN, Narendran, HARTHEN, Robert
 33: US 31: 62/131,130 32: 2015-03-10
54: OXYGEN REDUCTION DISPOSABLE KITS, DEVICES AND METHODS OF USE THEREOF
 00: -

The present disclosure relates to Oxygen Reduction Disposable kits (ORDKit), devices and methods for the improved preservation of whole blood and blood components. The improved devices and methods for the collection of blood and blood components provide for whole blood and blood components having reduced levels of oxygen. The devices and methods provide for the rapid preparation of deoxygenated blood and blood components for storage that improves the overall quality of the transfused blood and improves health outcomes in patients.

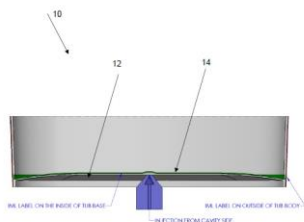
21: 2017/08064. 22: 2017/11/28. 43: 2023/01/27
 51: A61K; A61P
 71: LUMOSA THERAPEUTICS CO., LTD, SHANGHAI LUMOSA THERAPEUTICS CO., LTD
 72: LI, Chan-Jung; CHOU, David Chih-Kuang; HUANG, Jin-Ding; TSAI, Shin, Jr; KUO, Shu-Wen; TIEN, Yu-En
 33: US 31: 14/723,996 32: 2015-05-28
 33: US 31: 62/255,805 32: 2015-11-16
54: PHARMACEUTICAL FORMULATIONS FOR SUSTAINED RELEASE OF SEBACOYL DINALBUPHINE ESTER

00: -
 The present invention relates to injectable, extended-release, pharmaceutical formulations comprising a nalbuphine ester prodrug homogeneously dissolved in a solution comprising a pharmaceutically acceptable oil and an oil-miscible retaining solvent, as well as manufacturing processes and medical uses of the formulations. The invention further provides methods for adjusting the duration of action of the formulations by varying the ratio of the pharmaceutically acceptable oil and the oil-miscible retaining solvent.

21: 2018/01327. 22: 2018/02/27. 43: 2023/02/03
 51: B65B; B65C; B65D
 71: Polyoak Packaging (Pty) Ltd
 72: Henry John LOUW, Dennis STEWART
 33: ZA 31: 2017/01158 32: 2017-02-16
54: CONTAINER AND METHOD FOR MANUFACTURING A CONTAINER

00: -
 The invention discloses a container which includes an injection-moulded barrier injected from its mould cavity side. The barrier may be a label. The

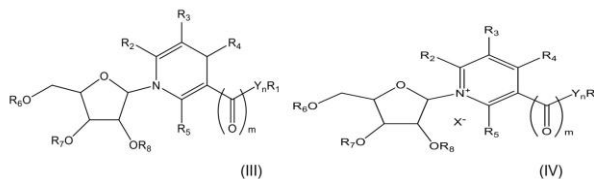
invention also extends to a method of manufacturing a container includes the step of injecting an injection-moulded oxygen barrier moulded into a container barrier from its mould having a core and a cavity side. The oxygen barrier may be located on the base side of the container. The container may be moulded. The mould may be constructed in the conventional way to allow plastic injection of the container taking place from the mould's cavity side, i.e. the outside of the container. The label for the base of the container may be located either on the core of the mould or inside the cavity and the container then can be injection moulded in the conventional way.



21: 2018/02315. 22: 2018/04/09. 43: 2023/01/27
 51: C07H
 71: THE QUEEN'S UNIVERSITY OF BELFAST
 72: MIGAUD, Marie, REDPATH, Philip,
 CROSSEY, Kerri, DOHERTY, Mark
 33: GB 31: 1313465.5 32: 2013-07-29
**54: METHODS OF PREPARING NICOTINAMIDE
 RIBOSIDE AND DERIVATIVES THEREOF**

00: -
 The invention relates to methods of preparing nicotinamide riboside and derivatives thereof. In an aspect, the invention relates to a compound of formula (III) or (IV) wherein n is 0 or 1; m is 0 or 1; Y is O or S; R_1 is selected from H, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, substituted or unsubstituted aryl, substituted or unsubstituted primary or secondary amino, and substituted or unsubstituted azido; $R_2 - R_5$, are each independently selected from H, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, and substituted or unsubstituted aryl; and R_6, R_7 and R_8 , are each independently a hydroxyl-protecting group or are each H; and X^- is an anion, selected from an anion of a substituted or unsubstituted

carboxylic acid, a halide, a substituted or unsubstituted sulfonate, a substituted or unsubstituted phosphate, a substituted or unsubstituted sulfate, a substituted or unsubstituted carbonate, and a substituted or unsubstituted carbamate.

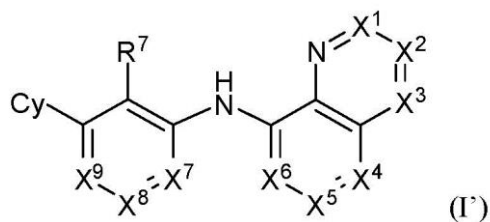


21: 2018/04870. 22: 2018/07/19. 43: 2022/11/30
 51: A61K; A61P; C07D
 71: Asceneuron S.A.
 72: QUATTROPANI, Anna, KULKARNI, Santosh S.,
 GIRI, Awadut Gajendra, TORONTO, Dawn V.,
 CROWE, David Malcolm
 33: IN 31: 201621006638 32: 2016-02-25
**54: ACID ADDITION SALTS OF PIPERAZINE
 DERIVATIVES**

00: -
 The invention relates to acid addition salts of piperazine derivatives, as well as solid forms, such as polymorphic forms, thereof, which are useful as pharmaceutical ingredients and in particular as glycosidase inhibitors.

21: 2018/04909. 22: 2018/07/20. 43: 2022/11/30
 51: A61K; A61P; C07D
 71: Incyte Corporation
 72: LAJKIEWICZ, Neil, WU, Liangxing, YAO,
 Wenqing
 33: US 31: 62/270,931 32: 2015-12-22
**54: HETEROCYCLIC COMPOUNDS AS
 IMMUNOMODULATORS**

00: -
 Disclosed are compounds of Formula (I'), methods of using the compounds as immunomodulators, and pharmaceutical compositions comprising such compounds. The compounds are useful in treating, preventing or ameliorating diseases or disorders such as cancer or infections.



21: 2018/04943. 22: 2018/07/23. 43: 2022/12/07

51: A61K; A61P; C07

71: F. Hoffmann-La Roche A

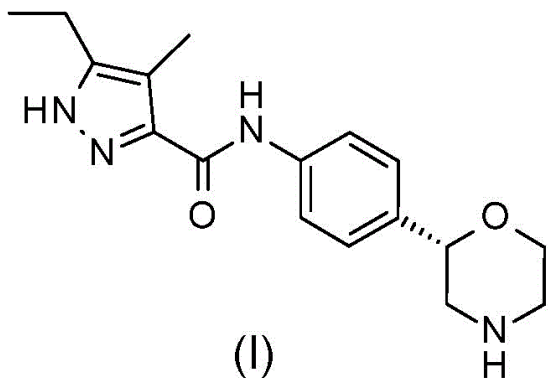
72: GALLEY, Guido, HOENER, Marius,
NORCROSS, Roger, PFLIEGER, Philippe

33: EP(CH) 31: 16160790.8 32: 2016-03-17

54: 5-ETHYL-4-METHYL-PYRAZOLE-3-CARBOXAMIDE DERIVATIVE HAVING ACTIVITY AS AGONIST OF TAAR

00: -

The present invention relates to a compound of formula (I) and to a pharmaceutically suitable acid addition salt thereof with a good affinity to the trace amine associated receptors (TAARs), especially for TAAR1, for the treatment of certain CNS diseases.



21: 2018/04944. 22: 2018/07/23. 43: 2022/11/30

51: A61K

71: Ferring B.V.

72: SJÖGREN, Helen Ulrika, HØJER-PEDERSEN,
Charlotte

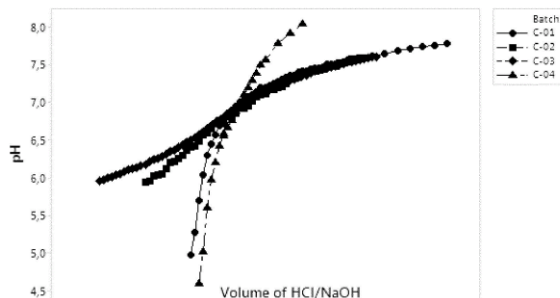
33: GB 31: 1603280.7 32: 2016-02-24

54: STABLE LIQUID GONADOTROPIN FORMULATION

00: -

The present invention pertains in general to the field of the stabilization of gonadotropin formulations, in particular liquid formulations of gonadotropins. The stabilization is achieved by a particular combination

of excipients, preferably arginine and methionine. In a preferred embodiment, the formulation does not comprise a buffer.



21: 2018/04973. 22: 2018/07/24. 43: 2022/11/30

51: C07K

71: F. Hoffmann-La Roche AG

72: BRUENKER, Peter, CROASDALE-WOOD,
Rebecca, KLEIN, Christian, SCHANZER, Juergen
Michael, STUBENRAUCH, Kay-Gunnar, UMANA,
Pablo, GEIGER, Martina, SULLIVAN, Eric, PATEL,
Jigar

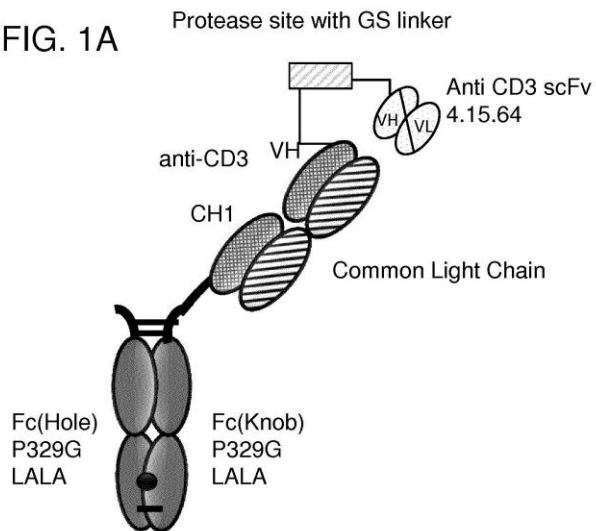
33: EP(CH) 31: 16161740.2 32: 2016-03-22

54: PROTEASE-ACTIVATED T CELL BISPECIFIC MOLECULES

00: -

The present invention generally relates to novel protease-activatable T cell activating bispecific molecules and idio-type-specific polypeptides acting as masking moieties. The present invention also relates to polynucleotides encoding such protease-activatable T cell activating bispecific molecules and idio-type-specific polypeptides, and vectors and host cells comprising such polynucleotides. The invention further relates to methods for producing the protease-activatable T cell activating bispecific molecules and idio-type-specific polypeptides of the invention, and to methods of using these protease-activatable T cell activating bispecific molecules and idio-type-specific polypeptides in the treatment of disease.

FIG. 1A



7859

21: 2018/05110. 22: 2018/07/30. 43: 2022/11/30
51: C10L

71: BP Oil International Limited

72: FILIP, Sorin Vasile

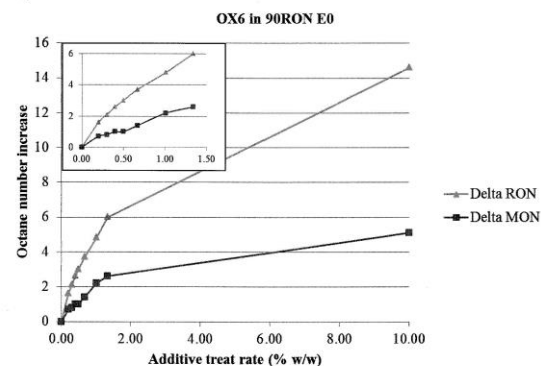
33: EP(GB) 31: 16155209.6 32: 2016-02-11

54: FUEL COMPOSITIONS

00: -

A fuel composition for a spark-ignition internal combustion engine comprises an additive having a chemical structure comprising a 6-membered aromatic ring sharing two adjacent aromatic carbon atoms with a 6- or 7-membered saturated heterocyclic ring, the 6- or 7-membered saturated heterocyclic ring comprising a nitrogen atom directly bonded to one of the shared carbon atoms to form a secondary amine and an atom selected from oxygen or nitrogen directly bonded to the other shared carbon atom, the remaining atoms in the 6- or 7-membered heterocyclic ring being carbon. The additive increases the octane number of the fuel, thereby improving the auto-ignition characteristics of the fuel.

Fig. 1a



21: 2018/05143. 22: 2018/07/31. 43: 2022/11/30
51: C10L

71: BP Oil International Limited

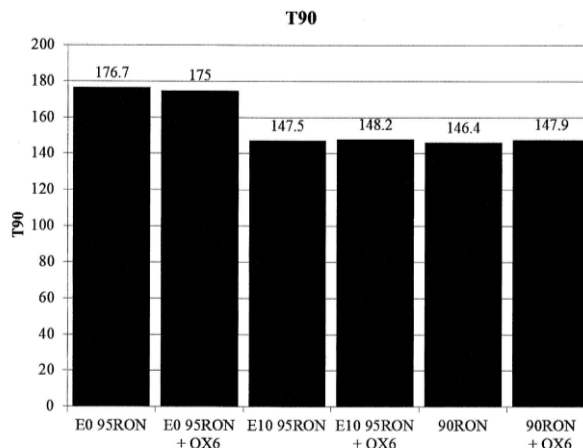
72: ALI, Rana, FILIP, Sorin Vasile

33: EP(GB) 31: 16155210.4 32: 2016-02-11

54: FUEL COMPOSITIONS WITH ADDITIVES

00: -

A fuel composition for a spark-ignition internal combustion engine comprises a non-metallic octane-boosting additive. The non-metallic octane-boosting additive is an additive which, when used at a treat rate of 0.67 % by weight, increases the research octane number of a fuel by at least 1.8 whilst maintaining the T₉₀ and/or the vapour pressure.



21: 2018/05600. 22: 2018/08/22. 43: 2022/11/29
51: A61K; A61P; C07D

71: Anhui New Star Pharmaceutical Development Co., Ltd

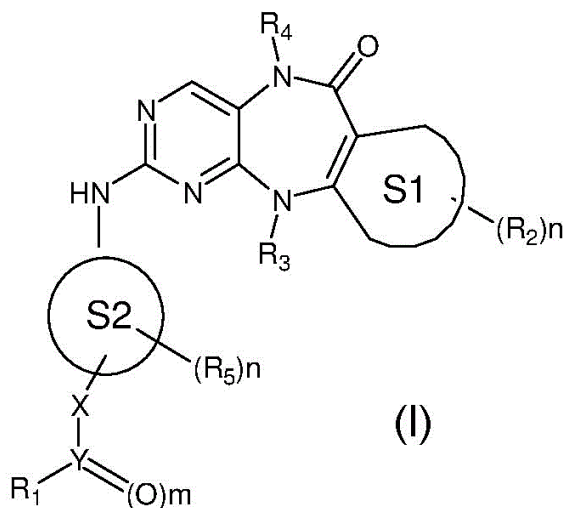
72: DENG, Xianming, ZHOU, Dawang, CHEN, Lanfen, HE, Zhixiang, FAN, Fuqin

33: CN 31: 201610121108.5 32: 2016-03-04

54: PYRIMIDINE SEVEN-MEMBERED-RING COMPOUNDS, PREPARATION METHOD

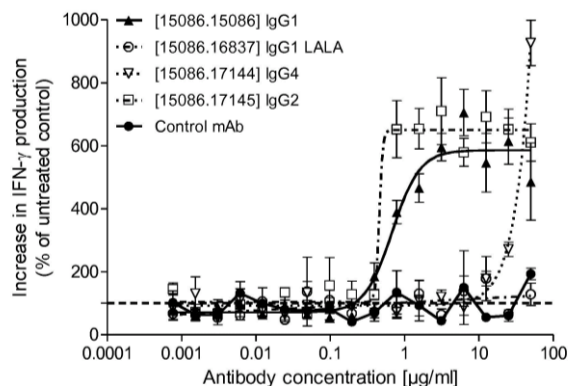
THEREFOR, PHARMACEUTICAL COMPOSITION THEREOF, AND USES THEREOF

00: -
 The present invention relates to compounds (I) capable of inhibiting the Mst1/2 protein kinase activity, a preparation method therefor, a pharmaceutical composition comprising the compounds, and uses of the compounds and the pharmaceutical composition comprising the compounds in the preparation of drugs for prompting repair and regeneration of tissues and organs, prompting stem cell proliferation and adult cell dedifferentiation, immunosuppression, and preventing or treating diseases related to nervous disorders in organisms, and local ischemia diseases.



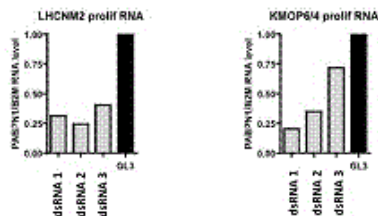
21: 2018/06429. 22: 2018/09/27. 43: 2023/01/06
 51: C07K; A61P
 71: SYMPHOGEN A/S
 72: LINDSTED, Trine, GJETTING, Torben, GALLER, Gunther, Roland, GAD, Monika, GRANDAL, Michael, Monrad, KOEFOED, Klaus, KRAGH, Michael, BOUQUIN, Thomas, PEDERSEN, Mikkel, Wandahl, HORAK, Ivan, David
 33: US 31: 62/321,476 32: 2016-04-12
54: ANTI-TIM-3 ANTIBODIES AND COMPOSITIONS

00: -
 This invention relates to anti-TIM-3 antibodies and antibody compositions and their use in enhancing immunity in a patient, e.g., to treat cancer.



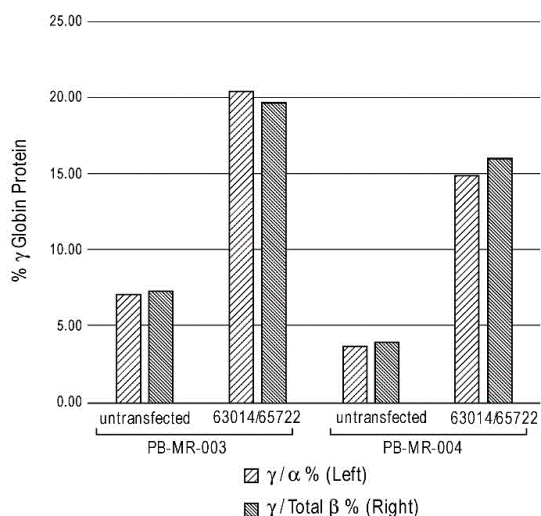
21: 2018/07589. 22: 2018/11/12. 43: 2023/01/27
 51: A61K; C12N
 71: BENITEC IP HOLDINGS INC.
 72: DAVID SUHY, MICHAEL GRAHAM, CAPUCINE TROLLET, ALBERTO MALERBA, GEORGE J DICKSON
 33: US 31: 62/322,745 32: 2016-04-14
54: REAGENTS FOR TREATMENT OF OCULOPHARYNGEAL MUSCULAR DYSTROPHY (OPMD) AND USE THEREOF

00: -
 The present disclosure relates to RNA interference (RNAi) reagents targeting PABPN1 for treatment of oculopharyngeal muscular dystrophy (OPMD), compositions comprising same, and use thereof to treat individuals suffering from OPMD or which are predisposed thereto.



21: 2019/00765. 22: 2019/02/06. 43: 2023/02/03
 51: A61K; C07K; C12N
 71: SANGAMO THERAPEUTICS, INC.
 72: MILLER, Jeffrey, C., REBAR, Edward, J.
 33: US 31: 62/378,978 32: 2016-08-24
 33: US 31: 62/443,981 32: 2017-01-09
 33: US 31: 62/545,778 32: 2017-08-15
54: REGULATION OF GENE EXPRESSION USING ENGINEERED NUCLEASES
 00: -

The present disclosure is in the field of genome engineering, particularly targeted modification of the genome of a hematopoietic cell.



21: 2019/02696. 22: 2019/04/29. 43: 2023/02/09
 51: C07H; G01N
 71: THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS, THE GOVERNORS OF THE UNIVERSITY OF ALBERTA
 72: MCGIVEN, John, HOWELLS, Laurence, DUNCOMBE, Lucy, BUNDLE, David, MANDAL, Satadru Sekhar, SARKAR, Susmita
 33: GB 31: 1618635.5 32: 2016-11-04
54: CAPPED OLIGOSACCHARIDES COMPRISING SEVEN OR MORE UNITS OF 4,6-DIDEOXY-4-ACYLAMIDO-ALPHA-PYRANOSE AND CONJUGATES THEREOF AS VACCINES AGAINST INFECTIONS CAUSED BY BRUCELLA ORGANISMS

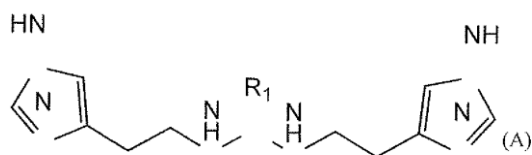
00: -
 There is provided a molecule comprising a chain of seven or more contiguous units of 4,6-dideoxy-4-acylamido-#-pyranose, each pair of units joined by a C1-C2 or a C1-C3 link, the chain having a terminal end and a reducing end, wherein the pyranose ring in the unit of the chain most distal from the reducing end is linked to a cap structure. The cap structure is not a 4,6-dideoxy-4-acylamido-#-pyranose. There are also provided vaccine compositions comprising the molecule and methods of vaccinating an animal against infection by a Brucella organism, including methods of distinguishing between a vaccinated and an infected animal. There are further provided novel

methods of detecting the presence in a sample of an anti-Brucella antibody.

21: 2019/03452. 22: 2019/05/30. 43: 2022/11/29
 51: A61K; A61Q
 71: Colgate-Palmolive Company
 72: REGE, Aarti, PRENCIPE, Michael, ESTRIPLET, Marc
 33: US 31: 62/437,085 32: 2016-12-21
54: ORAL CARE COMPOSITIONS
 00: -
 An oral care composition comprising zinc phosphate, stannous fluoride, arginine or lysine and an organic acid buffer system, as well as methods of using the same.

21: 2019/03828. 22: 2019/06/13. 43: 2023/02/06
 51: A61K
 71: LTD "VALENTA-INTELLEKT", NEBOLSIN, Vladimir Evgenievich
 72: NEBOLSIN, Vladimir Evgenievich, RYDLOVSKAYA, Anastasia Vladimirovna, KROMOVA, Tatyana Alexandrovna
 33: RU 31: 2017118350 32: 2017-05-26
 33: RU 31: 2017137615 32: 2017-10-27
54: NOVEL GLUTAMINYL CYCLASE INHIBITORS AND THE USE THEREOF IN TREATMENT OF VARIOUS DISEASES

00: -
 The invention relates to chemistry of organic substances, pharmacology and medicine, and concerns treating diseases associated and with aberrant activity of cells of the immune system, more particularly for treating lung, respiratory tract and abdominal diseases, radiation sickness, pain syndrome and other diseases by using compounds of formula (A), wherein R₁ is a -C(O)-R₂-C(O)- or -R₂-C(O)- group, where R₂ is a -(CH₂)_n- group optionally substituted with one or two C₁-C₆ alkyls, or phenyl, and n is an integer from 0 to 4; wherein the compounds are selected from a group consisting of the compounds as set out in the description. These compounds, as well as pharmaceutically acceptable salts thereof, are highly effective in inhibiting glutaminy cyclase, which is involved, in particular, in post-translational modification of chemokines and chemotaxis of monocytes, macrophages and other cells of the immune system. This invention also relates to pharmaceutical compositions comprising a therapeutically effective amount of the compounds of formula (A) as defined above.



21: 2019/03848. 22: 2019/06/13. 43: 2022/12/14
51: A61K; C07K; G01N; A61P

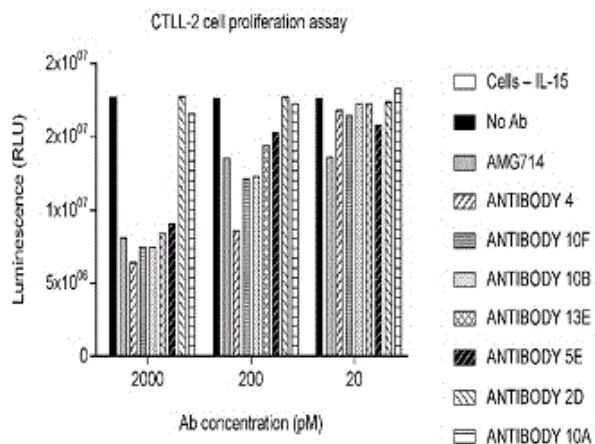
71: Cephalon LLC

72: DAVID JOSE SIMON LAINE, MATTHEW POLLARD, ANTHONY GERARD DOYLE, LYNN DOROTHY POULTON, ADAM WILLIAM CLARKE
33: US 31: 62/437,143 32: 2016-12-21

54: ANTIBODIES THAT SPECIFICALLY BIND TO HUMAN IL-15 AND USES THEREOF

00: -

Recombinant antibodies that specifically bind to IL-15 as well as a complex of IL-15 and the IL-15 Receptor-alpha are provided. The antibodies inhibit immune cell proliferation, and are capable of use in the treatment of any autoimmune or inflammatory disease or condition where IL-15 is dysregulated, including Celiac disease.



21: 2019/05679. 22: 2019/08/28. 43: 2022/12/14
51: A61K; A61P

71: HOPE MEDICAL ENTERPRISES, INC. DBA HOPE PHARMACEUTICALS

72: CRAIG SHERMAN

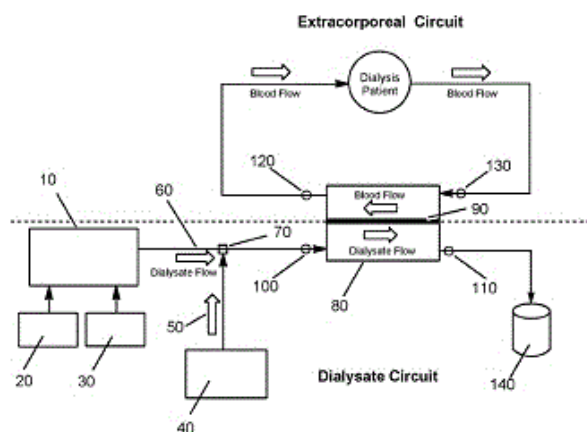
33: US 31: 62/468,857 32: 2017-03-08

54: INTRADIALYTIC USE OF SODIUM NITRITE

00: -

Provided herein are methods for maintaining physiological levels of nitrite in a subject undergoing

hemodialysis. Also provided herein are methods of administering pharmaceutically acceptable sodium nitrite to a subject undergoing hemodialysis.



21: 2019/06035. 22: 2019/09/12. 43: 2023/01/16
51: A61K; C07C; C07D; A61P

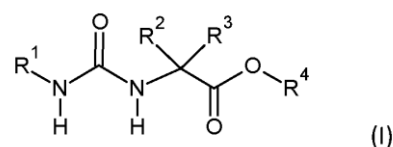
71: NODTHERA LIMITED

72: HARRISON, David, WATT, Alan Paul, BOUTARD, Nicolas, FABRITIUS, Charles-Henry, GALEZOWSKI, Michal, KOWALCZYK, Piotr, LEVENETS, Oleksandr, WOYCIECHOWSKI, Jakub
33: GB 31: 1703979.3 32: 2017-03-13

54: CHEMICAL COMPOUNDS

00: -

The present disclosure relates to compounds of Formula (I): and to their pharmaceutically acceptable salts, pharmaceutical compositions, methods of use, and methods for their preparation. The compounds disclosed herein inhibit the maturation of cytokines of the IL-1 family by inhibiting inflammasomes and may be used in the treatment of disorders in which inflammasome activity is implicated, such as inter alia autoinflammatory and autoimmune diseases and cancers.



21: 2019/06675. 22: 2019/10/09. 43: 2023/01/27
51: A61K; C07D; C07K; A61P

71: MEDIMMUNE LIMITED

72: HOWARD, Philip Wilson, GREGSON, Stephen John

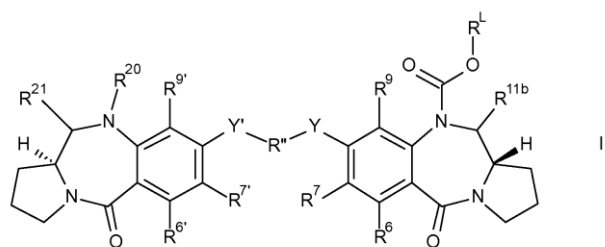
33: GB 31: 1706133.4 32: 2017-04-18

33: GB 31: 1721337.2 32: 2017-12-19

54: PYRROLOBENZODIAZEPINE CONJUGATES

00: -

A compound of formula I and salts and solvates thereof, wherein: R6 and R9 are independently selected from H, R, OH, OR, SH, SR, NH2, NHR, NRR', nitro, Me3Sn and halo; where R and R' are independently selected from optionally substituted C1-12 alkyl, C3-20 heterocyclyl and C5-20 aryl groups; R7 is selected from H, R, OH, OR, SH, SR, NH2, NHR, NRR', nitro, Me3Sn and halo; R" is a C3-12 alkylene group, which chain may be interrupted by one or more heteroatoms, e.g. O, S, NRN2 (where RN2 is H or C1-4 alkyl), and/or aromatic rings, e.g. benzene or pyridine; Y and Y' are selected from O, S, or NH; R6, R7, R9 are selected from the same groups as R6, R7 and R9 respectively; R11b is selected from OH, ORA, where RA is C1-4 alkyl; and RL is a linker for connection to a cell binding agent.



21: 2019/06843. 22: 2019/10/16. 43: 2023/01/20

51: A62B

71: Qilu University of Technology

72: LI, Fuxing

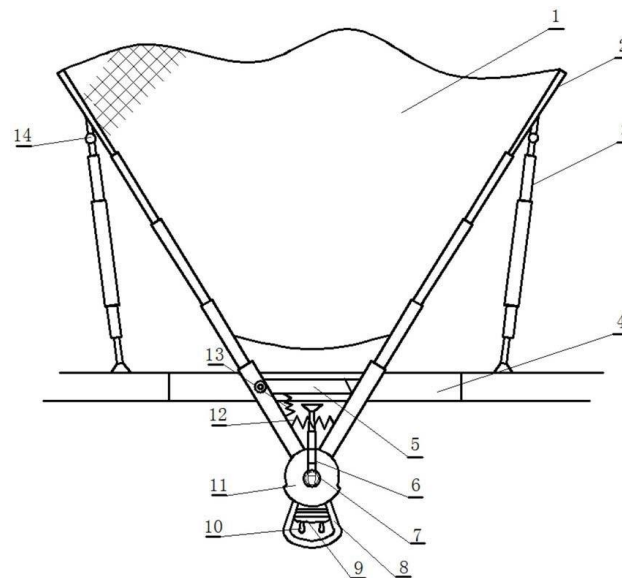
33: CN 31: 201811375180.6 32: 2018-11-19

54: DEVICE FOR RAPID RESCUE FROM HIGH-RISE BUILDING

00: -

A device for rapid rescue from a high-rise building is powered by a hydraulic cylinder, support bars outside the window are in hinge connection with the bottom end of the hydraulic cylinder, and the support bars outside the window connect and support a whole life net outside the window; one end, close to the hydraulic cylinder, of the support bar outside the window is fixed by a transverse support when the support bars outside the window on two sides expand, and one end, extending outside the window;

supporting legs are fixed at the tail ends of bar bodies of the external wall support bars; the top of the hydraulic cylinder is connected with the upper support inside the window, and the upper support inside the window is adsorbed on and fixed to an inner-side wall body just above the window by utilizing a supporting leg.



21: 2019/07481. 22: 2019/11/12. 43: 2023/01/24

51: A61K; C07K; A61P

71: NOVARTIS AG

72: DIAZ-DE-DURANA, Yaiza, DIDONATO, Michael, FILIPPI, Christophe, MEEUSEN, Shelly, SPRAGGON, Glen

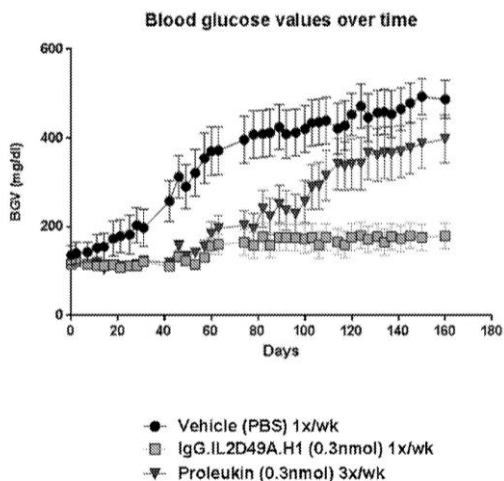
33: US 31: 62/510,514 32: 2017-05-24

54: ANTIBODY-CYTOKINE ENGRAFTED PROTEINS AND METHODS OF USE FOR IMMUNE RELATED DISORDERS

00: -

The present disclosure provides antibody cytokine engrafted proteins that bind to and stimulate intracellular signaling through a high affinity interleukin receptor. The antibody cytokine engrafted proteins find use in enhancing anti-inflammatory cell responses, and reducing pro-inflammatory effects in the treatment, amelioration and prevention of immune related disorders such as Type 1 Diabetes.

IgG.IL2D49A.H1 prevents Type 1 Diabetes development in NOD mice



21: 2019/07637. 22: 2019/11/19. 43: 2023/01/24
 51: A01N; C07K
 71: MERIAL, INC.
 72: DE FALLOIS, Loic, Le Hir, PACOFSKY, Gregory, LONG, Alan, MENG, Charles, LEE, Hyoung, Ik, OGBU, Cyprian, O.
 33: US 31: 62/163,997 32: 2015-05-20
54: ANTHELMINTIC DEPSIPEPTIDE COMPOUNDS

00: -
 The present invention provides cyclic depsipeptide compounds of formula (I) and compositions comprising the compounds that are effective against parasites that harm animals. The compounds and compositions may be used for combating parasites in or on mammals and birds. The invention also provides for an improved method for eradicating, controlling and preventing parasite infestation in birds and mammals.

21: 2019/07778. 22: 2019/11/25. 43: 2023/01/26
 51: B21D; B23K; C21D; C22C
 71: ARCELORMITTAL
 72: Martin BEAUVAIS (French Citizen), Alice DUMONT (French Citizen), Alexandre GIBOT (French Citizen), Astrid PERLADE (French Citizen), Kangying ZHU (Chinese Citizen)
 33: IB 31: PCT/IB2017/053282 32: 2017-06-02
54: STEEL SHEET FOR MANUFACTURING PRESS HARDENED PARTS, PRESS HARDENED PART HAVING A COMBINATION OF HIGH STRENGTH AND CRASH DUCTILITY, AND MANUFACTURING METHODS THEREOF
 00: -

A steel sheet for the manufacture of a press hardened part, having a composition comprising: 0.15% ≤ C ≤ 0.22%, 3.5% ≤ Mn < 4.2%, 0.001 % ≤ Si ≤ 1.5%, 0.020% ≤ Al ≤ 0.9%, 0.001 % ≤ Cr ≤ 1 %, 0.001 % ≤ Mo ≤ 0.3%, 0.001 % ≤ Ti ≤ 0.040%, 0.0003% ≤ B ≤ 0.004%, 0.001 % ≤ Nb ≤ 0.060%, 0.001 % ≤ N ≤ 0.009%, 0.0005% ≤ S ≤ 0.003%, 0.001 % ≤ P ≤ 0.020%, the microstructure consisting of less than 50% ferrite, 1 % to 20% retained austenite, cementite, such that the surface density of cementite particles larger than 60 nm is lower than 10⁷/mm², the complement consisting of bainite and/or martensite, the retained austenite having an average Mn content of at least 1.1 *Mn%. Press-hardened steel part obtained by hot forming the steel sheet, and manufacturing methods thereof.



21: 2019/08464. 22: 2019/12/19. 43: 2023/02/06
 51: B67D
 71: VAN NIEKERK, PIETER DANIEL FRANCOIS
 72: VAN NIEKERK, PIETER DANIEL FRANCOIS
 33: ZA 31: 2019/00628 32: 2019-01-30
54: LIQUID DISPENSING DEVICE

00: -
 The present invention relates to a liquid dispensing device and, more particularly, the present invention relates to a device for dispensing a liquid into a large number of liquid receptacles. The device includes a reservoir, plurality of outlets for dispensing the liquid, a regulating means, supporting means and moving means.

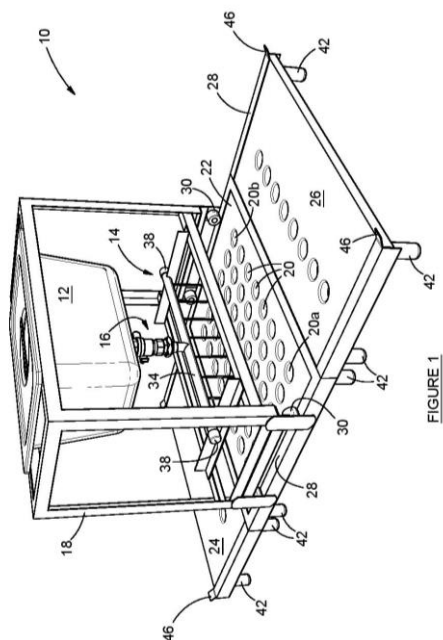
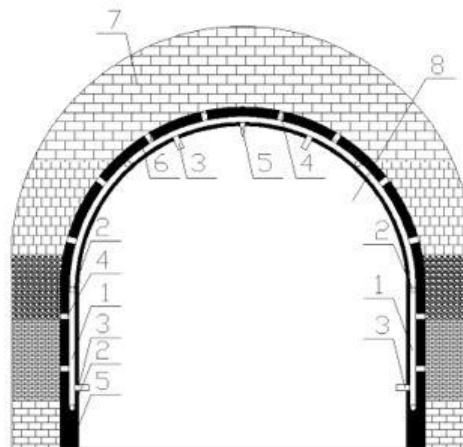


FIGURE 1

21: 2020/00058. 22: 2020/01/06. 43: 2023/01/26
 51: E21D
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: LIU, Zenghui, SHI, Jinwei, LI, Yingming, ZENG, Dongyan, WANG, Shuaishuai
 33: CN 31: 201910870210.9 32: 2019-09-16
54: ROADWAY SUPPORT STRUCTURE WITH EMBEDDED GROUTING PIPE NETWORK FOR HEAVILY STRESSED LAYERED UNLOADING FRACTURED ROCKS

00: -
 The present invention discloses a roadway support structure with an embedded grouting pipe network for sprayed concrete of heavily stressed layered unloading fractured rocks, including a grouting pipe network, a sprayed-concrete mass control device, and a support structure stress monitoring device. The grouting pipe network includes a support steel pipe and a connection steel pipe; the support steel pipe and the connection steel pipe are communicated with each other, and the support steel pipe is in threaded connection with the connection steel pipe; pipe walls of both the support steel pipe and the connection steel pipe are provided with holes as slurry seepage holes for grouting; a spray nozzle is arranged between the grouting pipe network and a surface of a roadway surrounding rock; a grouting pipe orifice of the grouting pipe

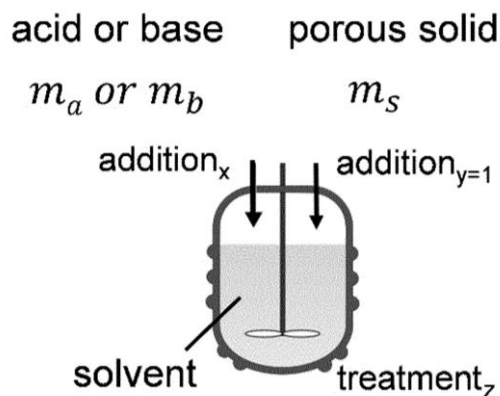
network is arranged outside a sprayed concrete layer



21: 2020/01141. 22: 2020/02/24. 43: 2023/01/04
 51: C01B
 71: KATHOLIEKE UNIVERSITEIT LEUVEN
 72: VERBOEKEND, Danny, SELS, Bert F., D'HALLUIN, Martin A.
 33: GB 31: 1712238.3 32: 2017-07-31
 33: GB 31: 1713838.9 32: 2017-08-29
 33: GB 31: 1714001.3 32: 2017-08-31
 33: GB 31: 1714025.2 32: 2017-09-01

54: ZEOLITE AFTER TREATMENT METHOD

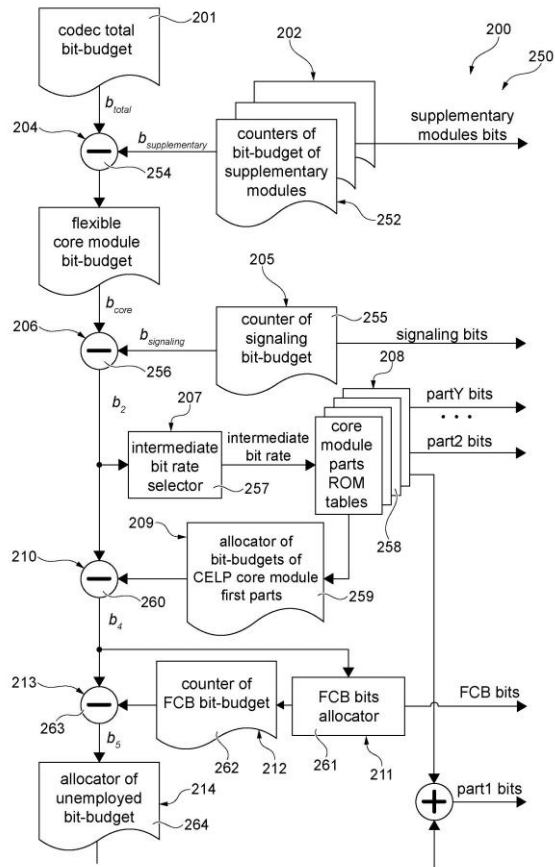
00: -
 This invention relates generally to a process to perform controlled alkaline and acid treatments on inorganic porous solids, yielding superior physico-chemical and catalytic properties, whereas the particle and crystal size is not negatively influenced. Accordingly, the solids obtained in this fashion can be easily recovered from the alkaline solution. The latter being problematic in the state of the art.



21: 2020/01507. 22: 2020/03/10. 43: 2022/11/25
 51: G01L; G10L
 71: VoiceAge Corporation
 72: EKSLER, Vaclav
 33: US 31: 62/560,724 32: 2017-09-20

54: METHOD AND DEVICE FOR ALLOCATING A BIT-BUDGET BETWEEN SUB-FRAMES IN A CELP CODEC

00: -
 A method and device for allocating a bit-budget to a plurality of first parts and to a second part of a CELP core module of (a) an encoder for encoding a sound signal or (b) a decoder for decoding the sound signal. In a frame of the sound signal comprising sub-frames, respective bit-budgets are allocated to the first CELP core module parts and a bit-budget remaining after allocating to the first CELP core module parts their respective bit-budgets is allocated to the second CELP core module part. According to an alternative, the second CELP core module part bit-budget is distributed between the sub-frames of the frame and a larger bit-budget is allocated to at least one of the sub-frames of the frame. The at least one sub-frame may be the first sub-frame of the frame, at least one sub-frame following the first sub-frame, or the sub-frame using a glottal-impulse-shape codebook.

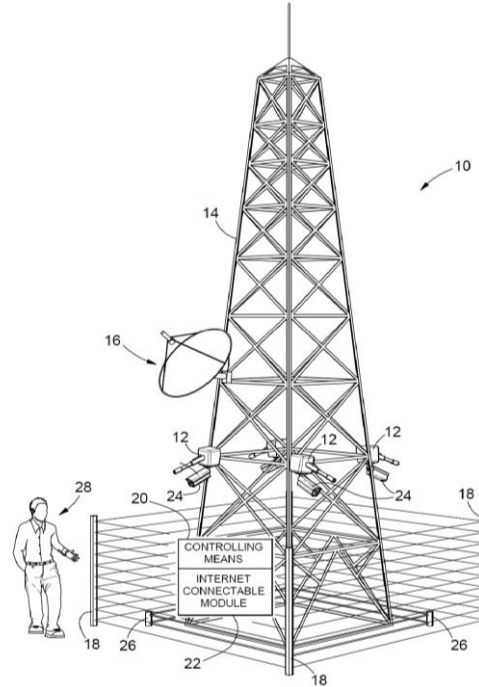
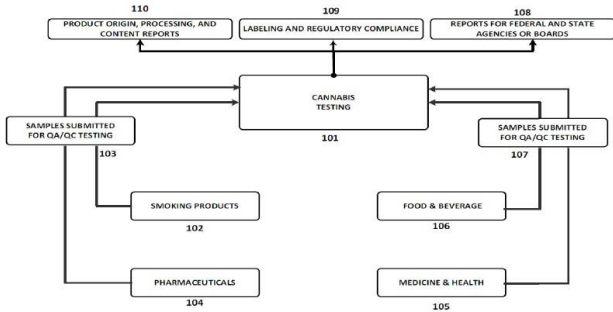


21: 2020/01552. 22: 2020/03/04. 43: 2023/02/13
 51: G01N
 71: Vyripharm Enterprises, LLC
 72: Jerry L. BRYANT, Jr, Tori STRONG
 33: US 31: 16/291,943 32: 2019-03-04

54: SYSTEMS AND METHODS FOR INTEGRATED AND COMPREHENSIVE MANAGEMENT OF CANNABIS PRODUCTS

00: -
 Embodiments of the disclosure provide a method of managing information related to a cannabis product across a distributed validated system. The method includes enabling an authorized user to create a plurality of data containing genetic profile of a seed, plant growth conditions of a crop, and manufacturing information used for production of the cannabis product, and measurements of quality and quantity of desired components and undesired components in the cannabis product. The method includes associating the plurality of data to a record which is identified by a unique identifier. The method includes storing the record into a memory for access by one or more of a plurality of authorized users using the

unique identifier. The method includes analyzing the cannabis product to determine the quality and quantity of desired components and undesired components in the cannabis product. The method includes determining concentration of cannabinoids in the cannabis product.

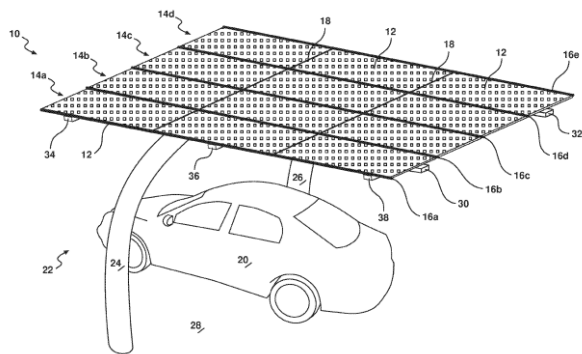


21: 2020/01559. 22: 2020/03/12. 43: 2022/03/14
 51: F41G
 71: REYNOLDS, CHRIS
 72: REYNOLDS, CHRIS
 33: ZA 31: 2019/02668 32: 2019-04-29
54: A SECURITY SYSTEM
 00: -

The present invention relates to a security system and, more particularly, a security system with a remotely controlled security device in the form of a sub-lethal weapon, which is controlled remotely by live access through a remote monitoring site. A user at a remote monitoring site is given control of the sub-lethal weapon when an access token is generated following triggering of an alarm system which forms a component of the security system

21: 2020/01590. 22: 2020/03/13. 43: 2023/02/13
 51: H02S; F24S
 71: SHADEPOWER GROUP PTY LTD
 72: FERRIS, Andrew, KOHLER, Howard, KOHLER, Myles
 33: AU 31: 2017903516 32: 2017-08-31
54: SOLAR ROOF STRUCTURE
 00: -

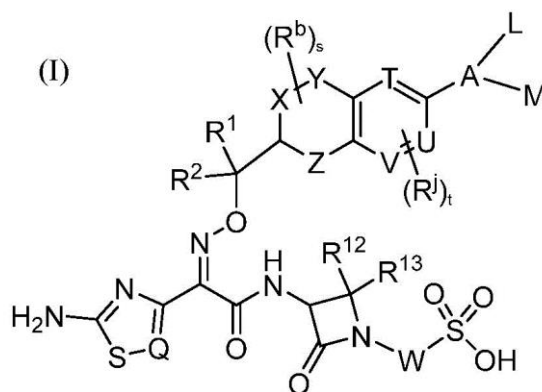
There is proposed an apparatus used for holding solar panels and a roof structure, including an elongate rail member, an elongate capping member movably connected to the elongate rail member, a plurality of interconnected adjustment devices, and a drive mechanism. The adjustment devices are spaced apart along a length of the elongate rail member and are configured to move the elongate capping member relative to the elongate rail member. The drive mechanism is configured to control the movement of the adjustment devices to affect the clamping of the solar array panels between the elongate capping member and the elongate rail member. The drive mechanism is adjustable from a single location along the elongate rail member, such as from an end.



21: 2020/01721. 22: 2020/03/18. 43: 2022/11/25
 51: A61K
 71: Merck Sharp & Dohme LLC
 72: BIFTU, Tesfaye, HUANG, Xianhai, LIU, Weiguo, PAN, Weidong, PARK, Min, PASTERNAK, Alexander, SUN, Wanying, TANG, Haifeng, ZANG, Yi

33: US 31: 62/566,779 32: 2017-10-02
54: CHROMANE MONOBACTAM COMPOUNDS FOR THE TREATMENT OF BACTERIAL INFECTIONS

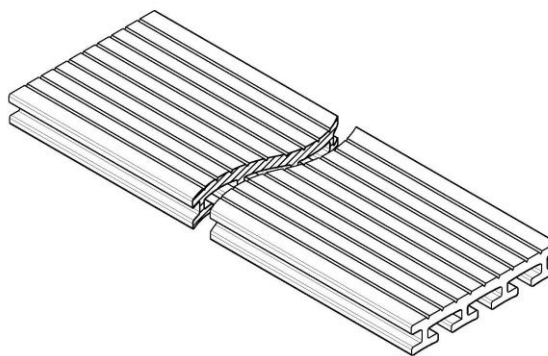
00: -
 The present invention relates to monobactam compounds of Formula (I) and pharmaceutically acceptable salts thereof. The present invention also relates to compositions which comprise a monobactam compound of the invention or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier. The invention further relates to methods for treating a bacterial infection comprising administering to the patient a therapeutically effective amount of a compound of the invention, either alone or in combination with a therapeutically effective amount of a second beta-lactam antibiotic.



21: 2020/01845. 22: 2020/03/20. 43: 2023/02/01
 51: B62D; E04B; E04F
 71: CHAPMAN, Wesley Raymond
 72: CHAPMAN, Wesley Raymond
 33: ZA 31: 2017/01869 32: 2017-09-06

54: DECK BOARD

00: -
 This invention relates to a deck board (1) and more particularly, to a reduced material deck board (1). In accordance with this invention there is provided a deck board (1) comprising an operatively upper board section (4) having at least one operatively downwardly depending support leg (5) terminating in at least one flange (7), an underside of the flange (7) having a concave surface.

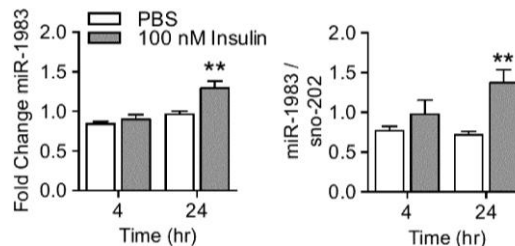
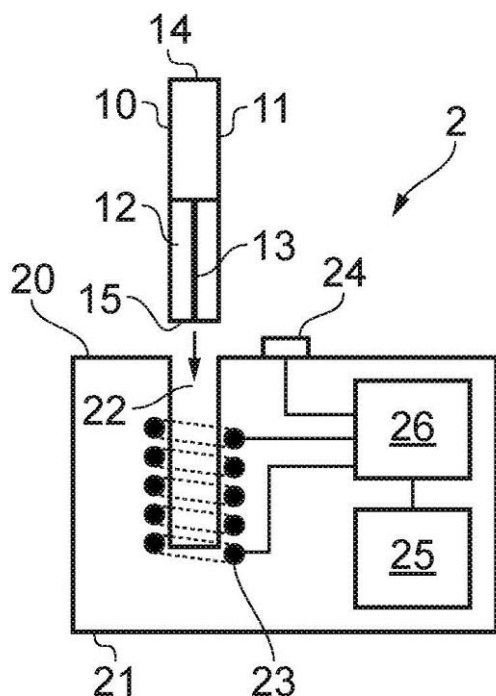


21: 2020/02261. 22: 2020/05/04. 43: 2022/11/25
 51: A24F; A61M
 71: Nicoventures Trading Limited
 72: HEPWORTH, Richard, MOLONEY, Patrick, ABI AOUN, Walid
 33: GB 31: 1716732.1 32: 2017-10-12

54: VAPOUR PROVISION SYSTEMS

00: -
 A vapour provision system comprising an inhaler component and a base unit, wherein the inhaler

component comprises a thermal store; and the base unit comprises: a receiving zone for receiving the inhaler component; and a source of energy for heating the thermal store in the inhaler component when the inhaler component is located in the receiving zone such that heat from the heated thermal store is used to vaporise at least a portion of a vapour precursor material to form a vapour for inhalation by a user when the inhaler component is removed from the receiving zone.



21: 2020/03079. 22: 2020/05/25. 43: 2022/11/25
 51: A61K
 71: Zambon S.p.A.
 72: MORETTO, Alberto, DE LAZZARI, Alessandra, MAZZARA, Fabiana
 33: IT 31: 102017000124545 32: 2017-11-02
54: PHARMACEUTICAL COMPOSITIONS COMPRISING SAFINAMIDE

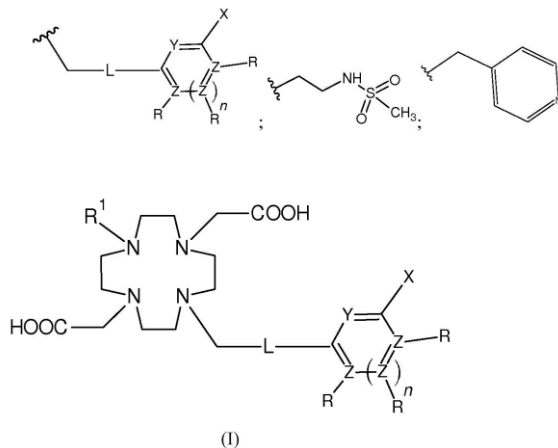
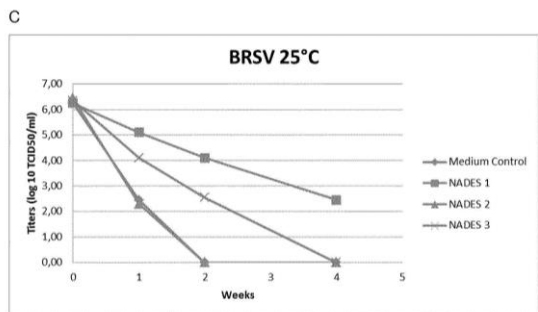
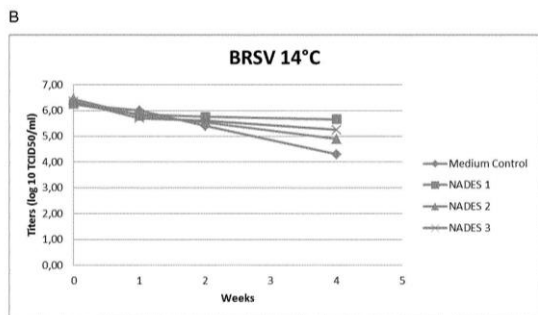
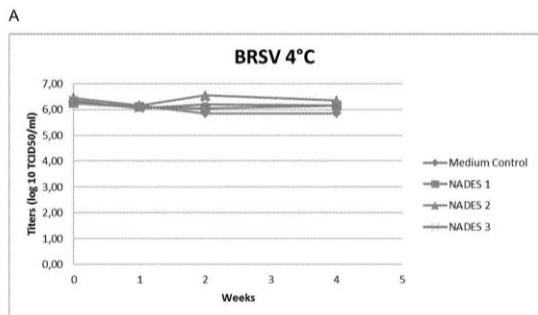
00: -
 The present invention relates to pharmaceutical compositions comprising safinamide and, more particularly, to taste-masked particles comprising said active ingredient or pharmaceutically acceptable salts thereof, oral dosage forms that include said particles and a process for preparing them.

21: 2020/03155. 22: 2020/05/27. 43: 2022/11/25
 51: A61K; A61P; C07K
 71: Intervet International B.V.
 72: VERMEIJ, Paul, KETS, Edwin, DIRKS, Chris, PIEST, Martin
 33: EP(NL) 31: 17210395.4 32: 2017-12-22
54: LIQUID VACCINES OF LIVE ENVELOPED VIRUSES

00: -
 The present invention describes a liquid vaccine composition of a live enveloped virus and a pharmaceutically acceptable carrier, whereby the carrier is a natural deep-eutectic solvent (NADES), and the vaccine has a water activity of less than about 0.8. The NADES provides a stabilisation of the sensitive virus for prolonged time and at ambient temperature. In general, the liquid vaccine compositions according to the invention, in different compositions for the various enveloped viruses, show remarkable capabilities of stabilisation. This overcomes the need for lyophilisation, a great economic benefit. Also the liquid nature of the vaccines facilitates administration to human or animal targets.

21: 2020/02445. 22: 2020/05/04. 43: 2023/02/09
 51: A61K; C12N; C12Q; A61P
 71: THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO
 72: BELSHAM, Denise, CHALMERS, Jennifer
 33: US 31: 62/550,233 32: 2017-08-25
54: COMPOSITIONS AND METHODS FOR DETECTING AND TREATING INSULIN RESISTANCE

00: -
 A miR-1983 inhibitor comprising an anti-miR-1983 oligonucleotide that is complementary to at least part of CTCACCTGGAGCATGTTTTCT (SEQ ID NO: 1), the part comprising at least nucleotides 2 to 8 of CTCACCTGGAGCATGTTTTCT (SEQ ID NO: 1).



21: 2020/03649. 22: 2020/06/17. 43: 2023/01/25
51: F03D

71: WINTERGERST FISCH, Luis

72: WINTERGERST FISCH, Luis

54: TRANSPORTABLE GRAVITATIONAL SYSTEM AND METHOD FOR GENERATING CLEAN ELECTRICAL ENERGY

00: -

The invention relates to a transportable gravitational system and method for generating clean electrical energy, which is an electromechanical system that uses a trust-based drive system, a system for transmitting power by means of sprockets and pulleys, using toothed bands and chains connected to an electrical synchronous alternator. The described system uses as support systems a vacuum pump that generates a volume of low-pressure air, and speed-regulating motors, as well as electric control systems and electronic processors for the integral control of the generation system. The transportable gravitational system uses the thrust of the air in metal recipients that are immersed in a water column and hung by a drive chain that uses mechanical force, using torque multiplying sprockets and a mechanical transmission system that increases the revolutions of the transportable gravitational system to achieve sufficient drive speed, which excites the arrow of the synchronous alternator.

21: 2020/03208. 22: 2020/05/28. 43: 2022/11/25
51: B01D; C07D

71: Ustav organické chemie a biochemie AV CR, v.v.i.

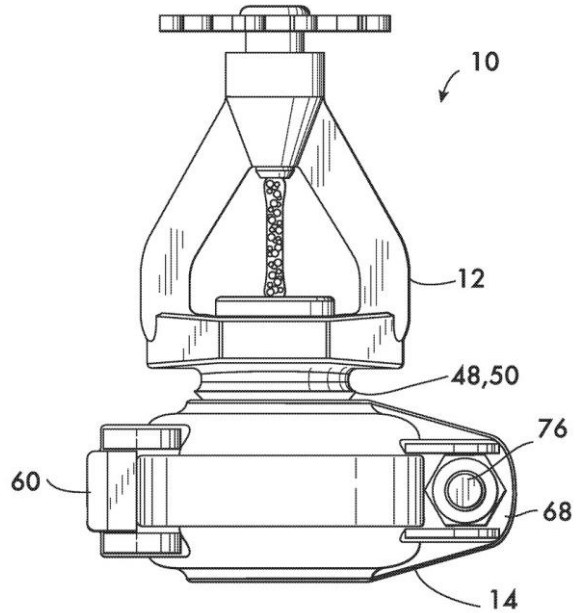
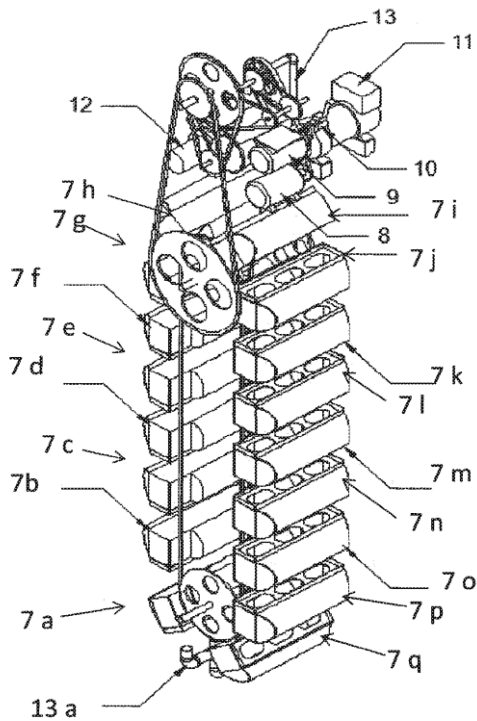
72: POLASEK, Miloslav

33: EP(CZ) 31: 17204972.8 32: 2017-12-01

54: COMPOUNDS FOR SEPARATION OF RARE EARTH ELEMENTS AND S-, P-, D- METALS, METHOD OF SEPARATION, AND USE THEREOF

00: -

The present invention relates to compounds of general formula (I) for chromatographic separation of rare earth elements and/or s-, p-, d- metals, as well as to the method of the separation of rare earth elements.



21: 2020/03731. 22: 2020/06/19. 43: 2023/01/19
 51: A62C; B05B
 71: VICTAULIC COMPANY
 72: BANCROFT, PHILIP WAYNE, WAKE, DANIEL,
 SALEH, AHMED, BOWMAN, MATTHEW A.,
 HANEY, CRAIG

33: US 31: 62/448,105 32: 2017-01-19
 33: US 31: 62/520,668 32: 2017-06-16

**54: DIRECT COUPLING COMPATIBLE
 SPRINKLER**

00: -
 A combination fire suppression sprinkler and coupling is provided in a pre-assembled state for rapid installation into a piping network. Coupling segments are pivotably hinged and an adjustable attachment assembly opposite the hinge secures the segments to one another. In the pre-assembled state the segments are held at a separation angle sufficient to permit insertion of a pipe element into the coupling without disassembling the coupling.

21: 2020/04254. 22: 2020/07/10. 43: 2022/11/25
 51: H04L

71: nChain Holdings Limited
 72: TREVETHAN, Thomas
 33: GB 31: 1720753.1 32: 2017-12-13

**54: COMPUTER-IMPLEMENTED SYSTEMS AND
 METHODS FOR PERFORMING
 COMPUTATIONAL TASKS ACROSS A GROUP
 OPERATING IN A TRUST-LESS OR DEALER-
 FREE MANNER**

00: -
 The invention relates to secure determination of a solution (S) to a computational task by a dealer-free threshold signature group. Access to a resource or reward is offered in exchange for the solution. The method enables individuals in said group to work together in a trust-less, or dealer-free manner. To achieve this, individuals generate their own key pair and use their public key to establish with the group an initial shared public key that they can all use, in parallel, to find a solution to the task. Their own private keys remain secret and, therefore, the collaboration is trust-less, and operates efficiently, because a verified shared public key is created using the initial shared public key that was used when a solution is found and verified. The resource or reward can be secured by the verified shared public key. Because the private keys of each participant were used in the determination of the initial shared public key that lead to the solution then

participants must then collaborate to unlock the resource or reward because the corresponding shared private key can only be generated by all participants or a pre-agreed threshold of participants. Efficiency is achievable by using an initial shared public key and calculating with the group a verified shared public key after the solution has been found. The invention enables the task to be trust-less by using the homomorphic properties of elliptic curve cryptography when applying Shamir's secret sharing scheme. The inventive concept resides in the secure, trust-less and efficient way in which a group can collaborate. The invention can be agnostic to the task.

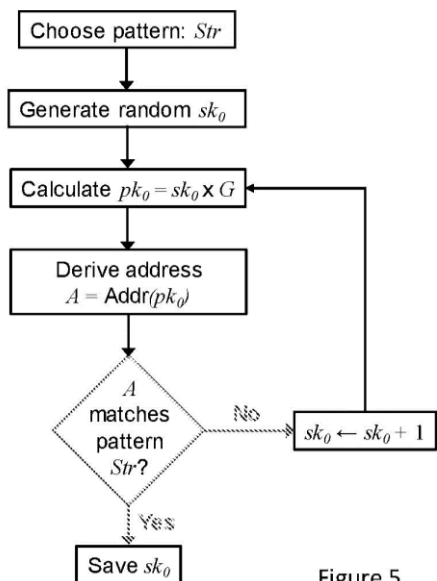
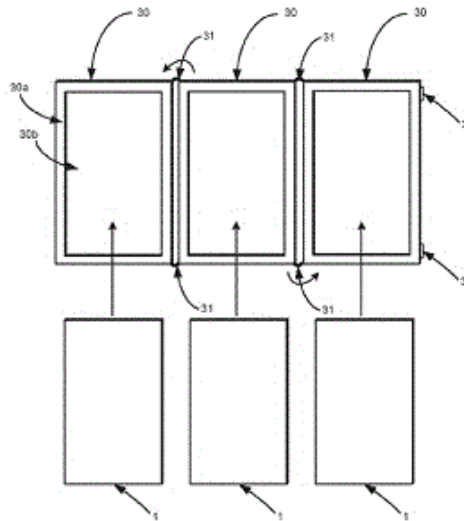


Figure 5

recharge the battery of the display units when the display units are received and held within the mount unit, a first wireless transceiver for communication with the wireless transceiver of each of the display units, and a communication arrangement for communication over a communications network, wherein the display units are removeable from within the mount unit for use separated from the mount unit.



21: 2020/04466. 22: 2020/07/20. 43: 2022/12/01
 51: C07C; C07D
 71: FMC CORPORATION
 72: WUQIANG TU, BOLIN FAN, GUANGHUI LI
 33: US 31: 62/618,692 32: 2018-01-18
54: PROCESSES FOR THE SYNTHESIS OF SULFENTRAZONE

00: -
 Disclosed are processes for the synthesis of sulfentrazone, which provide a high conversion of sulfentrazone amine and high yield of the final sulfentrazone product.

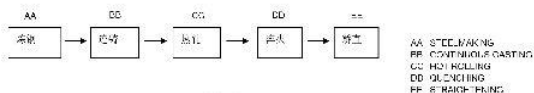
21: 2020/04464. 22: 2020/07/20. 43: 2022/12/14
 51: G06F; H02J
 71: MARIA FRANCISCA JONES
 72: MARIA FRANCISCA JONES
 33: GB 31: 1722249.8 32: 2017-12-29
54: DISPLAY APPARATUS

00: -
 Display apparatus comprises a plurality of display units each hingedly linked together to form a foldable display structure, each display unit comprising a display screen with user input capability, a battery, and a wireless transceiver; and a mount unit adapted to receive and hold the display units when folded within the mount unit, the mount unit further comprising a power arrangement configured to

21: 2020/04537. 22: 2020/07/22. 43: 2023/01/19
 51: C22C
 71: NANJING IRON & STEEL CO., LTD.
 72: YAN, Qiangjun, JIANG, Zaiwei, YANG, Liu, JIN, Jianfeng, NING, Bo, LIU, Tong, WANG, Sicong
 33: CN 31: 201711423651.1 32: 2017-12-25
54: METHOD FOR FABRICATING LOW-COST, SHORT-PRODUCTION-CYCLE WEAR-RESISTANT STEEL

00: -

The present invention provides a method for fabricating a low-cost, short-production-cycle wear-resistant steel; the composition of the wear-resistant steel, by mass percentage, is: C: 0.10-0.20%; Si: 0.20-0.30%; Mn: 1.10-1.50%; Cr: 0.15-0.25%; Mo: 0.10-0.30%; Nb: 0.01-0.02%; Ti: 0.01-0.03%; B: 0.0015-0.0020%; S: ≤0.0012%; P: ≤0.015%; O: ≤0.01%; N: ≤0.005%; the remainder is Fe. After the cast strand is hot-rolled, the steel plate is quenched at 920°C, then directly straightened with no need for thermal tempering; it is thus possible to obtain a steel plate having a lower residual stress value of NM 400, which is comparable to the residual stress value of a steel plate after using quenching, tempering, and straightening processes. The present invention uses quenching and direct straightening processes to produce a wear-resistant steel NM 400 plate; no intermediate tempering is required, thus reducing the process steps, decreasing cost, and shortening the production cycle.

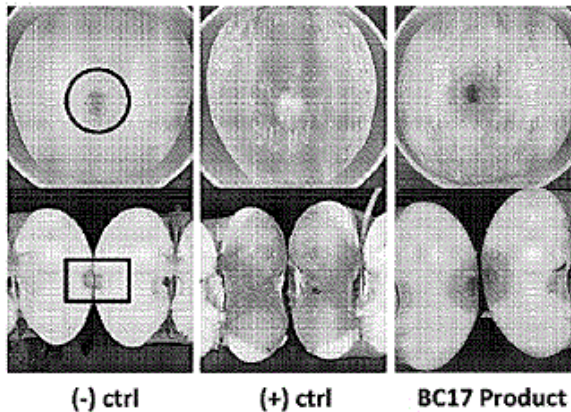


21: 2020/04552. 22: 2020/07/22. 43: 2022/12/01
51: A01H; A01N; A01P
71: BOOST BIOMES, INC.

72: ROBERT MCBRIDE, KAREN HUNT, JAMIE BACHER, VERONICA GARCIA
33: US 31: 62/629,525 32: 2018-02-12

54: MICROBIAL COMPOSITIONS FOR THE PREVENTION OR REDUCTION OF GROWTH OF FUNGAL PATHOGENS ON PLANTS

00: -
Disclosed herein are biocontrol compositions against plant fungal pathogens and methods of use thereof for the prevention or reduction of crop loss or food spoilage. The biocontrol composition can comprise at least one microbe with anti-fungal activity or a secondary metabolite of the at least one microbe. The methods can comprise application of the biocontrol composition to a plant, a seed, or a produce thereof or to a packaging material used to transport or store the produce.



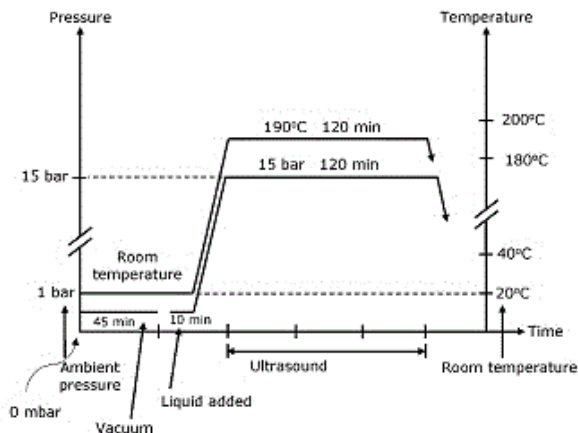
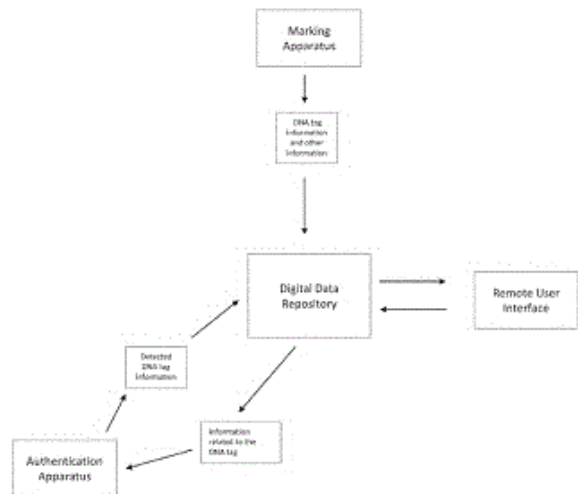
21: 2020/04603. 22: 2020/07/24. 43: 2022/12/14
51: C07H; C12N; C12Q; C40B
71: APDN (B.V.I.) INC.

72: MICHAEL E HOGAN, GORDON HOPE, JAMES A HAYWARD, JOHN SHERMAN, THOMAS ACKERMAN, BRIAN VISCOUNT

33: US 31: 62/625,702 32: 2018-02-02
33: US 31: 62/700,021 32: 2018-07-18

54: SYSTEMS AND METHODS FOR TRACKING THE ORIGIN OF CANNABIS PRODUCTS AND CANNABIS DERIVATIVE PRODUCTS

00: -
The invention provides for a system to track the origin of cannabis products and cannabis derivative products without the need for packaging or labeling through the use of nucleic acid tags. The invention further provides for a method of tracking the origin of cannabis products and cannabis derivative products via the application of nucleic acid tags to cannabis plants.



21: 2020/04638. 22: 2020/07/27. 43: 2022/12/01
 51: C07D
 71: VANDERBILT UNIVERSITY
 72: CRAIG W LINDSLEY, P. JEFFREY CONN,
 DARREN W ENGERS, JULIE L ENGERS, AARON
 M BENDER

33: US 31: 62/625,656 32: 2018-02-02
**54: ANTAGONISTS OF THE MUSCARINIC
 ACETYLCHOLINE RECEPTOR M4**

00: -
 Disclosed herein are 3-azabicyclo[3.1.0]hexan-6-amine compounds, which may be useful as antagonists of the muscarinic acetylcholine receptor M₄ (mAChRM₄). Also disclosed herein are methods of making the compounds, pharmaceutical compositions comprising the compounds, and methods of treating disorders using the compounds and compositions.

21: 2020/04867. 22: 2020/08/05. 43: 2022/12/02
 51: B27K
 71: DANISH WOOD TECHNOLOGY A/S
 72: KELL THOMAS
 33: DK 31: PA 2018 00137 32: 2018-03-28

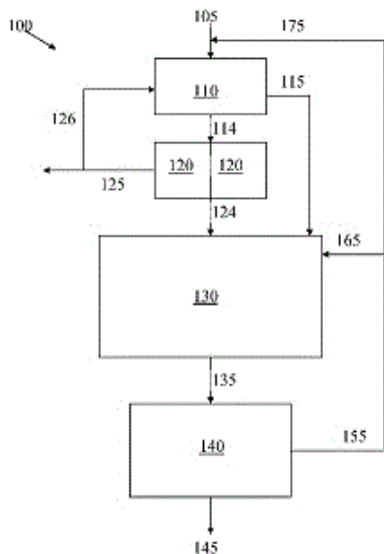
54: TREATMENT OF WOODEN MATERIALS

00: -
 The present invention relates to improved methods of treating wooden materials. By the method of the invention, the wooden material is subjected to vacuum, overpressure and increased temperature, and subjected to ultrasound. Ultrasound is applied while the wooden material is covered by a liquid at a suitable overpressure and at a suitable temperature for a suitable period of time.

21: 2020/04886. 22: 2020/08/06. 43: 2022/12/02
 51: C02F
 71: EVOQUA WATER TECHNOLOGIES LLC
 72: NATHAN ANTONNEAU
 33: US 31: 62/641,721 32: 2018-03-12

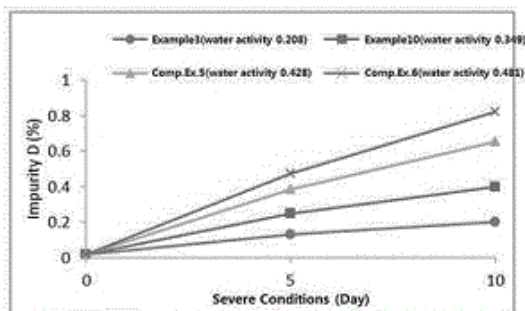
**54: DISSOLVED AIR FLOTATION SYSTEM AND
 METHODS FOR BIOLOGICAL NUTRIENT
 REMOVAL**

00: -
 A wastewater treatment system including a contact tank, a dissolved air flotation unit, a fermentation unit, and a biological treatment unit is disclosed. A method of retrofitting a wastewater treatment system by arranging the wastewater treatment system such that floated biosolids are fermented in an anerobic environment and fluidly connecting the biological treatment unit to receive at least a portion of the fermented solids is also disclosed. The method optionally includes providing a fermentation unit and fluidly connecting the fermentation unit to a biological treatment unit. A method of treating wastewater including combining the wastewater with activated sludge, floating biosolids from the activated wastewater, fermenting the floated biosolids, and biologically treating the effluent with the fermented solids is also disclosed. A method of facilitating delivery of soluble organic carbon to a biological treatment unit is also disclosed.



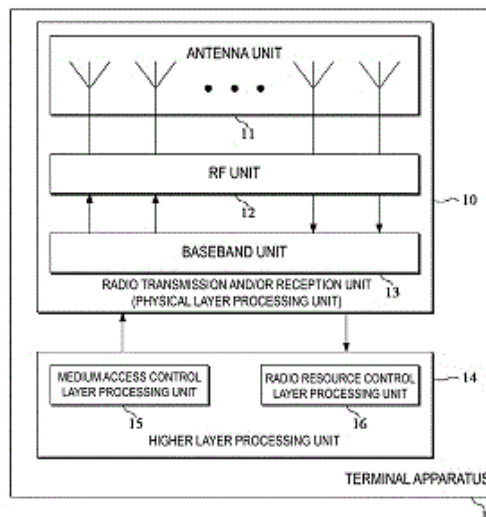
21: 2020/04982. 22: 2020/08/12. 43: 2022/12/02
 51: A61K
 71: HANMI PHARM. CO., LTD.
 72: HYUK JUN CHO, JEONG HYEON KIM, HO TAEK IM, YONG IL KIM
 33: KR 31: 10-2018-0031536 32: 2018-03-19
54: PHARMACEUTICAL COMBINATION PREPARATION COMPRISING EZETIMIBE AND ROSUVASTATIN

00: -
 The present invention relates to a pharmaceutical combination preparation comprising ezetimibe and rosuvastatin. The pharmaceutical combination preparation has a water activity of 0.40 or less. The pharmaceutical combination preparation can further comprise one or more ingredients selected the group consisting of amlodipine, losartan, and combinations thereof, and the ezetimibe is present in a physically separated state from rosuvastatin, amlodipine, and losartan, respectively.



21: 2020/04986. 22: 2020/08/12. 43: 2022/12/02
 51: H04L; H04W
 71: SHARP KABUSHIKI KAISHA, FG INNOVATION COMPANY LIMITED
 72: SHOUICHI SUZUKI, TOMOKI YOSHIMURA, WATARU OHUCHI, LIQING LIU, TAEWOO LEE
 33: JP 31: 2018-020774 32: 2018-02-08
54: TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION METHOD

00: -
 Efficient downlink transmission is implemented. A terminal apparatus includes: a receiver configured to receive a sequence of bits in a physical downlink control channel, wherein the sequence of bits is scrambled with a scrambling sequence initialized by C_{init} , the C_{init} is given based at least on N_{ID} and N_{RNTI} , the N_{ID} is given based at least on a higher layer parameter Control-scrambling-Identity in a case that the higher layer parameter Control-scrambling-Identity is configured and the N_{RNTI} is given based at least on a Cell-Radio Network Temporary Identifier (C-RNTI), and the N_{ID} is given based at least on a physical layer cell identity in a case that the higher layer parameter Control-scrambling-Identity is configured and the N_{RNTI} is not given based on the C-RNTI.



21: 2020/05050. 22: 2020/08/14. 43: 2022/12/05
 51: A61K; C07K
 71: MEAT & LIVESTOCK AUSTRALIA LIMITED, THE STATE OF QUEENSLAND
 72: ALICJA TABOR, MATTHEW BELLGARD, MANUEL RODRIGUEZ VALLE
54: POLYPEPTIDE, COMPOSITIONS AND USES THEREOF

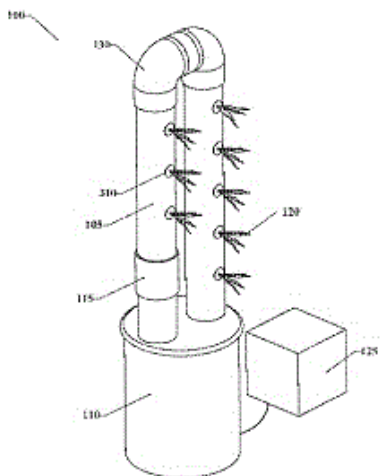
00: -

The present invention relates to tick polypeptides and compositions comprising the same, which are useful for treatment or prophylaxis of tick infestation in a subject.

21: 2020/05084. 22: 2020/08/17. 43: 2022/12/05
 51: A01G
 71: ISAAC WILCOX
 72: ISAAC WILCOX
 33: US 31: 62/709,397 32: 2018-01-18

54: MODULAR AEROPONIC GARDEN SYSTEM

00: -
 The present invention includes a modular aeroponic garden system for growing plants. Through circulating an atomized fluid, nutrients and air through a conduit circuit the modular aeroponic garden system provides a closed-loop aeroponic system for growing plants. The closed-loop configuration allows the user to better control the internal environmental conditions of the modular aeroponic garden system, therein facilitating improved plant growth. Modular sections of conduit and modular joints allow the user to customize the aeroponic garden system to unique spaces and grow a variable quantity of plants. In doing so, the closed-loop system reduces time spent on maintenance, cleaning and monitoring of the plants grown within the modular aeroponic garden system and the system itself while better conserving resources such as water, electricity, and nutrients than comparable open-loop systems.



21: 2020/05114. 22: 2020/08/18. 43: 2022/12/05
 51: C02F

71: EVOQUA WATER TECHNOLOGIES LLC
 72: ARGUN O ERDOGAN, MICHAEL L DOYLE
 33: US 31: 62/642,632 32: 2018-03-14
54: HIGH SOLIDS DISSOLVED AIR FLOTATION SYSTEM AND METHODS

00: -
 A wastewater treatment system including an aeration unit, a contact tank, a dissolved air flotation unit, and a biological treatment unit is disclosed. A method of retrofitting a wastewater treatment system by providing an aeration unit and fluidly connecting the aeration unit to the wastewater treatment system is also disclosed. A method of treating wastewater including aerating wastewater with oxygen, combining the aerated wastewater with activated sludge, floating biosolids from the activated wastewater, and biologically treating the effluent is also disclosed. The method optionally includes combining the floated biosolids with the aerated wastewater and/or activated wastewater. A method of facilitating treatment of high solids content wastewater is also disclosed.

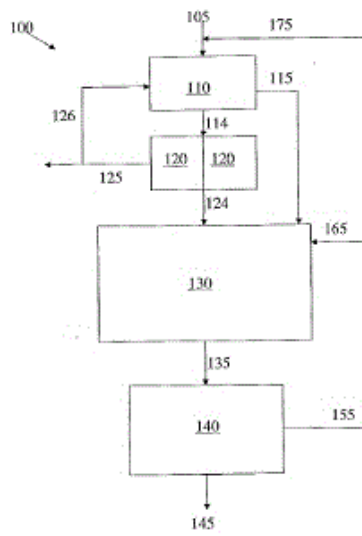


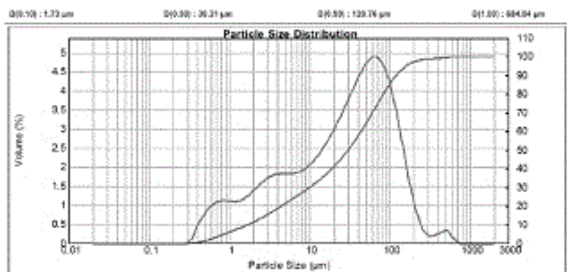
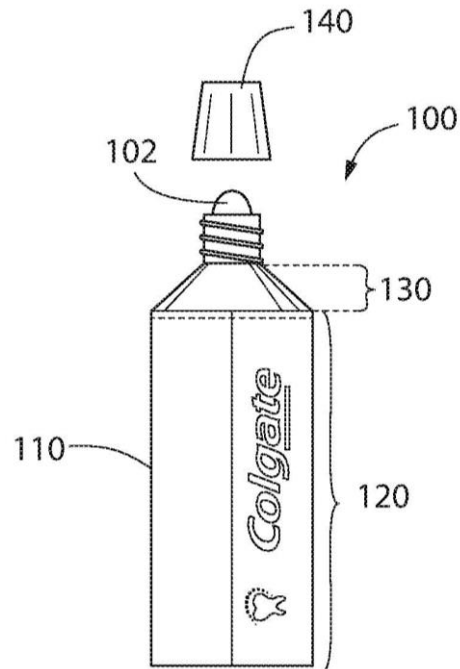
FIG. 1

21: 2020/05150. 22: 2020/08/19. 43: 2022/12/05
 51: C08B; C08H; C08L; D21C; D21H
 71: COMPAGNIE INDUSTRIELLE DE LA MATIERE VEGETALE - CIMV
 72: BOUCHRA BENJELLOUN MLAYAH, MICHEL DELMAS
 33: EP 31: 18305175.4 32: 2018-02-20

54: METHOD OF PRODUCTION OF LIGNIN AND HEMICELLULOSE FROM A PLANT LIGNOCELLULOSIC MATERIAL

00: -

The present invention relates to a method of production of lignin and hemicellulose from a plant lignocellulosic material comprising the steps of: (a) contacting a plant lignocellulosic material with an extraction solution during more than 2 hours at a temperature between 95°C to 110°C, thereby obtaining a solid fraction and a liquid fraction, (b) separating the solid fraction and the liquid fraction, (c) concentrating the liquid fraction so as to obtain a concentrated liquid fraction, (d) mixing equal parts by weight of water with the concentrated liquid fraction so as to obtain a suspension comprising solid particles in suspension in a liquid medium, (e) separating the particles and the medium of said suspension, (f) recovering the particles of said suspension thereby obtaining a fraction comprising lignin called lignified fraction, (g) recovering the medium of said suspension thereby obtaining a fraction comprising hemicellulose called hemicellulosic fraction.



21: 2020/05157. 22: 2020/08/19. 43: 2022/11/25
 51: B32B
 71: Colgate-Palmolive Company
 72: WANG, Jun

54: RECYCLABLE PLASTIC PACKAGE

00: -

A recyclable package includes an outer layer consisting essentially of a first high-density polyethylene (HDPE), an inner layer including a second HDPE, a barrier layer positioned between the outer layer and the inner layer, a first bonding layer positioned between the outer layer and the barrier layer, and a second bonding layer positioned between the inner layer and the barrier layer.

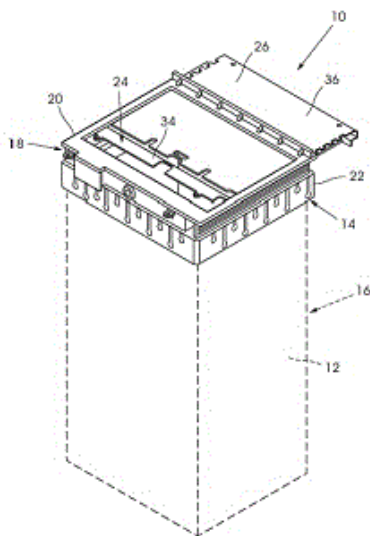
21: 2020/05214. 22: 2020/08/21. 43: 2022/12/07
 51: E05G
 71: G4S DEPOSITA (RF) (PTY) LTD.
 72: GRAHAM PAUL BEKKER, NICOLAAS SERFAAS DU TOIT, LOUWRENS RASMUS BESTER, JEFFREY JAMES SHEMMANS, WILLIAM SLEMENT, JACOBUS AIKMAN, PIETER ROSSOUW, WERNER MOORE, PETER JOHN VAN DER WESTHUIZEN
 33: ZA 31: 2019/06054 32: 2019-09-13

54: SECURITY ENCLOSURE ARRANGEMENT

00: -

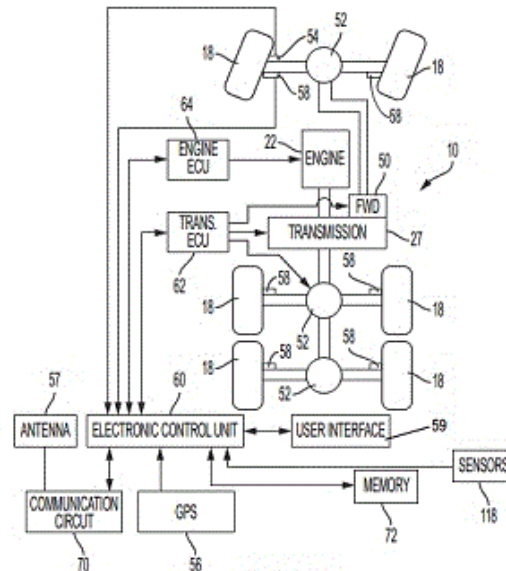
A security enclosure arrangement and a method of collecting a security enclosure. The security enclosure arrangement includes a container defining a storage space within which items can be stored/located, and a closure arrangement secured to the container. The closure arrangement includes a support arrangement which defines an access opening which leads into the storage space, via which items can be inserted into the storage space. The closure arrangement also includes a closure member which is displaceable relative to the support arrangement from a first position in which the access opening is not closed off and a second position in which the access opening is closed off. The closure member and/or support arrangement is/are configured to allow the closure member to be displaced from its first position into its second

position, but prevent the closure member from being displaced back from its second position towards its first position.



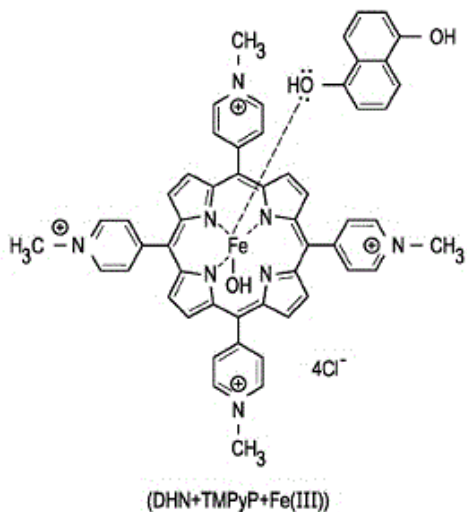
21: 2020/05340. 22: 2020/08/27. 43: 2022/12/07
 51: B60K; G01P
 71: DEERE & COMPANY
 72: GALEN R LOVE, ROBERT J NOGAJ JR
 33: US 31: 16/581,963 32: 2019-09-25
54: WHEEL SPEED SENSING SYSTEM
 00: -

A wheel speed sensing system for a work vehicle having an engine, a transmission, a differential, and an axle, defining a central longitudinal axis and coupled to the differential. The wheel speed sensing system includes a sensor target disposed at the axle and a sensor configured to transmit a sensor signal, wherein the sensor is located adjacently to the sensor target. The sensor target includes a plurality of step splines each having a top surface and first and second planar sidewalls. The sidewalls of the step splines are aligned along a radius extending from the central longitudinal axis, such that the sides are undercut with respect to the top surface. An intersection of each of the sidewalls with the top surface defines an edge forming a relatively sharp transition configured to be sensed by the sensor. A chamfer at the intersection of the sidewalls and the top surface is also contemplated.



21: 2020/05436. 22: 2020/08/31. 43: 2022/12/07
 51: A61K
 71: MATIBUR RAHAMAN ZAMADAR
 72: MATIBUR RAHAMAN ZAMADAR
54: MULTIFUNCTIONAL TREATMENT AND DIAGNOSTIC COMPOSITIONS AND METHODS
 00: -

Multifunctional compositions and methods are provided for therapeutic treatment of bacteria and cancers and for fluorescence diagnosis. Systems generate in situ reactive oxygen species such as singlet oxygen (1O_2), hydroxyl radical ($\dot{O}H$) and Juglone, and other chemotherapeutic agents. Methods provided selectively produce greater amounts of one reactive oxygen species over others. Variations are effective in aerobic, anaerobic or H_2O_2 rich environments and in presence of, or absence of, light. In H_2O_2 rich environment in absence of light, variations decompose H_2O_2 into O_2 gas to remove excess H_2O_2 for elimination of hypoxic environment. Variations are formed of porphyrins, naphthalene derivatives, and metal ions, for illustration, free base tetrakis Ar substituted *porphyrine core* without metal or halide substitution *but having hydroxyphenyl and alkyl pyridyl substituents at meso positions* combined with dihydroxynaphthalene and +3 hydrated metal ions.



21: 2020/05438. 22: 2020/08/31. 43: 2022/12/07

51: A61K; C07D; A61P

71: TAKEDA PHARMACEUTICAL COMPANY LIMITED

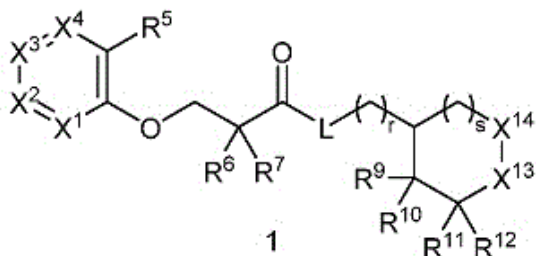
72: ZACHARIA CHERUVALLATH, JASON GREEN, BEN JOHNSON, KRISTIN SCHLEICHER, HUIKAI SUN, MINGNAM TANG

33: US 31: 62/637,295 32: 2018-03-01

54: PIPERIDINYL-3-(ARYLOXY)PROPANAMIDES AND PROPANOATES

00: -

Disclosed are compounds of Formula (1), stereoisomers thereof, and pharmaceutically acceptable salts thereof, wherein L, r, s, R⁵, R⁶, R⁷, R⁹, R¹⁰, R¹¹, R¹², X¹, X², X³, X⁴, X¹³, and X¹⁴ are defined in the specification. This disclosure also relates to materials and methods for preparing compounds of Formula (1), to pharmaceutical compositions which contain them, and to their use for treating diseases, disorders, and conditions associated with SSTR4.



21: 2020/05459. 22: 2020/09/01. 43: 2022/12/07

51: A61K; A61P

71: PORTOLA PHARMACEUTICALS, INC., ORA, INC.

72: ANJALI PANDEY, MATTHEW CHAPIN, HAROLD PATTERSON, YUNG YUEH HSU, MARK ABELSON

33: US 31: 62/641,094 32: 2018-03-09

33: US 31: 62/663,999 32: 2018-04-27

54: METHODS OF USE AND PHARMACEUTICAL COMPOSITIONS OF A SELECTIVE SYK INHIBITOR

00: -

Provided herein are methods of using Syk inhibitors, such as a selective Syk inhibitor, Compound 1 or a pharmaceutically acceptable salt thereof, in treating allergic and/or inflammatory diseases or conditions of the eye. Also provided is pharmaceutical compositions, in particular eyedrop ophthalmic compositions, comprising Compound 1 or a pharmaceutically acceptable salt thereof, useful in the methods.

21: 2020/05535. 22: 2020/09/07. 43: 2022/12/07

51: A61F; A61M

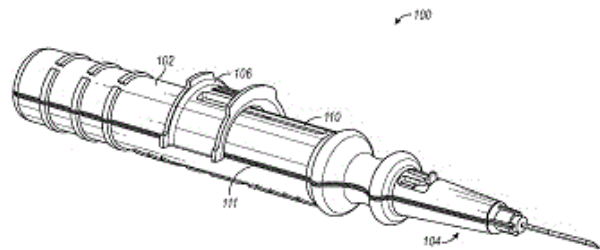
71: AQUESYS, INC.

72: LASZLO O ROMODA, CHRISTOPHER HORVATH

54: INTRAOCULAR SHUNT INSERTER

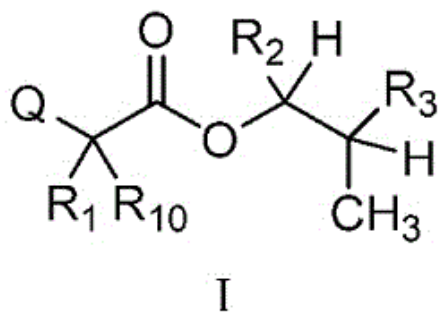
00: -

An inserter can include a housing and a slider component. The slider component can be coupled to the housing and positioned along an outer surface thereof. The slider component can be slidable along an elongate slot of the housing and include a guide tab disposed within a guide channel of the housing body. The slider can include a friction tab having a biasing member configured to urge against the housing body to urge the guide tab against a wall of the guide channel. Further, a deflector component can be provided that includes a needle guide configured to receive the needle of the inserter therein. The deflector component can be removably coupled to the inserter in order to permit the needle guide to bend the needle and maintain the needle in a bended configuration.



21: 2020/05639. 22: 2020/09/10. 43: 2022/12/07
 51: A01N; C07C; C07D
 71: CORTEVA AGRISCIENCE LLC
 72: BRIAN A LOY, NICOLAAS VERMEULEN,
 BRANNON SAM, KEVIN G MEYER, CHENGLIN
 YAO, NICHOLAS R BABIJ, JEFF PETKUS
 33: US 31: 62/640,424 32: 2018-03-08
 33: US 31: 62/640,434 32: 2018-03-08
54: PICOLINAMIDES AS FUNGICIDES

00: -
 This disclosure relates to picolinamides of Formula
 (I) and their use as fungicides.



21: 2020/05674. 22: 2020/09/11. 43: 2022/12/07
 51: C12P
 71: DANISCO US INC
 72: JING GE, XIAOGANG GU, HELONG HAO,
 KARSTEN MATTHIAS KRAGH, JINAHUA (JALSEN)
 LI, WENTING LI, ZHONGMEI TANG, SHUKUN YU,
 BO ZHANG, KUN ZHONG, ZHENGZHENG ZOU
 33: CN 31: PCT/CN2018/078575 32: 2018-03-09
**54: GLUCOAMYLASES AND METHODS OF USE
 THEREOF**

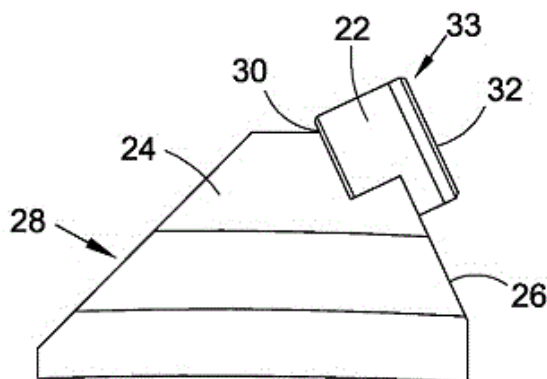
00: -
 Described are methods for saccharifying starch-
 containing materials using a glucoamylase, methods
 for producing fermentation products, and
 fermentation products produced by the method
 thereof as well as methods for increasing starch

digestibility in a ruminant using at least one of the
 glucoamylases described herein.

	FinGA1	WooGA1	XP_002475369	KZT67263	US2009032546-1847	KZT09226	WO2016194302-0012	US2017014003-0002	GAD95639	US2017000399-0023	CAC28076	TeGA	TfGA-2VN4_A	AngA
FinGA1		79.5	80	77.3	76.2	72.9	72.3	71.5	48.7	47.2	47.1	47	45.8	43.2
WooGA1	79.5		82.2	79.6	79.5	75.5	71	69.9	50.3	48.2	48.6	48.3	46.3	45.7
XP_002475369	80	82.2		80	80.1	75.4	73.9	75.2	50	47.4	46.6	46.6	46.3	46.3
KZT67263	77.3	79.6	80		85	73.7	73.2	71.5	49.9	48.6	46.8	46.8	44.9	45.3
US2009032524 0-1847	76.2	79.5	80.1	85		73.2	74.3	71.2	51.1	50.3	49.4	49.5	48.1	47.9
KZT09226	72.9	73.5	75.4	73.7	73.2		68.8	68.4	49.7	47.6	46.8	46.7	44.9	46.4
WO201619620 2-0012	72.3	71	73.9	73.2	74.3	68.8		80.6	51.6	50.6	49.9	49.8	49.6	45.2
US2017031400 3-0002	71.5	69.9	75.2	71.5	71.2	68.4	80.6		49.7	49.5	48.7	48.6	49.3	46.2
GAD95639	48.7	50.3	50	49.9	51.1	49.7	51.6	49.7		75.7	75.3	74.8	55.4	64.4
US2017030630 9-0023	47.2	48.2	47.4	48.6	50.3	47.6	50.6	49.5	75.7		95.1	94.6	57.7	61.3
CAC28076	47.1	48.6	46.6	46.8	49.4	46.8	49.9	48.7	75.3	95.1		99.5	57.4	60.8
TeGA	47	48.3	46.6	46.8	49.5	46.7	49.8	48.6	74.8	94.6	99.5		57.2	60.6
TfGA-2VN4_A	45.8	46.3	46.1	44.9	48.1	44.9	49.6	49.3	55.4	57.7	57.4	57.2		50.3
AngA	43.2	43.7	46.3	45.3	47.9	46.4	45.2	46.2	64.4	61.3	60.8	60.6	50.3	

21: 2020/05814. 22: 2020/09/18. 43: 2022/12/08
 51: E21C
 71: ELEMENT SIX (UK) LIMITED
 72: MATTHEW JOHN IAN LEEMING, VALENTINE
 KANYANTA, HABIB SARIDIKMEN
 33: GB 31: 1804696.1 32: 2018-03-23
54: CUTTING ASSEMBLY

00: -
 This disclosure relates to a cutting assembly for
 mining or extraction. The cutting assembly
 comprises a circular disk cutter (18). Cutting
 elements are arranged around a circumferential
 surface of the disk cutter, each seated in a tool
 holder (24). The orientation of the seat is such that
 the cutting element (22) points tangentially in or
 towards the intended direction of rotation.



21: 2020/05837. 22: 2020/09/21. 43: 2022/12/08
51: C07K

71: H. LEE MOFFITT CANCER CENTER AND RESEARCH INSTITUTE INC.

72: MARCO DAVILA, BRIAN BETTS

33: US 31: 62/634,435 32: 2018-02-23

33: US 31: 62/677,783 32: 2018-05-30

54: CD83-BINDING CHIMERIC ANTIGEN RECEPTORS

00: -
Disclosed are compositions and methods for preventing graft versus host disease (GVHD) in subjects receiving donor cells. In particular, chimeric antigen receptor (CAR) polypeptides are disclosed that can be used with adoptive cell transfer suppress alloreactive donor cells. Also disclosed are immune effector cells, such as T cells or Natural Killer (NK) cells, that are engineered to express these CARs. Therefore, also disclosed are methods of suppressing alloreactive donor cells in a subject receiving transplant donor cells that involves adoptive transfer of the disclosed immune effector cells engineered to express the disclosed CARs.\



21: 2020/05840. 22: 2020/09/21. 43: 2022/12/08
51: A61B

71: TRUSTEES OF TUFTS COLLEGE, MASSACHUSETTS INSTITUTE OF TECHNOLOGY

72: MANDAYAM A SRINIVASAN, MOHAN THANIKACHALAM, EDWARD HOWARD ADELSON, ABHIJIT BISWAS

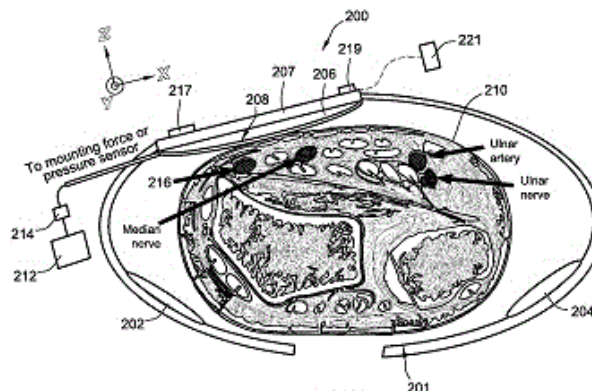
33: US 31: 62/652,180 32: 2018-04-03

33: US 31: 62/684,726 32: 2018-06-13

54: TACTILE BLOOD PRESSURE IMAGER

00: -
A method is directed to continuously, non-invasively, and directly measuring blood pressure, and includes providing a calibrated measurement device having a blood-flow control balloon and a sensor array. The method further includes placing the sensor array in a non-invasive manner over the surface of a patch of skin connected to an artery by adjoining soft tissues and inflating the blood-flow control balloon with a controlled amount of pressure. In response to the inflating of the blood-flow control balloon, changes in the artery geometry and forces are detected, via the sensor array, during a heartbeat cycle. The changes correspond to spatio-temporal signals from the artery or in the adjoining soft tissues. The spatio-

temporal signals are measured and processed, via a controller, to determine blood-pressure parameters.



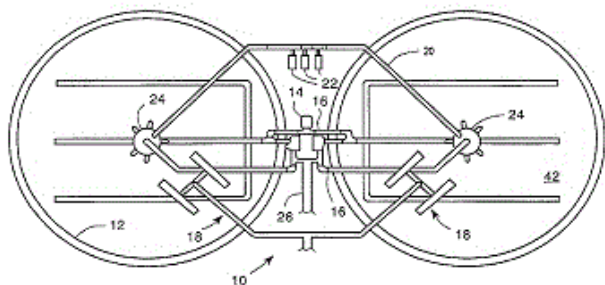
21: 2020/05878. 22: 2020/09/22. 43: 2022/12/08
51: C02F

71: EVOQUA WATER TECHNOLOGIES LLC
72: KENNETH L NORCROSS, NICHOLAS A BARCZEWSKI, PATRICK T KELLY

33: US 31: 62/661,946 32: 2018-04-24

54: SEQUENCING BATCH REACTOR SYSTEMS AND METHODS

00: -
Methods of treating wastewater with a sequencing batch reactor are disclosed. The methods include determining an anticipated flow rate of the wastewater and independently operating one or more reactor in a continuous flow mode responsive to the anticipated flow rate. Sequencing batch reactor systems are also disclosed. The systems include a plurality of reactors operating in parallel, a loading subsystem, a measuring subsystem, and a controller. The controller can be configured to independently operate each of the reactors in a batch flow mode or in a continuous flow mode responsive to the anticipated flow rate. Methods of retrofitting existing sequencing batch reactor systems and methods of facilitating treatment of wastewater with sequencing batch reactor systems are also disclosed.

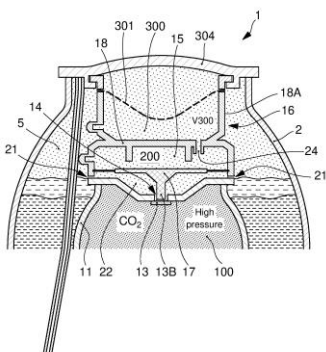


21: 2020/05902. 22: 2020/09/23. 43: 2023/01/27
51: B67D

71: HEINEKEN SUPPLY CHAIN B.V.
72: DE GROOT, Allard, KNOPPERS, Germán Enrique, SCHATS, Vincent, WAGEMAKERS, Thomas Theodorus Nicolaas Johannes
33: NL 31: 2020756 32: 2018-04-12

54: PRESSURE REGULATING SYSTEM FOR A BEVERAGE CONTAINER AND BEVERAGE CONTAINER PROVIDED THEREWITH

00: -
A pressure regulating system for a beverage container system, comprising a first, compartment for containing a pressurized gas, in fluid communication with an outlet space through at least a gas valve for opening and closing a passage between the first compartment and the outlet space, wherein a gas valve control system is provided, comprising a deformable and/or movable wall or wall part of said outlet space, wherein said deformable and/or movable wall part is operably in contact with said gas valve for opening and/or closing said gas valve, wherein a second compartment is provided at a side of the said deformable and/or movable wall part opposite the outlet space, wherein the second compartment is in fluid communication with a third compartment, which third compartment comprises at least one separating wall part and is at least liquid tight.



21: 2020/06474. 22: 2020/10/19. 43: 2023/01/25
51: A61K; C07K; A61P
71: NOVARTIS AG
72: FLEMING, Tony, ABUJOUR, Aida, BLANKENSHIP, John, HOLMBERG, Brian, HONG, Connie, HUANG, Lu, LU, Haihui, BRIAN WALTER, GRANDA
33: US 31: 62/679,611 32: 2018-06-01
33: US 31: 62/684,046 32: 2018-06-12

54: BINDING MOLECULES AGAINST BCMA AND USES THEREOF

00: -
The present disclosure provides BCMA binding molecules that specifically bind to human BCMA, conjugates comprising the BCMA binding molecules, and pharmaceutical compositions comprising the BCMA binding molecules and the conjugates. The disclosure further provides methods of using the BCMA binding molecules to treat cancers that express cell surface BCMA. The disclosure yet further provides recombinant host cells engineered to express the BCMA binding molecules and methods of producing the BCMA binding molecules by culturing the host cells under conditions in which the BCMA binding molecules are expressed.

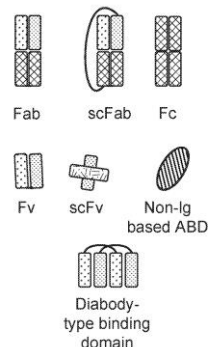


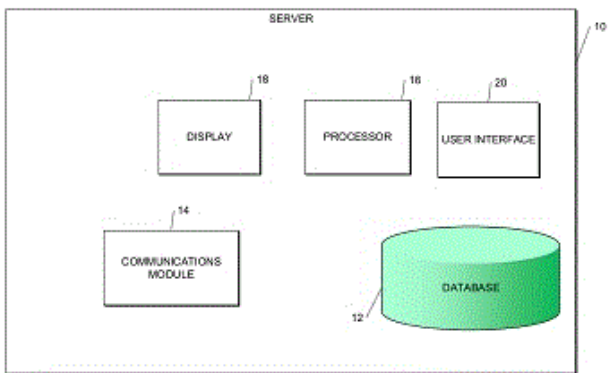
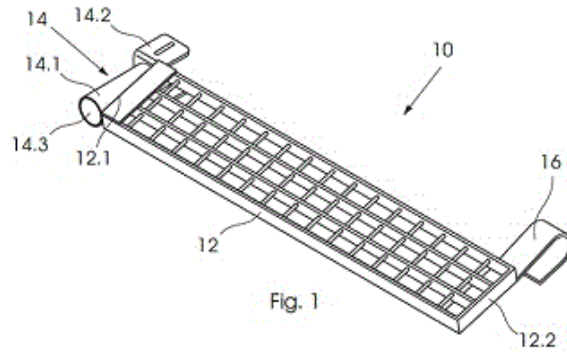
FIG. 1A

21: 2020/07081. 22: 2020/11/13. 43: 2022/12/08
51: G06F
71: DISCOVERY LIMITED
72: JOSEPH VAN NIEKERK, NIC MOUYIS
33: ZA 31: 2019/07205 32: 2019-11-01

54: A COMPUTER IMPLEMENTED SYSTEM AND METHOD OF DETECTING EXERCISE DEVICE FRAUD

00: -
A system and method for detecting step counter device fraud is provided. The method includes receiving a plurality of exercise data records

including a user identification and a plurality of workout data fields. The workout data fields including at least some of a workout date, a workout start time, a workout end time, an average heart rate of the user over the duration of the workout, a workout activity type, the number of steps taken during the workout and an exercise monitoring device identification. Calculating a hash value of each received exercise data record and comparing the hash value of each received exercise data record. If the hash value of any two received data records match then generating a fraud alert flag for an operator.



21: 2020/07247. 22: 2020/11/20. 43: 2022/12/08
 51: B60K; G01N; H04W
 71: KABELO DIALE
 72: KABELO DIALE
 33: ZA 31: 2019/05533 32: 2019-08-22

54: A METHOD AND SYSTEM FOR DETERMINING A POSSIBLE ROAD SAFETY VIOLATION

00: -

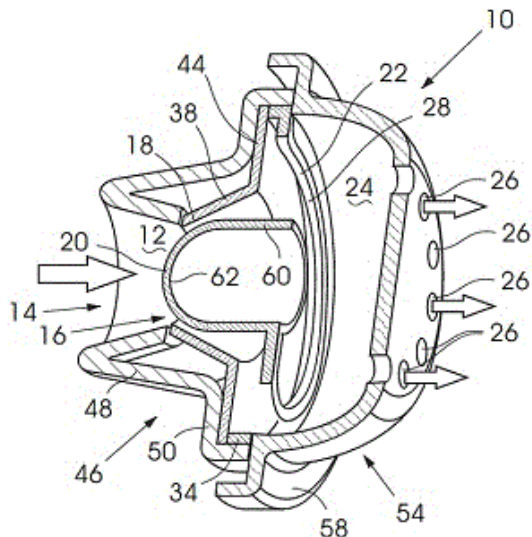
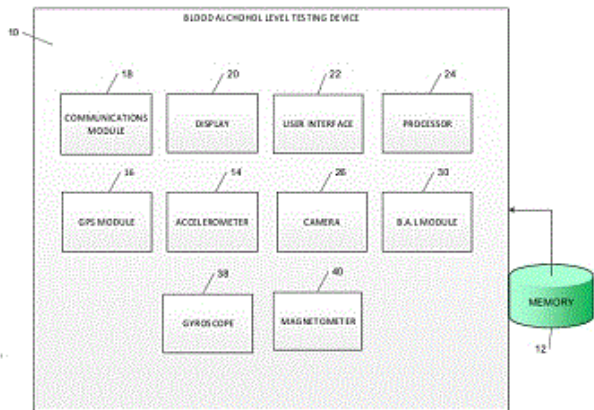
An automated method for determining a possible road safety violation includes receiving accelerometer data from an accelerometer and using the accelerometer data to determine if a motor vehicle is moving. Receiving blood alcohol level data from a blood alcohol level testing device, the blood alcohol level data including the results of a blood alcohol level test undertaken by a driver of the motor vehicle. Using the accelerometer data and the blood alcohol level data to determine if one of the following criteria are met i) the accelerometer data shows that the motor vehicle is moving and the blood alcohol level data shows that the driver of the motor vehicle has failed the blood alcohol level test; or ii) the accelerometer data shows that the motor vehicle is moving and no blood alcohol level data has been received. If either criteria are met, then transmitting a possible road safety violation warning message.

21: 2020/07212. 22: 2020/11/19. 43: 2022/12/08
 51: E04G
 71: GBM NETWORK (PTY) LTD.
 72: JONATHAN VOCKERODT, THOMAS HICKEN BEZUIDENHOUT, JAN HENDRIK DUVENAGE VAN DER WALT
 33: ZA 31: 2019/05452 32: 2019-08-19

54: DEFLECTOR

00: -

This invention concerns a deflector for use on a temporary structure, such as scaffolding, to deflect falling material. The deflector includes a deflecting member and connecting means carried by the deflecting member for removably connecting the deflecting member to the temporary structure. The connecting means is arranged on the deflecting member so as to mount the deflecting member in a position relative to the temporary structure in which falling material is deflected.



21: 2020/07248. 22: 2020/11/20. 43: 2022/12/08

51: A61M

71: CENTRAL UNIVERSITY OF TECHNOLOGY, FREE STATE

72: WILLIAM ALLAN KINNEAR, CORNELIS MARTHINUS POTGIETER, KEVIN LEE CAMPBELL, JACQUES OLIVER

33: ZA 31: 2019/07700 32: 2019-11-21

54: OSCILLATING POSITIVE EXPIRATORY PRESSURE DEVICE

00: -

An oscillating positive expiratory pressure (OPEP) device (also known as a flutter device) used in the course of clearing an airway of secretions. The device comprises an inlet chamber having an inlet for operatively receiving exhaled air into the inlet chamber and an outlet for operatively permitting exhaled air to exit from the inlet chamber. A seat arrangement is located proximate the outlet. A closure member is displaceable between a first configuration in which the closure member seals against the seat arrangement to close the outlet and a second configuration in which the closure member is displaced from the seat arrangement to permit exhaled air to escape through the outlet. A biasing means in the form of a resiliently deformable member, such as a flat spring or a cantilever spring is provided for biasing the closure member to the first configuration.

21: 2020/07563. 22: 2020/12/04. 43: 2023/02/09

51: B01D; B64D; F02M

71: TEXTRON SYSTEMS CORPORATION

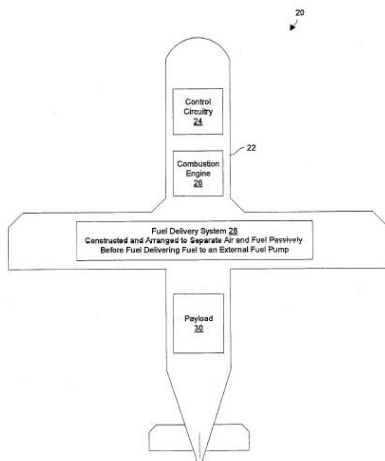
72: Daniel Thomas OTRADOVEC, Jordan Lynn BLACK, Alexander Foster SCOTT

33: US 31: 16/003,485 32: 2018-06-08

54: USING A PASSIVE SEPARATOR TO SEPARATE AIR AND FUEL OF A FUEL MIXTURE PASSIVELY WHEN DELIVERING FUEL TO A COMBUSTION ENGINE OF AN UNMANNED AERIAL VEHICLE

00: -

A fuel delivery system has a tank, a fuel pump, and an air filtering apparatus coupled with the tank and the fuel pump. The air filtering apparatus includes a housing that defines a housing chamber, a fuel flow controller coupled with the housing, and a passive separator disposed within the housing chamber. The passive separator is constructed and arranged to separate air and fuel of a fuel mixture passively while the fuel mixture enters the housing chamber from the tank and while filtered fuel exits the housing chamber toward the fuel pump in response to operation of the fuel flow controller. Such a system is well-suited for supplying fuel to a combustion engine in which consistent fuel pressure may be critical. Furthermore, the passive separator alleviates the need for a power source for active air and fuel separation, a control mechanism, and so on.



21: 2020/07593. 22: 2020/12/07. 43: 2022/12/12

51: G06F; G06Q

71: CYBER AUTHENTICATION TECHNOLOGIES (PTY) LTD

72: HAROLD NORMAN MOLLENTZE, ANDREW DU TOIT

33: ZA 31: 2019/05879 32: 2019-09-06

54: A COMPUTER AND A METHOD OF OPERATING A COMPUTER

00: -

The invention relates to a computer and a method of operating a computer. The computer includes a memory, one or more hardware resources, and at least one processor. During an initial power on phase of the computer, a firmware level application is executed that is able to communicate with all hardware resources to (1) take control of one or more of the hardware resources, thereby managing what hardware resources are handed over to an operating system of the computer, (2) read/write to any present hardware storage media attached to the computer, and (3) reserve a block of the memory that can be addressed only by an operating system application via kernel or user mode drivers. The operating system communicates with the firmware level application to make use of one or more hardware resources via the firmware level application.

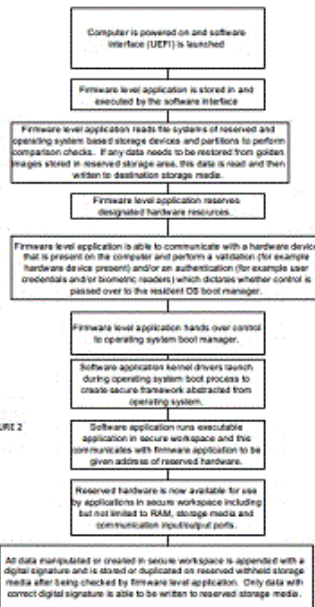


FIGURE 2

21: 2020/07620. 22: 2020/12/07. 43: 2022/12/14

51: A61K; C07D

71: OHIO STATE INNOVATION FOUNDATION, HENDRIX COLLEGE

72: JOHN C BYRD, THOMAS E GOODWIN, OLA ELGAMAL, ERIN HERTLEIN, MOUAD ABDULRAHIM, CHAD E BENNETT, SANDIP MADHUKAR VIBHUTE

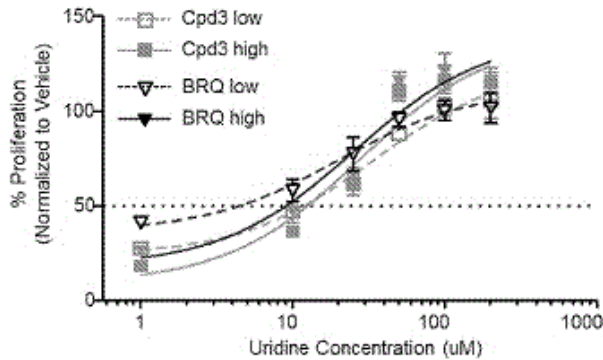
33: US 31: 62/688,612 32: 2018-06-22

54: METHODS AND COMPOSITIONS FOR INHIBITION OF DIHYDROOROTATE DEHYDROGENASE

00: -

Disclosed herein are compounds, 3,4,6,8-substituted-2-([1,1'-biphenyl]-4-yl)quinoline analogs, that are inhibitors of dihydroorotate dehydrogenase (DHODH) with improved pharmacokinetic properties. The disclosed compounds can be used in the treatment of a variety of disorders and diseases in which inhibition of DHODH can be clinically useful, including cancer, such as a hematological cancer, including acute myeloid leukemia (AML); graft-versus-host-diseases; autoimmune disorders; and disorders associated with T-cell proliferation. The disclosed compounds can demonstrate flip-flop kinetics when administered orally, i.e., pharmacokinetics in which the rate of absorption, rather than the rate of elimination, dominates the pharmacokinetics. The disclosed compounds can demonstrate a sustained pharmacokinetic profile instead of an immediate release profile. 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 disclosure.



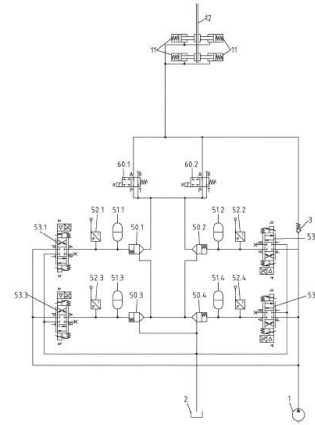
21: 2020/07743. 22: 2020/12/11. 43: 2023/02/03
51: B60T

71: SIEMAG TECBERG GMBH
72: Sergej AUGUST, Sergei STÄRKLOW

33: DE 31: 10 2018 117 403.9 32: 2018-07-18

54: PRESSURE-LIMITING ASSEMBLY FOR USE IN HYDRAULIC OR PNEUMATIC BRAKE SYSTEMS

00: -
Pressure-limiting assembly for use in a hydraulically or pneumatically operated mechanical brake system which is supplied with pressure for releasing the brake by a pump (1) and is discharged to a tank (2), wherein the pressure-limiting assembly consists of at least one normally open switching valve (60.1, 60.2) and also at least one pressure-maintaining arrangement, which is provided between the switching valve (60.1, 60.2) and the tank (2) and can be adjusted to a defined brake pressure, for rapidly reducing the system pressure to a preset pressure level and then staying at the level for a predetermined period.



21: 2020/07773. 22: 2020/12/14. 43: 2022/12/12
51: H02J; H02N

71: YEDWA HOLDINGS (PTY) LTD
72: YEDWA ERICK NDLOVU

33: ZA 31: 2019/07290 32: 2019-11-04

54: ULTRA-CHUTING ELECTRIC POWER GENERATION

00: -
This invention relates to an electric power generating chute (10) comprising a set of upper rotors (12), and a set of lower rotors (12). The set of rotors (12) are arranged in rotor rows along a length of a downward slope (14). Each rotor (12) in the set of upper rotors (12) and set of lower rotors (12) is connected to at least four generators. In use, an object (18) moves along the length of the downward slope (14), rotating the set of upper rotors (12) and set of lower rotors (12) to generate electric power.

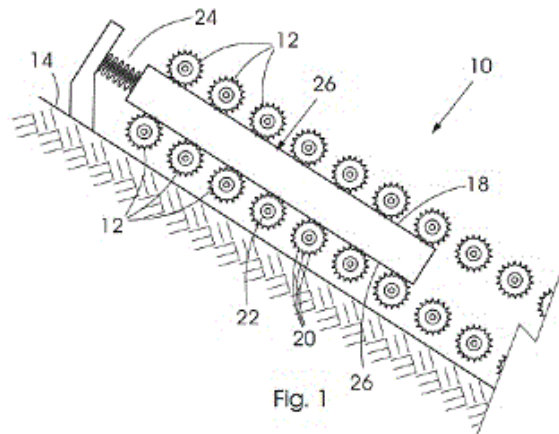


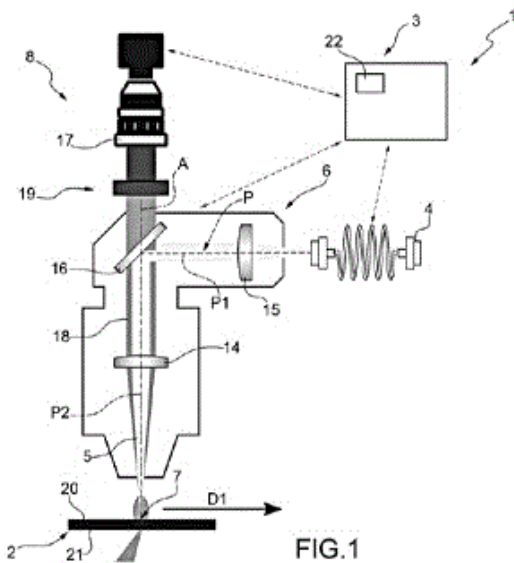
Fig. 1

21: 2020/07920. 22: 2020/12/18. 43: 2022/12/14
 51: B23K
 71: ADIGE S.P.A.

72: MATTEO PACHER, MARA TANELLI, SILVIA STRADA, BARBARA PREVITALI, SERGIO MATTEO SAVARESI, MAURIZIO SBETTI
 33: IT 31: 102019000025093 32: 2019-12-20

54: LASER TREATMENT METHOD

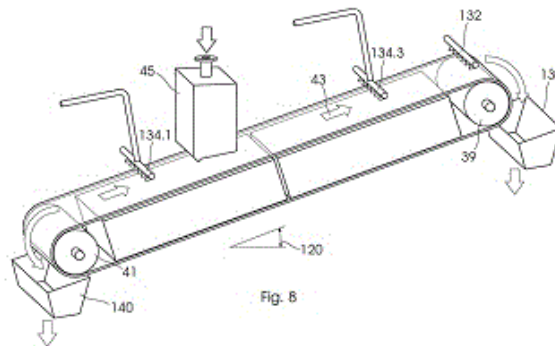
00: -
 A laser treatment method of a metallic work piece (2) comprising at least the steps of a) directing a laser beam (5) onto the work piece (2) at a working zone (7) of the working piece (2) in order to execute a cutting and/or piercing; b) executing a relative movement between the laser beam (5) and the work piece (2) at a determined velocity; c) acquiring a plurality of acquired images (9) of the working zone (7); d) determining a time course of at least one characteristic parameter from the acquired images (9); e) calculating at least one statistical parameter from the time course of the characteristic parameter; f) establishing a quality value from the statistical parameter; and g) controlling one or more process parameters, in function of the quality value.



21: 2020/07971. 22: 2020/12/21. 43: 2022/12/14
 51: B03C
 71: GLENCORE OPERATIONS SOUTH AFRICA (PROPRIETARY) LIMITED
 72: NICHOLAS FINCH DAWSON, BAREND JOHANNES VAN DER WALT
 33: ZA 31: 2019/06228 32: 2019-09-20

54: THE PROCESSING OF A FEED MATERIAL CONTAINING PLATINUM GROUP METALS

00: -
 A process for recovering PGMs from a feed material containing PGM particles and chromite particles. The process includes subjecting the feed material to a magnetic separation unit which is configured to remove chromite from the feed material. The magnetic separation unit may comprise an array of permanent magnetic elements. The elements may be arranged in a specific geometric pattern such that spacings between the elements are between 1mm and 4mm. The magnetic separation unit may include a rotatable drum on which the array of permanent magnetic elements are mounted. Alternatively, the magnetic separation unit may include a conveyor belt and the array of permanent magnetic elements are mounted just below an operatively upper surface of the conveyor belt on which feed material is, in use, discharged. As another alternative, the magnetic separation unit may be configured to utilise electromagnetic excitation.



21: 2020/07972. 22: 2020/12/21. 43: 2022/12/14
 51: E21B; G01B
 71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC
 72: MOBERG, Carl J., GLOVER, Rex A.
 33: US 31: 16/746422 32: 2020-01-17

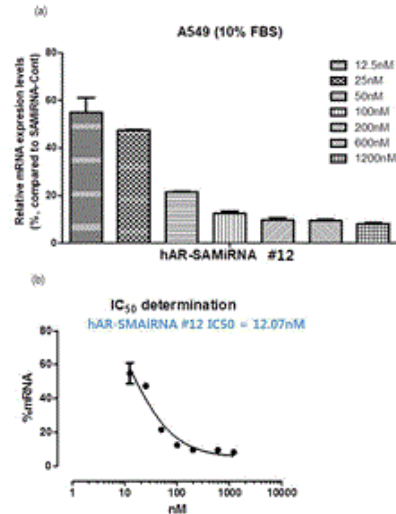
54: SYSTEMS AND METHODS FOR DRILL HEAD POSITION DETERMINATION

00: -
 Systems and methods for drill head (26) position determination are disclosed. A method for determining a position of a drill head (26) of a drilling machine (10) may include: retrieving a stored rotational position of at least one sheave (48) and a stored position of the drill head (26); measuring the

rotational position of the at least one sheave (48) using a sheave sensor (52); initially calibrating the rotational position of the at least one sheave (48) before the drill head (26) moves; dynamically determining the position of the drill head (26) based on the rotational position of the at least one sheave (48) while the drill head (26) is moved; and storing the rotational position of the at least one sheave (48) and the position of the drill head (26) during a shutdown event of the drilling machine (10).

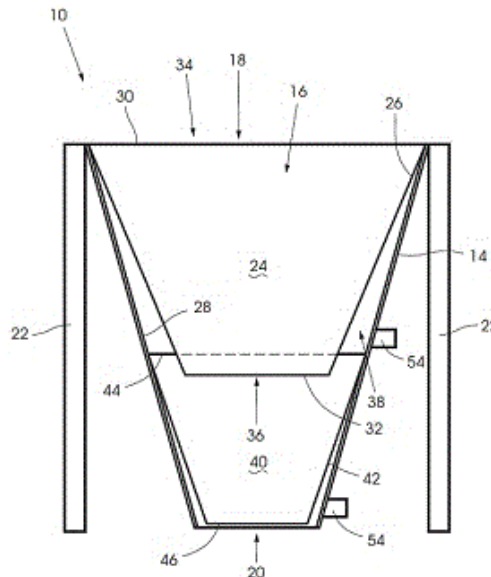
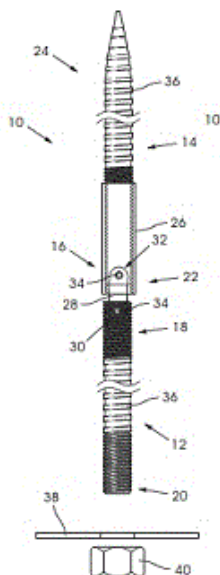
21: 2020/08040. 22: 2020/12/22. 43: 2022/12/14
 51: A61K; C12N; A61P
 71: BIONEER CORPORATION
 72: TAE-RIM KIM, PYOUNG OH YOON, YOUNGHO KO, SEON JOO BAE, HAN-OH PARK, SEUNG SEOB SON, JUN-HONG PARK, SUNG II YUN
 33: KR 31: 10-2018-0059783 32: 2018-05-25
54: AMPHIREGULIN GENE-SPECIFIC DOUBLE-STRANDED OLIGONUCLEOTIDE AND COMPOSITION FOR PREVENTING AND TREATING FIBROSIS-RELATED DISEASES AND RESPIRATORY DISEASES, COMPRISING SAME
 00: -

The present invention relates to a double-stranded oligonucleotide which can highly specifically and efficiently inhibit an amphiregulin expression and, preferably, a double-stranded oligonucleotide comprising a sequence in the form of RNA/RNA, DNA/DNA or DNA/RNA hybrid, a double-stranded oligonucleotide structure comprising the double-stranded oligonucleotide, nanoparticles comprising the double-stranded oligonucleotide structure, and a fibrosis or respiratory disease preventive or therapeutic use thereof.



21: 2020/08057. 22: 2020/12/23. 43: 2022/12/14
 51: E21D
 71: NAVE PHARMA AFRICA (PTY) LTD T/A RSH MINING
 72: DAVID NEAL
 33: ZA 31: 2019/08289 32: 2019-12-12
54: BOLT ASSEMBLY
 00: -

A bolt assembly 10, and more particularly, a rock bolt assembly used in hanging walls of underground mining operations, which bolt assembly 10 comprises first and second elongate bodies (12, 14) having respective first end portions (18, 22) which are attached relative to each other so as to allow pivoting of the first and second elongate bodies (12, 14) relative to each other. The assembly 10 also includes a first locking mechanism 16 configurable in a first configuration in which relative pivoting between the first and second elongate bodies (12, 14) is allowed, and a second configuration in which relative pivoting between the first and second elongate bodies (12, 14) is inhibited.



21: 2020/08058. 22: 2020/12/23. 43: 2022/12/13

51: B65G

71: RULA HOLDINGS (PTY) LTD.

72: ROELF FREDRICK ODENDAAL

33: ZA 31: 2019/08381 32: 2019-12-17

54: A LINED MATERIAL STORAGE AND/OR HANDLING FACILITY

00: -

A material storage or handling facility 10 including at least a first liner 24 provided for enhancing a flow of material through the facility 10, and for inhibiting a build-up of material. The facility comprises a structure having a wall 14 which defines an internal volume 16. The at least first liner 24 takes the form of an expanse of a deformable sheet, which extends within the internal volume proximate at least a portion of the wall 14. The liner 24 has a first end 30 fixed relative to the wall 14, and a second end 32. The arrangement is such that at least a portion of the liner 24 is displaceable relative to the wall 14, such that operative displacement of the liner 24 relative to the wall dislodges material adhering relative to the wall or inhibits material received within the volume from adhering relative to the wall.

21: 2021/00802. 22: 2021/02/05. 43: 2022/10/19

51: A23L

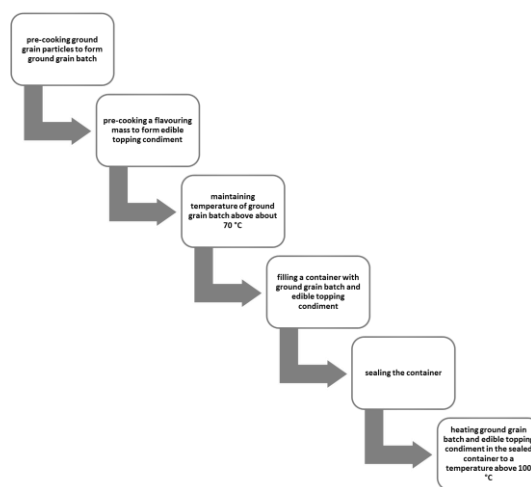
71: A MAIZE ING MEAL (PTY) LTD.

72: MEIRING, GIDEON JOHANNES JACOBUS

54: NUTRIMENT AND METHOD OF MANUFACTURING SAME

00: -

A food preparation, more particularly, a grain based nutritious foodstuff or nutriment and a method of preparing same is disclosed. The invention extends to packaging containing a preserved pre-cooked nutriment based on ground grain.



21: 2021/01824. 22: 2021/03/18. 43: 2022/11/30

51: A61K; C07K; G01N; A61P

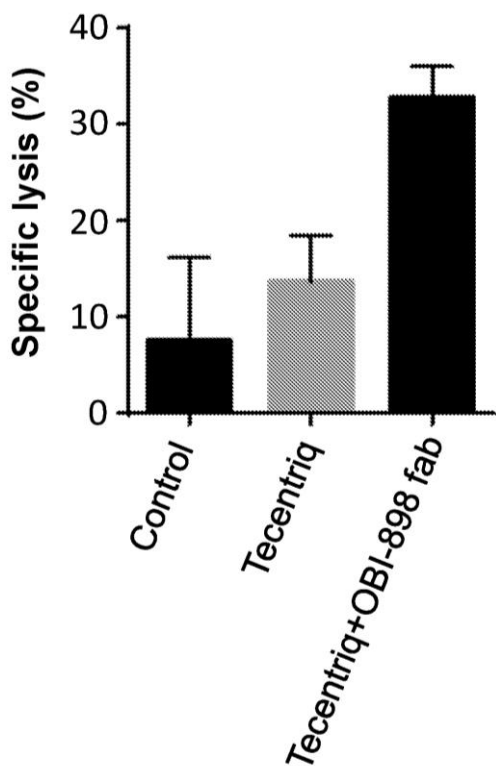
71: OBI PHARMA, INC.

72: TSAI, Yi-chien, LAI, Jiann-shiun, YU, Cheng-der, Tony

33: US 31: 62/740,373 32: 2018-10-02
54: COMBINATION THERAPY USING ANTI-SSEA-4 ANTIBODY IN COMBINATION WITH THERAPEUTIC ONCOLOGY AGENTS

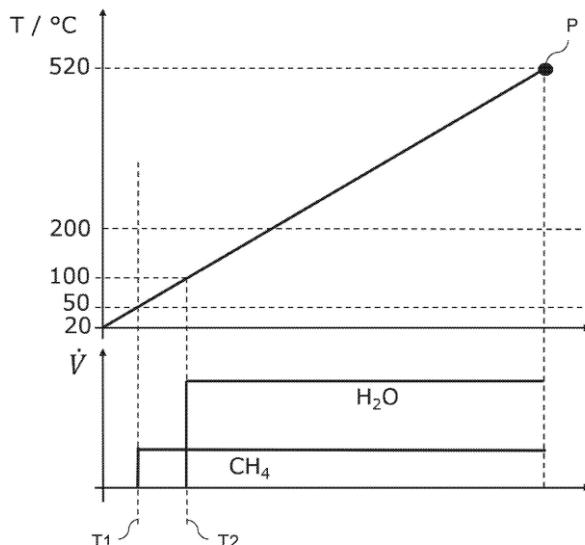
00: -
 The present disclosure is generally directed to treatment methods and compositions comprising administering anti-SSEA-4 antibodies; alone or in additive and/or synergistic combination with other therapeutic agents in oncology to enhance therapeutic efficacy whereby the interaction alters the epitope binding of Siglec-9 protein; including human Siglec-9 or a mammalian Siglec-9; wherein the use of such anti-SSEA-4 compositions are efficacious in preventing, reducing risk, or treating an individual with cancer.

PBMC+SKOV-3



21: 2021/01958. 22: 2021/03/24. 43: 2023/01/24
 51: H01M
 71: AVL LIST GMBH
 72: SOUKUP, Nikolaus, HAUTH, Martin, SEIDL, Michael, WEISSENSTEINER, Stefan
 33: AT 31: A51008/2018 32: 2018-11-19
54: METHOD FOR HEATING A FUEL CELL SYSTEM AND FUEL CELL SYSTEM

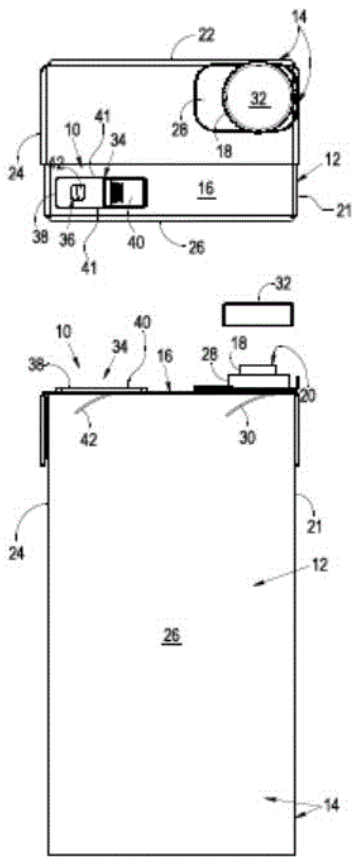
00: -
 The present invention relates to a method for heating a fuel cell system (1a; 1b; 1c; 1d) comprising: at least one fuel cell stack (2) with an anode portion (3) and a cathode portion (4); and a reformer (5) upstream of the anode portion (3) for steam reforming using a fuel, the reformer (5) comprising a nickel-based catalyst, said method having the following steps: starting a heating process for heating the fuel cell system (1a; 1b; 1c; 1d) with a heating device (6) and conducting a carbon-containing fluid and conducting steam through the nickel-based catalyst of the reformer (5) during the heating process. The invention also relates to a fuel cell system (1a; 1b; 1c; 1d) which is designed to carry out a method according to the invention.



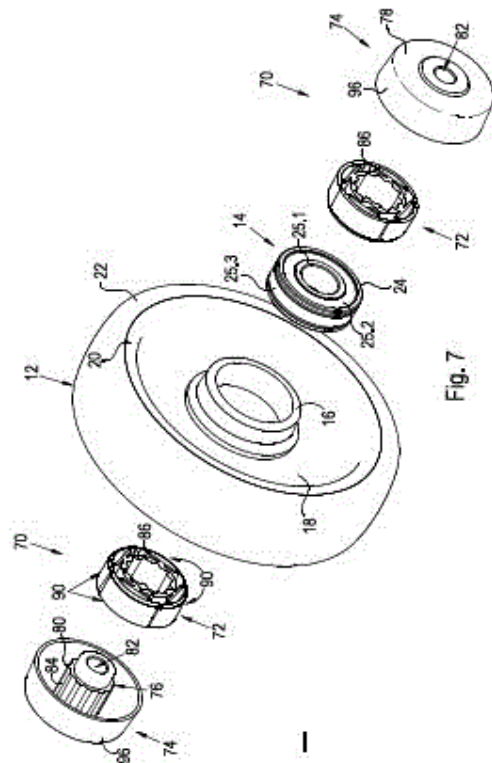
21: 2021/02297. 22: 2021/04/07. 43: 2022/11/29
 51: B65D; B67D
 71: SEYMORE, Eduard
 72: SEYMORE, Eduard
 33: ZA 31: 2020/04480 32: 2020-07-21
54: FLOW CONTROL ARRANGEMENT FOR A BEVERAGE CONTAINER

00: -
 According to the invention there is provided a flow control arrangement for a beverage container, the beverage container holding a beverage that is to be poured and comprising a spout to define a primary aperture through which the beverage may be poured, the flow control arrangement comprising an air vent arrangement, spaced apart from the spout,

the air vent arrangement defining an air vent that can be selectively opened by a user to allow air to vent into the container, thus allowing beverage to be poured in a smooth and controlled manner. In an embodiment, the beverage container has elongate side walls with a substantially flat upper wall to accommodate the spout and the air vent arrangement. In an embodiment, the spout is located proximate a minor wall edge of the rectangular upper wall, and the air vent arrangement is located proximate the opposite minor wall edge of the rectangular upper wall.



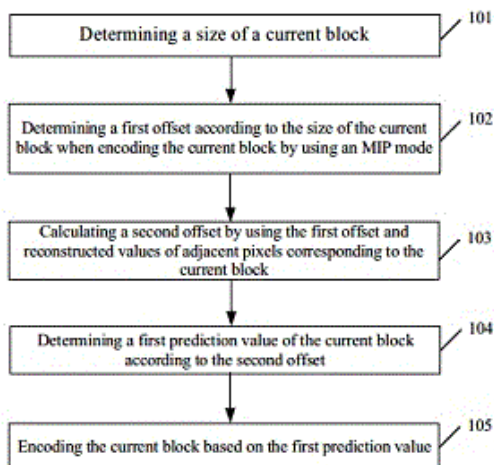
rotatably securing the wheel to an axle fitted to a chassis of the trolley, around which the wheel can rotate. The braking arrangement comprises a friction pad arrangement fitted adjacent or proximate the bearing component, the friction pad arrangement being arranged to frictionally engage against a part of the wheel, thereby applying a braking force to the wheel, the braking force being sufficiently high so as to resist the rotational movement of the wheel, but sufficiently low to allow the trolley to be pushed relatively easily. The friction pad arrangement is typically stationary relative to the trolley component around which the wheel rotates, so that the friction pad arrangement applies a braking force to the wheel as the wheel rotates around the axle.



21: 2021/02439. 22: 2021/04/14. 43: 2022/11/29
 51: B62B
 71: SUPERCART SOUTH AFRICA (PTY) LTD
 72: WOLFE, Michael Castledine
 33: ZA 31: 2020/00297 32: 2020-01-16
54: BRAKING ARRANGEMENT FOR A TROLLEY
 00: -
 A braking arrangement for a wheel, typically for use on a trolley, such as a shopping trolley, is provided. The wheel includes a bearing component for

21: 2021/02495. 22: 2021/04/15. 43: 2022/12/01
 51: H04N
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
 72: JUNYAN HUO, YANZHUO MA, SHUAI WAN, WEI ZHANG, FUZHENG YANG, HAIXIN WANG, YU SUN
54: IMAGE CODING/DECODING METHOD, CODER, DECODER, AND STORAGE MEDIUM
 00: -

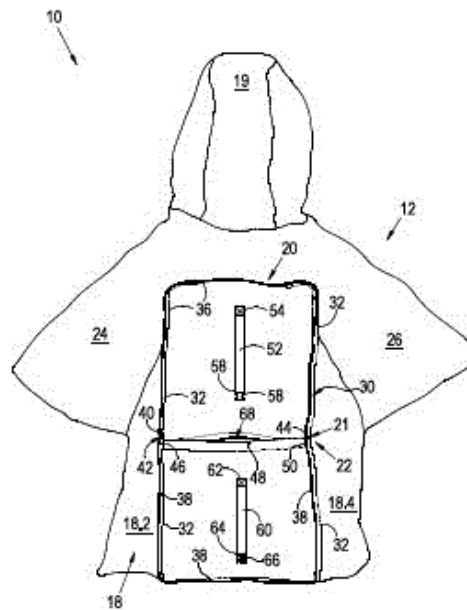
Disclosed in embodiments of the present application are an image coding/decoding method, a coder, a decoder, and a storage medium. The coding method comprises: the coder determines a size of the current block; when the current block is coded by using an MIP mode, determine a first offset according to the size of the current block; calculate a second offset by using the first offset and a reconstruction value of an adjacent pixel corresponding to the current block; determine a first prediction value of the current block according to the second offset; and perform coding on the current block on the basis of the first prediction value. The decoding method comprises: the decoder analyzes a code stream to obtain a size of the current block and a coding mode; when the coding mode of the current block is an MIP mode, determine a first offset according to the current block; calculate a second offset by using the first offset and a reconstruction value of an adjacent pixel corresponding to the current block; determine a first prediction value of the current block according to the second offset; and determine a reconstruction value of the current block on the basis of the first prediction value.



21: 2021/02510. 22: 2021/04/16. 43: 2022/11/29
 51: A41D; G01F
 71: DELAHARPE, Tandokazi Batandwa
 72: DELAHARPE, Tandokazi Batandwa
 33: ZA 31: 2020/00359 32: 2020-01-20
54: RECONFIGURABLE ITEM OF CLOTHING
 00: -

The invention relates to a clothing item that can be configured into a cushion. The clothing item may house a sound generating accessory that is

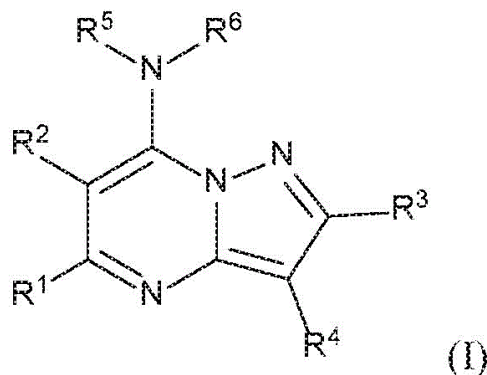
arranged to produce a sound when engaged by a user.



21: 2021/02609. 22: 2021/04/20. 43: 2023/01/25
 51: A61K; C07D; A61P
 71: KRONOS BIO, INC.
 72: MIKOCHIK, Peter, VACCA, Joseph, TASKER, Andrew, FREEMAN, David
 33: US 31: 62/752,635 32: 2018-10-30
 33: US 31: 62/884,993 32: 2019-08-09
 33: US 31: 62/910,058 32: 2019-10-03

54: COMPOUNDS, COMPOSITIONS, AND METHODS FOR MODULATING CDK9 ACTIVITY

00: -
 Inhibitors of CDK9 that are pyrazolo[1,5-a]pyrimidine derivatives and salts thereof, corresponding to formula (I):



21: 2021/02810. 22: 2021/04/28. 43: 2022/11/29

51: G06F; G06Q
 71: MANZI, Bongani
 72: MANZI, Bongani
 33: ZA 31: 2020/00556 32: 2020-01-28
54: PAYMENT SYSTEM AND METHOD
 00: -

A payment system and related method are disclosed. The system comprises a payment interface or gateway which enables a recipient to receive electronic payment for goods and/or services from a customer without the need to use the customer's financial transaction card, but instead using a software banking application of a banking financial institution, at which the customer has a bank account. The banking details of the recipient of the payment are pre-loaded on the payment interface or gateway so that the customer does not have to capture them, the payment interface or gateway being linked to payment platforms of a plurality of banking financial institutions, via a related plurality of banking applications loaded on the payment interface or gateway. This enables the customer to make payment directly to the recipient by accessing the related banking application of their own financial institution, through the payment interface or gateway.

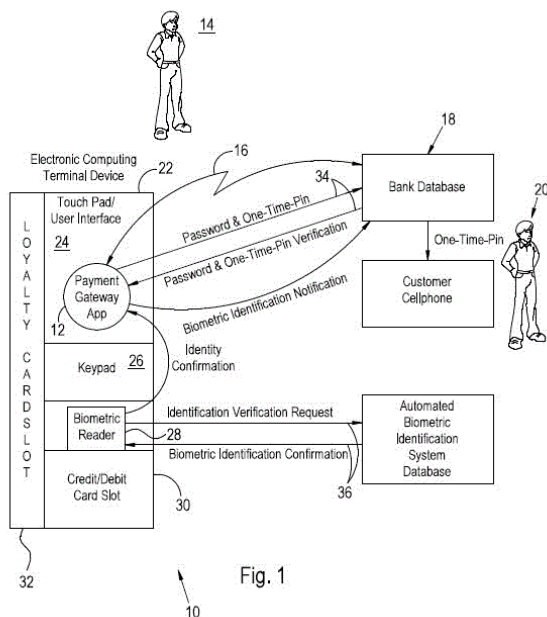


Fig. 1

21: 2021/03058. 22: 2021/05/06. 43: 2023/02/03
 51: C12N

71: UNIVERSITY OF MARYLAND, COLLEGE PARK, THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
 72: Anne, Elizabeth SIMON, Jinguang LIU, Georgios VIDALAKIS, Sohrab BODAGHI
 33: US 31: 62/760,098 32: 2018-11-13
54: PLANT VECTORS, COMPOSITIONS AND USES RELATING THERETO

00: -
 The present disclosure relates to a single stranded RNA vector suitable for introducing a therapeutic agent, such as a peptide, a protein or a small RNA, into a host plant. The vector does not encode for any movement protein or coat protein, but is capable of capable of systemic and phloem-limited movement and replication within the host plant.

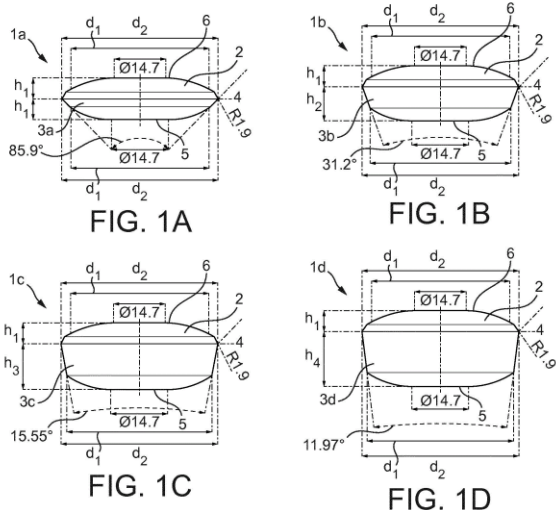
21: 2021/03356. 22: 2021/05/18. 43: 2022/11/25
 51: A01N; A01P
 71: UPL Limited
 72: DELSANTRO, Mark Vincent, SEARS, Beth Erickson, SHROFF, Jaidev Rajnikant, SHROFF, Vikram Rajnikant
 33: US 31: 62/760,149 32: 2018-11-13
54: HERBICIDAL COMBINATION

00: -
 An herbicidal combination including a photosystem II inhibitor, an ALS inhibitor, and a chlorophyll and heme biosynthesis inhibitor, a composition comprising the combination, and methods of using these combinations are described.

21: 2021/03465. 22: 2021/05/21. 43: 2022/11/25
 51: B65B; B65D
 71: Société des Produits Nestlé S.A.
 72: HEYDEL, Christophe Sébastien Paul, PACAULT, Jean, TALON, Christian
 33: EP(CH) 31: 18203971.9 32: 2018-11-01
54: COFFEE CONTAINER FOR BEVERAGE PREPARATION AND METHOD OF MANUFACTURING A COFFEE CONTAINER

00: -
 The invention relates to a method of manufacturing a coffee container (1a-1g) for preparing a coffee beverage upon injection of liquid into the container, the method comprising the steps of: - selecting and providing container wall means (2, 2a, 3a-3g) for enclosing a predefined container, - compacting an amount of bulk coffee material such as roast and ground coffee particles to a coffee tablet under predefined compaction force in the container volume

between the container wall means (2, 2a, 3a-3g), - wherein the applied compaction force is set based on at least the provided container volume and/or on a particular type of beverage to be prepared from the provided container, and wherein the applied compaction force is set to a value between 0.5 to 15kN, preferably between 1kN and 10kN.



21: 2021/03623. 22: 2021/05/27. 43: 2022/11/16
 51: B65D
 71: CR PACKAGING LLC
 72: KNOBEL, Simon, MARKOWITZ, Ari, GONZALEZ, Alexander, ELWELL, Robert, GRANGER, Colin, PINTO, Christopher
 33: US 31: 62/492,678 32: 2017-05-01
 33: ZA 31: 2019/07284 32: 2019-11-01

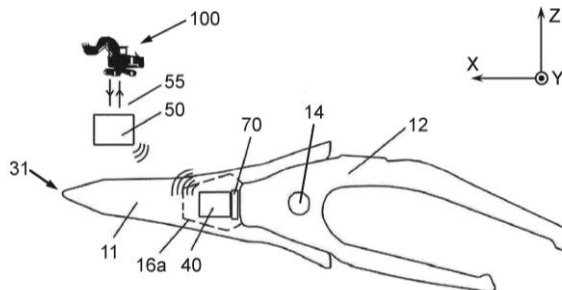
54: MODULAR SYSTEM FOR INVENTORY AND TRANSPORT EFFICIENCY OF PACKAGING

00: -
 Disclosed herein are modular container systems having child-resistant containers, tray inserts and tray frames. Also disclosed are methods using the modular container systems and methods of storing substances in containers. The containers have a container base and a container cap and provide for child-resistant containers. A user can releasably remove the container cap from container base with a squeeze and lift sequence. For example, the user squeezes opposite sides of the container base, which releases a locking mechanism and allows for removal of the cap by lifting or pulling the container cap off from the container base. The components of the modular container system are modular and stackable. The modular system allow for organized,

efficient, accessible and storage of the child-resistant containers. The modular container system also allows for easy counting, sorting and processing of the containers.

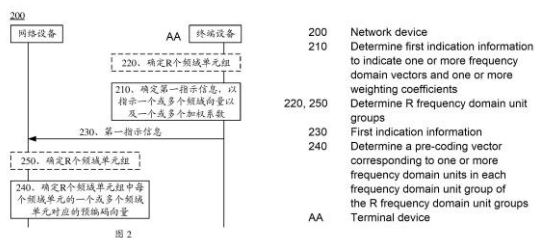
21: 2021/03651. 22: 2021/05/27. 43: 2023/01/10
 51: E02F
 71: Metalogenia Research & Technologies S.L.
 72: VALLVÉ BERTRAN, Nil, TRIGINER CASTAÑÉ, Javier, MARQUEZ LLINAS, Jordi, GIMENO TORDERA, Albert, ALONSO FRIGOLA, Ester, TRIGINER BOIXEDA, Jorge
 33: EP 31: 18382913.4 32: 2018-12-12
54: SYSTEMS AND METHODS FOR MEASURING FORCES IN EARTH MOVING MACHINERY AND CONTROL THEREOF, AND AUTOMATIC OR SEMI-AUTOMATIC MACHINERY

00: -
 System (1-3) for earth moving machinery (100), comprising: a plurality of wear elements (10- 15) adapted for coupling with a blade (111) of digging implements(110) of an earth moving machine (100); one or more sensors (20) for measuring forces, each sensor of the one or more sensors (20) being arranged in one wear element of the plurality of wear elements (10-15) or between two wear elements of the plurality of wear elements (10-15); and central control means (50) for processing measurements of the one or more sensors (20) in order to calculate force withstood by the wear elements (10-15).



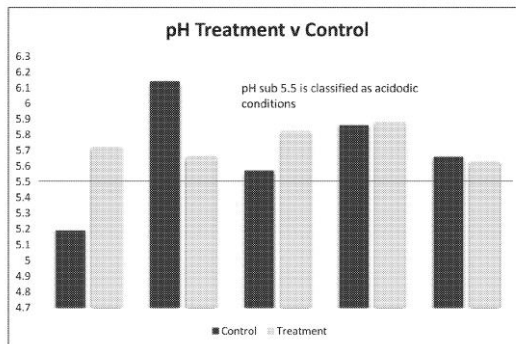
21: 2021/04875. 22: 2021/07/12. 43: 2022/11/29
 51: H04B
 71: Huawei Technologies Co., Ltd.
 72: JIN, Huangping, WANG, Xiaohan, BI, Xiaoyan
 33: CN 31: 201910028187.9 32: 2019-01-11
54: PRECODING VECTOR INDICATING AND DETERMINING METHOD AND COMMUNICATIONS APPARATUS
 00: -

Provided are a method for indicating and determining a pre-coding vector, and a communication apparatus. The method comprises: a terminal device generating first indication information and sending same to a network device, wherein one or more frequency domain vectors comprise a frequency domain vector reported for each frequency domain unit group of R frequency domain unit groups, and one or more weighting coefficients comprise a weighting coefficient reported for each frequency domain unit group of the R frequency domain unit groups; a frequency domain vector and a weighting coefficient reported for an rth frequency domain unit group of the R frequency domain unit groups are used for constructing a pre-coding vector corresponding to one or more frequency domain units in the rth frequency domain unit group; each frequency domain unit group of the R frequency domain unit groups comprises one or more frequency domain units; and r is greater than or equal to 1 and less than or equal to 2, R is greater than or equal to 2, and r and R are both integers. Therefore, different frequency domain unit groups can be compressed by means of different frequency domain vectors, thereby facilitating the obtaining of a higher feedback precision and a higher compromised efficiency of a feedback overhead and the feedback precision.



21: 2021/04913. 22: 2021/07/13. 43: 2023/01/27
 51: A23K
 71: PROAGNI PTY LTD
 72: CAMPBELL, Lachlan, BELL, Robert, SOULSBY, Fiona
54: ANIMAL FEED COMPOSITION
 00: -
 The present disclosure relates to compositions, concentrates, supplements and animal feeds for feeding to ruminant animals. The present disclosure further relates to methods of improving feed conversion, resource utilisation, water utilisation in

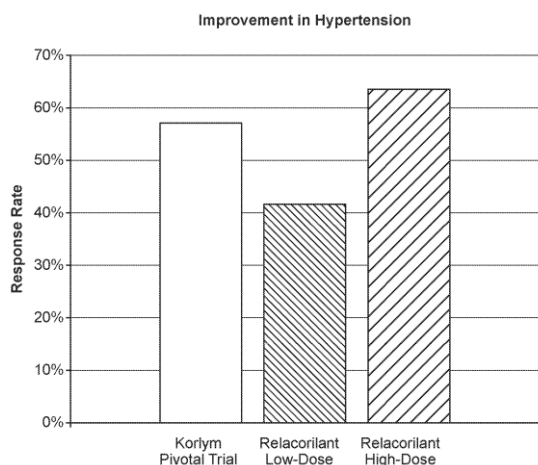
livestock, as well as methods of reducing livestock emissions and reducing antibiotic use in livestock feed, methods of inducing satiety in livestock and methods of preventing lactic acidosis in ruminant animals.



21: 2021/05339. 22: 2021/07/28. 43: 2023/02/03
 51: A61K; C07D; A61P
 71: BEIGENE, LTD.
 72: ZHANG, Guoliang; MIAO, Jianzhuang; ZHOU, Changyou; CHEN, Gang; LI, Jing
 33: CN 31: PCT/CN2019/074732 32: 2019-02-07
 33: CN 31: PCT/CN2019/098757 32: 2019-07-31
 33: CN 31: PCT/CN2020/073673 32: 2020-01-22
54: IMIDAZO[2,1-f][1,2,4]TRIAZIN-4-AMINE DERIVATIVES AS TLR7 AGONIST
 00: -
 Disclosed herein is an imidazo[2,1-f][1,2,4]triazin-4-amine derivative or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof useful as a TLR7 agonist, and a pharmaceutical composition comprising the same. Also disclosed herein is a method of treating cancer using the imidazo[2,1-f][1,2,4]triazin-4-amine derivative or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof as TLR7 agonist.

21: 2021/05633. 22: 2021/08/10. 43: 2023/01/27
 51: A61K; A61P
 71: CORCEPT THERAPEUTICS INCORPORATED
 72: MORAITIS, Andreas
 33: US 31: 62/809,327 32: 2019-02-22
 33: US 31: 62/814,441 32: 2019-03-06
 33: US 31: 62/833,517 32: 2019-04-12
54: THERAPEUTIC USES OF RELACORILANT, A HETEROARYL-KETONE FUSED AZADECALIN GLUCOCORTICOID RECEPTOR MODULATOR
 00: -

Methods and compositions are disclosed for diagnosing a patient suspected of suffering from, and for treating a patient suffering from, a disorder such as hypercortisolemia, metabolic syndrome, pre-diabetes, diabetes, Cushing's syndrome, Cushing's Disease, hyperglycemia secondary to hypercortisolemia, a liver disease, a cardiac disorder, high blood pressure, a blood clotting disorder, a cancer, a psychological disorder, weight gain, a disorder of glucose control, a bone disorder (e.g., osteoporosis), hypogonadism, pseudoacromegaly, pituitary tumors, functional hypercortisolism, ACTH secreting tumors, peripheral neuropathy, dyslipidemia and other disorders. The methods and compositions include administration of a heteroaryl-ketone fused azadecalin glucocorticoid receptor modulator (GRM). The preferred heteroaryl-ketone fused azadecalin GRM is relacorilant ((R)-(1-(4-fluorophenyl)-6-((1-methyl-1H-pyrazol-4-yl)sulfonyl)-4,4a,5,6,7,8-hexahydro-1H-pyrazolo[3,4-g]isoquinolin-4a-yl)(4-(trifluoromethyl)pyridin-2-yl)methanone). In some cases, the GRM (e.g., relacorilant) is orally administered. In some cases, the GRM (e.g., relacorilant) is orally administered without food.

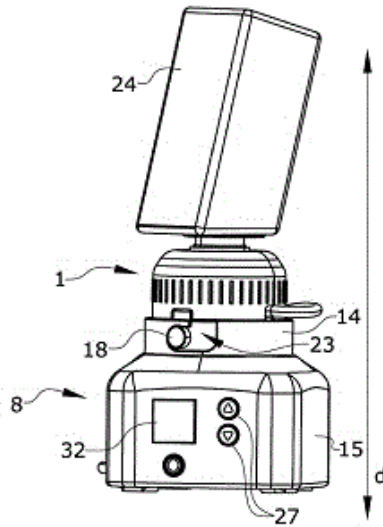


21: 2021/05655. 22: 2021/08/05. 43: 2022/12/14
 51: B01F; C08G; C10M
 71: Huntsman Petrochemical LLC
 72: ZHAO, Haibo
 33: US 31: 62/808,595 32: 2019-02-21
54: MULTIFUNCTIONAL ADDITIVE COMPOUNDS
 00: -

The present disclosure generally relates to a multifunctional additive obtained from the reaction of: (a) an intermediate obtained from the reaction of maleic anhydride and a polyoxyalkylene monoamine; and (b) an amine compound comprising a primary amine group and/or a secondary amine group and its use in a variety of applications, including, but not limited to: as a corrosion inhibitor or friction modifier in aqueous and non-aqueous systems; in fuel deposit control agents; as a dispersant in pigment, asphalt and cement compositions; and as a detergent.

21: 2021/05800. 22: 2021/08/13. 43: 2022/12/14
 51: A61J
 71: ADVENTIA PHARMA, S.L., ANDRÉS CABELLO REY
 72: ANDRÉS CABELLO REY
 33: ES 31: PCT/ES2019/070028 32: 2019-01-22
54: FEEDING CAP, DRIVE HEAD, AND DRIVE SYSTEM
 00: -

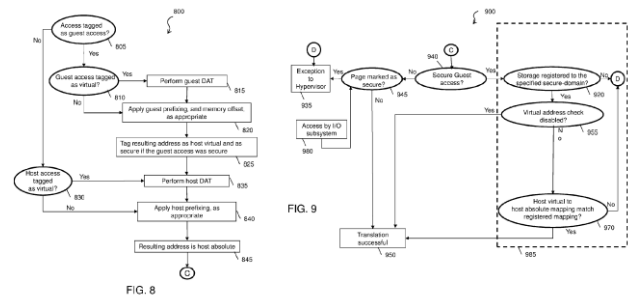
The present invention is comprised in the sector of the industry dedicated to the manufacturing of medical supplies, particularly focusing on containers for the artificial feeding of enteral feeding products through a tube. In particular, the present invention relates to a closure cap for a container for supplying enteral feeding products by means of the drive of a drive head, and it also relates to a drive head that can be coupled to the cap for driving the supply of enteral feeding products contained in a container, and in turn to a drive system formed by said cap and drive head.



21: 2021/05808. 22: 2021/08/13. 43: 2023/01/04
51: G06F

71: INTERNATIONAL BUSINESS MACHINES CORPORATION
72: BRADBURY, Jonathan, HELLER, Lisa Cranton,
BACHER, Utz, BUSABA, Fadi
33: US 31: 16/296,345 32: 2019-03-08
54: **SECURE STORAGE ISOLATION**
00: -

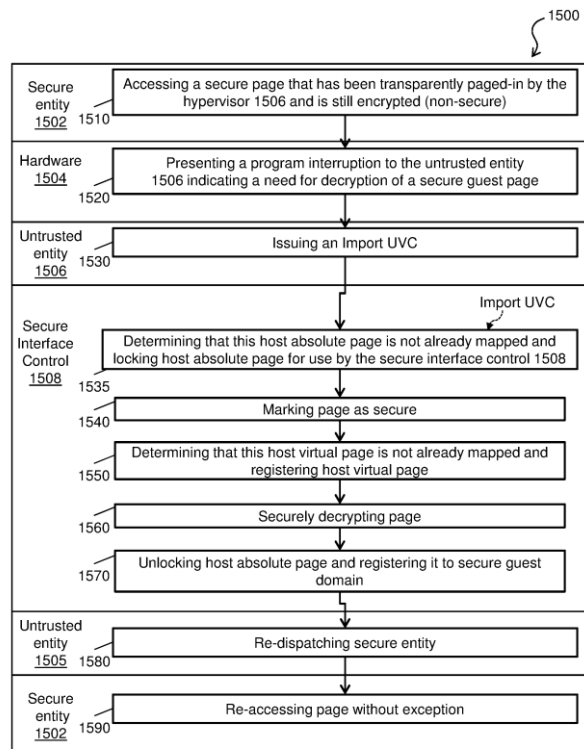
An computer-implemented method according to examples includes receiving, by a secure interface control of a computing system, a request by a requestor to access a page in a memory of the computing system. The method further includes, responsive to determining that the requestor is a non-secure requestor and responsive to a secure-storage bit being set, prohibiting access to the page without performing an authorization check. The method further includes, responsive to determining that the requestor is a secure requestor, performing the authorization check.



21: 2021/05809. 22: 2021/08/13. 43: 2023/01/16
51: G06F

71: INTERNATIONAL BUSINESS MACHINES CORPORATION
72: SCHWIDEFSKY, Martin, CARSTENS, Heiko,
BRADBURY, Jonathan, HELLER, Lisa
33: US 31: 16/296,457 32: 2019-03-08
54: **SECURE INTERFACE CONTROL HIGH-LEVEL PAGE MANAGEMENT**

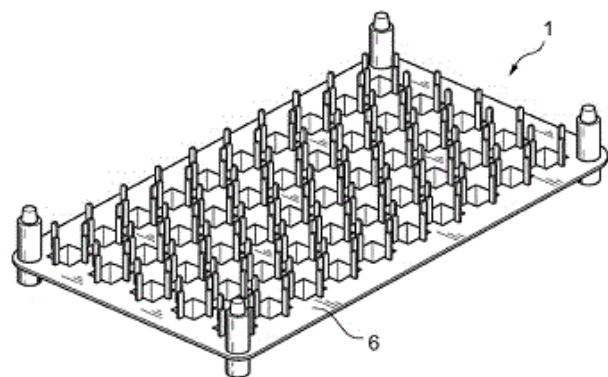
00: -
A method is provided. The method is implemented by a secure interface control of a computer that prevents unauthorized accesses to locations in a memory of the computer. The secure interface control determines that a host absolute page is not previously mapped to a virtual page in accordance with securing the host absolute page and a host virtual page is not already mapped to an absolute page in accordance with securing the host absolute page.



21: 2021/05968. 22: 2021/08/19. 43: 2022/12/06
51: A01G
71: WEGROW GERMANY GMBH
72: PETER DIESSENBACHER
33: EP 31: 19152899.1 32: 2019-01-21
54: **PLANT PALLET**

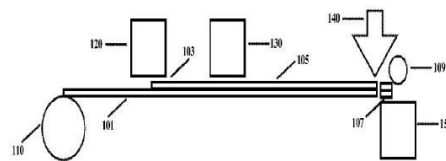
00: -
The invention relates to a plant pallet having a plurality of wells arranged in rows and columns to

receive leafy tree seedlings, the wells each having a well bottom with at least one drainage opening, and the well bottom of each well merging laterally into a peripheral side wall, and a top side of the plant pallet being formed by side walls of adjacent wells merging into one another. To prevent lateral rooting being impaired or adversely affected by the side wall, protrusions which extend further upwards should be arranged on the top side such that they partially continue the side walls upwards.



21: 2021/06008. 22: 2021/08/20. 43: 2023/01/04
 51: C09F; C09J
 71: Avery Dennison Corporation, a corporation organised and existing under the laws of the State of Delaware
 72: MALLYA, PRAKASH, EDWARDS, David
 33: US 31: 16/253,145 32: 2019-01-21
54: IN-LINE PRODUCTION OF LINERLESS LABELS

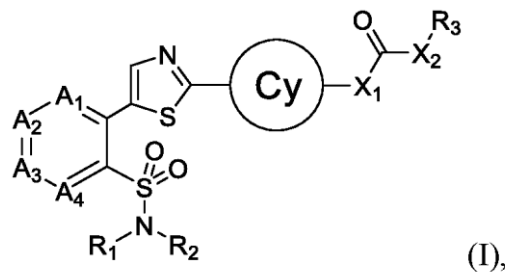
00: -
 According to an embodiment of the present disclosure, a method of labeling a plurality of products includes coating a pressure sensitive adhesive to a roll of face stock, the roll of face stock configured to be converted to a plurality of individual labels aligned in a single lane; singulating an individual label from the roll of face stock; and applying the individual label to a product of the plurality of products, wherein the coating, singulating and applying are conducted sequentially in a single continuous operation with a single continuous web of material.



21: 2021/06284. 22: 2021/08/30. 43: 2023/01/16
 51: A61K; C07D; A61P
 71: CYTEIR THERAPEUTICS, INC.
 72: LAPIERRE, Jean-Marc, MCCOMAS, Casey Cameron, VACCA, Joseph
 33: US 31: 62/816,998 32: 2019-03-12
54: RAD51 INHIBITORS
 00: -

This application is directed to inhibitors of RAD51 represented by the following structural formula, (I), and methods for their use, such as to treat cancer, autoimmune diseases, immune deficiencies, or neurodegenerative diseases.

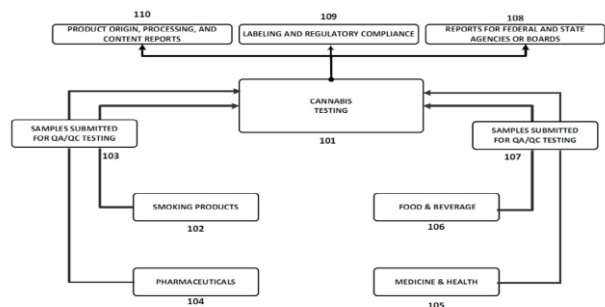
[Fomula I]



21: 2021/06450. 22: 2021/09/03. 43: 2023/01/25
 51: G01N
 71: Vyripharm Enterprises, LLC
 72: Jerry L. BRYANT, Jr., David J. YANG, Jana RAUVOLFOVA, Tori STRONG
 33: US 31: 16/291,943 32: 2019-03-04
54: SYSTEMS AND METHODS FOR INTEGRATED AND COMPREHENSIVE MANAGEMENT OF CANNABIS PRODUCTS

00: -
 Embodiments of the disclosure provide a method of managing information related to a cannabis product across a distributed validated system. The method includes enabling an authorized user to create a plurality of data containing genetic profile of a seed, plant growth conditions of a crop, and manufacturing information used for production of the cannabis product, and measurements of quality and quantity

of desired components and undesired components in the cannabis product. The method includes associating the plurality of data to a record which is identified by a unique identifier. The method includes storing the record into a memory for access by one or more of a plurality of authorized users using the unique identifier. The method includes analyzing the cannabis product to determine the quality and quantity of desired components and undesired components in the cannabis product. The method includes determining concentration of cannabinoids in the cannabis product.

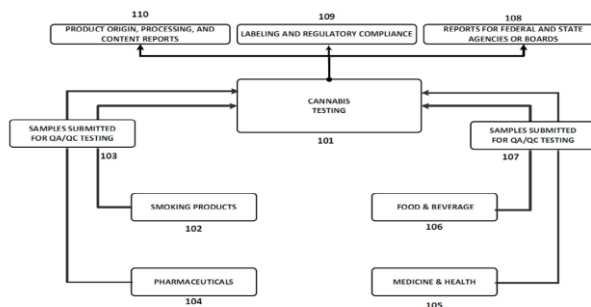


21: 2021/06452. 22: 2021/09/03. 43: 2023/01/25
 51: G01N
 71: Vyripharm Enterprises, LLC
 72: Jerry L. BRYANT, Jr., David J. YANG, Jana RAUVOLFOVA, Tori STRONG
 33: US 31: 16/291,943 32: 2019-03-04

54: SYSTEMS AND METHODS FOR INTEGRATED AND COMPREHENSIVE MANAGEMENT OF CANNABIS PRODUCTS

00: -
 Embodiments of the disclosure provide a method of managing information related to a cannabis product across a distributed validated system. The method includes enabling an authorized user to create a plurality of data containing genetic profile of a seed, plant growth conditions of a crop, and manufacturing information used for production of the cannabis product, and measurements of quality and quantity of desired components and undesired components in the cannabis product. The method includes associating the plurality of data to a record which is identified by a unique identifier. The method includes storing the record into a memory for access by one or more of a plurality of authorized users using the unique identifier. The method includes analyzing the cannabis product to determine the quality and quantity of desired components and undesired

components in the cannabis product. The method includes determining concentration of cannabinoids in the cannabis product.



21: 2021/06474. 22: 2021/09/03. 43: 2023/02/03
 51: F16K
 71: COMETFLO LTD.
 72: Yoseph FELDMAN, Emanuel MENDES
 33: US 31: 62/806,828 32: 2019-02-17

54: FLOAT VALVE SYSTEMS AND METHODS FOR CONTROLLING LIQUID LEVEL IN VESSELS

00: -
 A confined, fully or partially liquid-filled container having at least one flexible wall, utilizing the effect of gravity on liquid in the container to generate a force that acts on an actuator mechanism to operate a normally-closed control valve. In other preferred embodiments, the container is a simple sealed bag partially liquid-filled and air-free. The flexible-walled container comprises a sealed plastic bag containing a predetermined quantity of liquid. The bag is confined by walls of a housing formed of a non-flexible material, and is affixed to the housing preferably to an upper wall of the housing in any conventional way. The housing is disposed in a vessel for holding a liquid and is having one or more apertures, which are in fluid communication with the interior of the vessel and through which liquid can enter from the vessel into the housing to a level corresponding to a desired level of liquid in the vessel. The housing is so located that the level of the liquid in the housing bears a desired direct relationship to the level of liquid in the vessel with liquid level in the housing being high when the liquid in the vessel is filled to a desired preset level and falling as liquid is withdrawn from the vessel. The container affixed in the housing is configured to progressively be immersed in the liquid as the liquid rises in the vessel up to a desired preset level corresponding to the desired preset level of liquid in

the vessel from which the liquid can electively be withdrawn, and below a desired preset level of liquid corresponding to "refill needed" level of the liquid in the vessel as the liquid in the vessel drops. It will be appreciated that the container can be configured to be held above and out of the liquid in the vessel. When the liquid level in the vessel and, in turn, in the housing, is dropping, the buoyant force that the liquid in the vessel exerts on the outside of the container walls immersed in the liquid, is reduced. Because the container is confined in the housing, it maintains a liquid column of sufficient height so as to exert through gravity a force on the inside of the container walls sufficient to actuate the actuator mechanism to open the control valve. The force difference between the gravity force acting on the liquid inside the container and the reduced buoyant force on the walls of the container on the outside, creates pressure that is exerted on the inside of the container walls. The housing is configured to allow the flexible walls of the container to expand and contract laterally due to pressure changes resulting from the combined effect of gravity force acting on the liquid in the container applying pressure to the container walls from inside the container and a buoyant force exerted by the liquid in the housing applying pressure to the container walls from outside the container;

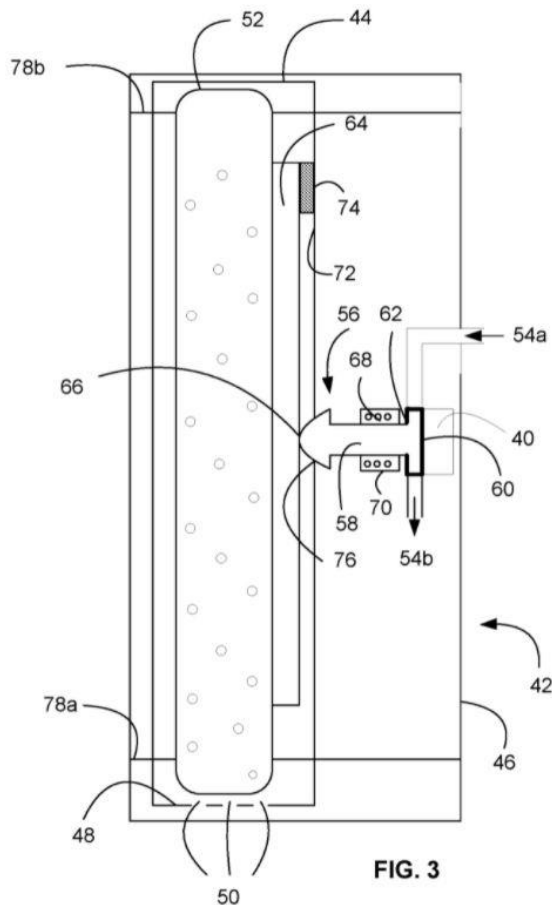


FIG. 3

21: 2021/06872. 22: 2021/09/17. 43: 2023/01/10
 51: C07C; C08J
 71: 9449710 CANADA INC.
 72: ESSADDAM, Adel, ESSADDAM, Fares
 33: US 31: 62/821,270 32: 2019-03-20
54: PROCESS FOR THE DEPOLYMERIZATION OF POLYETHYLENE TEREPHTHALATE (PET)
 00: -

The present disclosure relates to the formation of dimethyl terephthalate (DMT) and mono ethylene glycol (MEG). The present invention also relates to the depolymerization of polyethylene terephthalate (PET) and the recovery of dimethyl terephthalate (DMT) and mono ethylene glycol (MEG) using sodium methoxide as a catalyst.

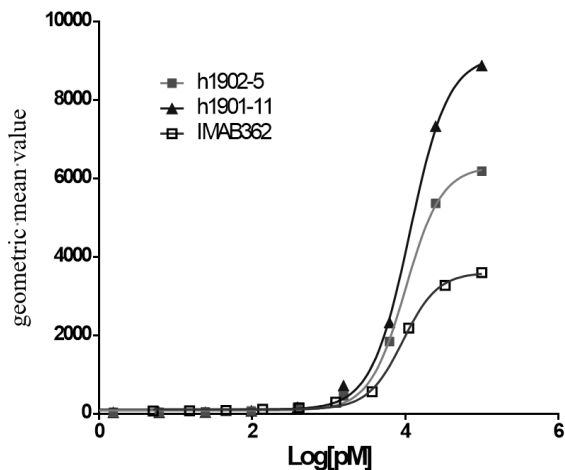
21: 2021/06880. 22: 2021/09/17. 43: 2023/01/10
 51: A61K; C07K; C12N; A61P
 71: JIANGSU HENGRUI MEDICINE CO., LTD., SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD.
 72: YANG, Yang, GE, Hu, TAO, Weikang

33: CN 31: 201910257853.6 32: 2019-04-01

54: ANTI-CLAUDIN 18.2 ANTIBODY AND APPLICATION THEREOF

00: -

The present disclosure relates to an anti-Claudin 18.2 antibody and an application thereof. Specifically, the present invention relates to an anti-Claudin 18.2 antibody; a mouse-derived antibody, chimeric antibody, humanized antibody and antigen-binding fragment thereof which contain a CDR of the anti-Claudin 18.2 antibody, and a use thereof as a medicine. In particular, the present disclosure relates to a use of the anti-Claudin 18.2 antibody in the preparation of a drug for treating Claudin 18.2 positive diseases or disorders.



21: 2021/06885. 22: 2021/09/17. 43: 2023/01/23

51: A61N

71: SEOUL VIOSYS CO., LTD.

72: YOON, Yeong Min, BAE, Hee Ho, LEE, A Young, LEE, Chung Hoon

33: US 31: 62/820,493 32: 2019-03-19

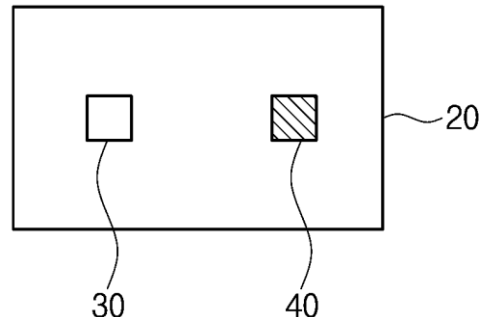
33: US 31: 16/821,024 32: 2020-03-17

54: LIGHT EMISSION DEVICE

00: -

A light emission device comprises a light source unit for emitting light at wounded skin and a control unit for controlling the light source unit. The light source unit includes: a substrate; one or more first light sources which are provided on the substrate and which emit first light having a blue wavelength band; and one or more second light sources which are provided on the substrate and which emit second light having red to near infrared wavelength bands. The first light and the second light have different skin penetration depths according to the wavelength.

100
↙



21: 2021/07016. 22: 2021/09/20. 43: 2023/02/09

51: A61L

71: Johann Cornelius Visser

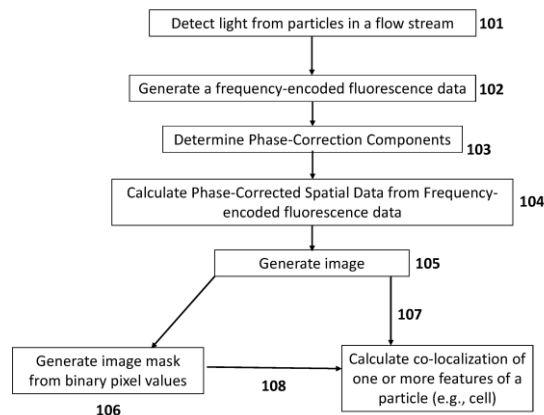
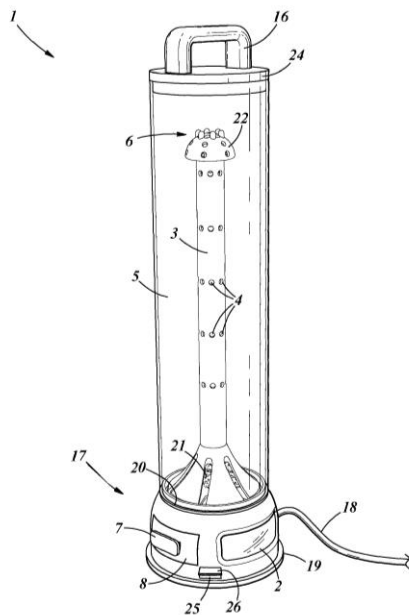
72: JOHANN CORNELIUS VISSER

33: ZA 31: 2019/01518 32: 2020-03-12

54: PROSTHETIC ACCESSORY STERILIZER

00: -

This invention relates to a prosthetic accessory sterilizer, and more particularly, but not exclusively, to a prosthetic liner or sleeve sterilizer. In accordance with this invention there is provided a prosthetic accessory sterilizer comprising an elongate support for receiving a sleeve thereover, a number of ventilation openings in the elongate support, air movement means to move air through the ventilation openings and an airborne produced particle that kills bacteria for example ozone but not exclusively ozone.



21: 2021/07052. 22: 2021/09/21. 43: 2023/01/27
51: G01N

71: BECTON, DICKINSON AND COMPANY
72: LIN, Jonathan, OWSLEY, Keegan, BAHR, Matthew

33: US 31: 62/854,875 32: 2019-05-30

54: PHASE-CORRECTION OF RADIOFREQUENCY-MULTIPLEXED SIGNALS

00: -

Aspects of the present disclosure include methods for characterizing particles of a sample in a flow stream. Methods according to certain embodiments include generating frequency-encoded fluorescence data from a particle of a sample in a flow stream; and calculating phase-corrected spatial data of the particle by performing a transform of the frequency-encoded fluorescence data with a phase correction component. In certain embodiments, methods include generating an image of the particle in the flow stream based on the phase-corrected spatial data. Systems having a processor with memory operably coupled to the processor having instructions stored thereon, which when executed by the processor, cause the processor to calculate phase-corrected spatial data from frequency-encoded fluorescence data of a particle a flow stream are also described. Integrated circuit devices (e.g., field programmable gate arrays) having programming for practicing the subject methods are also provided.

21: 2021/07110. 22: 2021/09/23. 43: 2023/01/16
51: A24F

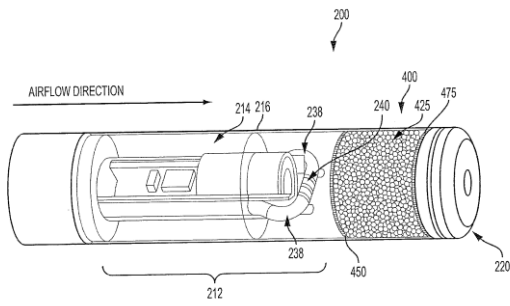
71: R. J. REYNOLDS TOBACCO COMPANY
72: SEARS, Stephen Benson, TALUSKIE, Karen V., DAVIS, Michael F., ADEME, Balager, HUBBARD, Sawyer Austin

33: US 31: 14/950,724 32: 2015-11-24

54: ELECTRICALLY-POWERED AEROSOL DELIVERY SYSTEM

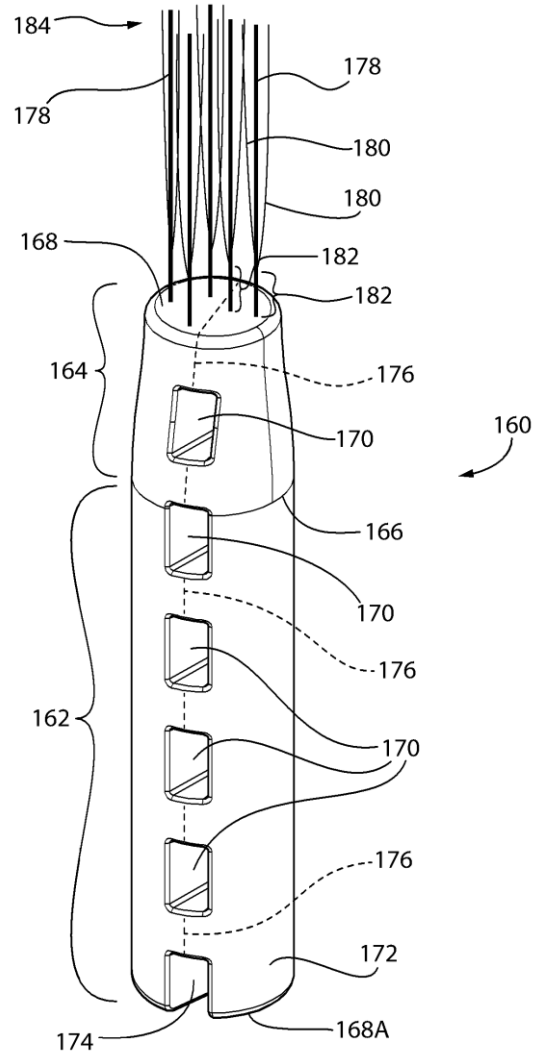
00: -

An aerosol delivery system (100) is provided, comprising a control body portion (300) including a first elongate tubular member (304) having a power source (316) disposed therein. A cartridge body portion (200) includes a second tubular member (216) having opposed first and second ends. One of the first and second ends is removably engaged with one end of the control body portion. The cartridge body portion further comprises a first aerosol generation arrangement (212) disposed within the second tubular member and configured to operably engage the power source upon engagement between the control body portion and the cartridge body portion. A second aerosol generation arrangement (400) is disposed between the first aerosol generation arrangement and a mouth-engaging end of the aerosol delivery system, the second aerosol generation arrangement being either removably engaged with the cartridge body portion or housed within the second tubular member of the cartridge body portion.



21: 2021/07393. 22: 2021/09/30. 43: 2023/01/27
 51: A61F
 71: LORIA PRODUCTS LLC
 72: LORIA, Victor
 33: US 31: 16/293,171 32: 2019-03-05
 33: US 31: 16/552,740 32: 2019-08-27
54: HAIR IMPLANTS COMPRISING ENHANCED ANCHORING AND MEDICAL SAFETY FEATURES
 00: -

A hair implant suitable for subcutaneous implantation is provided having an anchor comprising an anchor body, and at least one collagen receiving structure selected from the group consisting of at least one tunnel disposed through the anchor body and an external surface feature of the anchor body. The anchor further comprises at least one hair strand projecting from a distal end of the anchor body, wherein the at least one collagen receiving structure is configured to support collagen ligature growth after subcutaneous implantation of the hair implant to anchor the anchor to a hair implant recipient, and the collagen receiving structure is free of hair. A fracture line in the anchor body allows the body to fragment, thereby releasing collagen ligatures and allowing the implant fragments to "release" and fall out of the skin. The at least one hair strand may comprise a primary hair element with emerging hair elements.



21: 2021/07414. 22: 2021/10/01. 43: 2023/01/27
 51: A61K; C12N; A61P
 71: ABCURO, INC.
 72: GULLA, Stefano Vincenzo, THOMPSON, Kenneth Evan
 33: US 31: 62/831,713 32: 2019-04-09
54: KILLER CELL LECTIN-LIKE RECEPTOR SUBFAMILY G MEMBER 1 (KLRG1) DEPLETING ANTIBODIES
 00: -

The receptor killer cell lectin-like receptor GI (KLRG1) is expressed on T and NK cells, which binds to ligands on epithelial and mesenchymal cells. The ligand for KLRG1 has been described to be E-cadherin, N-cadherin, and R-cadherin. The present disclosure relates to and results from the discovery and characterization of antibodies that bind the extracellular domain (ECD) of KLRG1 but

do not interfere with its interaction with the ligands E-cadherin, N-cadherin, and R-cadherin. The antibodies described have been derived by mouse hybridoma technology, and can be humanized by grafting their complementary determining regions (CDRs) into a human framework. The antibodies described can be used as effective therapeutic agents. Various antibodies, or antigen-binding fragments of such antibodies, along with various therapeutic and/or diagnostic methods, among other features, are provided for in the present disclosure.

21: 2021/07702. 22: 2021/10/12. 43: 2022/12/14
51: F03D

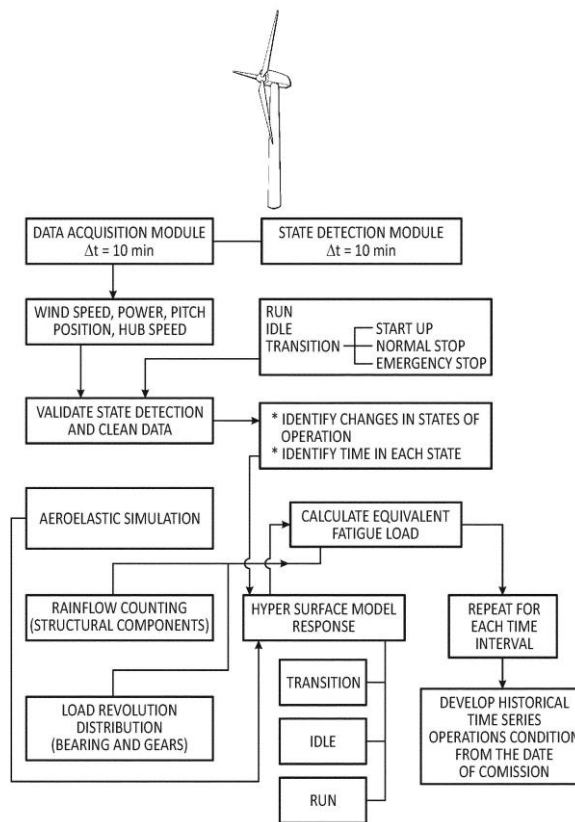
71: Acciona Generaci3n Renovable, S.A., Sentient Science Corporation

72: RIBARIC, Adrijan, GALLEGO-CALDERON, Juan, IRUJO ESPINOSA DE MONTEROS, Mercedes

54: A METHOD FOR ESTIMATING REMAINING USEFUL LIFE OF COMPONENTS OF AN OPERATIONAL WIND TURBINE

00: -

A method and a system for estimating remaining components life of an operational wind turbine from actual wind turbine operation conditions after it was commissioned, using a data acquisition module configured to measure real historical data of said operational wind turbine, and an additional state detection unit configured to identify historical states of operation. The method comprises extracting historical data from the data acquisition module at time intervals, identify operational states of the wind turbine, validate the identified operational states and identify uncertain data that do not match. Next, simulate a turbine model for each operational state identified and wind condition thereof at each time interval, and calculate a fatigue equivalent load for each operational state and wind condition.



21: 2021/08527. 22: 2021/11/02. 43: 2022/12/06
51: A61B

71: Medscope Biotech Co., Ltd.

72: HUANG, Shin-Hao, WU, Chen-Xuan

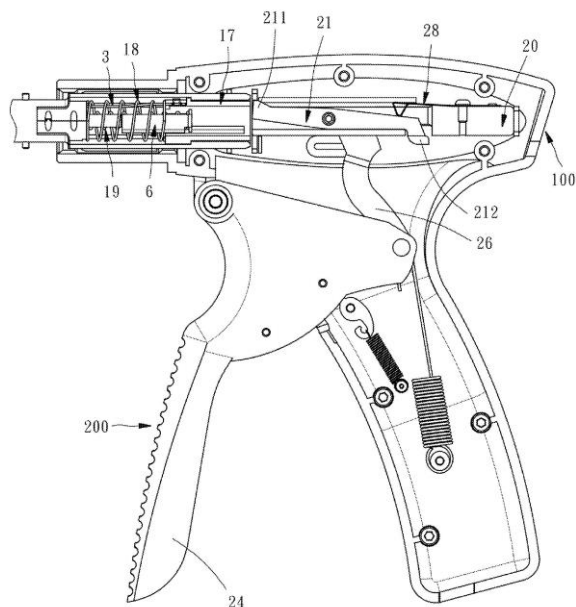
33: CN 31: 201910266128.5 32: 2019-04-03

54: ACTUATION STRUCTURE OF BLOOD VESSEL CLIP APPLIER

00: -

Disclosed is an actuation structure of a blood vessel clip applier. The actuation structure is driven by an operating unit to allow a jaw to clamp a clip. The actuation structure of the blood vessel clip applier contains a body with a bump; a tube group connected to the body; a loading push rod capable of pushing the clip forward; a bolt axially and movably arranged on the body; a loading circulation claw pivotally arranged at the bolt and having a front end and a rear end; a loading plunger arranged on the body and linked to the loading push rod; a loading spring for pushing against the loading plunger to move same backward, wherein when the front end of the loading circulation claw extends out, the loading plunger may be pushed to move forward, and when the front end of the loading circulation claw is pressed downward not to abut against the

loading plunger, the loading spring may push the loading plunger backward; a recoil push rod, wherein after the loading plunger returns to an original position, the front end of the loading circulation claw is still in a pressed state, such that the front end may continue to push the recoil push rod forward so as to drive the jaw to clamp the clip; and a recoil spring for pushing against the recoil push rod to move same backward.



21: 2021/09497. 22: 2021/11/24. 43: 2023/01/27
 51: A61K; C12N
 71: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, PROQR THERAPEUTICS II B.V.
 72: TURUNEN, Janne, Juha, KEMMEL, Cherie, Paige, BEAL, Peter, DOHERTY, Erin, E., VAN SINT FIET, LENKA

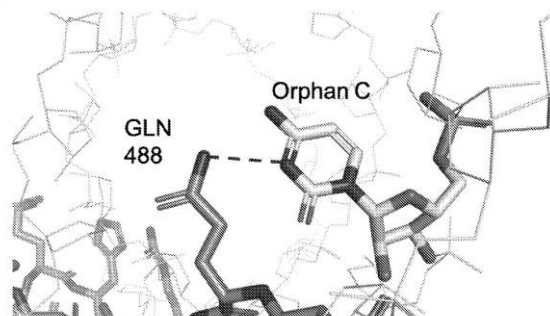
33: US 31: 62/860,843 32: 2019-06-13

54: ANTISENSE RNA EDITING OLIGONUCLEOTIDES COMPRISING CYTIDINE ANALOGS

00: -
 The invention relates to single-stranded RNA editing antisense oligonucleotides (AO Ns) for binding to a target RNA molecule for deaminating at least one target adenosine present in the target RNA molecule and recruiting, in a cell, preferably a human cell, an ADAR2 enzyme, to deaminate the at least one target adenosine in the target RNA molecule. The AON according to the invention comprises a cytidine analog at the position opposite the target adenosine,

wherein the cytidine analog serves as an H-bond donor at the N3 site, for more efficient RNA editing.

Fig. 1

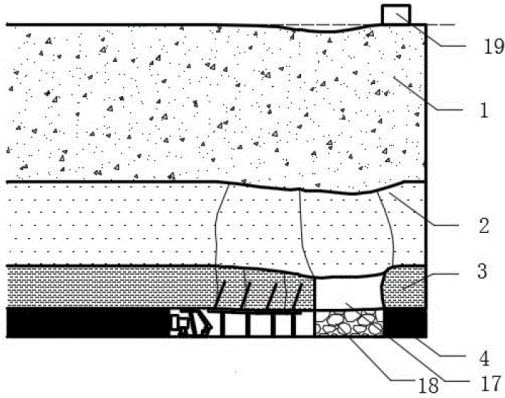


21: 2021/09624. 22: 2021/11/26. 43: 2023/01/06
 51: E21C

71: China University of Mining and Technology
 72: CHANG, Qingliang, ZHOU, Huaqiang, WU, Fengfeng, XU, Ying, ZHANG, Biao, LENG, Qiang
 33: CN 31: 202011585173.6 32: 2020-12-25

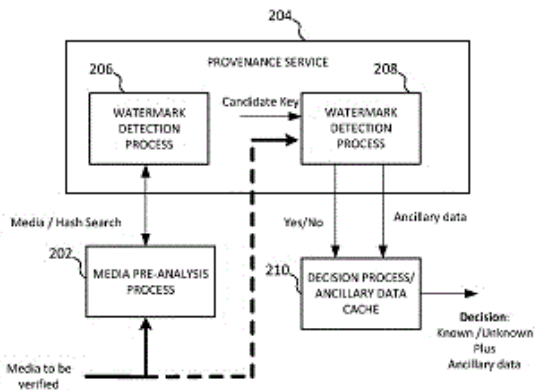
54: METHOD FOR MINING SHALLOW COAL SEAM WITH MINIMIZED IMPACT

00: -
 The present disclosure discloses a method for mining shallow coal seam with minimized impact on surface constructions and rock formations, belonging to the field of coal mining, solving a technical problem in related art of causing damage to surface constructions and rock formations after mining shallow coal seam. The method comprises: step 1: performing geographical exploration and predicting influential range of mining; step 2: after mining work on the work face, building temporary support on goaf and placing explosives; step 3: dismantling the temporary supports and detonating the explosives for roof cutting. According to the method of the present disclosure, the explosive roof cutting is performed after mining work on the work face and has no conflict with mining work and will not affect the mining progress; the roof is cut with good integrity, and the goaf is moved up with good completeness, reducing equivalent buried depth for coal seam and non-uniformity of stress distribution in the tunnel and the work face, which is beneficial for maintaining the tunnel and preventing ground pressure accidents.



21: 2021/09972. 22: 2021/12/03. 43: 2022/12/13
 51: H04N
 71: MICROSOFT TECHNOLOGY LICENSING, LLC
 72: HENRIQUE S MALVAR, PAUL ENGLAND, ERIC J HORVITZ
 33: US 31: 62/873,791 32: 2019-07-12
 33: US 31: 16/792,989 32: 2020-02-18
54: MEDIA PROVENANCE CERTIFICATION VIA FRAGILE WATERMARKING

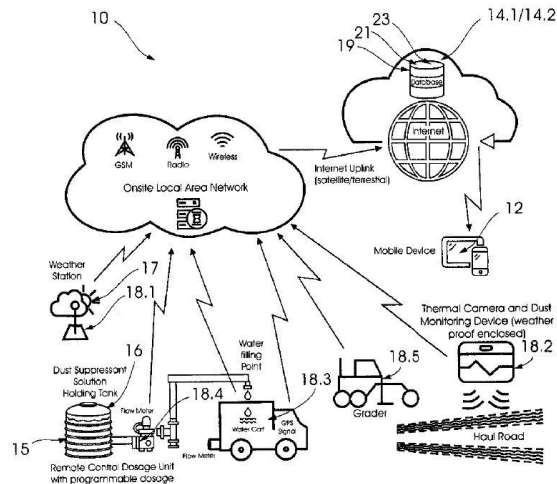
00: -
 Systems and methods to determine when a media is a high-fidelity reproduction of an original media from a trusted entity are disclosed. In certain aspects, systems and method for generating a fragile watermark are disclosed. The fragile watermark may be inserted into digital media in a manner such that the watermark cannot be identified if the media content is significantly altered. Media content may be subsequently analyzed to determine the presence of a fragile watermark. When the fragile watermark is present, provenance of the media content can be verified and an indication of provenance is provided to the user.



21: 2021/10088. 22: 2021/12/07. 43: 2022/07/04

51: H04L; G06Q
 71: Raphael GARCIA DA COSTA, Ian Neil CLARKE
 72: Raphael GARCIA DA COSTA, Ian Neil CLARKE
 33: WO 31: PCT/IB2019/054841 32: 2019-06-11
54: ENVIRONMENTAL MANAGEMENT SYSTEM

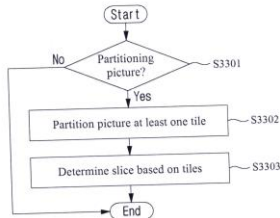
00: -
 A computer implemented environmental management and monitoring system (10), which is apt to accommodate and assist multidisciplinary operations such as, for example, industrial and process plants, manufacturing facilities, mines, hospitals, schools and the like to continuously monitor and track variables related to environment, health and safety and to suggest corrective action. The invention extends to a method of using same.



21: 2021/10174. 22: 2021/12/08. 43: 2023/01/23
 51: H04N
 71: Apple Inc
 72: LEE, Bae Keun
 33: KR 31: 10-2019-0168586 32: 2019-12-17
 33: KR 31: 10-2020-0020366 32: 2020-02-19
 33: KR 31: 10-2020-0038866 32: 2020-03-31
 33: KR 31: 10-2020-0040600 32: 2020-04-02
 33: KR 31: 10-2020-0040852 32: 2020-04-03
54: METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME

00: -
 An image signal decoding method according to one embodiment of the disclosure comprises the steps of: decoding a first flag indicating whether tile index differential value information exists; decoding size information about a first slice; decoding the tile index differential value information about the first slice, if the first flag is true; and determining, on the basis of the tile index differential value information, the index

of a second tile positioned at the left top of a second slice.



21: 2021/10234. 22: 2021/12/09. 43: 2023/02/03
 51: G01F; G06N
 71: ENDRESS+HAUSER GROUP SERVICES AG
 72: Jenish GHEEWALA, Dimitri VAISSIERE, Matthias BREZINGER, Dhiren NAIDOO, Taylor MCKERTICH, Nicolas CADIZ
 33: DE 31: 10 2019 118 413.4 32: 2019-07-08
54: METHOD OF DETERMINING AN INTERFACE HEIGHT OF AN INTERFACE BETWEEN AN UPPER AND A LOWER LAYER COMPRISED IN A THICKENER

00: -
 A Method of determining an interface height (h) of an interface (1) between an upper layer (3) and a lower layer (5) comprised in a container (7) of a thickener (9), wherein said thickener (9) is designed to perform a thickening process, wherein particles suspended in a medium supplied to the container (7) are separated from a liquid comprised in the medium, and wherein said upper layer (3) comprises said liquid floating on said lower layer (5) comprising said particles, is described, which improves the availability of the determination of the interface height. This method comprises the method steps of: measuring said interface height (h) with an interface level measurement device (L) installed on said thickener (9) during time periods, when conditions prevailing at said thickener (9) permit performance of these measurements, with a group of measurement devices installed on said thickener (9) measuring process variables (v1,..., vn) related to the thickening process performed by the thickener (9), and at least once calculating and providing a calculated interface height (hc) with a calculating unit (35) based on said measured process variables (v1,..., vn) provided to said calculating unit (35), wherein said calculating unit (35) is designed to learn said calculation of said calculated interface height (hc) based on said measured interface heights (hm) and said measured

process variables (v1,..., vn) measured during at least one of said time periods and provided by said interface level measurement device (L) and said measurement devices.

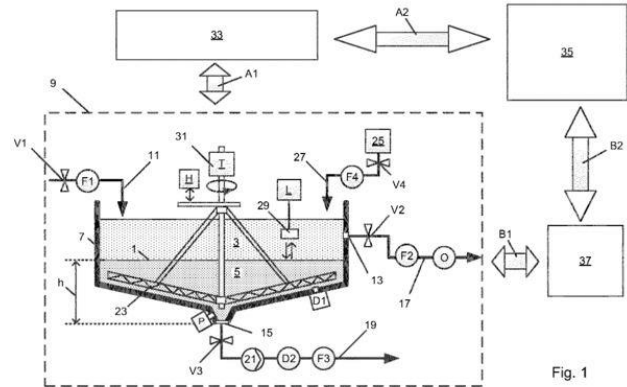
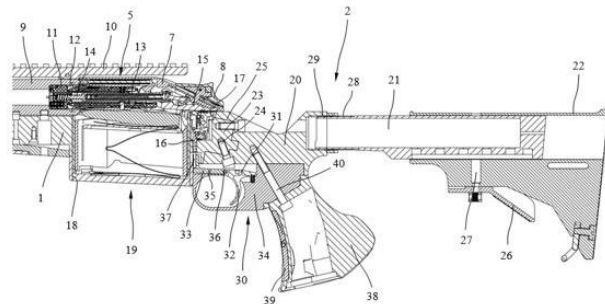


Fig. 1

21: 2021/10384. 22: 2021/12/14. 43: 2023/02/03
 51: F41A; F41C
 71: BLASER GROUP GMBH
 72: Peter WIEDEMANN, Paul SEIDL, Martin VETTER, Henry WALTER, Jürgen ROTHÄRMEL, Robin MARX, Thomas MACHER
 33: DE 31: 10 2020 133 914.3 32: 2020-12-17
54: BUTTSTOCK OF A SMALL ARM AND SMALL ARM WITH SUCH A BUTTSTOCK

00: -
 The invention relates to a buttstock (2) of a small arm with a front connection area (25) for a positive connection to a receiver (1). In order to permit increased cartridge capacity, a trigger unit (30) with a trigger latch (32) and a transfer element (33) extending forward for connection of the trigger latch (32) to a trigger mechanism (16, 17) arranged in receiver (1) is positioned on buttstock (2).

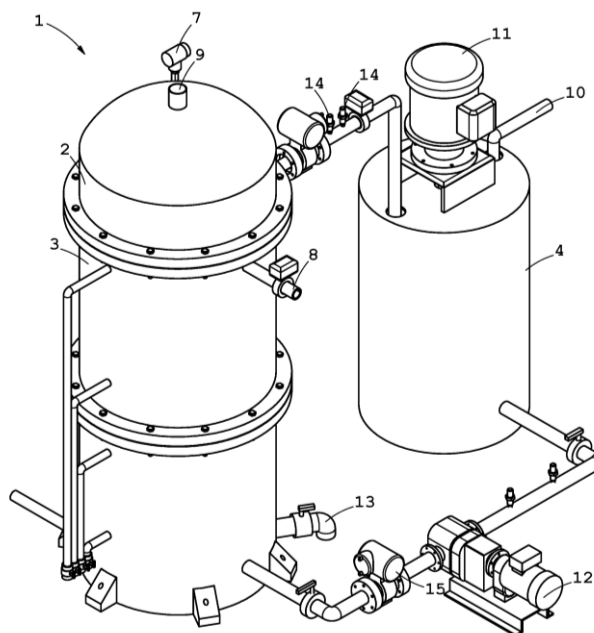


21: 2021/10385. 22: 2021/12/14. 43: 2023/02/03
 51: A01J; G01D; G01F
 71: BARTEC BENKE GMBH

72: Dipl.-Ing. Alois SÜSS, Gernard Alois KAPPL, Martin NAGL, Dieter LERACH
 33: DE 31: 10 2020 007 971.7 32: 2020-12-23
54: APPARATUS FOR CONVEYING A MEDIUM, PREFERABLY MILK

00: -
 In the apparatus, medium, preferably milk, is conveyed from a delivery tank (1) into a receiving tank (2) by means of at least one pump. The suction side of the pump (8) is in flow connection with the delivery tank (1) and its pressure side with the receiving tank (2). The tank has at least one chamber (23 to 25) into which a feed line (26 to 28) opens. The chamber (23 to 25) is provided with a flushing line (35 to 37) which is flow-connected to the pressure side of the pump (8) via the suction side and in which there is a shut-off valve (40 to 42). At the end of the pumping process, the flushing line (35 to 37) is opened so that the supply line (26 to 28) leading to the receiving tank (2) can be flushed using the bubble-free and foam-free medium in the receiving tank (2).

enables metal precipitation as metal sulphides to form a treated solution, and extracting the treated solution from the vessel.

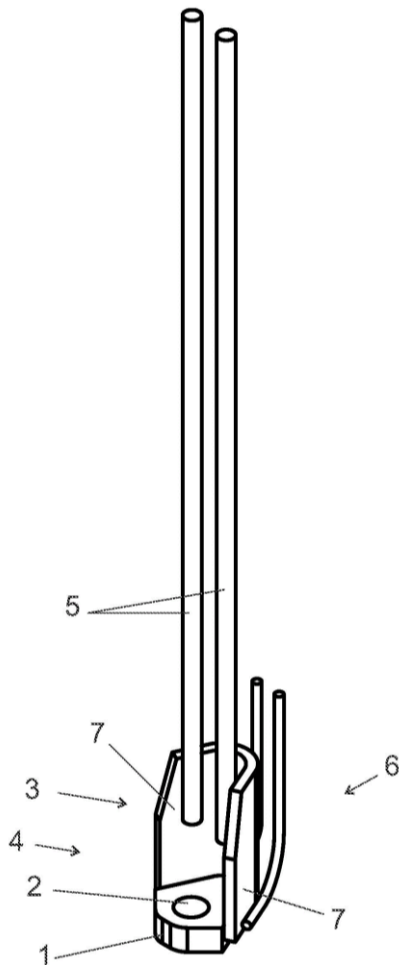


21: 2021/10471. 22: 2021/12/15. 43: 2023/02/09
 51: C02F
 71: UNIVERSITY OF JOHANNESBURG
 72: THISANI, Sandisiwe Khanyisa, KALLON, Daramy Vandi Von
 33: ZA 31: 2020/05950 32: 2020-09-28
54: ANAEROBIC DIGESTION OF ACID MINE DRAINAGE AND WASTEWATER EFFLUENT

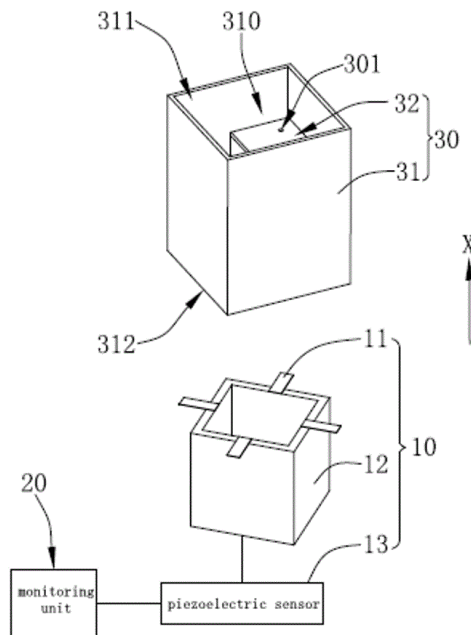
00: -
 This invention relates to anaerobic digestion of acid mine drainage and wastewater effluent and more specifically to a method of treating acid mine drainage in an anaerobic digester. In accordance with the invention there is provided a method of treating acid mine drainage and wastewater effluent comprising: providing a pervious formation of set coarse aggregate and an alkaline binder, impregnating the formation with a population of microorganisms including sulphate reducing prokaryotes, mixing a carbon source containing chemical oxygen demand with untreated acid mine drainage water to form an AMD mixture, combining the COD and AMD mixture and the pervious formation in a vessel, retaining the COD and AMD mixture and pervious formation in the vessel such that the microbial population digests the organic matter content, reduces sulphate to sulphide and

21: 2021/10804. 22: 2021/12/22. 43: 2022/11/29
 51: E02D; E04B
 71: Peikko Group Oy
 72: KINNUNEN, Jorma
 33: FI 31: 20195632 32: 2019-07-12
54: COLUMN SHOE FOR FASTENING REINFORCED CONCRETE COLUMNS TO A BASE

00: -
 Presented is a column shoe for fastening reinforced concrete columns to a base. The column shoe comprises a bottom plate (1), a side wall member (3) fastened to the bottom plate (1) for providing a bolt casing (4) of the bottom plate (1) and the side wall member (3), main bonds (5), and back bond means (6). The angle α between the side plate sections (7) being between about 40° and about 60°, and the back bond means (6) comprising a back anchor (9) fastened to the back surface (12) of each side plate section (7) that face away from one another.



and used to generate precipitation grade information based on the amount of triggered cantilevers and under the actuation of electrical energy. The precipitation monitoring by using the present invention is of high reliability and high monitoring efficiency.



21: 2022/01244. 22: 2022/01/26. 43: 2023/01/23
 51: G01W
 71: QINGDAO UNIVERSITY , BINZHOU UNIVERSITY, BINZHOU BOHAI PISTON CO., LTD
 72: Deng, Lijun, Hao, Guannan, Liu, Rui

33: CN 31: CN202111148871.4 32: 2021-09-19
54: DEVICE, METHOD, SYSTEM AND STORAGE MEDIUM FOR PRECIPITATION MONITORING

00: -
 The present disclosure relates to a device, a method, a system and a storage medium for precipitation monitoring. The precipitation monitoring device comprises: a piezoelectric power generation unit comprising at least two elastic cantilevers, each of which is triggered when receiving dripping characteristic fluid, the piezoelectric power generation unit is used to transform the kinetic energy generated by each triggered elastic cantilever into electrical energy; a monitoring unit connected to the piezoelectric power generation unit

21: 2022/01625. 22: 2022/02/07. 43: 2022/09/26
 51: C12N; C12Q

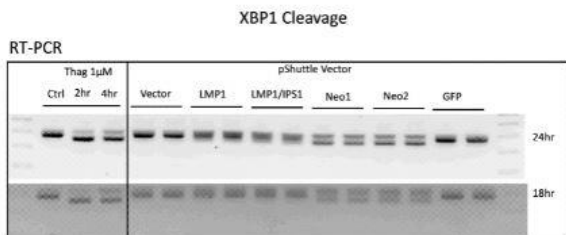
71: NANTOMICS, LLC, NANTBIO, INC.
 72: WNUK, Kamil A, GEISSERT, Lise, SUDOL, Jeremi, VASKE, Charles Joseph, SZETO, Christopher, BENZ, Stephan Charles, TSAI, Connie, NIAZI, Kayvan

33: US 31: 62/885,089 32: 2019-08-09

54: MACHINE METHODS TO DETERMINE NEOEPITOPE PAYLOAD TOXICITY

00: -
 Systems and methods are presented that allow for determination and prediction of payload toxicity in therapeutic viruses. Disclosed herein are methods of determining payload toxicity of an expressed polypeptide in a cell, comprising: generating or procuring a plurality of expression vectors, each containing a different recombinant nucleic acid sequence that encodes a corresponding recombinant polypeptide; expressing the recombinant nucleic acid sequence in a plurality of host cells while culturing the host cells; sequencing

the majority of expression vectors after culturing the host cells; and correlating at least portions of the recombinant nucleic acid sequence with a toxicity measure.



21: 2022/02827. 22: 2022/03/09. 43: 2022/09/26

51: F42D

71: LUBBE, Gert, Petrus

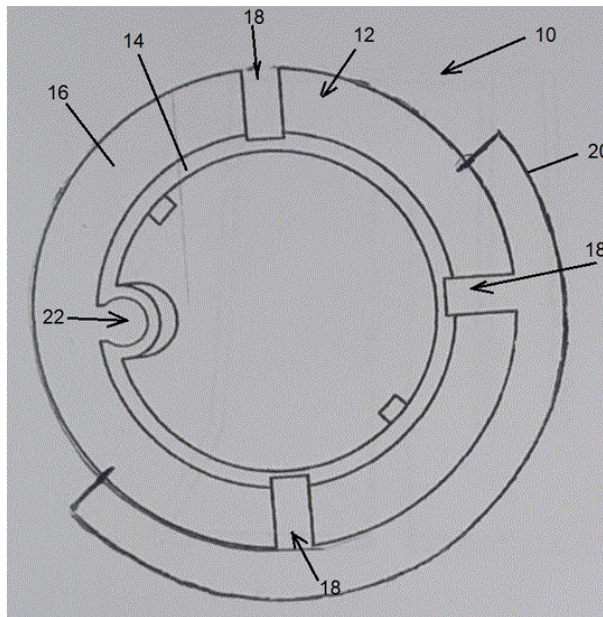
72: LUBBE, Gert, Petrus

54: BLAST HOLE PLUG

00: -

The invention provides a blast hole plug of resiliently flexible material. The blast hole plug includes a bucket shaped portion including a first generally frusto conically shaped portion and a second generally frusto conically shaped portion extending outward from the operatively upper edge of the first portion and which bucket portion is provided with a first slit extending operatively downward from the upper edge of a wall of the bucket shaped portion and further provided with two or more additional slits extending operatively downward from the upper edge of the wall of the bucket shaped portion with the additional slits extending up to the upper edge of the first generally frusto conically shaped portion.

The plug further includes a handle extending from an area proximate the edge on one side of the first slit to an area proximate the edge on the other side of the first slit such that, when the handle is pulled, the slit will narrow and the diameter of the bucket shaped portion will become less to allow the plug to be removed from the hole.



21: 2022/02923. 22: 2022/03/10. 43: 2023/02/09

51: B01D

71: Gideon PINTO

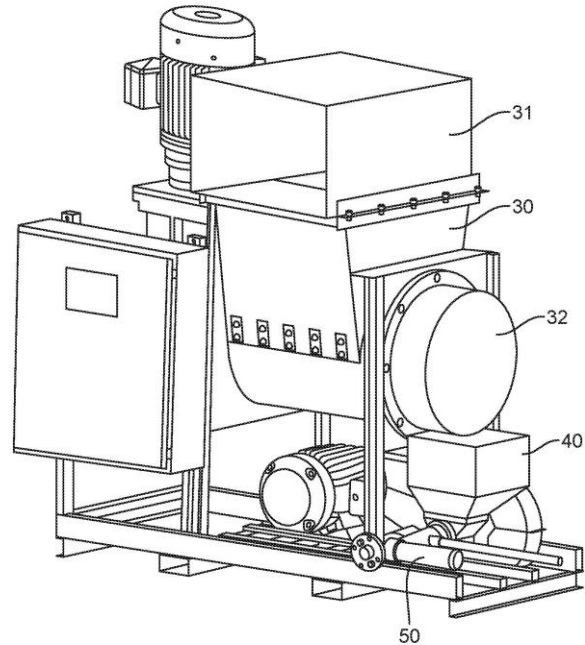
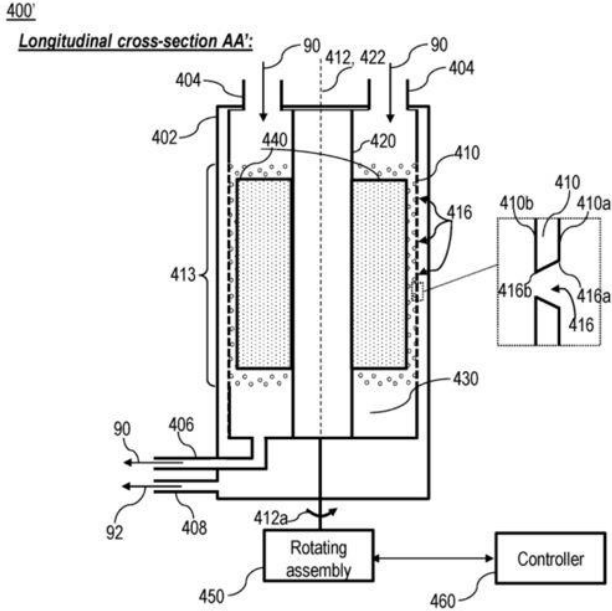
72: Gideon PINTO

33: US 31: 62/905,469 32: 2019-09-25

54: SELF CLEANING DEVICE AND METHOD FOR CONTINUOUS FILTRATION OF HIGH VISCOSITY FLUIDS

00: -

A method of continuous filtration of contaminants from a contaminated viscous fluid, the method may include: pumping the contaminated viscous fluid between a non-perforated surface being a first cylinder and a second perforated surface being a second cylinder disposed substantially parallel to each other at a defined first gap, moving the non-perforated surface and the perforated surface with respect to each other at a defined relative speed, wherein the second cylindrical body includes one or more longitudinal fins protruding from second cylindrical body into the first gap towards the perforated surface of the first cylindrical body thereby forming a second gap between the distal tips of the fins and the perforated surface, thereby forcing movement of the contaminated viscous fluid in a direction substantially parallel to the relative speed thereby generating a shear rate in the contaminated viscous fluid near the perforated surface in the direction substantially parallel to the relative speed.



21: 2022/02989. 22: 2022/03/11. 43: 2022/12/08

51: B29D; B60C

71: Carlisle Construction Materials, LLC

72: LITTLE, Jeff, BISHOP, John

33: US 31: 62/899,466 32: 2019-09-12

54: SYSTEM FOR PREDICTING AUGER FAILURE IN A TIRE INJECTION FILLING MIXING MACHINE

00: -

A method of performing preventative maintenance on an auger in a tire filling mixing machine, by: (a) mixing a polyurethane isocyanate and a catalyst in a first mixer to form a virgin polyurethane; (b) grinding polyurethane core bits in a grinder, the grinder having an auger and a motor; (c) mixing the virgin polyurethane and the ground core bits in a second mixer thereby forming a mixed flatproofing material; (d) injecting the mixed flatproofing material into a tire; (e) measuring vibration of the auger; and (f) comparing the measured vibration of the auger to a predefined maximum vibration; and (g) removing the auger from the grinder if the measured vibration exceeds the pre-defined maximum vibration for a predefined period of time, or removing the auger from the grinder if the measured temperature of the auger exceeds the pre-defined maximum temperature for a predefined period of time.

21: 2022/03242. 22: 2022/03/18. 43: 2022/12/08

51: A61K

71: Givaudan SA

72: REYNAUD, Romain, SENNELIER PORTET, Benedicte, TENON, Mathieu

33: GB 31: 2103822.9 32: 2021-03-19

54: COSMETIC COMPOSITIONS

00: -

The present invention relates to compositions comprising retinol, an oil and carnosic acid, where the composition reduces or prevents the oxidation of retinol and/or enhances the oxidative stability of retinol. The present invention also relates to formulations comprising the composition, as well as to uses and methods of reducing or preventing oxidation of retinol and/or enhancing the oxidative stability of retinol and process for preparing such compositions.

21: 2022/03328. 22: 2022/03/22. 43: 2023/02/09

51: E04C

71: Allen Clive FIFORD

72: Allen Clive Fiford

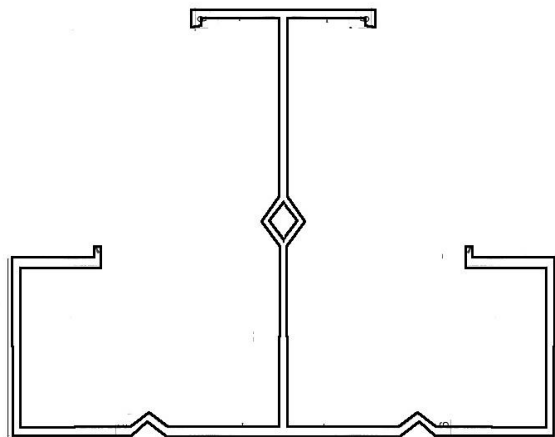
33: ZA 31: 2021/00830 32: 2021-02-08

54: CONSTRUCTION REINFORCING UNIT AND METHOD OF REINFORCING A CONCRETE SLAB

00: -

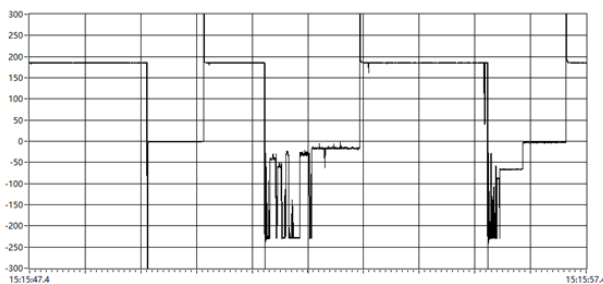
A reinforced construction member comprising a base which serves inter-alia to form the base of each rib, wherein there are vertical rims extending upwardly

from the edges of the base and horizontal flanges extending inwardly from the upper edges of the rims.



21: 2022/03568. 22: 2022/03/28. 43: 2023/01/16
 51: C07K; C12N
 71: QITAN TECHNOLOGY LTD., BEIJING
 72: LIU, Shaowei, ZHOU, Ya, CHEN, Chengyao
 33: CN 31: 201910936954.6 32: 2019-09-29
54: MNEP MONOMER VARIANT AND APPLICATION THEREOF

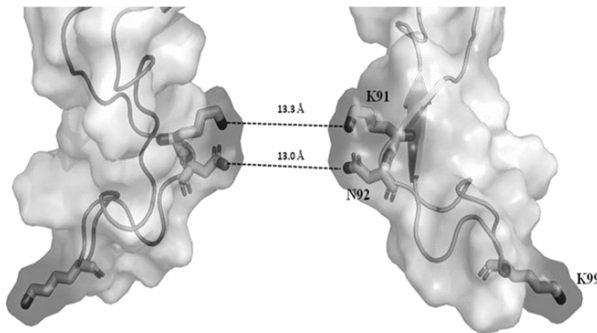
00: -
 Provided are a Mnep monomer variant comprising an amino acid sequence with any one or plurality of amino acid mutations at positions 92-104 of SEQ ID NO: 1, a pore protein or construct comprising at least one Mnep monomer variant, and a use thereof. Also provided is a method for characterising a target polynucleotide.



21: 2022/03618. 22: 2022/03/29. 43: 2023/01/16
 51: C07K; C12N; C12Q; G01N
 71: QITAN TECHNOLOGY LTD., BEIJING
 72: LIU, Shaowei, ZHOU, Ya, CHEN, Chengyao
 33: CN 31: 201910936950.8 32: 2019-09-29
54: MMUP MONOMER VARIANT AND APPLICATION THEREOF

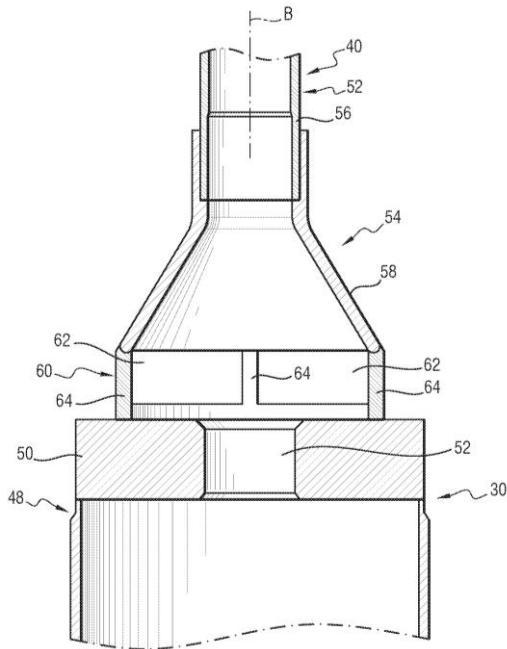
00: -

The present invention provides an Mmup monomer variant comprising an amino acid sequence of any one or more amino acid mutations at positions 91-99 of SEQ ID NO: 1, and a pore protein or construct comprising at least one Mmup monomer variant and a use thereof. The present invention also provides a method for representing a target polynucleotide.



21: 2022/03675. 22: 2022/03/30. 43: 2023/01/27
 51: G21C
 71: FRAMATOME INC.
 72: MELCHER, Ryan, GRAVES, Charles
54: NUCLEAR REACTOR HEAD, NUCLEAR REACTOR COMPRISING SUCH A NUCLEAR REACTOR HEAD AND METHOD OF MAINTAINING A NUCLEAR REACTOR

00: -
 A nuclear reactor head (12) comprising a vessel top head (14), a penetration (36) extending through the vessel top head (14) along a penetration axis (B) for allowing passage of a control shaft (34) of a control rod drive mechanism (32) through the vessel top head (14) and to a corresponding control guide tube (30) of the nuclear reactor (2), the penetration (36) comprising a penetration tube (38) extending through the vessel top head (14) and a thermal sleeve (40) extending inside the penetration tube (38) and coaxially with the penetration tube (38) with an axial play between the thermal sleeve (40) and the penetration tube (38), wherein the nuclear reactor head further comprises a spacer (60) attached to a lower end of the thermal sleeve (40) for maintaining minimal spacing with the upper end of the corresponding control rod guide tube (30).



21: 2022/03905. 22: 2022/04/06. 43: 2023/01/20
51: E21D

71: EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD

72: ABREU, RUAL, KNOX, Greig, GREYVENSTEYN, James

54: A MODIFIED ROCK ANCHOR ASSEMBLY

00: -

[0008] The invention provides a modified rock anchor assembly which includes an elongate cable which extends between a distal end and a proximal end and which has a threaded proximal end portion, a tubular sleeve fixedly engaged to the cable and which has at least one locking element, a mechanical anchor engaged with the cable towards the distal end, a faceplate on the cable, a grout inlet assembly engaged with the cable between the faceplate and the proximal end, a nut engaged with the threaded proximal end portion of the cable, and a locking tube over a length of the cable, which has a trailing end section which extends between the grout inlet assembly and the faceplate and which has a locking formation which is adapted to engage the locking element thereby to prevent the cable element from twisting when the mechanical anchor is engaged with walls of a rock hole into which the rock anchor assembly is inserted in use and when torque is applied to the nut to force the faceplate into load bearing support with a rock face adjacent the

rock hole and to clamp the trailing end section between the grout inlet assembly and the faceplate.

21: 2022/03978. 22: 2022/04/07. 43: 2023/02/03
51: F04B; F04C

71: WATSON MARLOW GMBH

72: Dr. Alois KRUTZENBICHLER, Lars FREIHERR VARNBÜLER VON UND ZU HEMMINGEN-REDSCHLAG, Raymond RITSCHKA, Nico HAUG
33: DE 31: 10 2019 128 678.6 32: 2019-10-23

54: CONVEYING DEVICE AT LEAST FOR CONVEYING A FLUID AND PUMP HAVING SUCH A CONVEYING DEVICE

00: -

The invention relates to a conveying device at least for conveying a fluid, having at least one conveying chamber (18), at least one conveying chamber element (20) that at least partially delimits the conveying chamber (18) and is designed in a dimensionally stable manner, at least one elastically deformable, more particularly annular, conveying element (22), more particularly a conveying membrane, which together with the conveying chamber element (20) delimits the conveying chamber (18) and is arranged on the conveying chamber element (20), and at least one pressing unit (96) which, more particularly at least in a non-conveying state of the conveying element (22), is provided to generate a non-homogeneous pressing force at least in a sealing region (102) between the conveying element (22) and the conveying chamber element (20) along a maximum total extent of the sealing region (102), more particularly along a maximum circumferential extent between the conveying element (22) and the conveying chamber element (20). According to the invention, the pressing unit (96) is designed such that more particularly at least in a non-conveying state of the conveying element (22), the conveying element (22) has a non-homogeneous compression along the maximum total extent of the sealing region (102), more particularly along a maximum circumferential extent of the annular conveying element (22), wherein the conveying element (22) is compressed to different degrees by the pressing unit (96), more particularly as a result of a geometric design of a pressing surface (104) of a pressing element (98, 100) of the pressing unit (96), along the maximum total extent of the sealing region (102), more

particularly along the maximum circumferential extent of the annual conveying element (22).

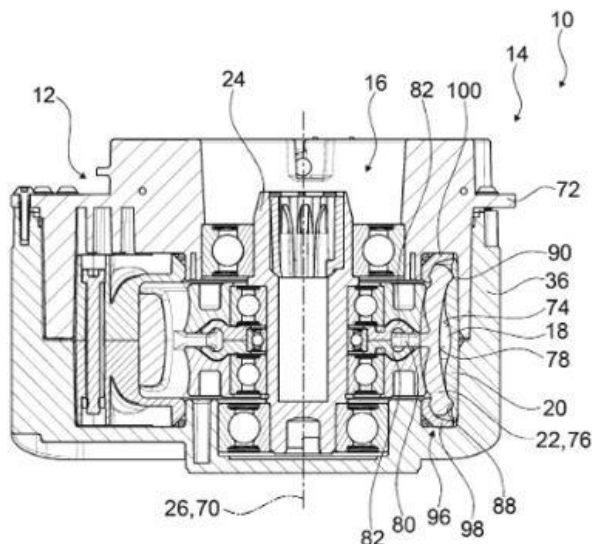


Fig. 4

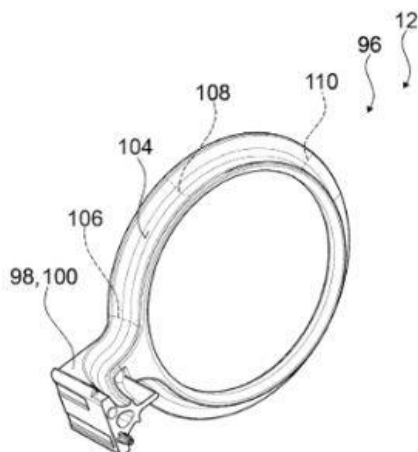
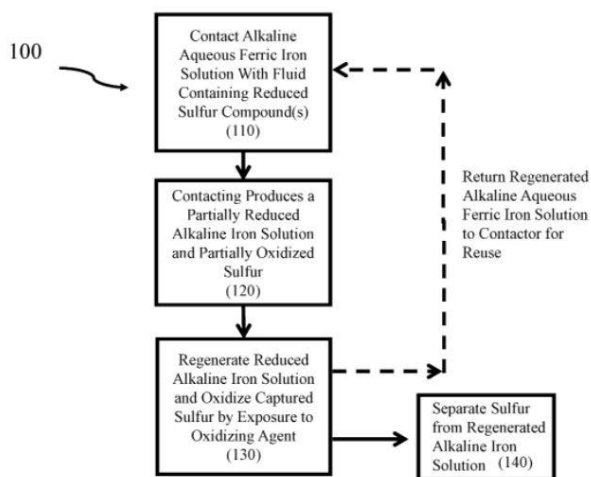


Fig. 9

for capture and oxidation of reduced sulfur compounds. Alkaline aqueous ferric iron salt and solutions thereof useful for removing reduced sulfur compounds from fluids and various methods of production of such salts and solutions. In addition, methods of regenerating the alkaline aqueous ferric iron salt solutions after capture of hydrogen sulfide or other reduced sulfur compounds, generally by exposure to oxygen in air. The alkali metal carbonate salt preferably comprises potassium carbonate and/or potassium bicarbonate. The alkaline aqueous ferric iron salt solutions generally comprise ferric ions, potassium ions, carbonate ions, and bicarbonate ions, optionally with one or more organic additives. In addition, aqueous-soluble, ferric iron salts and ferric iron containing solids prepared by removal of aqueous medium from solutions herein.



21: 2022/04215. 22: 2022/04/13. 43: 2023/01/25
 51: B01D
 71: NEW SKY ENERGY, LLC
 72: LITTLE, Charles Deane, YEAGER, Yasmina
 33: US 31: 62/924,166 32: 2019-10-21
 33: US 31: 63/029,405 32: 2020-05-23
 33: US 31: 63/032,600 32: 2020-05-30
54: METHODS FOR PRODUCING AND USING ALKALINE AQUEOUS FERRIC IRON SOLUTIONS

00: -
 Methods for removing reduced sulfur compounds, such as hydrogen sulfide, from fluids employing a ferric iron salt that exhibits unusually high solubility in aqueous, alkaline solutions and has strong affinity

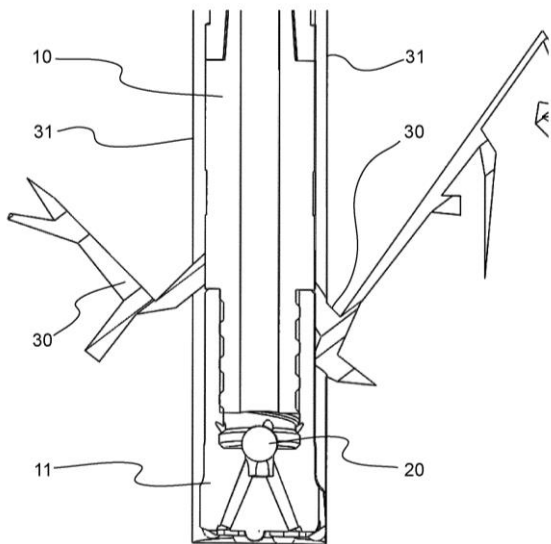
21: 2022/04217. 22: 2022/04/13. 43: 2023/01/20
 51: E21B; F42D

71: L&T MINING SOLUTIONS OY
 72: TANAKANEN, Lasse, TANAKANEN, Timo
 33: EP 31: 19206360.0 32: 2019-10-30

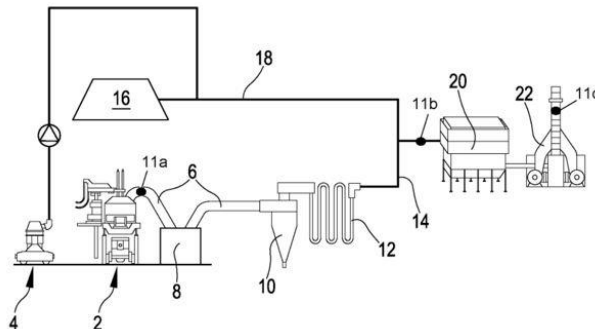
54: A METHOD AND A DRILL BIT FOR SEALING A BLASTHOLE WALL

00: -
 A method and a drill bit (11) for sealing a blasthole wall (31) are disclosed. The method comprises drilling a blasthole to a rock by a drill bit (11) connected to a hollow drill rod (10); flushing the drill bit (11) and the hollow drill rod (10) via at least one flushing orifice (19); providing a sealant to the hollow drill rod (10); and releasing the sealant to the blasthole wall (31) while lifting the drill bit (11). The

drill bit (11) comprises a flushing orifice (19) and a sealant orifice (12), wherein the flushing orifice (19) is below the sealant orifice (12); and the method comprises covering the flushing orifice (19) after completing drilling the blasthole; providing the sealant to the drill bit (11); and releasing the sealant via the sealant orifice (12) while lifting the drill bit (11).



system comprised in said process fume exhaust plant, wherein said tracer chemical is deuterated water. The invention further refers to a Plant for the production of metals or alloys.



21: 2022/04434. 22: 2022/04/20. 43: 2023/02/03
 51: C21B; F27D; G01M
 71: DANIELI & C. OFFICINE MECCANICHE S.P.A.
 72: Alessandra PRIMAVERA, Stefano TERLICHER, Alessio MILOCCO
 33: IT 31: 102019000020470 32: 2019-11-06
54: PROCESS FOR DETECTING WATER LEAKS FROM SMELTING FURNACES IN METAL OR ALLOY PRODUCTION PLANTS AND RELATED PLANT

00: -
 The invention concerns a process for detecting water leaks in smelting furnaces (2; 4) or in metal or alloy treatment plants, comprising the following steps: (i) providing at least one smelting furnace (2; 4), or at least one metal or alloy treatment plant provided with a water cooling system (5) and being connected to a process fume exhaust system; (ii) mixing in the cooling water a tracer chemical which is volatile in the event of water leakage together with the exhaust gases and which is suitable to be detected by an analysis system of the exhaust gases; and (iii) detecting said tracer chemical contained in the exhaust gases by said analysis

21: 2022/04606. 22: 2022/04/25. 43: 2022/11/30
 51: C01B; H01M
 71: ECOGRAF LIMITED
 72: FREY, Christoph
 33: AU 31: 2020901589 32: 2020-05-18
54: METHOD OF PRODUCING PURIFIED GRAPHITE
 00: -

A two-stage method of producing purified graphite is described. The first stage of the method comprises the steps of subjecting graphite material to a caustic bake (14) and releasing any remaining caustic using water (16, 18). The graphite material is then subjected to a first acid wash (20). Neutralising and washing the acid washed graphite material is then performed (22, 24) to deliver an intermediate purified graphite product (28). In the second stage the intermediate purified graphite product is subjected to a low temperature caustic leach (34). Any remaining caustic in the intermediate purified graphite product is released using water (35, 36, 38), and the intermediate purified graphite product is subjected to a second acid wash (40). Finally, neutralising and washing the intermediate purified graphite product is performed (42, 44, 45) to deliver a final purified graphite product (46) with a purity of 99.95%C and above.

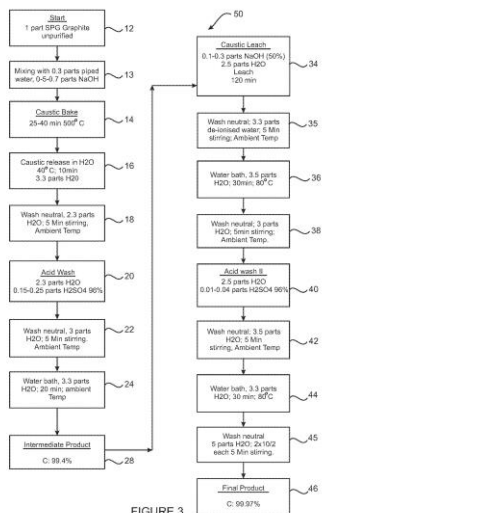


FIGURE 3

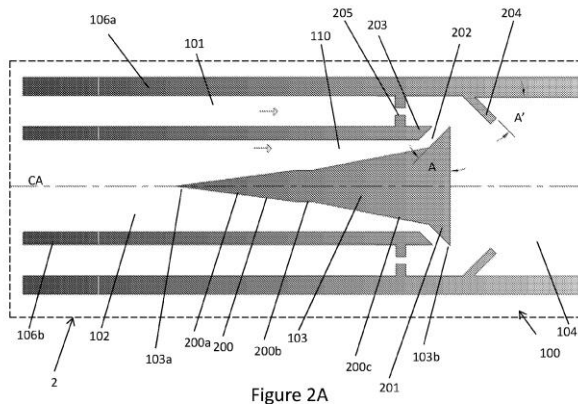


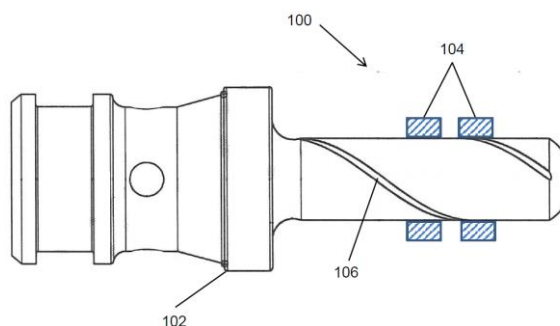
Figure 2A

21: 2022/04839. 22: 2022/05/03. 43: 2022/10/26
51: E21B; F16C

71: THE BÜHRMANN TRUST
72: BÜHRMANN, Rudolph
33: ZA 31: 2021/02959 32: 2021-05-03

54: A SEAL ARRANGEMENT

00: -
The invention relates to a seal arrangement for a hydraulic machine comprising. A reciprocating part that is located through at least one seal. The reciprocating part includes a groove that extends along the part to traverse the at least one bearing seal. The arrangement also provides a method of causing axial rotation of the reciprocating part. The groove preferably extends as a spiral around the part, which may be a plunger or a piston in a hydraulic rock drill or similar hydraulic mechanisms.



21: 2022/04933. 22: 2022/05/05. 43: 2022/11/09
51: E21B; F16L

71: FLEXIDRILL LIMITED
72: SCHICKER, Owen, LYONS, Gareth
33: NZ 31: 759599 32: 2019-11-27

54: IMPROVEMENT RELATING TO DRILL RODS

00: -
A drill rod for assembly with other drill rods to form a drillstring used for fluid reverse circulation drilling

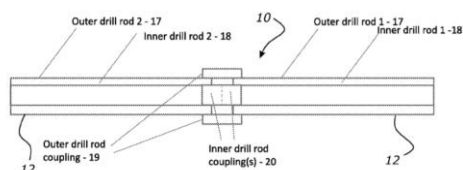
21: 2022/04680. 22: 2022/04/26. 43: 2023/01/24
51: B01J; C10G

71: LUMMUS TECHNOLOGY LLC
72: CHEN, Liang, LOEZOS, Peter, SINGH, Hardik, MARRI, Rama Rao, TOMSULA, Bryan, HOOD, Jon, HARIHARAN, Vish, CLAUDE, Alan, BRECKENRIDGE, Justin, CASTAGNOS, Leonce
33: US 31: 62/930,419 32: 2019-11-04

54: FLUID CATALYTIC CRACKING FEED INJECTOR

00: -
A feed injector may have a body having an outer wall and an inner wall with a first conduit formed between the outer wall and the inner wall. The first conduit is configured to receive a atomizing gas. Additionally, a second conduit may be formed by the inner wall, and the second conduit is configured to receive a liquid. The first conduit and the second conduit are separated by the inner wall. Further, a mixing chamber may be provided at an outlet of the first conduit and an outlet of the second conduit. The atomizing gas from the first conduit and the liquid from the second conduit hit and/or mix together in the mixing chamber to form liquid droplets and a mixture of the atomizing gas and the liquid. Furthermore, a flow cone may have a first end in the second conduit and a second end in the mixing chamber.

comprising: an outer drill rod comprising a lightweight drill rod used in core drilling with a bore, an inner drill rod comprising a bore, a first coupling member removably coupled to one end of the inner drill rod, a second coupling member removably coupled to a second end of the inner drill rod, wherein the first and second coupling members centre the inner drill rod within the outer drill rod.



21: 2022/05134. 22: 2022/05/10. 43: 2023/01/30
51: A01G

71: Guizhou Institute of Biology, Guizhou Botanical Garden, Guizhou University

72: LIU Yingying, ZHANG Zhenming, ZHANG Jiachun, ZENG Xianping, LUO Wenmin, MU Guiting, WU Xianliang

54: CUTTING PROPAGATION METHOD OF TRACHELOSPERMUM COMPLEX ARBUSCULAR MYCORRHIZA

00: -

The invention provides a cutting propagation method of trachelospermum complex arbuscular mycorrhiza, which comprises the following steps: preparing arbuscular mycorrhizal fungal inoculum, configuring cutting plug, selecting cuttings, cutting cuttings, and transplanting, wherein the cutting substrate is made of 10- 15 parts of claroideoglomus etunicatum, and 10- 15 parts of Acaulospora mellea, 10-15 parts of G.microaggregatum Koske, Gemma Olexia, 200-250 parts of clover, 100- 50 parts of corn, 200-250 parts of river sand, 200-250 parts of, 400- 450 parts of peat soil, 0.1- 0.3 parts of CaCl₂, 0.1- 0.3 parts of FeCl₂. The propagation method has the advantages of simple operation, high rooting speed, strong seedling stress resistance, wide and reliable source of propagation materials, high survival rate after transplantation and low production cost, and can realize the industrialized development of trachelospermum.

21: 2022/05135. 22: 2022/05/10. 43: 2023/01/30
51: A01G

71: Institute Of Water Resources for Pastoral Area, MWR

72: ZHANG Xin, GUO Jianying, LIU Tiejun, ZHANG Tiegang, ZHANG Huitong, YANG Zhenqi, BAI Luyi, HU Jinghua

54: POROUS MATERIAL FOR WATER-RETAINING, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a porous material for water-retaining, a preparation method and application thereof, and belongs to the technical field of material preparation. The water-retaining material comprises the following raw materials in parts by mass: 20-30 parts of modified coal gangue, 15-18 parts of carboxymethyl cellulose, 7-12 parts of magnesium phosphate cement, 6-10 parts of chitosan and 5-7 parts of montmorillonite. The water-retaining material prepared by the invention has good water-retaining performance and low cost, and can be widely popularized in agriculture and forestry.

21: 2022/05136. 22: 2022/05/10. 43: 2023/01/30
51: A61F

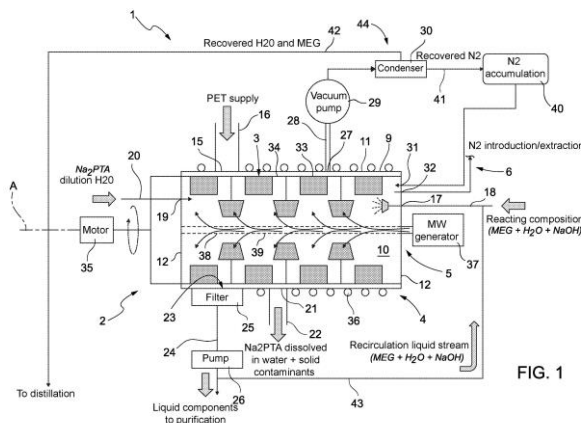
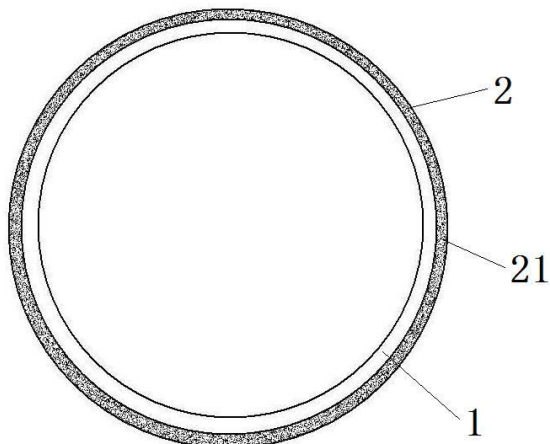
71: The First Affiliated Hospital Of University Of South China

72: YANG Jun, YANG Qi, LIU Wei, YANG Ting, CHU Chun, HU Hongmin, LI Xiegui, ZHAO Junxiong, NIE Liangui, LIU Shengquan

54: PREPARATION METHOD OF INTRAVASCULAR DRUG STENT AND PRODUCT THEREOF

00: -

The invention provide a preparation method of an intravascular drug stent and a product thereof, belonging to that technical field of medical device. The intravascular drug stent is prepared by spraying drug mixture on the outer surface of the pretreated intravascular stent; Wherein, the drug mixture is a mixture of finished nanospheres, acid-containing chitosan solution and acid-containing type IV collagen solution. The intravascular drug stent prepared by the invention can effectively inhibit the hyperproliferation of smooth muscle cells, and reduce the inhibition of endothelial repair; moreover, the nano-microspheres in the coating layer are conducive to uniform and slow release, improve the drug intervention effect, and effectively prevent restenosis and thrombosis after angioplasty.



21: 2022/05171. 22: 2022/05/10. 43: 2022/12/14
 51: B01J; C08J
 71: GR3N SA
 72: CRIPPA, Maurizio
 33: IT 31: 102019000020784 32: 2019-11-11
54: APPARATUS AND METHOD FOR DEPOLYMERIZATION OF POLYMERS
 00: -

An apparatus (1) for depolymerization of polymers, in particular polyesters, polyamides, polyurethanes and polycarbonates, comprises a microwave depolymerization reactor (2) having a reaction chamber (10); a microwave generation and transport system (5) to send microwaves into the reaction chamber (10) and comprising a microwave generator (37) and a guide device (38) housed in the reaction chamber (10) to convey and distribute microwaves in the reaction chamber (10); a mixing device (3), rotating around the axis (A) in the reaction chamber (10) and configured so as to dynamically distribute inside the reaction chamber (10) a mixture of liquids and solids contained in the reaction chamber (10); and a pressurization system (6) configured to vary the pressure within the reaction chamber (10).

21: 2022/05195. 22: 2022/05/11. 43: 2022/11/11
 51: E04H
 71: USHER, Shaun Terrence
 72: USHER, Shaun Terrence
54: SWIMMING POOL CLEANER
 00: -

The invention is for a skimmer insert, which includes a fine mesh bag and attachment means provided on the bag for attaching onto a swimming pool rake such that the bag overlays a net of the swimming pool rake. The mesh size of the fine mesh bag is 75 micron. The fine mesh bag is constructed from sheet material folded into itself with the side seams adhered to each other to form a sock shaped bag with an open mouth. The invention extends to a swimming pool rake, which includes a pole, a hoop frame connected to one end of the pole, a primary net attached to the hoop frame to define a netted scoop and a removable skimmer insert, consisting of a fine mesh bag having attachment means provided on the fine mesh bag for attaching onto the hoop frame such that fine mesh bag overlays the primary net.

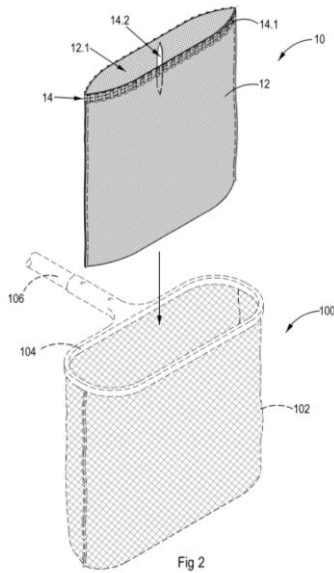


Fig 2

71: DEXAR TECHNOLOGIES (PTY) LTD
 72: LINGENFELDER, Denaè
 33: ZA 31: 2021/01229 32: 2021-02-24
54: CONTAINERS

00: -
 The invention relates to a corpse transportation container, which includes a generally rectangular lower base shaped and dimensioned to receive a corpse therein; and a generally rectangular upper lid, fitting onto the lower base, the base and lid being of a polymeric material. The polymeric material includes a UV-stabiliser and an antimicrobial component. The UV-stabiliser may be in the form of one or more chemical additives added to the polymeric material and the antimicrobial component may be in the form of silver colloids, dispersed throughout a polymer matrix of the material. The corpse transportation container is manufactured by way of rotational moulding. The lid seals hermetically on the base.

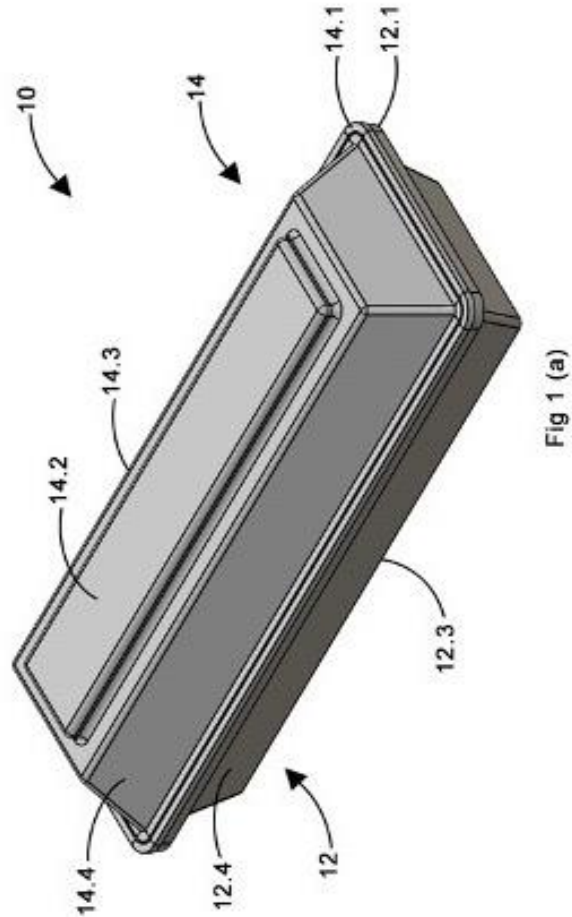
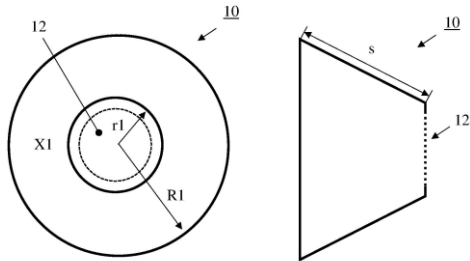


Fig 1 (a)

21: 2022/05440. 22: 2022/05/17. 43: 2022/11/23
 51: F42B
 71: BAE Systems Bofors AB
 72: HAGBERG, Anders, PETTERSSON, Thomas
 33: SE 31: 1900214-6 32: 2019-12-20
54: BRAKE ARRANGEMENT FOR A PROJECTILE
 00: -
 The invention relates to a brake (10, 20, 30, 40, 50) for detachable arrangement on projectiles, characterized in that the brake is configured with a surface (X1, X1', X2, X2', X3, X4, X5) which is situated in the direction of travel of the projectile, where the surface (X1, X1', X2, X2', X3, X4, X5) is larger than a surface (X) given by pR^2-pr^2 , where R is the outer radius of the brake (R1, R1', R2, R2', R3, R4, R5) and r is the inner radius (r1, r1', r2, r2', r3, r4, r5) of the brake. The invention furthermore consists of a method for braking projectiles.



21: 2022/05619. 22: 2022/05/23. 43: 2022/11/23
 51: A61G

21: 2022/05673. 22: 2022/05/23. 43: 2022/11/23
 51: B01D; F23J
 71: Sumitomo SHI FW Energia Oy
 72: ROKKA, Antti

54: ARRANGEMENT AND METHOD FOR OPERATING A STEAM BOILER SYSTEM

00: -
 Invention relates to a method of operating and an arrangement for a steam boiler system (1) comprising a furnace (2) and along a following flue gas channel (24) a number of superheaters (4, 5a, 5b), a number of economizers (6, 7a, 7b) and at least one air preheater (9) located in the flue gas channel (24) downstream of the economizers (6, 7a, 7b), a fabric filter baghouse (13) located in the flue gas channel (24) downstream of the air preheater (9, 9a, 9b), and downstream of the fabric filter baghouse (13) is located a selective catalytic reduction (SCR) system (14) comprising an SCR reactor (141), a high pressure steam coil heater (143) upstream of the SCR reactor (141) and a gas-gas heat exchanger (142) connected upstream and downstream of the SCR reactor (141) to transfer heat from flue gas after the SCR reactor (141) to the flue gas upstream of the high pressure steam coil heater (143). The arrangement further comprises: - at least one heat exchanger (15) located in the flue gas channel (24) after the SCR system (14), the heat exchanger (15) is configured to transfer heat, when in use, from the flue gas downstream of the SCR system (14) to a fluid medium in a fluid circuit (150); - the fluid circuit (150) comprises at least one pump (20) configured to lead the fluid medium to preliminary air heaters (16, 17) configured to heat inlet air before entering to the flue gas air preheater (9, 9a, 9b).

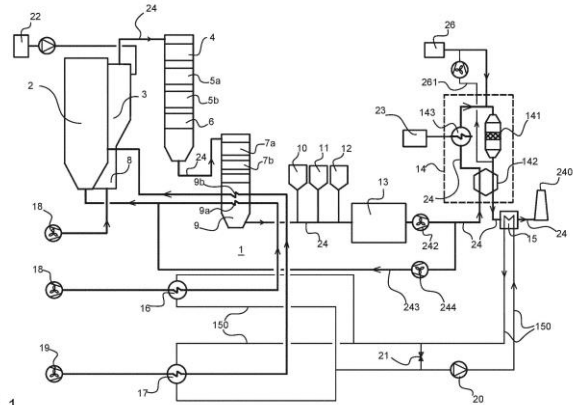
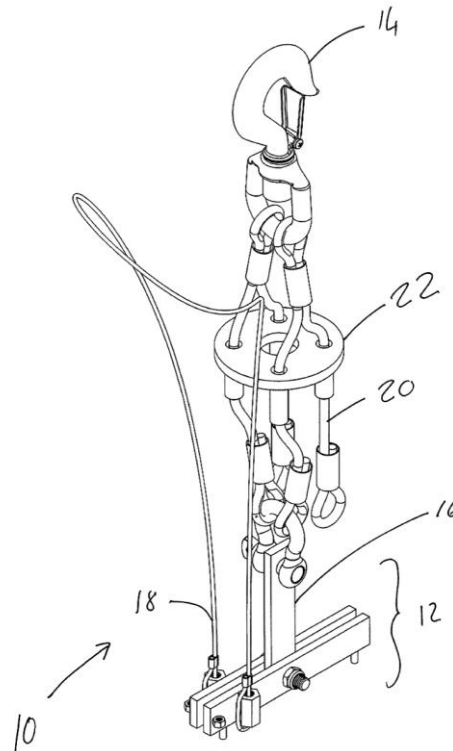


FIG. 1

21: 2022/05696. 22: 2022/05/24. 43: 2022/11/24
 51: B66F
 71: ZULYK TRADING ENTERPRISES (PTY) LTD
 72: KGOKONG, Serame, Junie
 33: ZA 31: 2021/03746 32: 2021-06-01

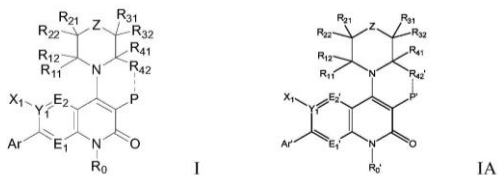
54: A CONNECTOR

00: -
 A connector which includes an engagement arrangement defined distally the connector, wherein the engagement arrangement is displaceable between an expanded operative condition extending substantially transversally the connector, and, a retracted inoperative condition aligned substantially co-axially the connector, when in use.



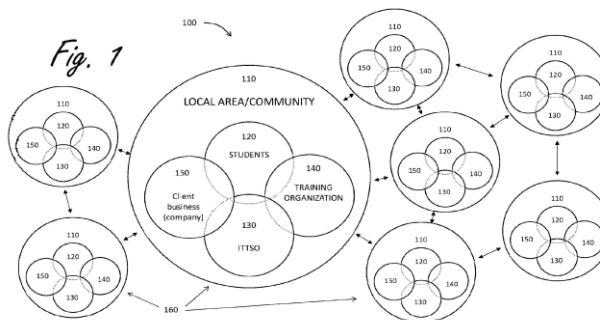
21: 2022/05758. 22: 2022/05/16. 43: 2022/11/24
 51: A61K; A61P; C07D
 71: Genfleet Therapeutics (Shanghai) Inc., Zhejiang Genfleet Therapeutics Co., Ltd.
 72: ZHOU, Fusheng, JIANG, Tao, LIN, Chonglan, CAI, Lijian, HE, Wan, LAN, Jiong
 33: CN 31: 201911045542.X 32: 2019-10-30
54: SUBSTITUTED HETEROCYCLIC FUSED CYCLIC COMPOUND, PREPARATION METHOD THEREFOR AND PHARMACEUTICAL USE THEREOF

00: -
 A substituted heterocyclic fused cyclic compound as represented by formula (I) or formula (IA) and having a selective inhibitory effect on KRAS gene mutation, or a pharmaceutically-acceptable salt, a stereoisomer, a solvate or a prodrug thereof, a pharmaceutical composition containing the compound, and an application thereof in preparation of cancer drugs.



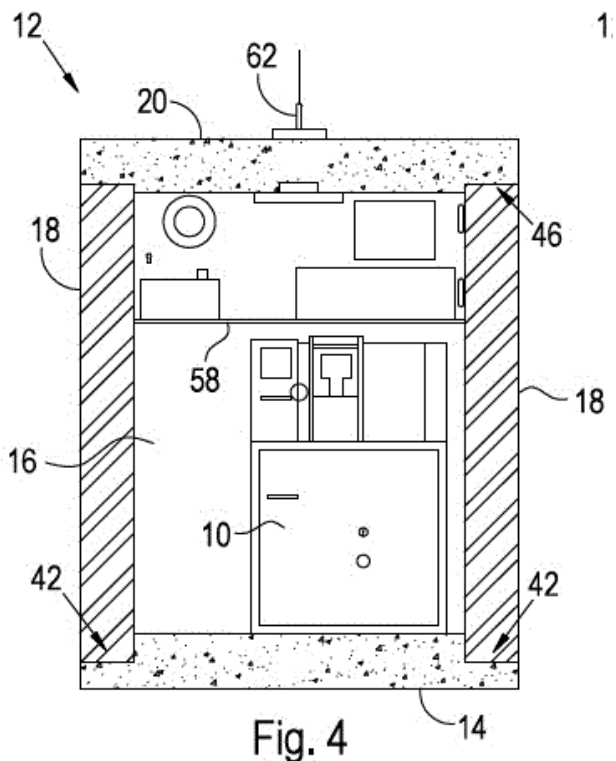
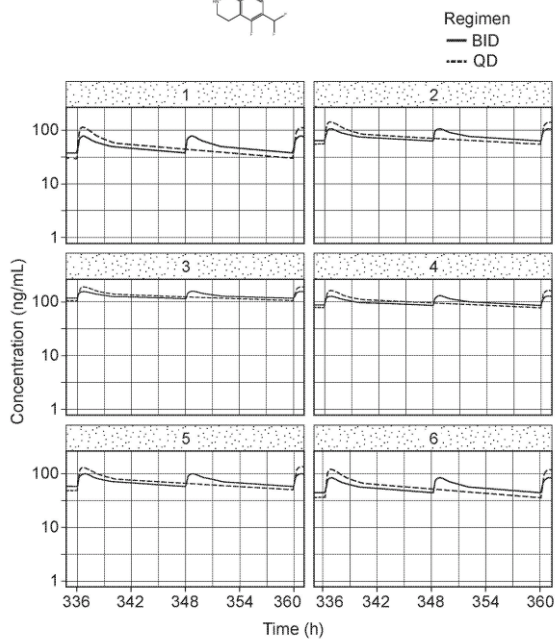
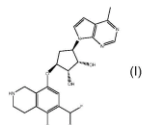
21: 2022/05759. 22: 2022/05/16. 43: 2022/11/23
 51: G06Q
 71: SnapIT Solutions LLC
 72: PARASKER, Neelima
 33: US 31: 62/933,857 32: 2019-11-11
54: SYSTEM FOR PRODUCING AND DELIVERING INFORMATION TECHNOLOGY PRODUCTS AND SERVICES

00: -
 Disclosed is a process and system for training information technology workers and providing information technology products. The process and system employ a regenerative cycle process that includes sensing, engaging, learning, and working functions for each information technology skill or function and for each stage of the cycle. The information technology products are of lower cost and higher quality to client businesses in need thereof.



21: 2022/05794. 22: 2022/05/25. 43: 2022/11/25
 51: A61K; A61P
 71: Pfizer Inc.
 72: LI, Meng, LIAO, Kai-Hsin, YAMAZAKI, Shinji
 33: US 31: 62/949,688 32: 2019-12-18
54: ONCE DAILY CANCER TREATMENT REGIMEN WITH A PRMT5 INHIBITOR

00: -
 A method of treating cancers, including pancreatic cancer, endometrial cancer, non-small cell lung cancer (NSCLC), endometrial cancer, cervical cancer, bladder cancer, head and neck squamous cell carcinoma (HNSCC), urothelial carcinoma, esophageal cancer, and other cancers, the method comprising once-daily administration, to a patient in need thereof, of a therapeutically effective amount of (1S,2S,3S,5R)-3-((6-(difluoromethyl)-5-fluoro-1,2,3,4-tetrahydroisoquinolin-8-yl)oxy)-5-(4-methyl-7H-pyrrolo[2,3-d]pyrimidin-7-yl)cyclopentane-1,2-diol having the structure: Formula I or a pharmaceutically acceptable salt thereof.



21: 2022/05840. 22: 2022/05/26. 43: 2022/11/28
 51: E04C; E05G
 71: Manocon Building Construction (Pty) Ltd
 72: BRIERS, Andries Theodorus
 33: ZA 31: 2021/04529 32: 2021-06-30
54: A Security Structure
 00: -
 The invention relates to a security structure 12 which includes a base 14, a rear wall panel 16, two sidewall panels 18 and a top panel 20, each of which is in the form of a construction element. The construction elements each comprise a body or core 26 of a cementitious material, a cover which extends over at least part of the body and a plurality of locking elements 30 which are attached to and protrude from the cover and are embedded in the body 26. A lockable door is provided in order to permit authorized access to the interior of the security structure. The security structure will typically be used in order to restrict access to an ATM.

21: 2022/05917. 22: 2022/05/27. 43: 2022/11/28
 51: B65D
 71: MASTER PLASTICS PROPRIETARY LIMITED
 72: KREISSEL, Dieter, LAHOUD, George Francis
 33: WO 31: PCT/IB2020/060149 32: 2019-10-30
 33: ZA 31: 2019/07162 32: 2019-10-30
54: RECYCLABLE POLYETHYLENE BASED PACKAGING MATERIAL FOR USE ON HORIZONTAL FORM-FILL-SEAL MACHINES AND A METHOD OF ITS MANUFACTURE
 00: -
 The invention relates to a polyethylene-based blown film comprising three co-extruded layers, comprising a core layer, with an inner seal layer on one side of the core layer, and an outer layer on the other side of the core layer. The invention also extends to a method of manufacturing a clear recyclable packaging film for use on horizontal form-fill-seal machines using the polyethylenebased blown film.

21: 2022/05918. 22: 2022/05/27. 43: 2022/11/28
 51: B65D
 71: MASTER PLASTICS PROPRIETARY LIMITED
 72: KREISSEL, Dieter, LAHOUD, George Francis
 33: WO 31: PCT/IB2020/060505 32: 2019-12-02
 33: ZA 31: 2019/07992 32: 2019-12-02

54: RECYCLABLE POLYETHYLENE BASED PACKAGING MATERIAL FOR USE IN MODIFIED ATMOSPHERIC PACKAGING FOR BOTH BAGS-ON-ROLL AND POUCH MADE BAGS

00: -

The invention relates to a polyethylene-based blown film for use on MAP machines comprising three co-extruded layers, comprising a core layer, with an inner seal layer on one side of the core layer, and an outer layer on the other side of the core layer. The invention also extends to a method of manufacturing a clear recyclable packaging film for use on horizontal form-film-seal machines using the polyethylene-based blown film.

21: 2022/05928. 22: 2022/05/27. 43: 2022/11/28

51: C01B; C08J; C08K; C09C

71: CarbonX IP 6 B.V.

72: VAN RAALTEN, Rutger Alexander David, SORDI, Daniela, TEN DAM, Jeroen

33: EP(NL) 31: 19212328.9 32: 2019-11-28

54: USE OF CARBON NETWORKS COMPRISING CARBON NANOFIBERS

00: -

The invention pertains to the use of porous, chemically interconnected, carbon-nanofiber comprising carbon networks for reinforcing thermosetting material as well as to the reinforced material. In one aspect, the invention relates to the use of at least 0.1 wt%, more preferably at least 0.5 wt%, even more preferably at least 1 wt%, even more preferably at least 2 wt%, most preferably at least 3 wt.%, preferably 2 – 60 wt.%, more preferably 3 – 50 wt%, more preferably 5 – 45 wt% of a porous, chemically interconnected, carbon-nanofibers-comprising carbon network for reinforcing carbon-based fiber in a thermoset material, said weight based on the total weight of the reinforced thermoset material.

21: 2022/05929. 22: 2022/05/27. 43: 2022/11/28

51: C08J; C08K; H05K

71: CarbonX IP 7 B.V.

72: VAN RAALTEN, Rutger Alexander David, SORDI, Daniela, HANNEBICQUE, Laure Aude Marie Suzanne, Liu, Zhen

33: EP(NL) 31: 19212349.5 32: 2019-11-28

54: COMPOSITIONS FOR USE IN ELECTROMAGNETIC INTERFERENCE SHIELDING

00: -

The invention pertains to the use of porous, chemically interconnected, isotropic carbon-nanofibre- comprising carbon networks for electromagnetic interference shielding (EMI). The invention also relates to a A composite assembly comprising a thermoplastic, elastomeric and/or thermoset polymer matrix and at least 15 wt%, preferably at least 20 wt%, more preferably 20 – 80 wt% of porous, chemically interconnected, crystalline carbon-nanofibres comprising carbon networks based on the total assembly weight.

21: 2022/05986. 22: 2022/05/30. 43: 2022/11/30

51: E21B; F04B

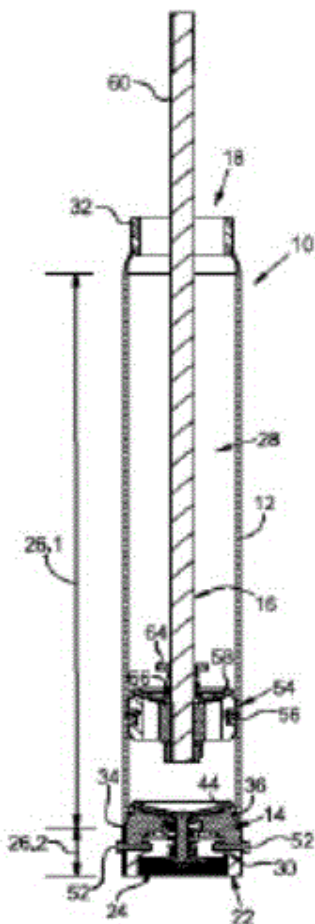
71: DE REUCK (Snr), Dudley Howard, DE REUCK (Jnr), Dudley Howard, DE REUCK, Willem Sarel

72: DE REUCK (Snr), Dudley Howard, DE REUCK (Jnr), Dudley Howard, DE REUCK, Willem Sarel

54: A PISTON PUMP

00: -

A piston pump 10 for pumping water from a borehole, comprises a cylindrical cylinder 12, a foot valve 14 and a piston assembly 16. The cylinder 12 has a discharge outlet at its upper end 18 and a water inlet 24 at its lower end 22. The cylinder has a narrower upper wall section 26.1 defining a pumping chamber 28 and a wider lower second wall section 26.2 defining a valve housing 30 into which the foot valve 14 is press-fitted. The foot valve has a larger diameter part 40.1 press-fitted into the valve housing 30 and a smaller diameter part 40.2 extending into the cylinder first wall section 26.1. The outer diameter of part 40.1 is larger than the internal diameter of the first wall section 26.1, preventing the foot valve from being displaced upwardly into the pumping chamber under high pumping load conditions.

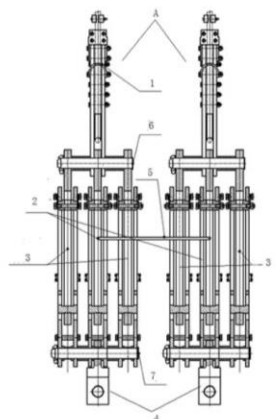


21: 2022/06114. 22: 2022/06/01. 43: 2022/12/05
 51: B66B; F16F
 71: NANTONG UNIVERSITY
 72: YAO, Jiannan, ZHU, Yu, ZHU, Weinan, ZHANG, Fubao, ZHANG, Xudong, LIU, Jianpeng
 33: CN 31: 201911156940.9 32: 2019-11-22

54: TENSION BALANCING SUSPENSION DEVICE

00: -
 The present invention relates to a tension balancing suspension device, which includes at least two tension balancing units. The tension balancing unit includes a rope ring, a balancing oil cylinder, at least one magnetorheological damper, and a reversing fork. The balancing oil cylinder includes an oil cylinder body containing hydraulic oil and a piston rod one end of which is inserted into the oil cylinder body. Two ends of the balancing oil cylinder are connected to the rope ring and the reversing fork respectively, and the rope ring and the reversing fork are located on a central axis of the balancing oil cylinder. Two ends of the magnetorheological damper are rigidly connected to the two ends of the

balancing oil cylinder respectively. The oil cylinder body of each of the tension balancing units is communicated with a communicating oil pipe such that the hydraulic oil in each oil cylinder body is capable of flowing between the oil cylinder body of each tension balancing unit through the communicating oil pipe. The device can not only balance a tension between steel wire ropes but also effectively abate the vibration of the steel wire rope, thereby ensuring the stability of a hoisting system.



21: 2022/06117. 22: 2022/06/01. 43: 2022/12/05
 51: G06T

71: Disior Ltd.
 72: TAMPIO, Juha, HUOTILAINEN, Eero, SALO, Jari
 33: FI 31: 20195977 32: 2019-11-15
54: ARRANGEMENT AND METHOD FOR PROVISION OF ENHANCED TWO-DIMENSIONAL IMAGING DATA

00: -
 An arrangement (100) for provision of enhanced two-dimensional digital imaging data, the arrangement comprising at least one processor (102) that is configured to obtain three-dimensional digital imaging data indicative of at least one physical feature (202, 204, 206, 208), determine, based on said three-dimensional digital imaging data, data representing a three-dimensional model of at least one element that is partitioned from the three-dimensional digital imaging data, said element comprising at least one of said physical features, select one or more elements as redundant elements, and provide enhanced two-dimensional digital imaging data indicative of the at least one physical feature with the one or more redundant elements

being essentially omitted from the two-dimensional imaging data based at least on the data representing a three-dimensional model of the at least one element and the selected redundant elements.

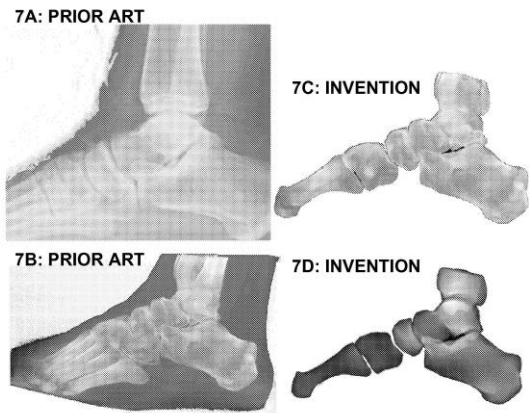


FIG. 7

21: 2022/06250. 22: 2022/06/06. 43: 2022/12/07
 51: A61K
 71: LEIUTIS PHARMACEUTICALS LLP
 72: KOCHERLAKOTA, Chandrashekhar, BANDA, Nagaraju, MANKALA, Santhosh Kumar, PACHAIYAPPAN, Suresh, KESHIREDDY, Anji Reddy

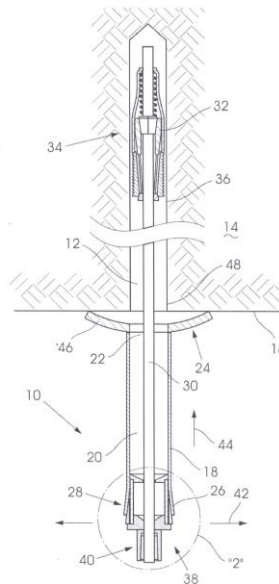
33: IN 31: 201941047735 32: 2019-11-22
54: STABLE PARENTERAL FORMULATIONS OF DULOXETINE

00: -
 The present invention relates to a parenteral lyophilized formulation of duloxetine or a pharmaceutically acceptable salt thereof. Further, this invention relates to duloxetine dissolved in a suitable solvent system comprising one or more buffers, stabilizers, and other pharmaceutically acceptable excipients and subsequently lyophilized. The invention also describes combination formulation of Duloxetine with other active ingredients.

21: 2022/06288. 22: 2022/06/07. 43: 2023/02/01
 51: E21D
 71: MSP MINE SUPPORT PRODUCTS (PTY) LTD, FABCHEM MINING (PTY) LTD
 72: NISSEN, Christian Engelstoft, MUGERI, Frederick Livhuwani
 33: ZA 31: 2021/03916 32: 2021-06-08

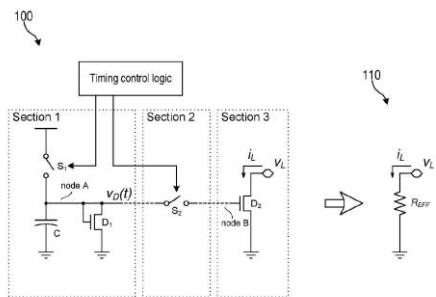
54: YIELDING ANCHOR

00: -
 A support which includes a tubular body with a bore through the tubular body, a first mouth at one end of the bore, a second mouth at an opposing end of the bore, a load-spreading structure at the first mouth which is engageable with a rock face, an elongate element which extends through the bore, and which has a first end, an anchor assembly at the first end of the elongate element which is configured to be inserted, into the borehole and which, upon actuation, is engageable with a wall a borehole, and an expansion mechanism which is secured to a part of the elongate element which extends from the second mouth, the expansion mechanism being operable to exert a radial expansive force on the tubular body thereby to radially deform the tubular body, in response to axial movement of the expansion mechanism into the bore towards the load-spreading structure.

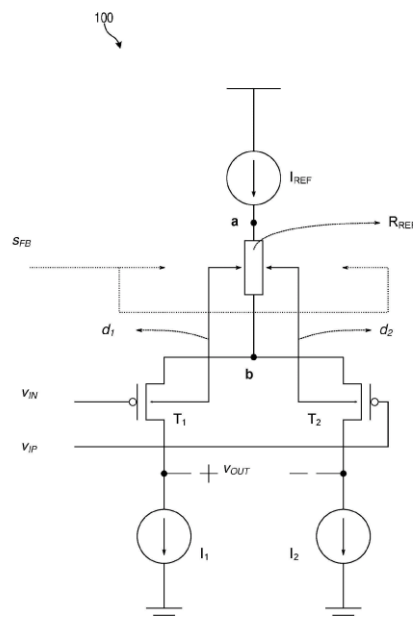


21: 2022/06309. 22: 2022/06/07. 43: 2022/12/08
 51: H03H
 71: INSiAVA (PTY) LTD.
 72: SUNTKEN, Artur Wilhelm, FAURÉ, Nicolaas Mattheus
 33: NL 31: 2024412 32: 2019-12-10
54: AN ELECTRONIC CIRCUIT THAT GENERATES A HIGH-IMPEDANCE LOAD AND AN ASSOCIATED METHOD
 00: -

An electronic circuit configured to present a high-impedance load between a load point (VL) and a reference point includes a capacitive element (C) provided between a first node (Node A) and the reference point, a first element (D1) connected in parallel with the capacitive element (C), a first switching element (S1) provided in series between the first node (A) and a voltage source point, a second switching element (S2) provided between the first node (A) and a second node (Node B), a second element (D2) connected between the second switching element (S2), the load point, and the reference point, and timing control logic configured to implement three stages. In a charging stage, the first switching element (S1) is closed and the second switching element (S2) to charge a nodal voltage $v_D(t)$ at the first node (A). In discharge stage, the first switching element (Si) is open and the second switching element (S2) is open to enable discharging of the capacitive element (C) through the first element (D1). In a transfer stage, the second switching element (S2) is closed to connect the first node (A) and the second node (B), after which the second switching element (S2) is opened and the second element (D2) is biased to present the high-impedance load.



resistive elements, and an input current source (IREF) connected or connectable to the first main node (a). The resistor divider (RREF) comprises two arrays of addressable switch elements controllable by a feedback signal (SFB) to be open or closed. The amplifier circuit includes a differential pair of transistors (T1, T2), wherein source terminals of each of the transistors (T1, T2) are connected to the second node (b), gate terminals of the transistors (T1, T2) are connected to input signals (v1, v2), drain terminals of the transistors (T1, T2) are connected to current sources (I1, I2), and bulk terminals of the transistors (T1, T2) are connected to the readout nodes (d1, d2). The amplifier circuit functions as a difference amplifier, wherein the bulk terminals affect a threshold of the respective transistors (T1, T2) so as to add or subtract a differential signal derived from the readout nodes (d1, d2) of the resistor divider (RREF) determined by the feedback signal (SFB).



21: 2022/06310. 22: 2022/06/07. 43: 2022/12/08
 51: H03F; H03M
 71: INSiAVA (PTY) LTD.
 72: SUNTKEN, Artur Wilhelm
 33: NL 31: 2024414 32: 2019-12-10

54: AN AMPLIFIER CIRCUIT TO ENABLE ACCURATE MEASUREMENT OF SMALL ELECTRICAL SIGNALS

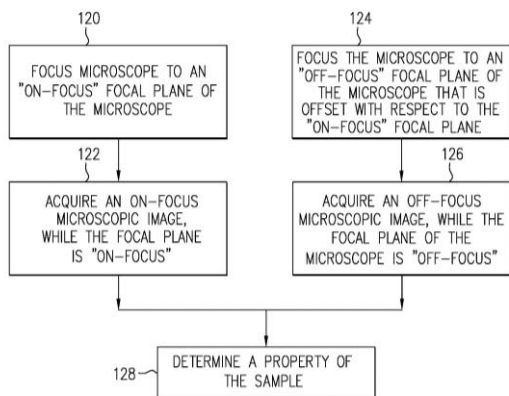
00: -
 An amplifier circuit includes a resistor divider (RREF) comprising n resistive elements, two main nodes defined at each end thereof, two readout nodes (ch, cfe), resistor nodes (q) defined between adjacent

21: 2022/06312. 22: 2022/06/07. 43: 2022/12/08
 51: G01N
 71: S.D. Sight Diagnostics Ltd
 72: GLUCK, Dan, ZAIT, Amir, HOURI YAFIN, Amnon, HALPERIN, Yonatan, ESHEL, Yochay Shlomo, LEVY, Sarah, POLLAK, Joseph Joel, PECKER, Sharon, YAFIN, Peretz, BENBASSAT, Dana, BRAILOVSKY, David, PUMERANTZ, Uriyah
 33: US 31: 62/946,985 32: 2019-12-12

54: OFF-FOCUS MICROSCOPIC IMAGES OF A SAMPLE

00: -

Apparatus and methods are described use with a bodily sample that contains cells. A microscope (24) is focused, such that a focal plane of the microscope (24) at least approximately coincides with a level at which at least some cells belonging to the sample are at least partially disposed. At least one on-focus microscopic image of the sample, while the focal plane of the microscope (24) approximately coincides with the level. The microscope (24) is focused such that the focal plane of the microscope is offset with respect to the level, at least one off-focus microscopic image of the sample is acquired, while the focal plane of the microscope (24) is offset with respect to the level. A property of at least a portion of the sample is determined, at least partially based upon the on-focus and off-focus images. Other applications are also described.



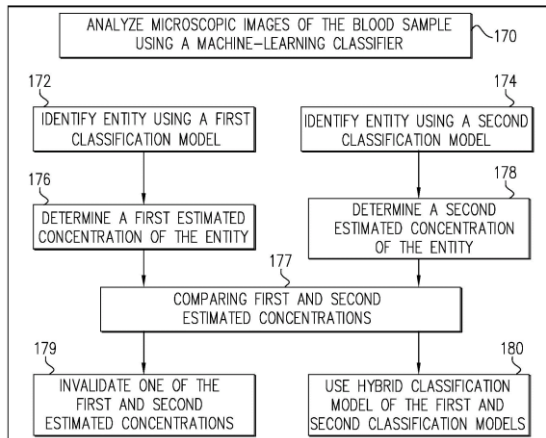
21: 2022/06316. 22: 2022/06/07. 43: 2022/12/08
 51: G06K
 71: S.D. Sight Diagnostics Ltd
 72: ZAIT, Amir, GLUCK, Dan, HOURI YAFIN, Arnon, BRAILOVSKY, David, ESHEL, Yochay Shlomo, LEVY, Sarah, POLLAK, Joseph Joel
 33: US 31: 62/947,004 32: 2019-12-12

54: CLASSIFICATION MODELS FOR ANALYZING A SAMPLE

00: -

Apparatus and methods are described including analyzing one or more microscopic images of the blood sample using a machine-learning classifier. An entity within the one or more microscopic images is identified using a first classification model, and a first estimated concentration of the entity within the

sample is determined, based upon the entity as identified using the first classification model. The entity is identified within the one or more microscopic images using a second classification model, and a second estimated concentration of the entity within the sample is determined, based upon the entity as identified using the second classification model. The first and second estimated concentrations are compared to each other, and, in response to the comparison, a hybrid classification model that is a hybrid of the first and second classification models is used. Other applications are also described.



21: 2022/06392. 22: 2022/06/08. 43: 2023/01/17
 51: F41A
 71: NEXTER SYSTEMS
 72: Xavier DESCATOIRE
 33: FR 31: 1915281 32: 2019-12-24
54: AMMUNITION LAUNCHING DEVICE
 00: -

The invention relates to a launching device (1) comprising at least two tubes (2) intended to receive an ammunition round and each secured to a mount (3), the mounts being supported by a base, each tube being orientable in elevation and directional angle by drive means, a first drive means (5) providing the directional angle aiming of the two tubes simultaneously and a second drive means (6) providing the elevation aiming of the two tubes (2) simultaneously. This device is characterized in that the directional angle aiming axes (7) of the two tubes are parallel to one another and in that each mount (3) comprises a sleeve (8) supporting the tube (2), the sleeve mounted so as to pivot in elevation in relation to a fork (9), the fork (9) itself being mounted

so as to pivot in directional angle in relation to the base.

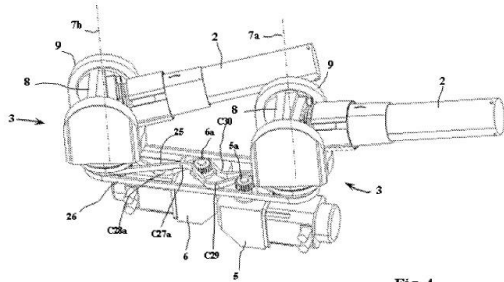


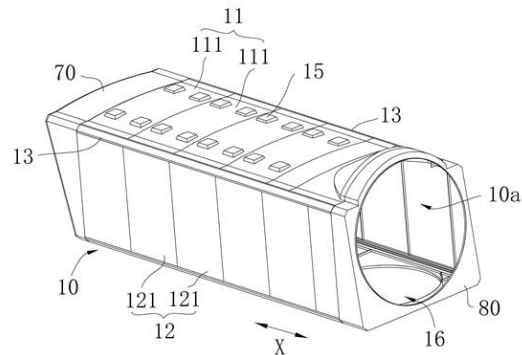
Fig. 4

21: 2022/06419. 22: 2022/06/09. 43: 2023/01/10
 51: C04B; G06F
 71: CHINA BUILDING MATERIALS ACADEMY
 72: ZHONGCHENG MA, ZHAIJUN WEN, LIYING WEI, XIAO ZHI, YUN LIU
 33: CN 31: 2021107220411 32: 2021-06-28
54: METHOD FOR QUANTITATIVELY REGULATING CONTENT OF PERICLASE IN CEMENT

00: -
 The present invention relates to the technical field of building materials, in particular to a method for quantitatively regulating the content of periclase in cement. The method comprises: calculating calcination temperature according to formula I; and the formula I is as follows: $z = (y - x + 3.767)/0.0012$ (I), wherein, x represents the content of MgO in the cement clinker, and the unit is wt%; y represents the target content of periclase in the cement, and the unit is wt%; and z represents the calcination temperature, and the unit is °C. According to the method for quantitatively regulating the content of periclase in cement provided by the present invention, the expected content of periclase in cement can be more accurately obtained, which is more conducive to utilizing the expansion of cement to guide the practical requirements of cement applications in engineering.

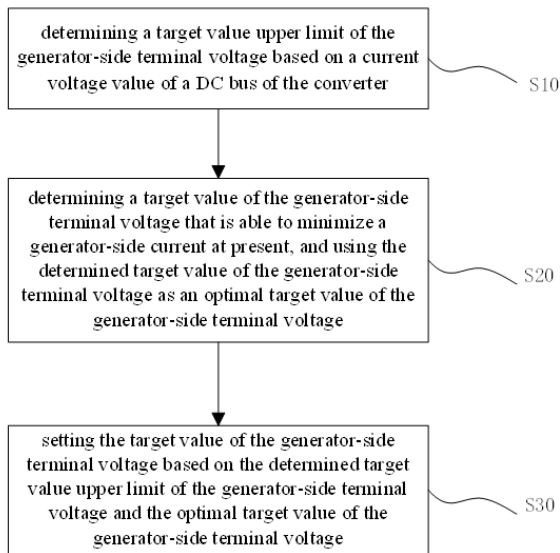
21: 2022/06430. 22: 2022/06/09. 43: 2023/01/17
 51: F03D
 71: XINJIANG GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
 72: PANG, Hongzhi, SHEN, Ruiqing, QIAN, Lijia, SHI, Hongkui
 33: CN 31: 201911175245.7 32: 2019-11-26
54: CABIN COVER AND WIND TURBINE GENERATOR SET
 00: -

A cabin cover (100) and a wind turbine generator set. The cabin cover (100) comprises: a cover (10), the cover (10) comprising first plates (11), second plates (12), and at least one support beam (13), the first plate (11) and the second plate (12) being alternately arranged, at least one group of adjacent first plate (11) and second plate (12) being spaced apart from each other and being fitted to the support beam (13), and the first plates (11), the second plates (12), and the support beams (13) jointly enclosing an accommodating chamber (10a); and fasteners (20), two or more of fasteners (20) being provided and disposed in the accommodating chamber (10a), at least one fastener (20) detachably connecting the first plate (11) to the support beam (13), and at least one fastener (20) detachably connecting the second plate (12) to the support beam (13). The cabin cover (100) and the wind power generator set can achieve the protection of multiple components, and have high strength and are easy to maintain.



21: 2022/06431. 22: 2022/06/09. 43: 2023/01/17
 51: H02P
 71: XINJIANG GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
 72: WANG, Jinpeng, GUO, Rui, LV, Liangnian
 33: CN 31: 201911241766.8 32: 2019-12-06
54: METHOD AND DEVICE FOR CONTROLLING GENERATOR-SIDE TERMINAL VOLTAGE OF CONVERTER, AND CONTROLLER OF CONVERTER
 00: -
 The present application provides a method and device for controlling a generator-side terminal voltage of a converter, and a controller of the converter. The method includes: determining a target value upper limit of the generator-side

terminal voltage based on a current voltage value of a direct-current (DC) bus of the converter, wherein the generator-side terminal voltage is a terminal voltage of a generator whose output terminal is connected to the converter; determining a target value of the generator-side terminal voltage that is able to minimize a generator-side current at present, and using the determined target value of the generator-side terminal voltage as an optimal target value of the generator-side terminal voltage, wherein the generator-side current is an output current of the generator; setting the target value of the generator-side terminal voltage based on the determined target value upper limit of the generator-side terminal voltage and the optimal target value of the generator-side terminal voltage.



VERTICAL FORMWORKS OF BUILDINGS AND CONSTRUCTION METHOD THEREOF

00: -

The present invention involves construction equipment for hanging, assembling and lifting a vertical formwork of a building and method thereof; the construction equipment is installed on a steel platform of a building machine, wherein I-beam lifting heads, an I-beam, a pulley lifting point, a turnbuckle for rigging, a hanger rod and a U-shaped snap ring are comprised; the I-beam is arranged at any position of the steel platform through the I-beam lifting heads; the pulley lifting point is arranged on the I-beam and connected with the hanger rod through the turnbuckle for rigging; the U-shaped snap ring is arranged at a tail end of the hanger rod; and the U-shaped snap ring is used for connecting the vertical formwork. In the present invention, firstly, the steel bars of the vertical wall are bound and poured; then the vertical formwork is opened and lifted along with the steel platform; and then, beams and slabs are poured. Wherein a hanging formwork system can be laid out flexibly and is suitable for all kinds of structures and floors. The hanging formwork system can make the vertical formwork be opened and closed and lifted along with the steel platform. By using the construction equipment and method of the present invention, traditional processes of dismantling, assembling and transporting the vertical formwork are omitted, so that labor intensity of workers is reduced and construction period is shortened.

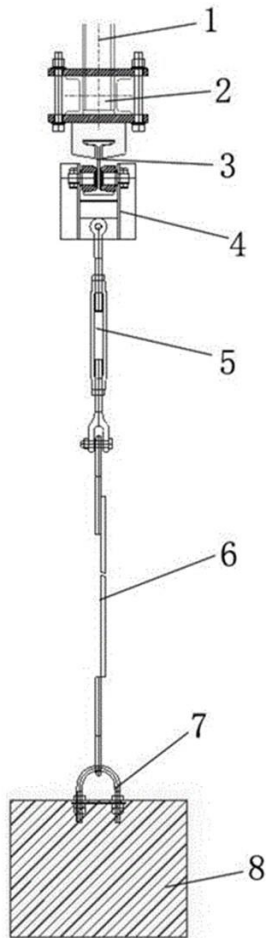
21: 2022/06664. 22: 2022/06/15. 43: 2023/01/25
51: B66C

71: THE THIRD CONSTRUCTION CO., LTD OF CHINA CONSTRUCTION THIRD ENGINEERING BUREAU

72: LI, Ming, DING, Weixiang, QIAN, Shiqing, WANG, Wei, ZHANG, Zhihua, LIU, Hanwen, LIU, Heng, XU, Guowei, ZHANG, Buyue, WANG, Yihan, ZHOU, Hongwei, ZHOU, Pengcheng, GONG, Wentao, ZHANG, Peng, WANG, Jifeng, LIU, Minkang, ZOU, Jindun, QI, Pei, FENG, Wei, QI, CONGYUE, GONG, ZAN, YUAN, LIJUN, QIN, SIHUA

33: CN 31: 202110523970.X 32: 2021-05-13

54: CONSTRUCTION EQUIPMENT FOR HANGING, ASSEMBLING AND LIFTING



detection liquid is performed by oscillating the detection assembly in a circular or ellipse motion, using means adapted therefor, whereby the positioning of the container relative to the source and the means is constant throughout the completion of measuring the amount of an analyte in a liquid sample.

21: 2022/06755. 22: 2022/06/17. 43: 2023/01/26
 51: A61B; A61M
 71: GARNER, Justin
 72: GARNER, Justin, GARNER, Stefan
 33: GB 31: 1917013.3 32: 2019-11-22

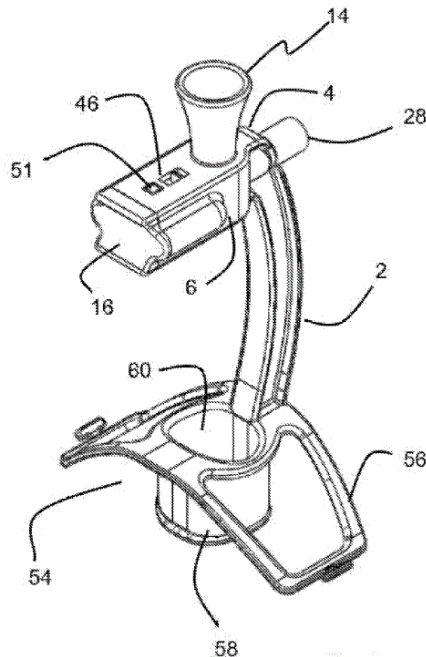
54: A CLAMP FOR A BRONCHOSCOPE OR THE LIKE

00: -
 A clamp for inter alia a bronchoscope, the clamp comprising a spine (2) with frame (6) which has a channel (10) through which a tube (12) of inter alia the bronchoscope is received. The frame includes clamping means (18, 26) to grip the tube within the frame to fix it in position. The clamping is releasable to allow further movement of the tube relative to the frame.

21: 2022/06736. 22: 2022/06/17. 43: 2023/01/26
 51: G01N
 71: QLIFE APS
 72: WARTHOF, Peter, FINDING, Ebbe, ELKJÆR, Robert
 33: DK 31: PA 2019 01565 32: 2019-12-31

54: METHOD AND DEVICE FOR ANALYSIS OF LIQUID SAMPLES

00: -
 The present invention relates to a method and a device for quantitatively detecting the presence or absence of an analyte in a liquid sample, comprising an analyte detection assembly comprising a source of electromagnetic radiation, a means for detecting electromagnetic radiation and a container containing a detection liquid, said container being positioned between the source and the detection means such that electromagnetic radiation radiates through the detection liquid from the source to the detection means, wherein the mixing of the contents of the



21: 2022/06805. 22: 2022/06/20. 43: 2023/01/30
 51: G06N; G06Q
 71: FEATURESPACE LIMITED
 72: WONG, Kenny, WONG, Jason, SKALSKI, Piotr, SUTTON, David

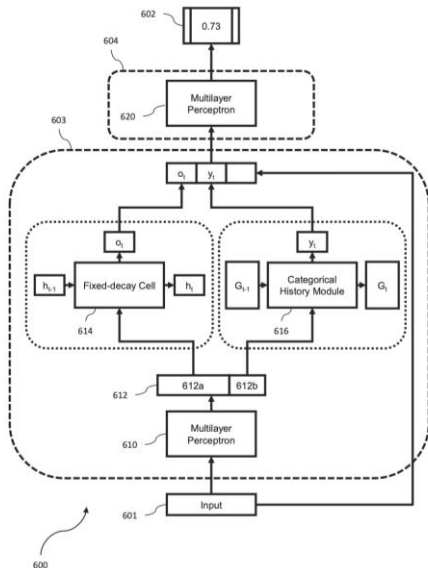
33: WO 31: PCT/EP2022/061405 32: 2022-04-28

33: GB 31: 2206208.7 32: 2022-04-28

54: MACHINE LEARNING SYSTEM

00: -

A machine learning system for processing data corresponding to an incoming transaction. The machine learning system comprises a categorical history module which includes a memory configured to store state data for a plurality of categories indexed by a respective category identifier, wherein the state data stored in the memory for each category identifier corresponds to a previous transaction associated with the entity and the respective category. A decay logic stage is configured to modify state data stored in the memory based on a time difference between a time of the incoming transaction and a time of a previous transaction. When the memory contains state data for the entity and category identifier pair associated with the incoming transaction, a decaying function dependent on the time difference is applied to the stored state data to generate a decayed version. The state data output from the decay logic stage is updated using an input tensor generated from the data corresponding to the incoming transaction to generate updated state data.



21: 2022/06840. 22: 2022/06/20. 43: 2023/01/30

51: H02J

71: XINJIANG GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.

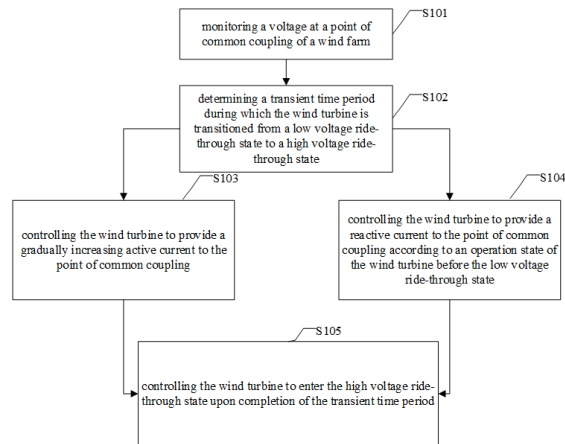
72: HUANG, Yuanyan, ZHOU, Jie, ZHANG, Shaohua, CHEN, Xin

33: CN 31: 201911279371.7 32: 2019-12-13

54: HIGH-LOW VOLTAGE CONTINUOUS RIDE-THROUGH CONTROL METHOD AND SYSTEM FOR PERMANENT MAGNET DIRECT-DRIVE WIND POWER GENERATING SET

00: -

The present application provides a method and a system for controlling continuous low voltage ride-through and high voltage ride-through of a permanent magnet direct-driven wind turbine. The method includes: determining a transient time period during which the wind turbine is transitioned from a low voltage ride-through state to a high voltage ride-through state; controlling the wind turbine to provide, during the transient time period, a gradually increasing active current to the point of common coupling; and controlling the wind turbine to provide, during the transient time period, a reactive current to the point of common coupling according to an operation state of the wind turbine before the low voltage ride-through state. According to the embodiments of the present application, voltage of a power grid can be effectively supported.



21: 2022/06872. 22: 2022/06/21. 43: 2023/01/30

51: G06Q

71: TAX FINANCIER (PTY) LTD

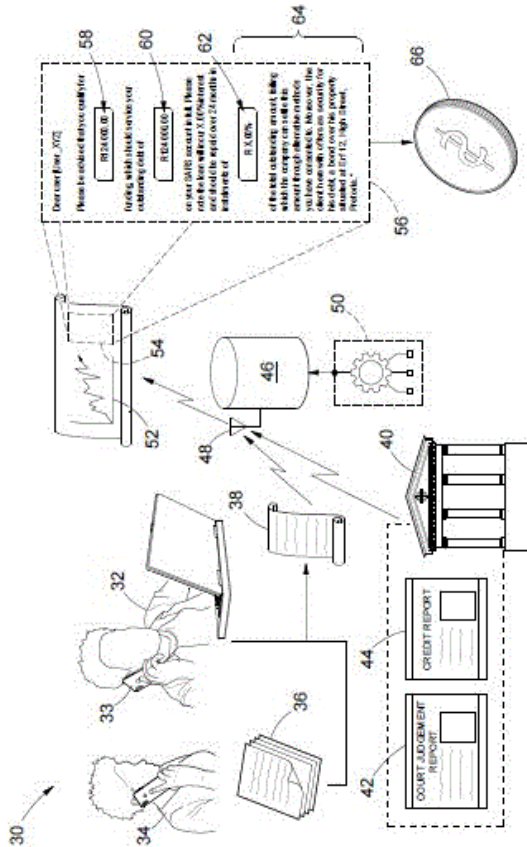
72: MBANGI, Lelethu, MONGALO, Benedict, ROUX, Alexander Paul

54: MANAGEMENT SYSTEM FOR USER-SPECIFIC FINANCING

00: -

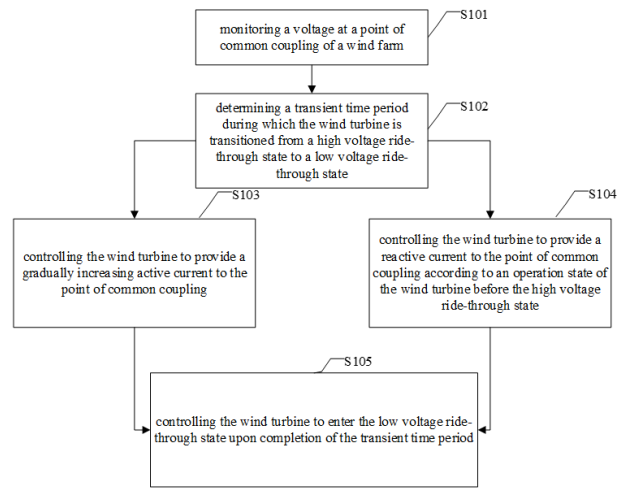
The invention related to a financial management system including an electronic database for storing an algorithm; providing the electronic database with

user data through data capturing means; and a method to generate a user-specific financial product, wherein the method may include the steps of: providing the algorithm with the user data; allowing the algorithm to calculate risk factors pertaining to the user; and allowing the algorithm to calculate a preferred financial product whereby the user is provided with a lump sum of money subject to user-specific conditions in relation to the risk factors.



21: 2022/06878. 22: 2022/06/21. 43: 2023/01/30
 51: H02J
 71: XINJIANG GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
 72: ZHOU, Jie, HUANG, Yuanyan, QIN, Chengzhi, ZHANG, Shaohua, CHEN, Xin
 33: CN 31: 201911279792.X 32: 2019-12-13
54: CONTROL METHOD AND SYSTEM FOR CONTINUOUS HIGH AND LOW VOLTAGE RIDE THROUGH OF PERMANENT-MAGNET DIRECT-DRIVE WIND-DRIVEN GENERATOR SET
 00: -
 The present application provides a method and a system for controlling continuous high voltage ride-

through and low voltage ride-through of a permanent magnet direct-driven wind turbine. The method includes: determining a transient time period during which the wind turbine is transitioned from a high voltage ride-through state to a low voltage ride-through state; controlling the wind turbine to provide, during the transient time period, a gradually increasing active current to the point of common coupling; and controlling the wind turbine to provide, during the transient time period, a reactive current to the point of common coupling according to an operation state of the wind turbine before the high voltage ride-through state. According to the embodiments of the present application, voltage of a power grid can be effectively supported.

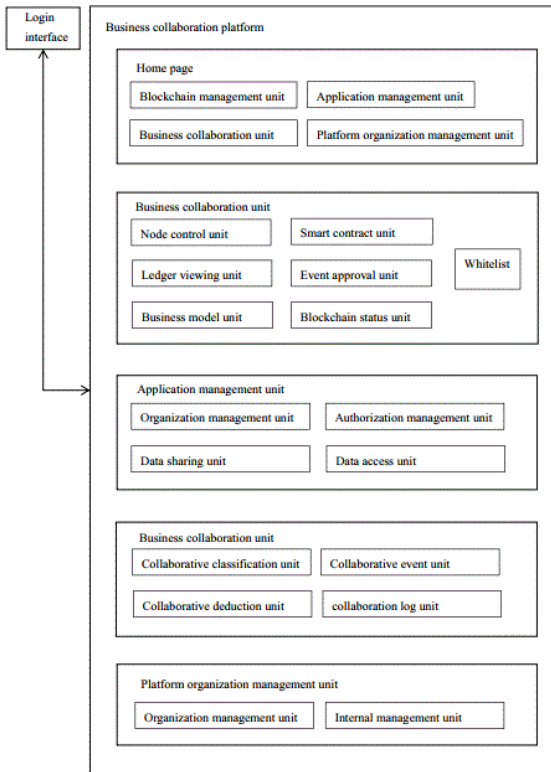


21: 2022/06881. 22: 2022/06/21. 43: 2023/01/30
 51: G06F; G06Q
 71: Jiangsu Rongze Information Technology Co., Ltd.

72: ZHANG, Xiaozhou, WANG, Jian
 33: CN 31: 202110848908.8 32: 2021-07-27
54: A BLOCKCHAIN BUSINESS COLLABORATION METHOD AND A PLATFORM THEREOF

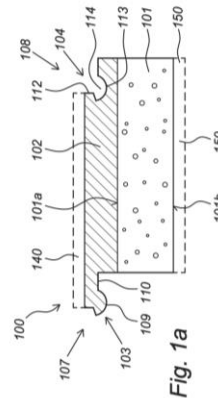
00: -
 The invention discloses a blockchain business collaboration method and a platform thereof, relating to the technical field of blockchain business collaboration. It solves the technical problems in the prior art that different businesses cannot be reasonably matched to different collaboration engines, resulting in business collaboration failure or low efficiency; it creates various generic model

tables: when the user creates an application, the matching data model table is automatically imported according to the business template selected by the user, reducing the user's tabulation time, reducing the number of data changes and improving the accuracy of the data; it is used to create various generic collaborative engines: when a user creates an application, the matching collaborative engine is automatically imported according to the business template selected by the user; it reasonably matches collaborative engines, preventing failure of business data collaboration due to unreasonable matching of collaborative engines; the collaborative classification unit categorizes and manages various collaborative events within the organization, classifies collaborative events, and improves collaboration efficiency.



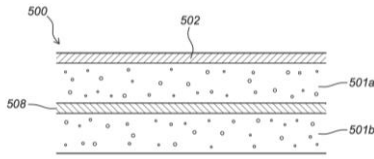
21: 2022/06884. 22: 2022/06/21. 43: 2023/01/30
 51: B32B; D21F; D21H; E04C; E04F
 71: I4F LICENSING NV
 72: BOUCKÉ, Eddy Alberic, ZWEED, Sander Gordon
 33: NL 31: 2024629 32: 2020-01-09
54: DECORATIVE PANEL AND METHOD OF MANUFACTURING A DECORATIVE PANEL

00: -
 The invention relates to a decorative panel, in particular a floor panel, ceiling panel or wall panel, and to a method for manufacturing such decorative panel. The panel according to the present invention comprises at least one foamed layer comprising an upper side and a lower side, and at least one decorative solid layer either directly or indirectly, affixed on said upper side of the foamed layer, wherein both the foamed layer and the decorative solid layer are wood based materials. The invention also relates to a floor covering consisting of a plurality of such panels.



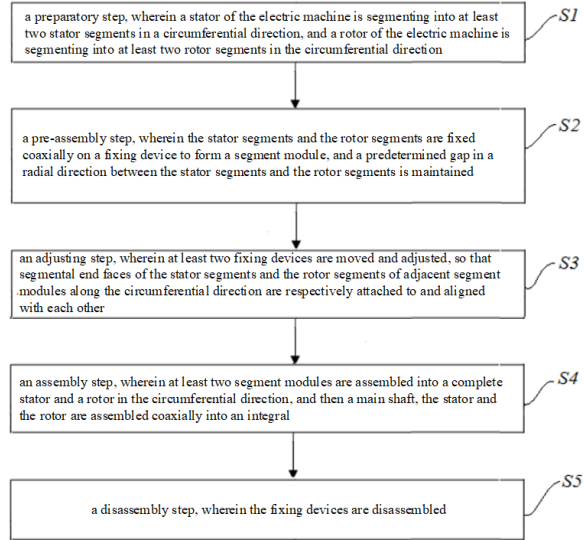
21: 2022/06892. 22: 2022/06/21. 43: 2023/01/30
 51: B27N; B32B; E04C; E04F
 71: I4F LICENSING NV
 72: BOUCKÉ, Eddy Alberic, ZWEED, Sander Gordon
 33: NL 31: 2024628 32: 2020-01-09
54: INSULATED PANEL AND METHOD OF MANUFACTURING AN INSULATED PANEL
 00: -

The invention relates to an insulated panel, in particular a wall panel or roof panel, comprising a foamed core layer and a cover layer affixed to the foamed core layer. The invention also relates to an insulating covering, in particular a wall covering or floor covering, comprising a plurality said insulated panels.



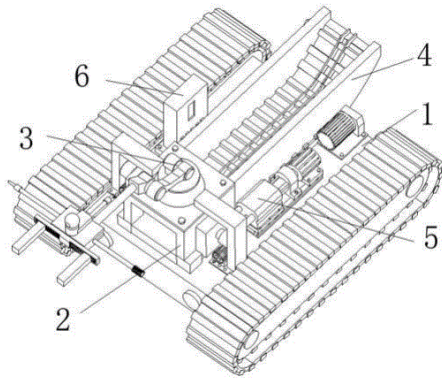
21: 2022/06893. 22: 2022/06/21. 43: 2023/01/31
 51: H02K
 71: XINJIANG GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
 72: LUO, Jiuyang, HOU, Nan
 33: CN 31: 201911338705.3 32: 2019-12-23
54: ASSEMBLY METHOD AND FIXING DEVICE FOR ELECTRIC MOTOR
 00: -

The present application relates to an assembly method and a fixing device for an electric motor. The assembly method for the electric motor comprises the steps: carrying out preparation, wherein a stator of the electric motor is segmented, in the circumferential direction, into at least two stator segments, and a rotor of the electric motor is segmented, in the circumferential direction, into at least two rotor segments; carrying out pre-assembly, wherein the stator segments and the rotor segments are coaxially fixed to fixing devices to form segment modules, and predetermined gaps are maintained radially between the stator segments and the rotor segments; carrying out adjustment, wherein at least two fixing devices are moved and adjusted such that the stator segment and the rotor segment of the adjacent segment modules are mutually attached and aligned with each other along segmental end faces in the circumferential direction; carrying out assembly, wherein at least two segment modules in the circumferential direction are assembled into the complete stator and rotor, and then a main shaft is coaxially assembled with the stator and the rotor as a whole; and carrying out dismounting, and dismounting the fixing devices.



21: 2022/06942. 22: 2022/06/22. 43: 2023/02/01
 51: E21C
 71: XINJIANG UNIVERSITY
 72: ZHANG, Zhiyi, WANG, Wei, LI, Huwei, GUAN, Weimin
 33: CN 31: 202110193636.2 32: 2021-02-20
54: AUTOMATIC HYDRAULIC DICING COAL ROADWAY EXCAVATION TROLLEY
 00: -

The present disclosure provides an automatic hydraulic dicing coal roadway excavation trolley, including a crawler chassis, wherein a top of the crawler chassis is fixedly connected with a crushing module and a transfer module. An operation module is fixedly installed on a top of the crushing module, a high-pressure water supply module is fixedly installed on the top of the crawler chassis, and a control module is installed on the top of the crawler chassis. The crushing module comprises a chassis, a support frame is fixedly connected to a top of the chassis, and a side wall of the support frame has a cavity, an outer wall of the chassis is fixedly connected with an L-shaped metal steel plate, the crawler chassis is fixedly connected with a long metal strip by bolts, and a side wall of the long metal strip is fixedly connected with a driving member.



21: 2022/06951. 22: 2022/06/22. 43: 2023/02/01
 51: C04B; C09D
 71: IMERTECH

72: FRIER, Eric, HERISSON, Jean, CHAMBON, Muriel, GUINOT, Dominique

33: FR 31: 1915492 32: 2019-12-23

54: CEMENTITIOUS COMPOSITION FOR PROTECTING SURFACES AGAINST (BIO)CORROSION

00: -

The present invention relates to novel cement and aggregate compositions, to uses thereof for protecting surfaces, in particular surfaces likely to be affected by biocorrosion.

21: 2022/07107. 22: 2022/06/27. 43: 2023/01/31
 51: B63B

71: Hainan Normal University, Hainan University, Hainan Tropical Ocean University

72: ZHANG Kun, SHEN Chong, TIAN Chuan, WANG Haifeng, LI Hanwen

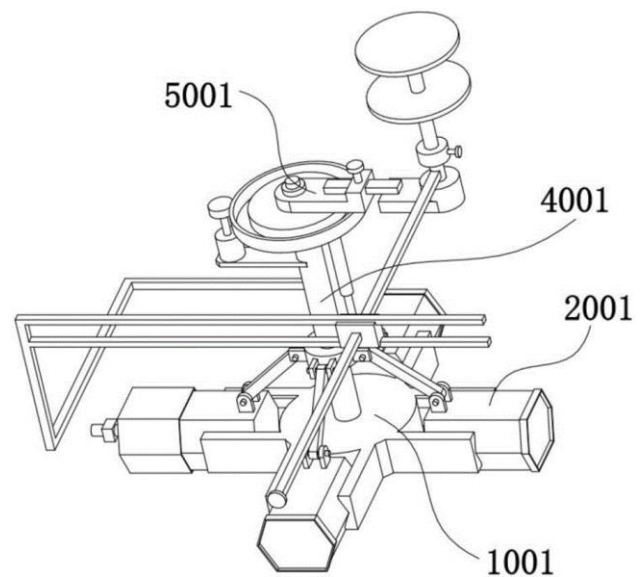
33: CN 31: 202110922810.2 32: 2021-08-12

54: OCEAN COMMUNICATION BUOY

00: -

The invention relates to a buoy, in particular to an ocean communication buoy. A marine communication buoy comprises a round seat, side grooves and a hollow box, wherein four side grooves are uniformly distributed outside the round seat, and each side groove is slidably connected with the hollow box. A marine communication buoy also comprises a sealing ring and a buckle cover, wherein the outer part of each hollow box is provided with a sealing ring, the outer end of each hollow box is slidably connected with a buckle cover, and the inner side of the buckle cover is in contact with the sealing ring. A marine communication buoy also comprises a valve and a joint pipe, wherein the outer

side of each buckle cover is provided with a joint pipe, and the joint pipe is provided with a valve. An ocean communication buoy also comprises a hinged seat, an upper column, a telescopic rod, a hinged rod and a sliding ring, wherein the upper side of the circular seat is fixedly connected with the upper column, the upper column is slidably connected with the sliding ring, four hinged rods are hinged on the sliding ring, four hollow boxes are all provided with hinged seats, the other ends of the four hinged rods are respectively hinged with the four hinged seats, and the upper column is fixedly connected with the telescopic rod.



21: 2022/07134. 22: 2022/06/28. 43: 2023/01/31
 51: E21C; E21D

71: JOY GLOBAL UNDERGROUND MINING LLC
 72: KOEKEMOER, Renier, ST. AMAND, Joseph, BARTER, Justin

33: US 31: 63/216,967 32: 2021-06-30

54: SCREEN HANDLING SYSTEM

00: -

A screen handling system is provided for a rock drilling device including a feed assembly, at least one rail system supporting the feed assembly for translational movement relative to a boom along a first axis, and an actuator for advancing a bit or bolt into a rock face parallel to the first axis. The screen handling system includes a pad disposed proximate the bit or bolt, a block having a bore that defines a second axis parallel to the first axis, a gripper at least partially disposed within and axially moveable relative to the bore in a direction along the second

axis, and a drive mechanism coupled to the block that is capable of continuously rotating the pad about the second axis to a desired orientation.

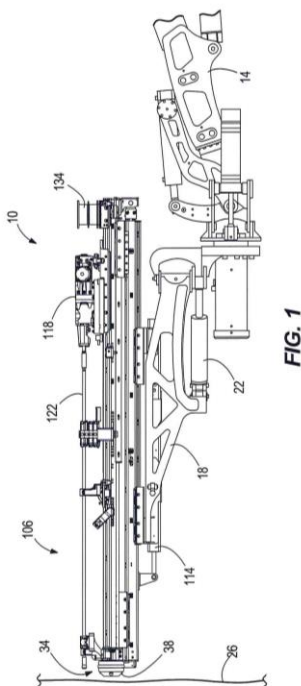


FIG. 1

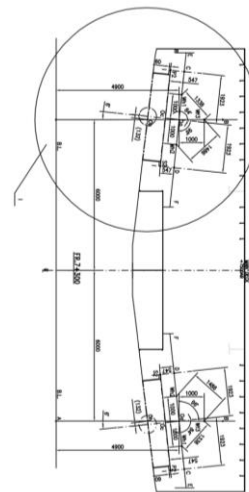
21: 2022/07278. 22: 2022/06/30. 43: 2023/01/31
 51: A01N; A61K; A61P; A01P
 71: AGROSUSTAIN SA
 72: DUBEY, Olga, DUBEY, Sylvain, GINDRO, Katia, SCHNEE, Sylvain
 33: EP 31: 20150182.2 32: 2020-01-03
54: FUNGICIDES TO PREVENT AND CONTROL FUNGAL PATHOGENS

00: -
 The invention relates to the field of biological fungicides with a broad range of antifungal activity coming from plant extracts from the order of Brassicaceae or molecules revealing similar chemical structure. Applicants surprisingly provided a new usage of a combination of sulfonyl and sulfanyl containing aliphatic glucosinolate derivatives, their by-products and synthetic analogues as efficient antifungal compounds with broad spectrum of activity.

21: 2022/07326. 22: 2022/07/01. 43: 2023/02/01
 51: B63B
 71: ZHEJIANG INTERNATIONAL MARITIME COLLEGE, COSCO SHIPPING HEAVY INDUSTRY (ZHOUZHAN) CO., LTD

72: LIU, Zailiang, AO, Wuping, LIU, Quan
 33: CN 31: 202010198546.8 32: 2020-03-20
54: PRE-WELD WIRE PULLING METHOD FOR STERN THRUSTER BASE

00: -
 The present invention relates to a pre-weld wire pulling method for a stern thruster base, which includes the following steps: step I, drawing a longitudinal center line FaFb, a transverse center line P1S1 and a transverse axial center line P2S2 for a port and starboard stern thruster bases, and marking sample punching pins; step II, determining center points Oa of a port and starboard stern thruster shafts, wherein the center points Oa of the port and starboard stern thruster shafts and the height of the center point Oa are confirmed by a vertical datum line AB of the port and starboard stern thruster shafts; step III, determining a plane position of the port stern thruster base; and step IV, repeating the step III to determine a plane position of the starboard stern thruster base. By adopting the method provided by the present invention, the plane position of the stern thruster base may be determined precisely, thereby providing precise data for the positioning and processing of the base, and improving the success rate of the subsequent installation of propulsion equipment.



21: 2022/07910. 22: 2022/07/15. 43: 2023/02/06
 51: C04B
 71: Hunan Fuminle Building Materials Technology Development Co., Ltd.
 72: Zhengguo SONG, Jiangjun LI, Zishi CHEN
 33: CN 31: 2022105200761 32: 2022-05-13

54: LIGHTWEIGHT WATER BLOCKING BACKFILL MATERIAL

00: -

The present invention relates to a lightweight water blocking backfill material. Ordinary Portland cement which is used as a basic component of the lightweight water blocking backfill material is mixed with inexpensive and easily available carbonaceous slate waste slag and coal ash and supplemented by additives such as sodium aluminate, sodium stearate and lauryl sodium sulfate to provide a high-quality lightweight water blocking backfill material. Experiments have shown that the mixing of the carbonaceous slate waste slag with an appropriate amount of coal ash can allow for significant improvement of the compressive strength of the backfill material and the addition of an appropriate amount of blowing promoter lauryl sodium sulfate can allow for further reduction in the dry density of the backfill material on the basis of ensuring the compressive strength thereof, thus resulting in reduction of extra load produced by the backfill material. The backfill material has the characteristics of low density, high compressive strength, excellent water blocking performance, etc.

21: 2022/07911. 22: 2022/07/15. 43: 2023/02/06
51: C04B

71: Hunan Fuminle Building Materials Technology Development Co., Ltd.

72: Zhengguo SONG, Jiangjun LI, Zishi CHEN
33: CN 31: 2022105200653 32: 2022-05-13

54: LIGHTWEIGHT FOAM FILLING METHOD

00: -

The present invention relates to a lightweight foam filling method. In the method, with Portland cement as a base stock, sodium dodecyl sulfate as a foaming agent, and functional additives such as a water repellent, a water retaining agent and a setting accelerator added, in the case where metakaolin and fly ash are mixed at the same time, a lightweight foam filling material having low density, low water absorption and high compressive strength and also having strong adhesion with a waterproof coating is prepared. The lightweight foam filling material can be applied to the field of wall crack filling material, roof insulation material, external wall sound-insulation and thermal-insulation material or energy-saving wall material, or the like.

21: 2022/07914. 22: 2022/07/15. 43: 2023/02/06
51: E02F

71: CHINA RAILWAY MAJOR BRIDGE ENGINEERING GROUP CO., LTD

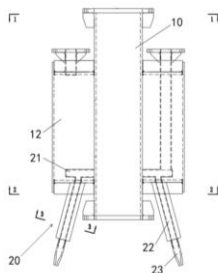
72: CHEN, Tao, ZHANG, Geng, LI, Juntang, PAN, Dongfa, TU, Manming, MAO, Weiqi, SHU, Haihua, YANG, Hao, ZHA, Daohong, LUO, Bing, ZHANG, Wenbin, SONG, Yuliang, ZHOU, Yan

33: CN 31: 202010568395.0 32: 2020-06-19

54: SUCTION DREDGER FOR USE ON UNDERWATER HARD SOIL LAYER

00: -

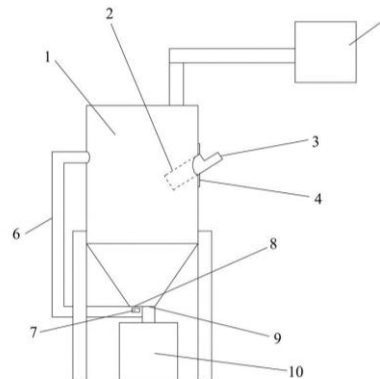
The present application relates to a suction dredger for use on an underwater hard soil layer and relates to the technical field of bridge construction equipment. The present suction dredger comprises a mud suctioning mechanism, a mud-breaking mechanism, and a blockage-prevention assembly. The mud suctioning mechanism comprises a pressurizing assembly and a suction dredging pipe. The suction dredging pipe passes through the pressurizing assembly and the two ends thereof at least partially extend past the pressurizing assembly. The side wall of the section of the suction dredging pipe located in the pressurizing assembly is provided with multiple pressurization holes that are inclined upward in the direction from the outer wall to the inner wall. The pressurizing assembly is used for, via the pressurization holes, forming low pressure in the suction dredging pipe. The mud-breaking mechanism comprises at least two mud-breaking assemblies. The mud-breaking assemblies are provided on the bottom of the mud suctioning mechanism and are used for crushing the underwater hard soil layer to assist the suction dredging pipe in suctioning mud. The blockage-prevention assembly is provided on the bottom of the suction dredging pipe. The blockage-prevention assembly is used for preventing the suction dredging pipe from experiencing blockages during the suction process. The suction dredger for use on an underwater soil layer provided in the present application solves the problem in the prior art that when a suction dredger works on an underwater hard soil layer, suction results are poor and blockages are common.



21: 2022/07964. 22: 2022/07/18. 43: 2023/02/06
 51: C04B
 71: Hunan Fuminle Building Materials Technology Development Co., Ltd.
 72: Zhengguo SONG, Jiangjun LI, Zishi CHEN
 33: CN 31: 2022103856085 32: 2022-04-13
54: LIGHTWEIGHT FOAMED FILLING MATERIAL FOR CAISSON TYPE BATHROOM

00: -
 The present disclosure relates to a lightweight foamed filling material for a caisson type bathroom. A lightweight foamed filling material with low density, low water absorption, high compressive strength and strong adhesion to a waterproof coating is prepared by using Portland cement as a base material and sodium lauryl sulfate as a foaming auxiliary and adding functional auxiliaries such as a water repellent, a water-retaining agent and an accelerator under the condition that metakaolin and coal ash are simultaneously admixed. The lightweight foamed filling material can be applied to the fields of filling of caisson type bathrooms and other filling spaces, heat insulation of a top floor, damp prevention of an underground floor and the like.

main downcomer, a primary drainage pipe and a secondary drainage pipe in the pit of the caisson type bathroom, wherein the primary drainage pipe and the secondary drainage pipe are respectively communicated with the main downcomer, and wherein a water inlet of the primary drainage pipe is a floor drain; forming a hole in one end of the main downcomer close to a reinforced concrete floor at the bottom layer; pouring standard or high-density foamed cement into the pit of the caisson type bathroom according to different room temperatures after the hole is blocked by a degradable plug, and forming a ditch in the surface of the foamed cement layer before the foamed cement is completely solidified, wherein the ditch is a water inlet of the secondary drainage pipe; and laying gravels parallel to the surface of the foamed cement layer in the ditch after the foamed cement is completely solidified, and then laying tiles on the gravels. The solution proposed by the present disclosure has the advantages of simple construction, uneasy water seepage and simple maintenance.



21: 2022/07965. 22: 2022/07/18. 43: 2023/02/02
 51: C04B
 71: Hunan Fuminle Building Materials Technology Development Co., Ltd.
 72: Zhengguo SONG, Jiangjun LI, Zishi CHEN
 33: CN 31: 2022103893506 32: 2022-04-13
54: PRODUCTION AND CONSTRUCTION METHOD FOR BACKFILLING A CAISSON TYPE BATHROOM

00: -
 The present disclosure discloses a production and construction method for backfilling a caisson type bathroom, comprising the following steps: 1) subpackage of foaming materials; and 2) arranging a

21: 2022/08022. 22: 2022/07/19. 43: 2023/01/27
 51: G01N
 71: INDIAN COUNCIL OF MEDICAL RESEARCH
 72: NANDI, Shyam Sundar, LAMBE, Upendra P., SARKAR, Kamlesh, DESHPANDE, Jagadish Mohan, SAWANT, Sonali Ankush
 33: IN 31: 202011014266 32: 2020-03-31
54: A POINT OF CARE DEVICE, METHOD AND KIT INVOLVING CLUB CELL PROTEIN 16 AS A MARKER FOR SILICOSIS

00: -
 The present invention provides a device and method based on lateral flow immunoassay for CC16 semi-quantification in serum sample. A novel membrane based semi quantitative detection of physiological/

pathological levels of CC16 in the serum has been provided. The device of the present invention provides affordable and easy to use strip-based screening approach for early detection of silicosis using CC16 as a biomarker.

21: 2022/08164. 22: 2022/07/21. 43: 2023/02/08

51: E01C

71: CHG Grondwerke BK

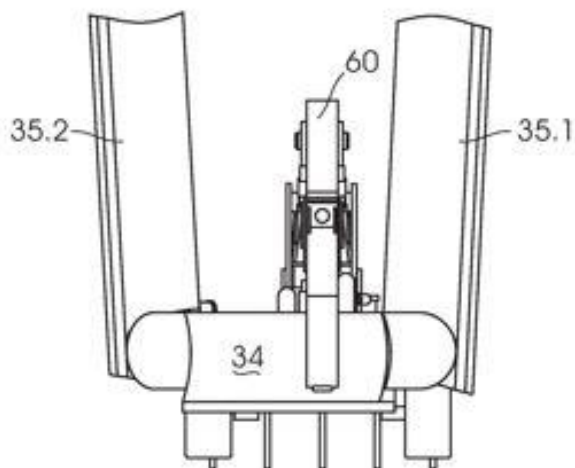
72: VAN DE MERWE, CHRISTIAAN HENDRIK GERT

33: ZA 31: 2021/04583 32: 2021-07-01

54: CONTOUR FORMING APPARATUS

00: -

An earth material shifting and contour forming apparatus is disclosed. In particular, the invention relates to a contour forming apparatus for moving earth material and finishing off contours formed including at least one peripheral blade laterally disposed relative to the central scraper blade and movably mounted via attachment means to the central scraper blade and in use selectively cooperating with the central scraper blade whilst being displaceable relative to the central scraper blade between a compaction position, wherein earth material located in the outer region after transfer of the earth material to the outer region by means of the central scraper blade, is graded and compacted by the at least one peripheral blade; and an inoperative position, wherein the at least one peripheral blade is raised relative to the central scraper blade.



21: 2022/08231. 22: 2022/07/22. 43: 2023/02/03

51: D06M

71: Anhui Polytechnic University, ZHEJIANG SCI-TECH UNIVERSITY

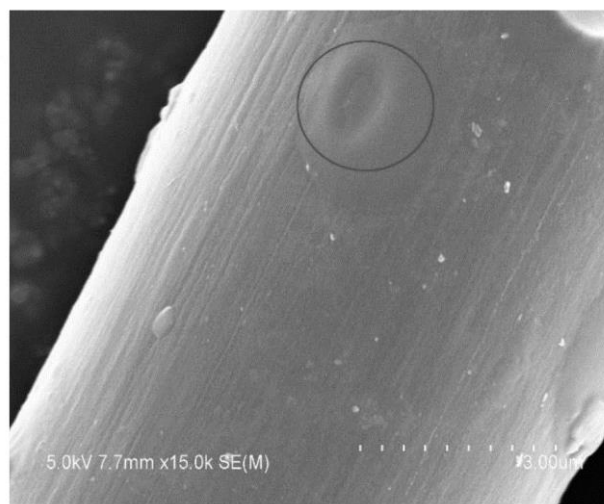
72: YANG Li, XU Zhenzhen, NI Qingqing, CHEN Yuan

33: CN 31: 2021103940396 32: 2021-04-13

54: METHOD FOR MODIFYING CARBON FIBER AND PRODUCT THEREOF

00: -

A method for modifying carbon fibers and a product thereof are provided. Modified carbon fibers are obtained by heating prepared carbon fibers under an inert atmosphere after magnetron sputtering treatment. The magnetron sputtering treatment takes the prepared carbon fibers as a substrate material and carbon as a target material, and sputtering conditions includes: a vacuum degree of 2×10^{-3} Pa, a distance from the target material to the substrate material of 4 cm, a magnetron sputtering power of 150 - 350 W, a magnetron sputtering pressure of 0.5 - 1.6 Pa, a magnetron sputtering duration of 20 - 60 min, a high purity argon as working gas, and an argon flow rate of 80 mL/min. The heating treatment is carried out under conditions including: a heating rate of 5 degree Celsius/min, a heating temperature of 200 - 600 degree Celsius, and a heating duration of 25 - 40 min.



21: 2022/08315. 22: 2022/07/26. 43: 2023/02/09

51: G06Q

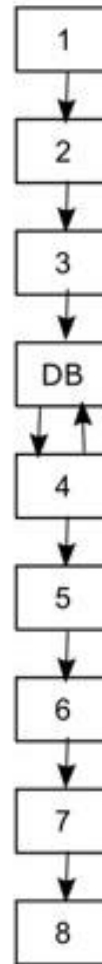
71: UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR)

72: BURGOS SOLANS Daniel, SAN JOSÉ DEL AMO José Carlos

33: EP 31: 21382936.9 32: 2021-10-18

54: COMPUTER-IMPLEMENTED METHOD FOR MONITORING THE EXPIRATION DATES OF GENETICALLY MODIFIED ORGANISM PRODUCTS, AND SYSTEM IMPLEMENTING THE SAME

00: -
 The invention relates to a computer-implemented method and system for monitoring the authorisation expiration dates of genetically modified organism, GMO, products, wherein the method comprising the steps of providing a list of GMO products, requesting information about at least one GMO product of the list, and retrieving said information to a database configured in a computer terminal. Advantageously, the method further comprises: processing, in the computer terminal, the sequence of components, splitting said sequence into a plurality of single transformation-event components; generating a plurality of sub-combinations of the split components of the sequence; updating, in the computer terminal, the authorisation expiration date of the GMO products in case that any of the expiration dates of their corresponding sub-combinations is closer to the current date than the expiration date of the GMO products in the remote data repository.



21: 2022/08320. 22: 2022/07/26. 43: 2023/02/09
 51: A61B
 71: UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR)
 72: CORBI BELLOT Alberto, BURGOS SOLANS Daniel

33: EP 31: 22382085.3 32: 2022-02-01
54: SYSTEM AND METHOD FOR DETECTING THE PRODROMAL DEVELOPMENT OF ALZHEIMER'S DISEASE FROM SLEEP PATTERNS

00: -
 The invention relates to a system for detecting the prodromal development of Alzheimer's disease from sleep patterns of a user (2), said system comprising: at least one inertial sensor (1) adapted to continuously measure an acceleration pattern (3) during a period of time, and wherein the acceleration pattern (3) comprises a set of data associated to the 10 user's (2) movements during sleep; wherein the inertial sensor (1) comprises means for transmitting

the data associated to the acceleration patterns (3) to a computing module (4). Advantageously, the computing module (4) is configured with a neural network (7) comprising a reference dataset obtained from the acceleration patterns (3) belonging to both healthy and patients of Alzheimer's disease, wherein the computing module (4) is further configured to obtain, by means of the neural network (7), a probability (8) of transitioning to a state characterised by Alzheimer's disease by comparison between the user's (2) acceleration pattern (3) and the reference dataset.

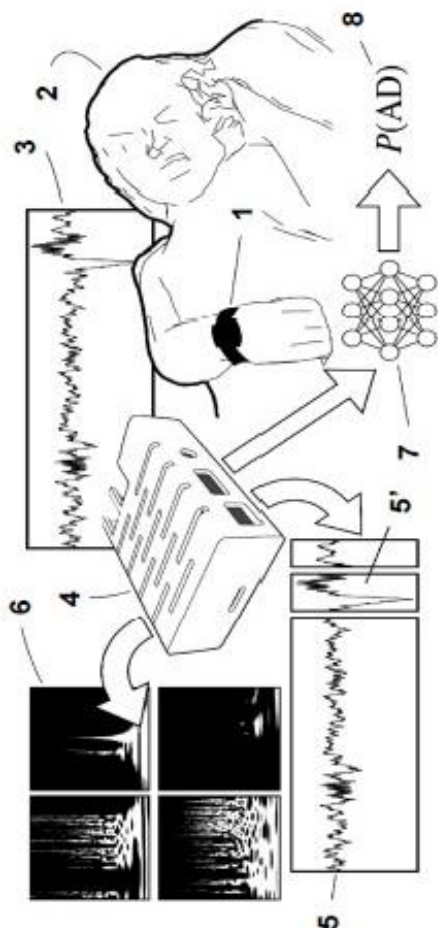
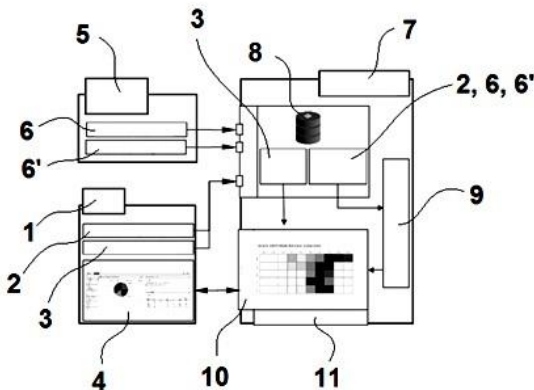


FIG. 1

SYSTEM AND A PLURALITY OF THIRD-PARTY SERVICES

00: -
The invention relates to a process and system of managing and sending recommendations to user groups in online educational platforms based on one or more web services, comprising at least: one CMS (1) configured with different activities that can be performed by the users, and a recommendation web platform (7) for users. Said recommendation web platform (7) is preferably configured with a calculation module (9) configured for reading and vectorising user activity records (2, 6, 6'), and for generating one or more recommendations for said users on the basis of one or more previously defined rules; and a display module (10) configured for reading the defined rules, the generated recommendations, the activity records (2, 6, 6'), and/or the results (3) obtained by the users, and showing graphical representations of said information.

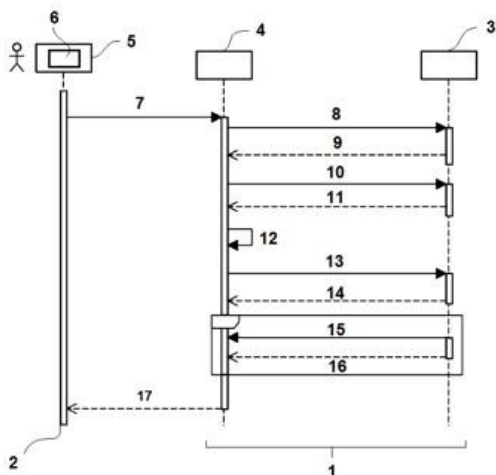


21: 2022/08321. 22: 2022/07/26. 43: 2023/02/08
51: G06F; G06Q
71: UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR)
72: Daniel BURGOS SOLANS, Alberto CORBI BELLOT
54: PROCESS FOR GENERATING AND SENDING RECOMMENDATIONS TO USERS OF A PROPRIETARY WEB CONTENT MANAGER

21: 2022/08322. 22: 2022/07/26. 43: 2023/02/07
51: G06F; G06Q
71: UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR)
72: Daniel BURGOS SOLANS
54: METHOD FOR OBTAINING AND SENDING USER-DIFFERENTIATED INFORMATION IN COMMUNICATION NETWORKS

00: -
The invention relates to a method and to a system for sending notifications or contents to users with differentiated roles in a network, comprising the use of a content server module (1) and a client module (2); wherein the server module (1) comprises at least one content manager (3) for generating, editing,

managing and publishing multimedia digital content sites, and configured with one or more web services for user authentication through access identities and their corresponding passwords, wherein said identities and passwords, as well as the data associated with each user, and their properties or roles will be stored in a database of the server module (1); and one web application (4) for sending JIT (Just in Time) content in the form of websites, and wherein the client module (2) comprises one or more user terminals (5) configured with one or more mobile applications (6).

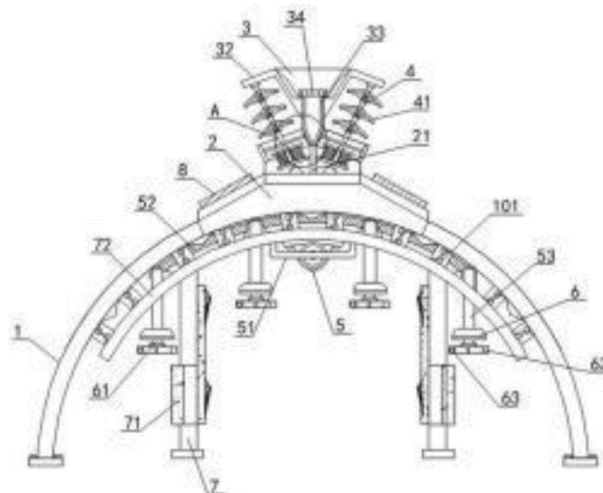


21: 2022/08448. 22: 2022/07/28. 43: 2023/01/23
 51: A01C; A01G; E03B; H02J
 71: Anhui Science and Technology University
 72: CHEN, Jiachen, HU, Yueying, CHEN, Xuechen, CAI, Xinchun, CHEN, Song
 33: CN 31: 202110872796.X 32: 2021-07-30

54: METHOD CAPABLE OF RECYCLING NATURAL ENERGY TO BE APPLIED TO AGRICULTURAL MODERNIZATION

00: -
 Disclosed is a method capable of recycling natural energy to be applied to agricultural modernization. The device for the method includes an arc-shaped plate, a mounting frame and a water collecting hopper, wherein the arc-shaped plate is a primary outer frame mounting structure of a facility, and reinforcing rods are arranged at a top surface of the arc-shaped plate; the mounting frame is located on the top surface of the arc-shaped plate, negative pressure pipes are arranged at a middle end of the mounting frame, and a mixing groove is formed in each of the negative pressure pipes; and the water collecting hopper is located at the top end of the mounting frame, a drainage groove is arranged

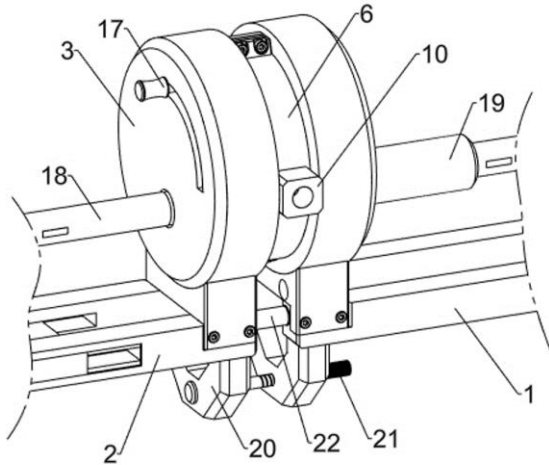
inside the water collecting hopper, and fertilizer buckets are mounted in the water collecting hopper. The automation degree is high, so that the agricultural planting and maintenance efficiency is improved integrally.



21: 2022/08484. 22: 2022/07/29. 43: 2023/02/07
 51: G01N
 71: Shandong University of Science and Technology
 72: Zhang, Chengguo, Gu, Xuebin, Guo, Weiyao, Zhao, Tongbin
 33: CN 31: 202210683159.2 32: 2022-06-16
54: DYNAMIC LOAD SHEAR TEST DEVICE AND METHOD BASED ON HOPKINSON BAR SYSTEM
 00: -

The present invention provides a dynamic load shear test device and method based on a Hopkinson bar system, and relates to the technical field of rock detection tests. According to the present invention, a cylindrical sample is quickly fixed by means of quick assembling of a fixed casing; the cylindrical sample is limited in a left-right direction by means of a limit rotation plate and a limit baffle; the limit rotation plate and a spring limit rod coordinate to rotate the cylindrical sample under the limit of an extrusion rotation block of an extrusion block, thereby performing a group of comparison experiments one cylindrical sample; a temperature environment of the cylindrical sample is maintained under the action of liquid pressure in coordination with an extrusion plate; the extrusion plate is made of an organosilicon material, such that the cylindrical sample is better fixed in an environment with high pressure and rotates without obstruction in an environment with small pressure, which facilitates the switching of a

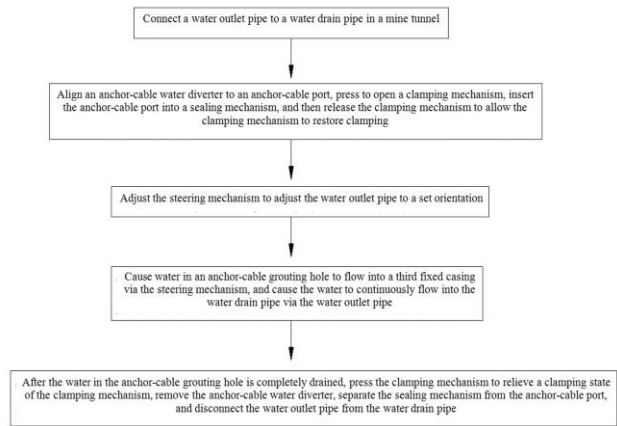
test position; and a threaded limit rod coordinates with a fixed frame to facilitate a tester quickly switching the state of a test device, such that the test efficiency is increased.



21: 2022/08485. 22: 2022/07/29. 43: 2023/02/07
 51: E21D
 71: Shandong University of Science and Technology
 72: Zhang, Chengguo, Gu, Xuebin, Guo, Weiyao, Zhao, Tongbin
 33: CN 31: 202210504612.9 32: 2022-05-10
54: METHOD FOR DIVERTING WATER FROM ANCHOR-CABLE GROUTING HOLE FOR CONSTRUCTION IN ROCK BRUST MINE
 00: -

The present invention provides a method for diverting water from an anchor-cable grouting hole for construction in a rock burst mine, and relates to the technical field of mining engineering. The method for diverting water from an anchor-cable grouting hole according to the present invention includes the following steps: connecting a water outlet pipe to a water drain pipe in a mine tunnel; aligning an anchor-cable water diverter to an anchor-cable port, pressing to open a clamping mechanism, inserting the anchor-cable port into a sealing mechanism, and then releasing the clamping mechanism to allow the clamping mechanism to restore clamping; adjusting a steering mechanism to adjust the water outlet pipe to a set orientation; causing water in the anchor-cable grouting hole to flow into a third fixed casing via the steering mechanism, and causing the water to continuously flow into the water drain pipe via the water outlet pipe; and after the water in the anchor-cable

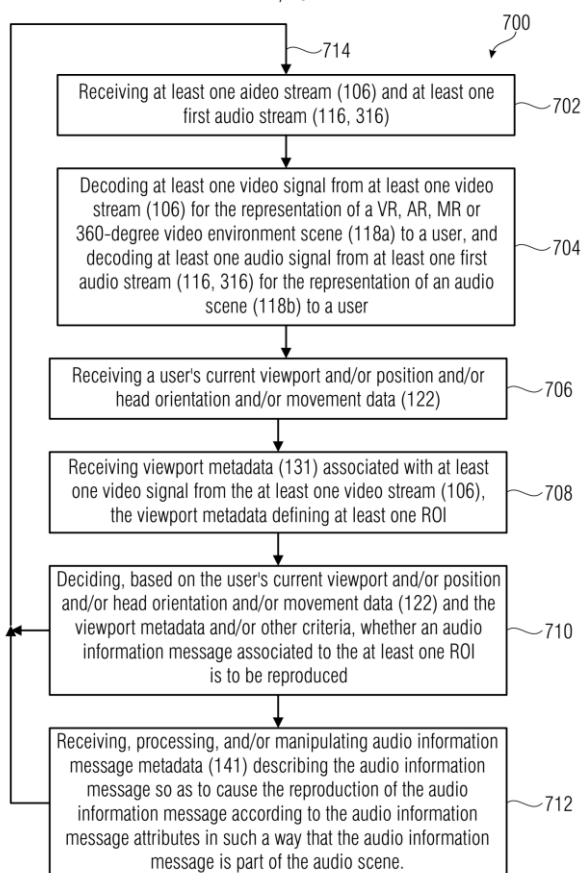
grouting hole is completely drained, pressing the clamping mechanism to relieve a clamping state of the clamping mechanism, removing the anchor-cable water diverter, separating the sealing mechanism from the anchor-cable port, and disconnecting the water outlet pipe from the water drain pipe. The method for diverting water from an anchor-cable grouting hole via a particular anchor-cable water diverter is easy to implement and can efficiently divert water from the anchor-cable grouting hole.



21: 2022/08717. 22: 2022/08/04. 43: 2023/01/27
 51: G06F; H04N
 71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
 72: MURTAZA, Adrian, FUCHS, Harald, CZELHAN, Bernd, PLOGSTIES, Jan
 33: EP 31: 17196255.8 32: 2017-10-12
54: METHOD AND APPARATUS FOR EFFICIENT DELIVERY AND USAGE OF AUDIO MESSAGES FOR HIGH QUALITY OF EXPERIENCE
 00: -

There are disclosed a method and a system for a virtual reality, VR, augmented reality, AR, mixed reality, MR, or 360-degree Video environment. The system may be configured to: receive at least one Video Stream (106) associated to an audio and video scene to be reproduced; and receive at least one first Audio Stream (116, 316) associated to the audio and video scene to be reproduced, wherein the system comprises: at least one media Video decoder (102) configured to decode at least one Video signal from the at least one Video Stream (106) for the representation of the audio and video scene to a user; and at least one media Audio

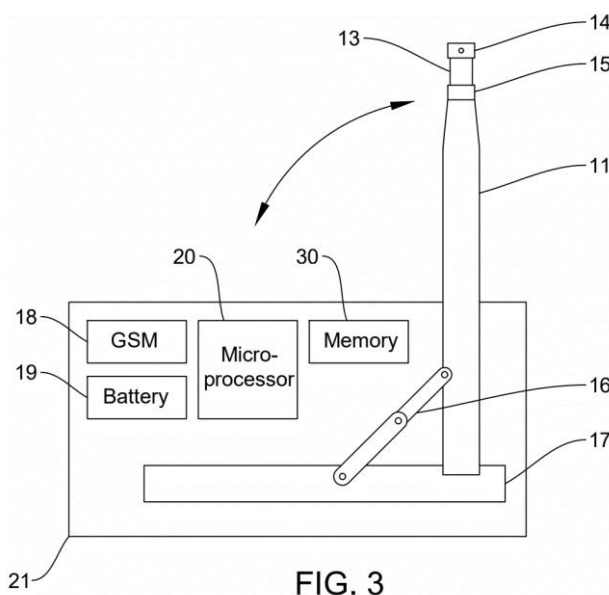
decoder (112) configured to decode at least one Audio signal from the at least one first Audio Stream (116, 316) for the representation of the audio and video scene to the user; a region of interest, ROI, processor (120), configured to: decide, based at least on the user's current viewport and/or head orientation and/or movement data (122) and/or viewport metadata (131) and/or audio information message metadata (141), whether an Audio information message associated to the at least one ROI is to be reproduced, wherein the audio information message is independent of the at least one Video signal and the at least one Audio signal; and cause, at the decision that the information message is to be reproduced, the reproduction of the Audio information message.



21: 2022/09144. 22: 2022/08/16. 43: 2022/11/25
 51: G08G; B60W
 71: Mirza Faizan

72: Mirza Faizan, Mirza Rizwan, Azal Amer, Ryan Xie, Connor Price-Gearey, Nikitha Thoduguli, Rishab Sidamshetty, Shreeya Madhavanur, Ashton Rischer
54: VEHICLE COLLISION AVOIDANCE SYSTEM
 00: -

A vehicle collision warning and avoidance system including a vehicle that includes one or more sensors, one or more cameras configured with an extended rod to monitor the exact location and the speed of the other vehicles to monitor for a collision condition, and visual monitoring display system configured to emit a warning signal to warn a vehicle driver about the collision condition, the internal warning signal system including at least one warning device configured to emit the warning signal, and a processor configured to detect an exit condition using a signal received from the one or more sensors and the one or more cameras in response to the collision condition.

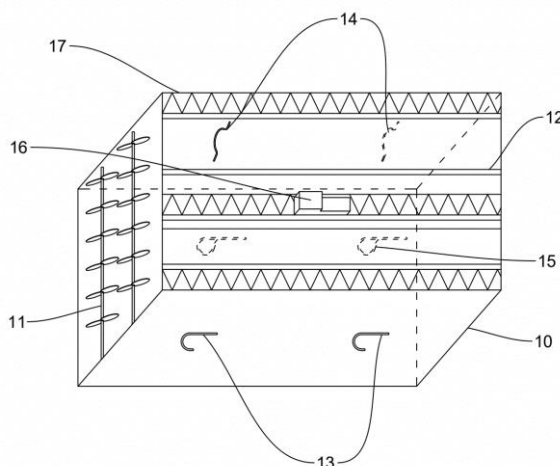
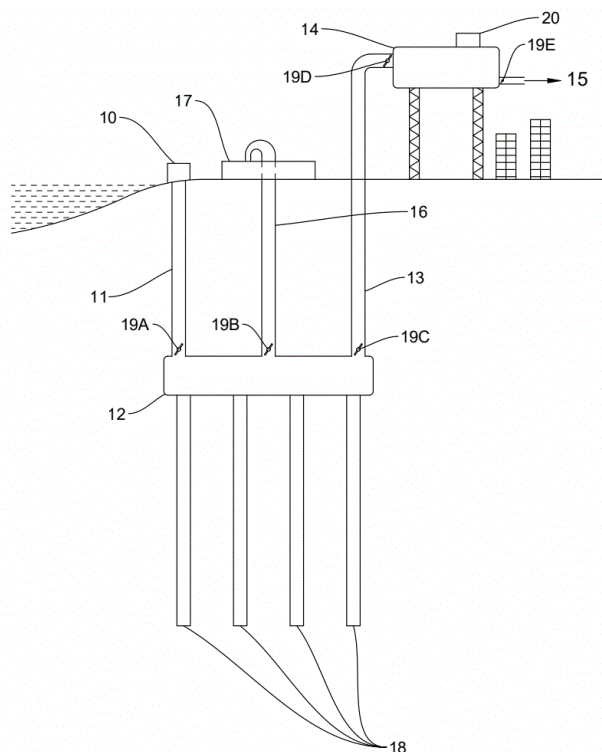


21: 2022/09145. 22: 2022/08/16. 43: 2022/11/25
 51: C02F; E21C
 71: Mirza Faizan
 72: Mirza Faizan, Mohammad Ayaan, Mariya Kawish, Faizaan Syed Hussain, Maryam Abid Bhojwani, Bilal Syed Ali Shah, Nimra Syeda Ali Shah
54: WATER DESALINATION SYSTEM
 00: -

The water desalination system using geothermal energy includes a plurality of heat transfer rods. Desalinated water flows into the injector and reaches the evaporation chamber, wherein the evaporation

chamber receives heat geothermally via a plurality of heat transfer rods 18. Further, the heat transfer rods 18 heat the water in the evaporation chamber, which results in the formation of steam. The steam is carried to one or more storage tanks by means of one or more pipes. The steam generated from the evaporation chamber on reaching the storage tanks get condensed and water is formed

the movement of air, water, etc. to generate electricity through the movement of an electrical turbine within each brick. The present invention enables the effective utilization of natural resources, which will help to promote the use of such energy.



21: 2022/09146. 22: 2022/08/16. 43: 2022/11/25
51: H02S
71: Mirza Faizan

72: Mirza Faizan, Mirza Rizwan, Aamenah Saeed, Bilal Syed Ali Shah, Mehreen Afreen Syed, Omar Aamir Memon, Rania Azeed, Yahya Siddiqui, Zain Khan

54: BRICK FOR POWER GENERATION

00: -

A machine and system for power generation through the air, water, sunlight, noise, and movement having an array of power generating microturbine bricks electrically interconnected, where the array is configured in an interchangeable modular fashion and the bricks are positioned to receive energy from

21: 2022/09147. 22: 2022/08/16. 43: 2022/11/25
51: G09B; H04W
71: Mirza Faizan

72: Mirza Faizan, Yashas Vamsi Pradeep, Zayn Sohel Sachak, Gautam Rao, Hamza Ali Zakir, Sanjiv Sridharan, Sheza Asif, Iliyan Ali Mithani, Vihan Yerubandi, Nihal Yerubandi, Abdullah Ali Syed, Avaneesh Jakkireddy, Raj Kusumakar, Abdullah Hasani, Mishaal Qureshi

54: METHOD AND APPARATUS FOR ENABLING COMMUNICATION OF DIFFERENTLY ABLED USERS

00: -

The present disclosure envisages an apparatus for communication to enable differently abled users to communicate their requirements to others. The apparatus comprises an eye wearable device adapted to emit infrared light signal from a certain area of at least one eye of the user. The apparatus further includes a monitoring device configured to receive the transmitted infrared light signal from the at least one eye of the user and further configured to identify the requirement of the user corresponding to the transmitted infrared light signal.

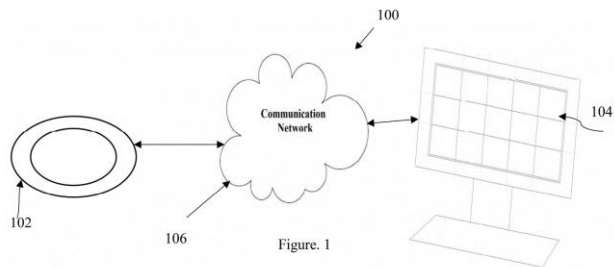


Figure. 1

21: 2022/09/15. 22: 2022/08/16. 43: 2022/11/28
51: A61B

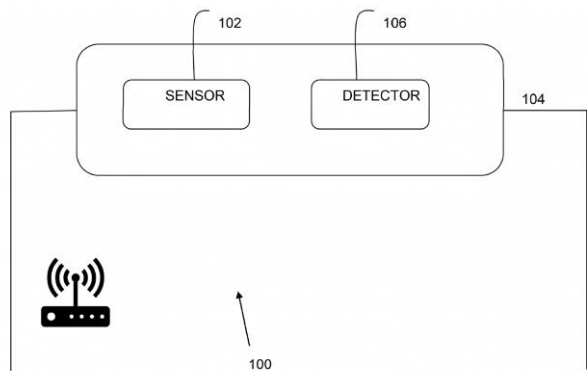
71: Mirza Faizan

72: Mirza Faizan, Bilal Hassan, Marium Khan, Shafaat Ahsen, Bilal Nouiouat, Hiba Thayyil, Mansoor Hasan Khan, Saadia Asaf, Sidra Ambreen, Binu Varghese, Vineet Anshuman, Mirza Rizwan

54: STRESS MANAGEMENT SYSTEM

00: -

The invention relates to a stress measuring system. The stress measuring system comprises one or more sensors configured to detect cortisol from sweat of a user; a memory unit configured to store said detected cortisol level; a computation unit configured to determine a rate of said detected cortisol and determine stress level in said user; and an alarming unit configured to generate an alarm based on a high level of detected distress in said user. The device is be able to detect cortisol from sweat on the arm of someone using it and is able to relate sweat cortisol to cortisol levels in saliva, which are strongly correlated. Saliva is traditionally used for stress detection, but is inconvenient. The disclosed device can detect cortisol instantly from when it is in contact with the detector, so we can track the cortisol production rate in real time.



21: 2022/10/06. 22: 2022/09/09. 43: 2022/12/01
51: E21B

71: Jilin university

72: Gao ke, Niu xin, Zhao yan, Xie xiaobo

54: A LARGE CAPACITY STORAGE AND TRANSPORTATION DEVICE FOR COILED TUBING

00: -

A large capacity storage and transportation device for coiled tubing, which comprises a gooseneck reversing mechanism, a storage and injection mechanism, a rotary support mechanism, an auxiliary clamping lifting mechanism, a storage and injection guide mechanism, an automatic alignment mechanism of a storage sleeve, a traction electric control trolley and a sleeve type large capacity storage mechanism; By fixing one end of the coiled tubing so that the other end is a movable free end, and driving the rotation by pulling the electric control trolley, the storage and discharge of coiled tubing can be realized without multi-channel slip rings; Through the multi-layer storage tube and transition tube, the large capacity of coiled tubing is realized, and the problem of mutual extrusion, deformation and damage of winch storage tubes is completely solved; By increasing the bending diameter of coiled tubing, the bending fatigue life of coiled tubing is improved; The auxiliary clamping lifting and landing mechanism can freely lift and place the larger diameter terminal machines and tools or instruments that need to be transported in connection with the coiled tubing, which supplements the functional defects of the storage and injection mechanism; Through the storage and placement guiding mechanism, it is easier for the coiled tubing to enter and exit the storage barrel and the transition barrel.

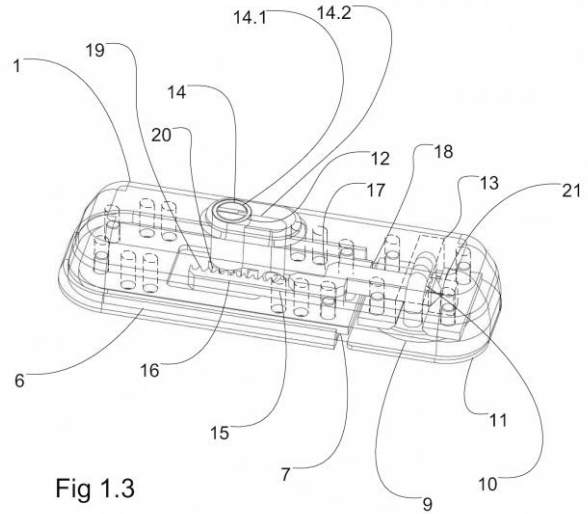
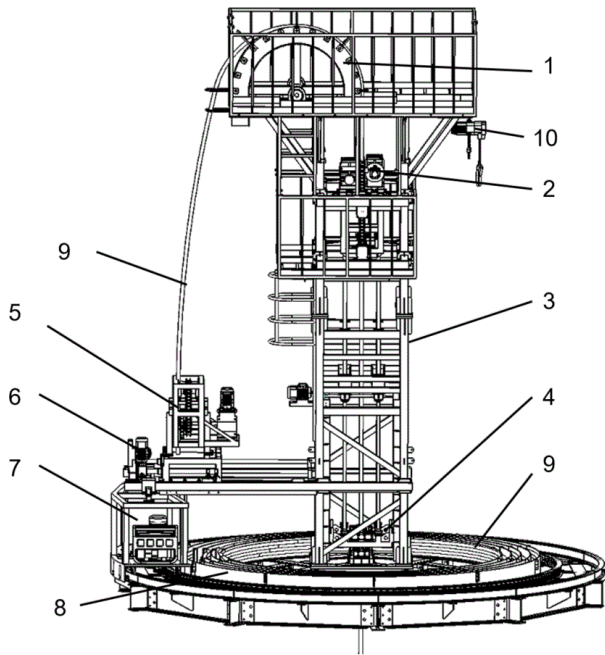


Fig 1.3

21: 2022/10074. 22: 2022/09/09. 43: 2023/01/24
 51: E05B; E05C
 71: Locks4Vans Ltd
 72: BATTERBEE, Christopher
 33: GB 31: 2002015.2 32: 2020-02-13

54: A LOCK ASSEMBLY FOR A VEHICLE LOAD COMPARTMENT

00: -
 A lock assembly is intended to improve the security of a roller shutter door or tailgate door, especially on a vehicle used to make frequent deliveries and collections. The lock assembly provides a bolt (15) mounted in an enveloping housing (1) to be displaced solely by the action of a key placed in a lock (14) and rotated. Rotation displaces the bolt (15) between an extended condition where the bolt can engage in a staple (10) so locking the door closed, and a retracted condition where the door can be opened.

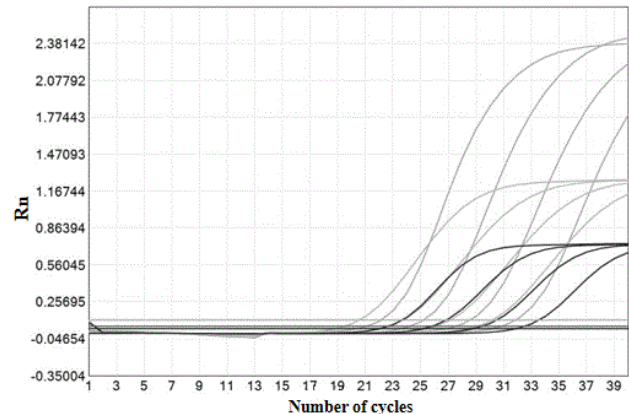
21: 2022/10220. 22: 2022/09/14. 43: 2022/11/21
 51: C12Q; C12R
 71: SANSURE BIOTECH INC.

72: DAI, Lizhong, JI, Bozhi, DENG, Zhongping, LIU, Jia, TAN, Deyong, FAN, Xu

33: CN 31: 202010143226.2 32: 2020-03-04

54: PRETREATMENT METHOD, PRETREATMENT SOLUTION, KIT FOR VIRUS NUCLEIC ACID DETECTION, AND USE THEREOF

00: -
 The present invention relates to the field of viral nucleic acid detection. In particular, the present invention provides a pretreatment method for viral nucleic acid detection. The method includes mixing a pretreatment solution containing a sample with a nucleic acid releasing agent and a qPCR amplification reagent, wherein the pretreatment solution includes Tris-HCl, EDTA-2Na, sodium chloride, a ribonuclease (RNase) inhibitor, and an antibiotic; and the pretreatment solution has a pH of 6.5-8.0.



21: 2022/10352. 22: 2022/09/19. 43: 2023/01/24
 51: F03D

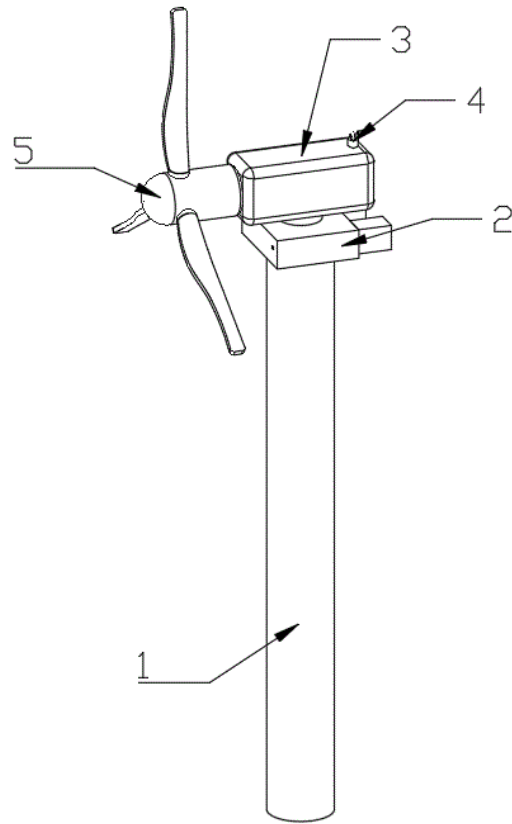
71: Jiangxi Jianbang Construction Group Co., Ltd.

72: Ming Li, Xiaoming Chen, Jianqiang Cao

54: WIND POWER GENERATION INTEGRATED DEVICE OF BUILDING WIND TUNNEL

00: -

The present disclosure provides a wind-driven and wind power generation device and belongs to the field of wind power generation. The device includes a tower, wherein a wind-driven mechanism is arranged on a top surface of the tower, the wind-driven mechanism includes a fixed box, a control box, a first rotary bearing, a rotary column, an outer toothed ring, a worm and a first drive motor; the fixed box is fixedly connected to the top surface of the tower, and the control box is fixedly connected to a right side wall of the fixed box; the first rotary bearing is fixedly connected to the inside of the fixed box, and the rotary column is fixedly connected in a shaft of the first rotary bearing and penetrates through the fixed box; the outer toothed ring is fixedly connected to the outside of the rotary column and located in the fixed box, positions of fan blades are changed along the changed wind direction through the cooperation use between the wind-driven mechanism and a regulating mechanism, so that the fan blades are always relative to the wind direction, and the fan blades can obtain the maximum dynamic potential energy when rotating by the maximum wind potential energy, and then the electrical energy conversion efficiency is improved through the obtained maximum dynamic potential energy.



21: 2022/10356. 22: 2022/09/19. 43: 2023/01/26

51: A61K; A61N; A61P

71: RUSTICK, Joseph

72: RUSTICK, Joseph

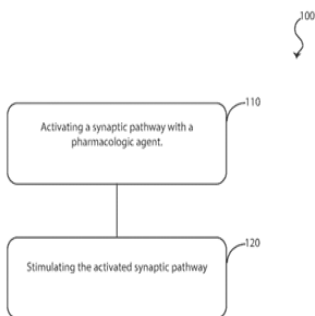
33: US 31: 16/827,546 32: 2020-03-23

54: METHOD FOR TREATMENT OF NEUROLOGICAL DISORDERS USING SYNAPTIC PATHWAY TRAINING

00: -

Disclosed are methods of treating depression, mania, post-traumatic stress disorder (PTSD), and various other neurologic conditions using synaptic pathway training. Methods of synaptic pathway training include, generally, achieving a favorable treatment result by activating a synaptic pathway using a pharmacologic agent, such as treating refractory symptoms of depression with ketamine, following by potentiation of the favorable result by repeatedly stimulating the activated pathway. Stimulation of a synaptic pathway may be achieved by intrinsic means, such as performance of cognitive exercised, or extrinsic means, such as by delivery of a sensory stimulus to the patient, placing a potential

voltage difference across the brain or a brain region, or by placing the brain or a brain region in a magnetic field.



21: 2022/10498. 22: 2022/09/22. 43: 2023/01/20
 51: A01G; A01N; A01P
 71: Institute of Plant Protection, Guizhou Academy of Agricultural Sciences
 72: CHENG, Ying, ZHOU, Yuhang, LI, Fengliang, LI, Wenhong, JIN, Jianxue

54: GREEN CONTROL METHOD FOR SPODOPTERA LITURA

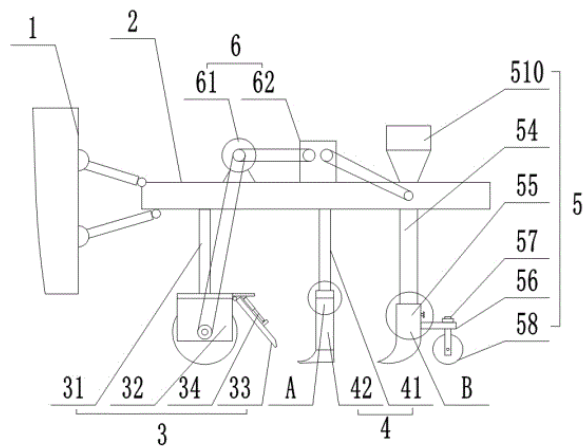
00: -
 The present disclosure provides a green control method for pests, specifically a green control method for Spodoptera litura. The method can effectively prevent and control the damage of pests to crops.

21: 2022/10499. 22: 2022/09/22. 43: 2023/01/20
 51: A01C
 71: Institute of the Crops in High Latitude&Cold Climate Area, Shanxi Agricultural University
 72: JIANG Chao, LI Hai, LIANG Haiyan, SONG Xiaoqiang, YANG Fang, YANG Fu

54: MILLET SOIL MOISTURE DETECTING SEEDER

00: -
 The invention discloses a millet soil moisture detecting seeder, wherein the bottom end of a seeding frame is sequentially provided with a rotary tillage mechanism, a soil moisture detecting mechanism and a plurality of groups of seeding mechanisms; the top of the seeding frame is provided with a driving mechanism; the seeding mechanism comprises a screening component installed at the top of the seeding frame, the bottom of the screening component is communicated with a quantitative component, and the quantitative component is fixedly installed on the seeding frame; the quantitative component is in transmission

connection with the driving mechanism; the bottom end of the seeding frame is communicated with a seeding component; the quantitative component comprises a quantitative tube fixedly connected to the seeding frame, two ends of the quantitative tube are respectively connected with the screening component and the seeding component, a quantitative shaft is rotatably connected in the quantitative tube, and the outer wall of the quantitative shaft is matched with the inner cavity of the quantitative tube; the out wall of that quantitative shaft is provided with a plurality of seed grooves; the quantitative shaft is in transmission connection with the driving mechanism. The invention can realize the quantitative sowing of millet by soil moisture detection, reduce the waste of seeds, reduce the labor amount of later seedling thinning, improve the sowing quality of millet, and improve the germination rate of millet.

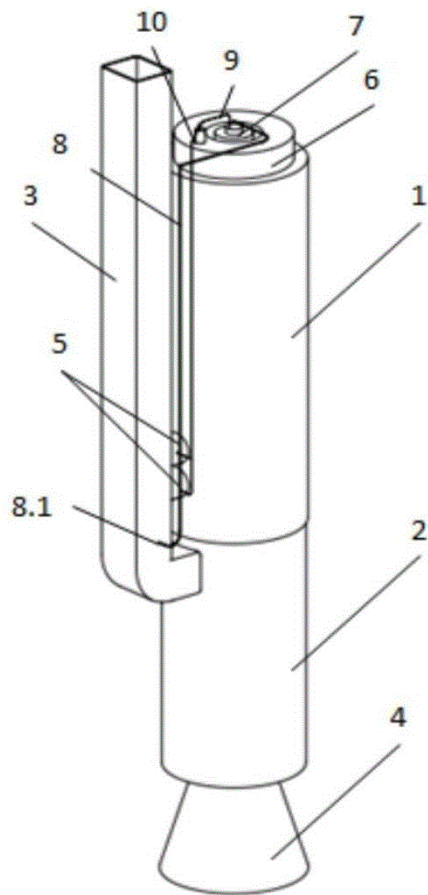


21: 2022/10500. 22: 2022/09/22. 43: 2023/01/20
 51: F02K
 71: Nanjing University Of Aeronautics And Astronautics
 72: Yao Zhaohui
 33: CN 31: 202210506974.1 32: 2022-05-10

54: A KIND OF THE POWDER-LIQUID COMBINED RAMJET AND ITS CONTROL METHOD

00: -
 This invention discloses a kind of the powder-liquid combined ramjet and the control method. The motor includes the integrated powder liquid storage tank, afterburning chamber and nozzle; The outer side of the afterburning chamber is connected to the ram intake pipe. The upper part of the ram intake pipe is connected to the powder liquid storage tank through

the electric screw propeller; The said powder liquid storage tank has the rubber capsule and it has the powder-liquid propellant inside; The afterburning chamber has the rocket propellant; The upper part of the powder liquid storage tank has the pressure conduit that connects to rubber capsule and ram intake pipe. The pressure conduit has the solenoid valve controlling the on-off of the pipeline; This invention adopts the powder propellant with the small particle size with the large specific surface area, which is conducive to improve the combustion efficiency. Besides, the volatile liquid propellant is filled in the clearance of the powder particle; In addition, they shall be pre-mixed in the stamping inlet and be entered in the stamping combustion chamber for further mixing and combustion. It is mixed more fully and uniformly.

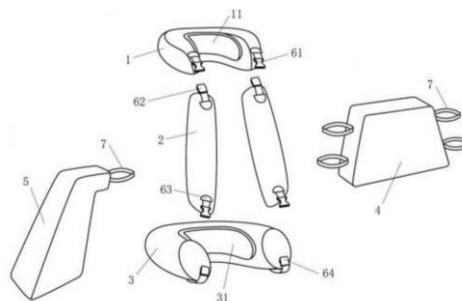


21: 2022/10501. 22: 2022/09/22. 43: 2023/01/20
 51: A47G
 71: Guangdong University of Technology
 72: Yue Sun, Dingbang Luh, Yulin Zhao, Fei Sun

54: AN ASSEMBLED SLEEP POSTURE-CORRECTION PILLOW

00: -

This application relates to the technical field of daily use products, in particular to an assembled sleep posture-correction pillow, including neck pillow, side pillow, waist pillow, chest pillow and leg pillow; The side pads are two, and the side pads are long strips; The neck pillow and the waist pillow are U-shaped, the first end of the two side pads are respectively detachable connected with the two ends of the neck pillow, the second end of the two side pads are respectively detachable connected with the two ends of the waist pillow; The chest cushion pillow is arranged between the two side pads, and the chest cushion pillow and the side pad can be disassembled and connected; The leg pillow is removable and connected to either side pad. This application is composed of a plurality of detachable cushions, each component can be used individually or in combination, with good flexibility and easy to remove and wash the advantages. This can be convenient for users to choose and combine different cushions according to their own needs, effectively solving the existing technology in the single function and not easy to clean the technical problems.

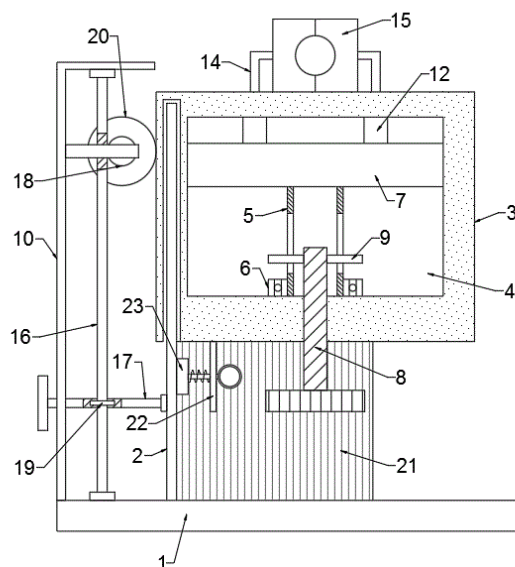
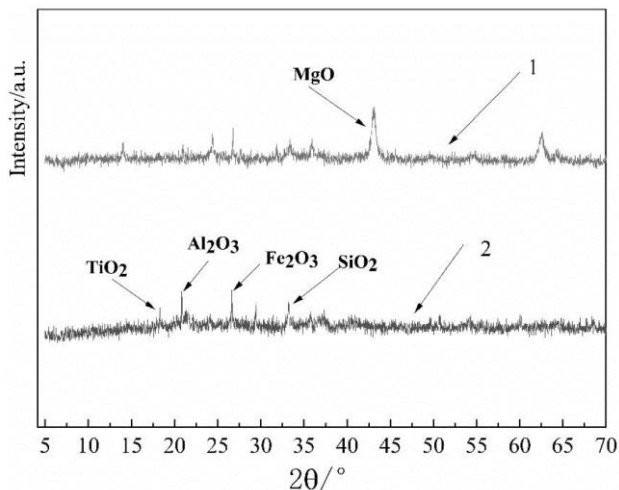


21: 2022/10502. 22: 2022/09/22. 43: 2023/01/20
 51: B01J
 71: Sichuan University of Science and Engineering
 72: SHANG, Jianping, FAN, Beibei, Hua-Jun Shawn Fan, QIN, Xiaoping, ZHAO, Bin
54: PREPARATION METHOD FOR RED MUD-BASED CATALYST, PRODUCT AND APPLICATION THEREOF

00: -

The present invention discloses a preparation method for a red mud-based catalyst, a product and an application thereof. An MgO-loaded red mud catalyst is obtained, and has a good application

effect in photocatalytic degradation of a methyl orange.



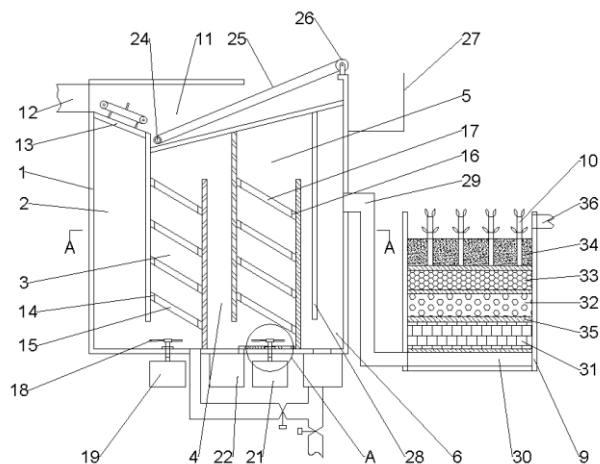
21: 2022/10503. 22: 2022/09/22. 43: 2023/01/20
 51: A61M
 71: Anyang Hospital of traditional Chinese Medicine
 72: TianYabin
 33: CN 31: 202211121231.9 32: 2022-09-15
54: A SPECIAL GUIDE WIRE CLAMP DEVICE FOR CORONARY INTERVENTION

00: -
 The invention discloses a special guide wire clamp device for coronary intervention surgery, which comprises a fixed seat, wherein the upper side wall of the fixed seat is fixedly connected with an arc-shaped plate, the outer wall of the arc-shaped plate is movably sleeved with a round table, a positioning mechanism is arranged between the round table and the arc-shaped plate, the upper side wall of the fixed seat is fixedly connected with a right-angle plate, a lifting mechanism is arranged between the right-angle plate and the round table, A cavity is formed in the round table, the inner bottom wall of the cavity is provided with a rotating tube through a bearing, the upper end of the rotating tube is fixedly connected with a disc, and two clamping blocks are arranged on the upper side wall of the round table in a sliding manner. The guide wire is clamped and fixed by the two clamping blocks, so that the guide wire can be prevented from moving in the operation process, and the safety of the operation is ensured; and meanwhile, the angle and the height of the clamping blocks can be adjusted to meet different requirements in the operation.

21: 2022/10504. 22: 2022/09/22. 43: 2023/01/20
 51: C02F
 71: WEST ANHUI UNIVERSITY
 72: WANG Wanfen, JIA Rusheng
 33: CN 31: 202211082180.3 32: 2022-09-06
54: WASTEWATER TREATMENT DEVICE FOR TREATING SEWAGE

00: -
 This invention provides a wastewater treatment device for treating sewage, including: a first treatment section, wherein a second treatment section is communicated with the first treatment section; the first treatment section includes a first box body, wherein an auxiliary cavity, an anaerobic treatment cavity, an intermediate cavity, an aerobic treatment cavity and a sedimentation cavity are arranged in sequence along the water flow direction in the first box body; the auxiliary cavity communicates with a bottom end of the anaerobic treatment cavity, the anaerobic treatment cavity communicates with a top end of the intermediate cavity, the intermediate cavity communicates with a bottom end of the aerobic treatment cavity, the aerobic treatment cavity communicates with a top end of the sedimentation cavity, the sedimentation cavity communicates with the second treatment section, the bottom end of the anaerobic treatment cavity is provided with a first disturbance mechanism, and the bottom end of the aerobic treatment cavity is provided with an aeration mechanism and a second disturbance mechanism; the second treatment section includes a second box

body, a bottom end of the second box body communicates with the top end of the sedimentation cavity, an adsorption mechanism is arranged in the second box body, and a top end of the adsorption mechanism is planted with emergent plants. This device purifies sewage with better purification effect.



21: 2022/10505. 22: 2022/09/22. 43: 2023/01/20
51: C12N

71: Northwest A&F University
72: Liu Chaobin, Zhao Aiguo, Wu Haitang, Bai Hangyu

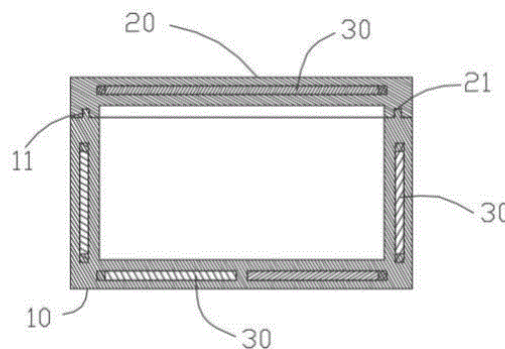
54: A TRANSGENIC TOBACCO AND ITS APPLICATION IN THE PRODUCTION OF TOXICODENDRON VERNICIFLUUM LACCASE

00: -
The invention discloses a transgenic tobacco and its application method in production of Toxicodendron vernicifluum laccase. And it is characterized in that the invention adopts plant biotechnology and plant transgenic engineering technology to provide the transgenic tobacco with high yield of Toxicodendron vernicifluum laccase and its application method. The transgenic tobacco can be widely used in the production of Toxicodendron vernicifluum laccase, thus being beneficial to the development of raw lacquer industry and the popularization and application of Toxicodendron vernicifluum laccase in the treatment of industrial wastewater such as food, beverage, paper making, etc.

21: 2022/10506. 22: 2022/09/22. 43: 2023/01/20
51: B65D
71: Beijing Wuying Weiye Foam Plastic Material Co., Ltd.
72: ZHOU, Xinhua

54: COMPOUND THERMAL INSULATION CABINET AND FORMING PROCESS THEREFOR
00: -

Provided is a compound thermal insulation cabinet. The compound thermal insulation cabinet includes a cabinet body, a cabinet cover and thermal insulation panels, where a protruding frame is fixedly arranged on an opening of the cabinet body, the cabinet cover is used for sealing an opening of the cabinet cover, a groove is provided in a lower side face of the cabinet cover, and the protruding frame is embedded into the groove; and wall panels of the cabinet body and the cabinet cover are all provided with the thermal insulation panels, and the thermal insulation panels are used for preventing heat exchange of internal and external environment temperatures of the cabinet body and the cabinet cover. A thermal insulation function of the thermal insulation cabinet is achieved, and an effect that the thermal insulation panels are less likely to be damaged is achieved.



21: 2022/10507. 22: 2022/09/22. 43: 2023/01/20
51: A61K
71: Suizhou Shengfa Ecological Agricultural Technology Co., Ltd.
72: Tianfeng Li

54: A KIND OF CHINESE MEDICINE MASK FOR BRIGHTENING COMPLEXION AND LIGHTENING SPOTS

00: -
The invention discloses a kind of Chinese medicine mask for brightening complexion and lightening spots, consisting of the following ingredients of the following quality: 2-6 parts of anoectochilus formosanus hayata, 2-8 parts of panax notoginseng, 4-10 parts of American ginseng, 2-5 parts of fructus trichosanthis, 3-8 parts of Chinese angelica, 5-10 parts of pearl powder, 3-10 parts of ganoderma lucidum spore powder, 2-6 parts of sargassum, 2-6

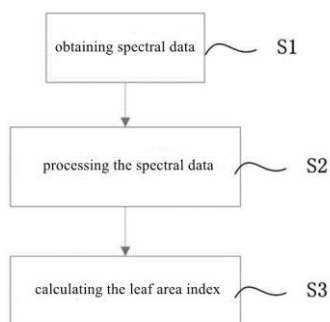
parts of white poria cocos, 2-8 parts of Japanese ampelopsis root, 2-5 parts of flos chrysanthemi, 1-3 parts of honey, 5-12 parts of aloe. The invention adopts some simple and easily available Chinese medicine raw materials to prepare the Chinese medicine mask, having the effects of moisturizing the skin, brightening complexion and lightening spots; the Chinese medicine mask provided by the invention is selected from natural raw materials without any additives, and will not cause harm to the skin for the long-time use with high safety.

21: 2022/10508. 22: 2022/09/22. 43: 2023/01/20
51: G01B

71: Shandong Academy of Agricultural Sciences
72: Xueyan Sui, Shouzhen Liang, Meng Wang, Fei Wang, Dongrui Han, Xiaodong Zhang

54: A REMOTE SENSING MONITORING METHOD FOR PEANUT LEAF AREA INDEX

00: -
The invention discloses a remote sensing monitoring method for peanut leaf area index, specifically comprising the following steps: obtaining spectral data; processing the spectral data; and calculating the leaf area index. The monitoring method is simple and easy to implement, the results are more accurate, it overcomes the influence of satellite data operation cycle, realizes multi-satellite collaborative monitoring, improves monitoring efficiency, and can achieve rapid measurement of large-area peanut leaf area index, this is the biggest advantage of remote sensing monitoring, which is incomparable over other test methods.



21: 2022/10510. 22: 2022/09/22. 43: 2023/01/20
51: B61C

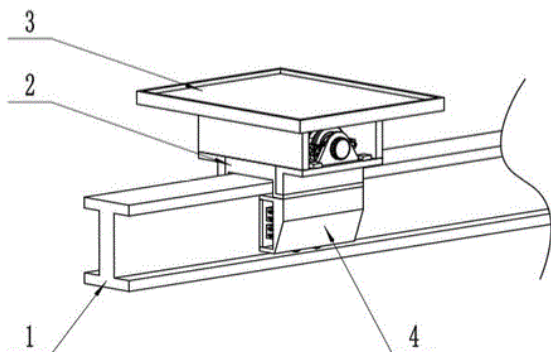
71: XUZHOU XCMG DRIVELINE TECHNOLOGY CO., LTD., XUZHOU UNIVERSITY OF TECHNOLOGY

72: QIN Datong, ZHANG Nong, JIANG Liqiao, MA Ming, LYU Chang, WANG Zhongbin, HU Jianjun, HUANG Chuanhui, SUN Dandan, SONG Jun, YIN Haodong, XUE Lige, HE Minghu, ZHU Hongrui, HU Minghui, LIU Yonggang, LIU Changzhao, LIU Xinhua, HAN Kun, WANG Shengcheng

33: CN 31: 202210221113.9 32: 2022-03-09

54: SELF-ADAPTIVE HEAVY-DUTY GEAR TRANSMISSION WALKING DEVICE

00: -
The present invention discloses a self-adaptive heavy-duty gear transmission walking device, which is related to the technical field of heavy-duty walking devices. The device includes a guide track. A carrying seat is slidably installed on the guide track. A loading platform is arranged on the carrying seat, and matching frames are arranged at the bottom of the carrying seat and positioned opposite from each other. A first driving mechanism, a walking mechanism, a first support bracket, a stop mechanism, and a second support bracket are arranged on the carrying seat. A vertical support mechanism and a horizontal support mechanism are arranged in the matching frame. The first driving mechanism is connected to one end of the walking mechanism, and the first driving mechanism is configured to drive the walking mechanism to move. The walking mechanism penetrates through the carrying seat and is magnetically connected to the guide track. The other end of the walking mechanism is connected to a first transmission shaft. The first transmission shaft penetrates through the first support bracket and is fixedly installed with a brake disc. The stop mechanism is configured to stop the brake disc from rotating. A second driving mechanism is arranged on a second support bracket, and the second driving mechanism is configured to drive the stop mechanism to move.



21: 2022/10511. 22: 2022/09/22. 43: 2023/01/20
 51: A01N
 71: Chinese Academy of Inspection and Quarantine, Guangzhou Customs District Technology Center
 72: CI Ying, FANG Zhiqiang, LIAO Ruyan, WANG Jing, ZHANG Xiaolong, YAN Jihuan

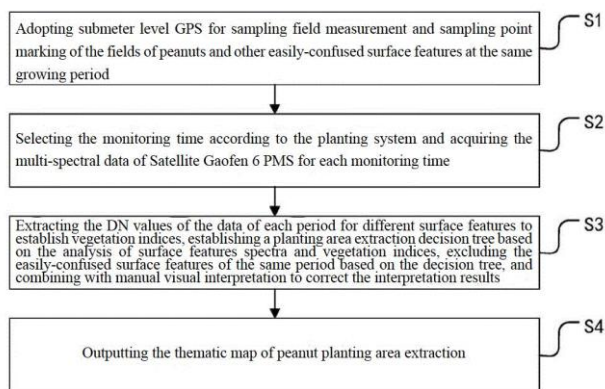
54: COMPOUND PLANT DISINFECTANT, PREPARATION METHOD AND APPLICATION

00: -
 This invention relates to a new type of compound plant disinfectant, including the following components in parts by mass: 4-6 parts of sophocarpine, 3.2-4.8 parts of chlorogenic acid, 0.8-1.2 parts of honeysuckle extract, 8-12 parts of aqueous solution containing Tween-80, and 0.6-0.9 parts of PBS (phosphate buffer salt solution) with pH 8.0 and Sophora flavescens extract dissolved, and adding PBS solution with pH 8.0 to 100 mL when the previous mass part is mg. The plant disinfectant provided by this invention takes full advantage of the complexity of the natural effective ingredients, the difficulty in making bacteria resistant, and the quick action of chemical bactericides, so it effectively enhances the antibacterial spectrum against Escherichia coli, Staphylococcus aureus and Candida albicans, and broadens its use. The plant disinfectant has good stability, and meets various requirements of antibiosis, storage and the like.

21: 2022/10512. 22: 2022/09/22. 43: 2023/01/20
 51: G01B
 71: Shandong Academy of Agricultural Sciences
 72: Xueyan Sui, Shouzhen Liang, Meng Wang, Dongrui Han, Fei Wang, Xiaodong Zhang

54: A METHOD AND SYSTEM FOR REMOTE SENSING RECOGNITION OF PEANUT PLANTING AREA

00: -
 The invention provides a method and system for remote sensing recognition of peanut planting area. The invention adopts high-resolution remote sensing data as the main data source, with the combination of the peanut planting system, and establishes the method for remote sensing extraction of peanut planting area, to solve the problems of crop interference at the same growing period and the fragmentation of peanut fields, to realize the extraction of small fields and non-scale planting features, to exclude the multiple crops interference at the same growing period; the invention establishes a method combining computer interpretation and manual interpretation for situations of different peanut cultivation methods for different peanut sowing times, respectively for the characteristics of large regional universality and small regional uniqueness of peanut planting, with high interpretation accuracy.

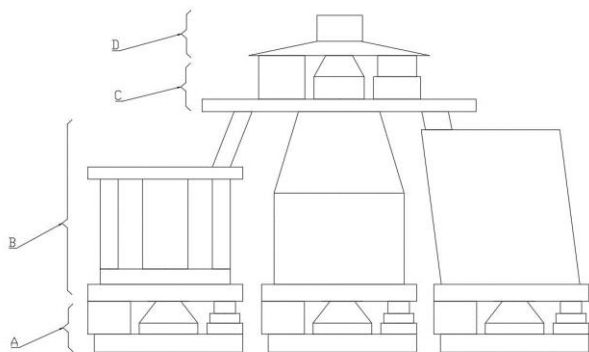


21: 2022/10513. 22: 2022/09/22. 43: 2023/01/20
 51: G02B
 71: Juye Huayou Optoelectronics Technology Co., Ltd.

72: Kaifeng Zhou, Qiting Liu
 33: CN 31: 202210968366.2 32: 2022-08-12
54: AN OPTICAL WAVEGUIDE CHIP WITH CONVERSION FROM MULTI-MODE TO SINGLE-MODE

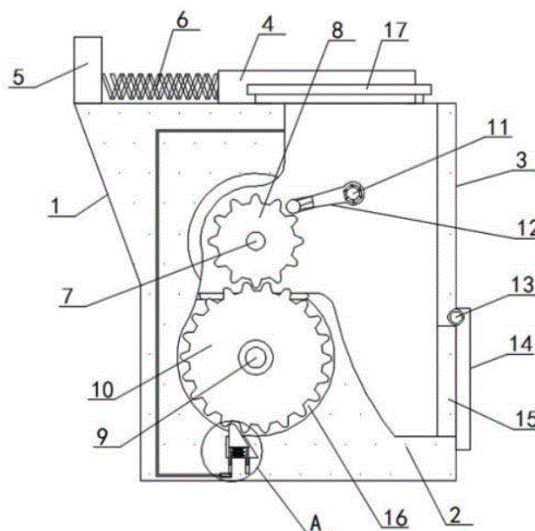
00: -
 The invention discloses an optical waveguide chip with conversion from multi-mode to single-mode, comprising a first layer waveguide structure, a

second layer waveguide structure, and a third layer waveguide structure, which are provided with a tight connection form the bottom to the top; the first layer waveguide structure comprises a first left unit, a first middle unit, and a first right unit provided at intervals from the left, middle, to the right; the first left unit, first middle unit and first right unit have the same structure; the second layer waveguide structure comprises a second left unit, a second middle unit, and a second right unit provided at intervals from the left, middle, to the right; the second left unit, second middle unit, and second right unit are provided above the first left unit, the first middle unit, and the first right unit respectively; the third layer waveguide structure is provided above the second left unit, the second middle unit, the second right unit; the three-layer waveguide structure of the invention is in tight connection as an integrated whole, and the light enters from the waveguide one in the first layer of the waveguide structure, transmits upward and finally outputs from the output end waveguide twenty-six, and the light path structure gradually shortens its transverse width from the first layer to the third layer, enabling the overall structure to form the phenomenon of convergence of the transmitted light from left and right to the middle.



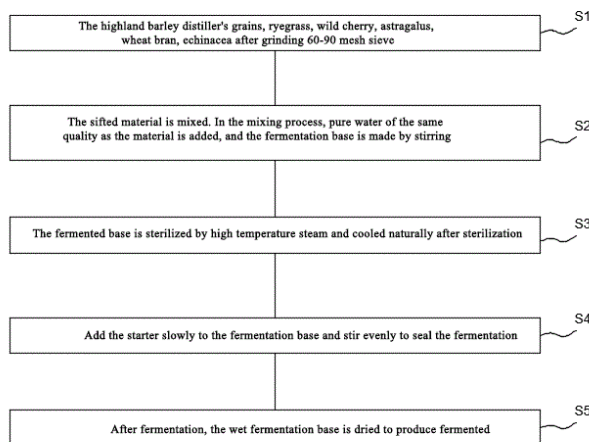
21: 2022/10518. 22: 2022/09/22. 43: 2023/01/20
 51: G01M; G01N; H04W
 71: ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY
 72: WANG, Juan, LI, Tongjie
 33: CN 31: 202111429069.2 32: 2021-11-29
54: PERIPHERAL SELF-PROTECTION IMPACT TEST APPARATUS THAT IS EASILY DISASSEMBLED AND ASSEMBLED FOR GEAR CHARACTERISTIC RESEARCH
 00: -

Disclosed is a peripheral self-protection impact test apparatus that is easily disassembled and assembled for gear characteristic research. The peripheral self-protection impact test apparatus comprises: a main frame, which is the main outer frame structure of the apparatus, the top of the main frame being provided with a fixing plate, an outer surface of one end of the main frame being provided with a positioning recess, and an outer surface of one end of the main frame also being provided with a data processor; and a connecting frame, which is located at the opposite face of the main frame, an outer surface of one end of the connecting frame being provided with a positioning block. In the peripheral self-protection impact test apparatus a plurality of threaded grooves are vertically distributed at a joint and are fixedly connected to a self-locking screw rod.



21: 2022/10519. 22: 2022/09/22. 43: 2023/02/01
 51: A61K; A61Q
 71: Anhui Science And Technology University
 72: QIAN, Jingjing, WANG, Ning
 33: CN 31: 202110842946.2 32: 2021-07-26
54: METHOD FOR CHEMICAL IN-VITRO CONSERVATION OF POMEGRANATE GERmplasm
 00: -
 Disclosed is a culture medium for chemical in-vitro conservation of pomegranate germplasm. The culture medium includes 0.5-0.7 mg·L⁻¹ of WPM+IBA, 6 g·L⁻¹ of agar, 20-30 g·L⁻¹ of sucrose and 5-9 mg·L⁻¹ of paclobutrazol. By limiting the components and the use amount of the culture

medium and adopting the culture medium for chemical in-vitro conservation of the pomegranate germplasm, the dilemma of loss of varieties or germplasm caused by natural disasters in conventional pomegranate conservation can be broken through, the study status that germplasm in-vitro conservation was zero due to problems such as browning and easy lignification of woody fruit trees is broken through, the problem of browning during in-vitro conservation is well solved, the in-vitro conservation time is significantly prolonged, and the 100% survival rate of tissue culture seedlings can still be ensured when the tissue culture seedlings are conserved for 180 days.



21: 2022/10548. 22: 2022/09/23. 43: 2023/01/20
51: A23K
71: Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry
72: Yanbin Zhu, Guangming Sun, Ci-Dan-Yang-Ji, Luo-Sang-Dun-Zhu, Xin Li, Suo-Lang-Zha-Xi, Luo-Sang-Zha-Xi, Suo-Lang, Ci-Yang, Ba-Sang-Wang-Dui

54: A FERMENTED FEED FOR PROMOTING YAK GROWTH AND ITS PREPARATION METHOD

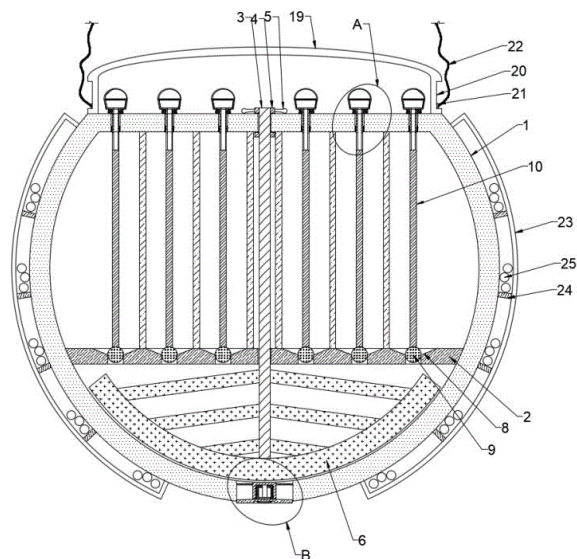
00: -
The invention relates to the technical field of feed, in particular to a fermented feed for promoting the growth of yak, including the following components: 50-60% barley distiller's grains, 20-25% ryegrass, 5-8% wild cherry, 4-8% astragalus, 2-5% wheat bran, 1-4% echinacea, and the rest as starter culture; The beneficial effects are as follows: The fermented feed and preparation method for promoting yak growth proposed in the invention produce yak feed by the biological fermentation technology of "bacteria and enzyme". By adding lactobacillus plantarum, bacillus subtilis and saccharomyces bradydii, xylanase, cellulase, amylase and pectinase, synergistic fermentation can inhibit the reproduction and growth of pathogens and pathogenic bacteria in the intestine, improve the microecological balance in the body, and improve immunity. The addition of highland barley distiller's lees solved the problem of feed shortage in yak breeding and reduced yak breeding yield. The addition of wild cherry can improve the taste of feed and help the stomach wriggle and digestion ability of yaks.

21: 2022/10549. 22: 2022/09/23. 43: 2023/01/20
51: A01K
71: Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry
72: Yanbin Zhu, Ci-Dan-Yang-Ji, Guangming Sun, Luo-Sang-Dun-Zhu, Xin Li, Suo-Lang, Luo-Sang-Zha-Xi, Suo-Lang-Zha-Xi, Ci-Yang, Ba-Sang-Wang-Dui

54: A BREEDING EQUIPMENT AND METHOD FOR IMPROVING ESTRUS PROPAGATION OF YAK

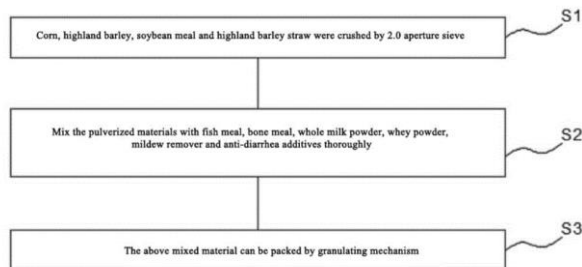
00: -
The invention relates to the technical field of animal husbandry, in particular to a breeding equipment for improving yak estrus reproduction. It includes the neck hanging material box, the neck hanging material box is provided with a layered plate, the surface of the layered plate is connected with a finite bit ring, the bottom end of the rotating handle is provided with a stirring shaft; The pulling handle is provided with two groups, the surface of the layered plate is inserted with a plug block, the top of the plug block is provided with a pulling handle, the top surface of the pulling handle is provided with a feeding groove, the side wall of the feeding groove is provided with a bulk opening; The beneficial effects are: This invention put forward the improvement of yak estrus breeding methods of farming equipment and nutrition material points exist neck hang bin internal can be separated by partition in collection storehouse, after extraction of lift handle, nutrition material, turn the turn the handle to drive the stirring shaft for a variety of nutrition materials mixing, pull down after sealing plate, mixed material falling to the ground for mother eat yak, And neck hanging

material box hanging on the neck of the female yak, convenient to accurately feed each female yak nutrition.



21: 2022/10550. 22: 2022/09/23. 43: 2023/01/20
 51: A23K
 71: Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry
 72: Yanbin Zhu, Guangming Sun, Ci-Dan-Yang-Ji, Luo-Sang-Dun-Zhu, Xin Li, Suo-Lang-Zha-Xi, Luo-Sang-Zha-Xi, Suo-Lang, Ci-Yang, Ba-Sang-Wang-Dui
54: A FEED AND ITS PREPARATION METHOD FOR PREVENTING YAK CALF DIARRHEA
 00: -
 The invention relates to the technical field of feed preparation, in particular to a feed for preventing diarrhea of yak calves. The feed includes the following components: 25-30% corn, 15-18% highland barley, 15-17% soybean meal, 8-14% highland barley straw, 5-8% fish meal, 4-7% bone meal, 2-3% whole milk powder, 1-3% whey powder, 1% anti-mold agent, and the rest are anti-diarrhea additives; The beneficial effects are as follows: the feed and preparation method for preventing diarrhea of yak calves proposed in the invention can ensure the daily energy supply of calves through the use of corn, highland barley, soybean meal and highland barley straw; The use of fish meal, bone meal, whole milk powder, whey powder and anti-mold agent can strengthen the nutrient intake of calves and comprehensively improve the immunity of weaned calves. The use of anti-diarrhea additives composed

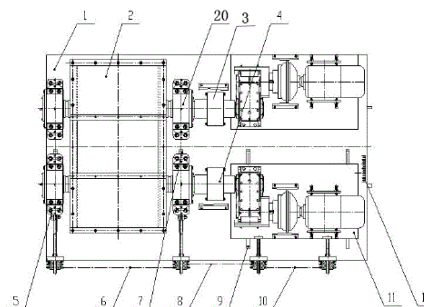
of plantain, pueraria, probiotic powder, dried ginger, Chinese yam and angelica sinensis can enhance the intestinal resistance of calves and improve the digestibility of the concentrate supplement feed of calves.



21: 2022/10552. 22: 2022/09/23. 43: 2023/01/20
 51: B02C

71: Tangshan Tianhe Environmental Protection Technology Co., Ltd.
 72: WANG, Jia, HONG, Qing, LIU, Manping, LIU, Zhicun, ZHANG, Jianwei, ZHOU, Shuai, YANG, Cuiling, ZHANG, Lixiu, WANG, Yiming, LI, Ning, WENG, Zengyan, WEI, Hongwu, LI, Rui
54: DOUBLE TOOTHED ROLLER CRUSHER CAPABLE OF RAPIDLY ADJUSTING DISTANCE BETWEEN TOOTH ROLLERS

00: -
 The present invention relates to a double toothed roller crusher capable of rapidly adjusting a distance between tooth rollers. The crusher enables a movable tooth roller device to integrally move in parallel, and connection between all parts of the movable tooth roller device do not need to be removed during movement, such that rapid adjustment is achieved, the labor intensity is reduced, and the adjusting efficiency is improved.



21: 2022/10553. 22: 2022/09/23. 43: 2023/01/20
 51: B03D

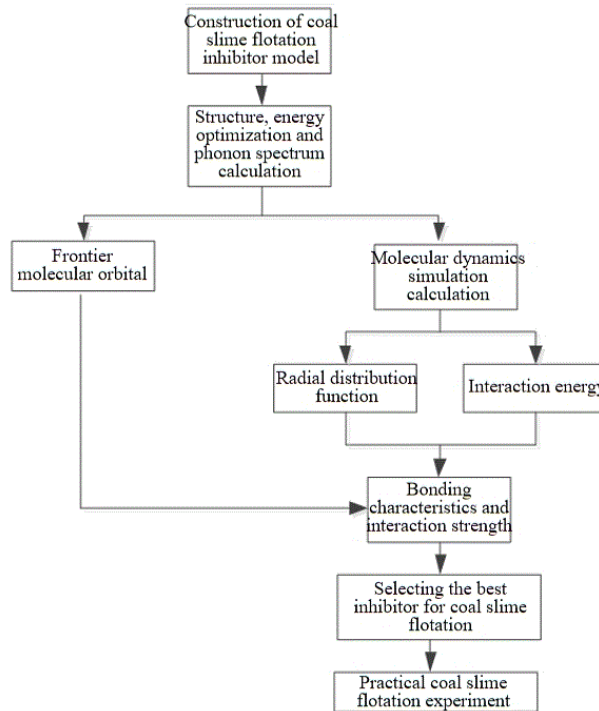
71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY, KAILUAN(GROUP)LIMITED LIABILITY CORPORATION

72: ZHANG Jinxia, NIU Fusheng, WEI Liyong, YANG Hongzhan, YANG Chao, DING Weiqing, TONG Shunzeng, TIAN Lixin, LIU Xiangdong

54: SCREENING METHOD OF FLOTATION INHIBITOR FOR FINE REFRACTORY COAL SLIME

00: -

The invention discloses a screening method of flotation inhibitors for fine refractory coal slime. The molecular models of different kinds of coal slime flotation inhibitors are built through theoretical calculation, and the molecular models are built by using quantum chemistry software. The stable molecular structure files are obtained by structure, energy optimization and phonon spectrum calculation of the molecular models. Then, the equilibrium adsorption structure is obtained by interaction prediction and molecular dynamics simulation of coal slime flotation inhibitors and main minerals in coal. The radial distribution function and interaction energy of the adsorption structure are analyzed and calculated to obtain the bonding characteristics and interaction energy of different kinds of coal slime flotation inhibitor molecular models and different minerals in coal slime. Selective inhibitors for coal slime flotation are selected, and on this basis, coal slime flotation tests are carried out, and good flotation indexes are obtained. The invention solves many shortcomings of traditional coal slime flotation methods, and provides a safe and reliable inhibitor screening method with good universality, high flotation efficiency, low cost based on molecular modeling.



21: 2022/10554. 22: 2022/09/23. 43: 2023/01/20

51: E02D; G08B; G08C

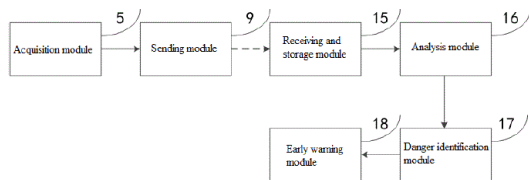
71: Xiangtan University

72: WU, Wenpeng, WANG, Dong, XU, Fu, LONG, Shiguo

54: SYSTEM FOR MONITORING SCOURING TO BRIDGE FOUNDATION

00: -

Provided is a system for monitoring scouring to a bridge foundation. The system includes an acquisition module, a sending module and an analysis module; the acquisition module is configured to transmit an ultrasonic wave to a riverbed, receive an echo ultrasonic wave reflected by the riverbed, convert the echo ultrasonic wave into a voltage signal, and transmit the voltage signal to the sending module; the sending module is configured to send the voltage signal to the analysis module; and the analysis module is configured to compute a scouring depth of the riverbed. According to the present invention, the ultrasonic wave is used to detect the scouring depth of the riverbed, and ultrasonic propagation is not affected by external factors. Compared with the existing sensor for monitoring a scouring depth, the present invention is less affected by an environment and has higher accuracy in scouring depth measurement.



21: 2022/10555. 22: 2022/09/23. 43: 2023/01/20

51: A61H

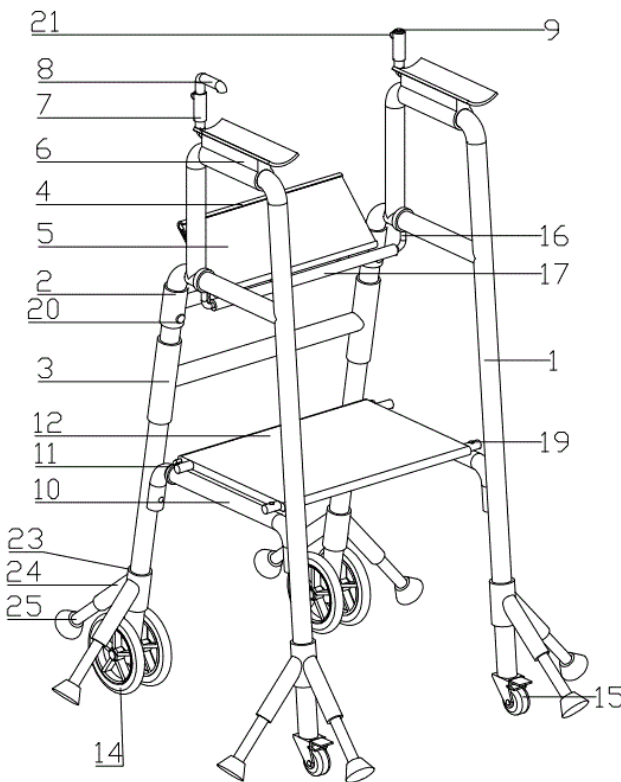
71: Xu Lianli

72: Xu Lianli

54: A KIND OF ASSISTED WALKING DEVICE FOR THE ELDERLY WITH HEALTH MONITORING FUNCTION

00: -

The invention discloses an auxiliary walking device for the elderly with a health monitoring function, which relates to the technical field of auxiliary equipment and comprises two brackets with the same structure. A sleeve is installed at the wheel and the universal wheel, a sleeve is installed on the outer wall of the sleeve, and a support column is slidably connected in the sleeve. On the bottom side, a support rod is installed on the inner bottom side of the sleeve, the support rod is sleeved in the spring, and a pressure sensor is installed at the end of the support rod. In the present invention, the body temperature is detected by the infrared temperature detection device, the heart rate is detected by the heart rate detection sensor, the main control panel receives and displays the temperature and heart rate signals, the GPS positioning chip built in the main control panel performs positioning, and the built-in WiFi transmitter chip transmits the data to the cloud. Displayed in the mobile APP, it is convenient to monitor the health of the elderly.



21: 2022/10556. 22: 2022/09/23. 43: 2023/01/20

51: A61B

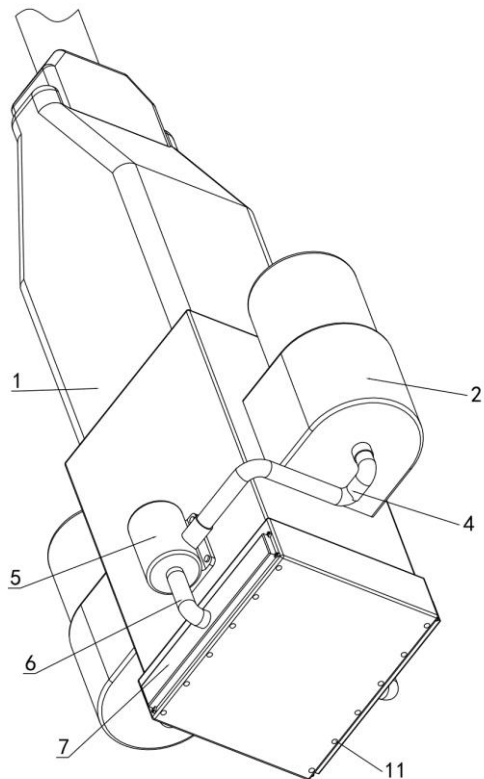
71: Xu Lianli

72: Xu Lianli

54: AN IMAGE ACQUISITION COMPONENT OF A MEDICAL IMAGING SYSTEM

00: -

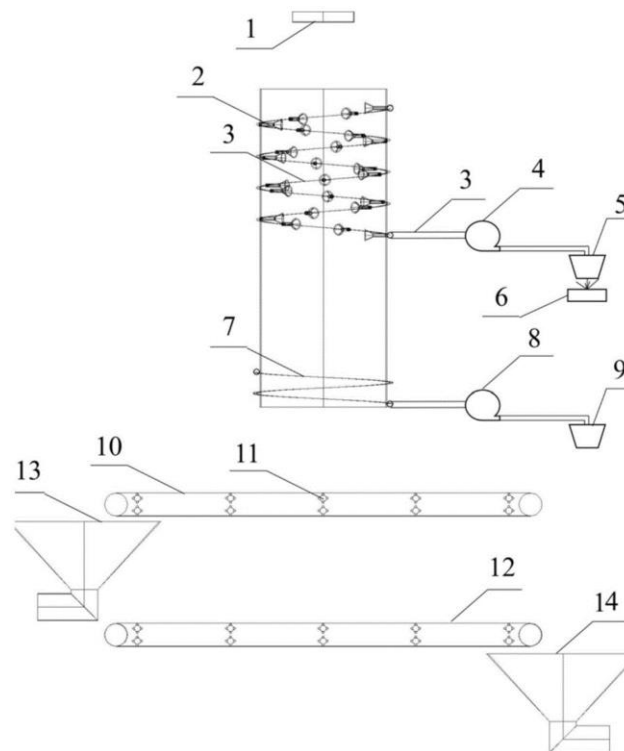
The invention discloses an image acquisition component of a medical imaging system, which relates to the technical field of medical imaging systems, including a color Doppler probe body. When the present invention is in use, a couplant coating tool is installed with the color Doppler probe, and when the couplant needs to be applied When the micro-pump is turned on, the couplant in the couplant bottle can be discharged to the skin surface of the person to be examined through the micro-pump, and the couplant is coated with the color Doppler probe and the person to be examined is inspected. When the couplant bottle is used After finishing, it can be easily replaced from the bottle holder, and the whole process greatly improves the efficiency of the user.



21: 2022/10557. 22: 2022/09/23. 43: 2023/01/20
 51: E21F
 71: Taiyuan University of Technology
 72: Cui Chuanbo, Jiao Zhipeng, Song Zhiqiang, Li Jiangjiang, Yuan Yanwei, Zhou Yuying
54: PREPARATION SYSTEM OF PHASE-CHANGE MATERIAL TEMPERATURE-CONTROL COATING RETARDER AND PREPARATION METHOD THEREOF

00: -
 The invention discloses a preparation system of phase-change material temperature-control coating retarder and a preparation method thereof. After the retarder solution passes through an ice ball preparation unit, a leakage unit, a phase-change material fusing unit, a spraying unit, a cooling unit and a screening unit in sequence, the temperature-control coating retarder coated by the phase-change material is prepared, and the adhesion effect of phase-change material when ice ball particle passes through the spraying area can be controlled, that is, the final coating thickness can be controlled. According to the invention, the phase-change material is used as the coating material, and a layer of phase-change material can be coated as the coating outside the high-water-content composite

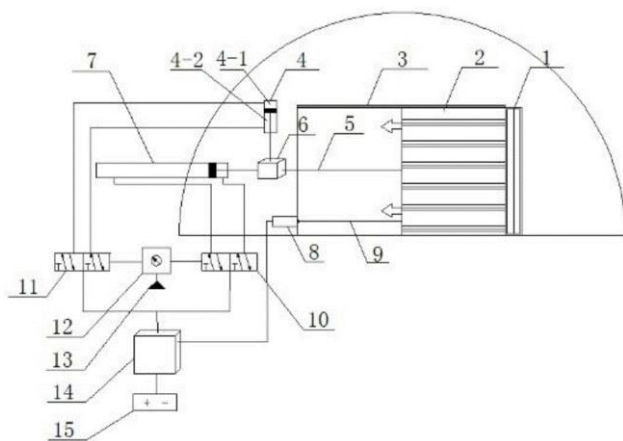
retarder, and such coating not only overcomes the defect that the traditional fire preventing and extinguishing retarder is easy to fail, but also is sensitive to the temperature rise, and can fuse before the critical temperature of coal spontaneous combustion, so that the retarder in the coating is released to retard coal spontaneous combustion; the preparation system is modular in design, is provided with simple structure for easy operation, and can efficiently produce and process coating retarder.



21: 2022/10558. 22: 2022/09/23. 43: 2023/01/20
 51: E21F
 71: Taiyuan University of Technology
 72: Cui Chuanbo, Zhou Yuying, Song Zhiqiang, Yuan Yanwei, Li Jiangjiang, Jiao Zhipeng
54: A DOUBLE-CYLINDER TYPE AUTOMATIC ADJUSTMENT AND CONTROL SYSTEM FOR UNDERGROUND AIR WINDOW OF COAL MINES AND ITS CONTROL METHOD

00: -
 The invention discloses a double-cylinder type automatic adjustment and control system for underground air window of coal mines and it comprises a signal acquisition system and a control and adjustment system, wherein the signal acquisition system comprises an air speed sensor, a pull-wire displacement sensor and a PLC controller

connected with the pull-wire displacement sensor in sequence; the control and adjustment system comprises an air window rolling shutter gate, a movable rolling shutter air window, a positioning cylinder, a clutch lock nut, a power cylinder, a first electromagnetic valve, a second electromagnetic valve, a PLC controller, an auxiliary element and an air source. According to the invention, the roadway air volume can be monitored in real time, the automatic and quantitative adjustment of the ventilation area of the air window can be realized, and the air volume difference $(Q_{min}+Q_{max})/2-Q$ is taken as the air volume adjustment value, so that the problem of increasing the air window adjustment frequency by taking $Q-Q_{min}$ or $Q_{max}-Q$ as the air volume adjustment value can be avoided, the service life and service efficiency of equipment can be improved, the cost can be reduced, the ventilation requirements of underground places with variable air volume can be met, and the distribution of underground ventilation can be effectively guaranteed.



21: 2022/10559. 22: 2022/09/23. 43: 2023/01/20
51: C07K; A61P

71: Joincare Haibin Pharmaceutical Co., Ltd
72: MAO, Xiaorong, LUO, Shiyuan, CHEN, Shikun, XIN, Hai'an, LAI, Canyue

54: STERILE PREPARATION TESTING METHOD OF CASPOFUNGIN ACETATE FOR INJECTION

00: -
The present disclosure provides a sterile preparation testing method of caspofungin acetate for injection, comprising the following steps: (1) preparing a test solution: dissolving caspofungin acetate for injection with a sulfobutyl-β-cyclodextrin sodium aqueous solution; (2) performing membrane filtration and

flushing: performing membrane filtration on the test solution obtained in the step (1), and flushing the test solution with the sulfobutyl-β-cyclodextrin sodium aqueous solution for several times; (3) testing: performing testing according to a sterility test method of General Rule 1101, Volume IV, Chinese Pharmacopoeia 2020, candida albicans is used as positive control bacteria, and a Trypticase Soy Broth Medium containing sulfobutyl-β-cyclodextrin sodium is used as a fungus culture medium. The method provided by the present disclosure can obtain the sterility test results of the caspofungin acetate for injection more conveniently and accurately.

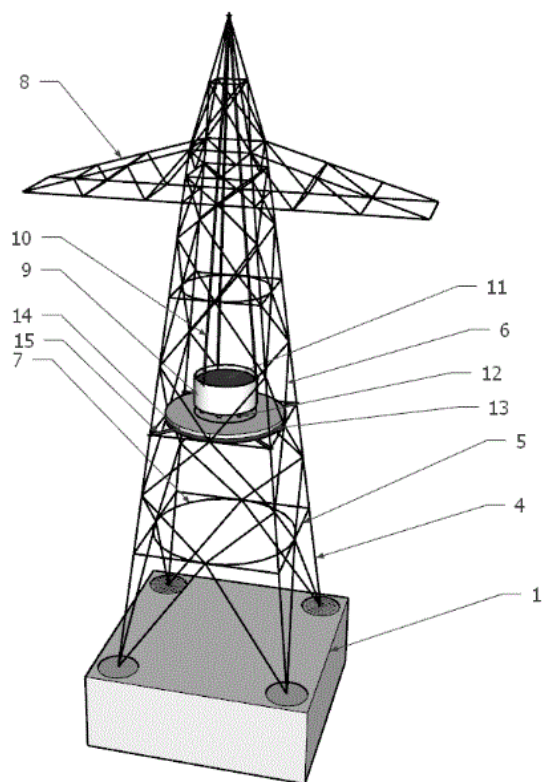
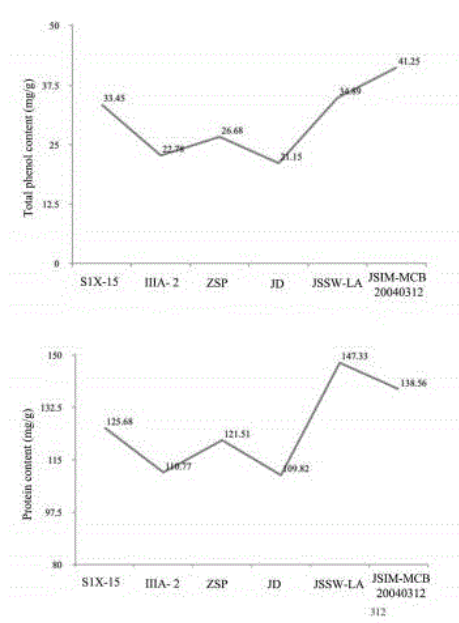
21: 2022/10561. 22: 2022/09/23. 43: 2023/01/20
51: A23K; C12P; C12R

71: Freshwater Fisheries Research Center, CAFS
72: LIU, Bo, LUO, Weizhu, ZHOU, Qunlan, SUN, Cunxin, GE, Xianping

33: CN 31: 202111133292.2 32: 2021-09-26

54: PREPARATION METHOD FOR FERMENTED MORINGA OLEIFERA LEAVES AND AN APPLICATION THEREOF IN AQUACULTURE

00: -
The present invention discloses a preparation method for fermented moringa oleifera leaves and an application thereof in aquaculture. The preparation method includes: culturing *Bacillus amyloliquefaciens* and *Clostridium butyricum* in an Luria-Bertani (LB) medium at 35 degree Celsius for 18~0 h, adjusting the concentration of bacterial solution to 107 cfu/mL~108 cfu/mL, and after pulverizing moringa oleifera leaves, sieving with an 80~100-mesh sieve, and adding distilled water into pulverized moringa oleifera leaves at a material-to-water ratio of 5 percent ~10 percent, mixing, sterilizing, and simultaneously inoculating the bacterial solution of the *Bacillus amyloliquefaciens* and *Clostridium butyricum* into sterilized moringa oleifera leaf mixed solution according to the bacterial solution inoculation amount of 2 percent~5 percent, fermenting at 30 degree Celsius for 48~72 h, and then freeze-drying a fermented sample, to obtain a fermented moringa oleifera leaf finished product.



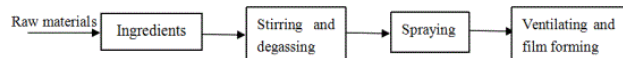
21: 2022/10562. 22: 2022/09/23. 43: 2023/01/20
 51: E04H
 71: JIANGSU OPEN UNIVERSITY
 72: YANG, Bin
54: POWER TRANSMISSION TOWER WITH ANTI-WIND AND ANTI-SEISMIC FUNCTIONS

00: -
 The present disclosure provides a transmission tower with anti-wind and anti-seismic functions, including a base, a shock absorber, a tower body and an electromagnetic damper. The tower body of the transmission tower is supported by the base, and the shock absorber is set between the base of the transmission tower and the base to reduce the impact of seismic waves on an upper of the transmission tower. The rods of the tower body are all steel pipes, and the steel fiber concrete is filled inside the steel pipes, which can improve the horizontal bearing capacity and ductility of the transmission tower under the action of horizontal low-cycle repeated loads. The electromagnetic damper is arranged at a reasonable position on the tower body of the transmission tower.

21: 2022/10563. 22: 2022/09/23. 43: 2023/01/20
 51: A23B
 71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY
 72: ZHANG Xiaohong
54: METHOD FOR PRESERVING STRAWBERRIES

00: -
 The application provides a method for preserving strawberries, and relates to the field of food preservation. The chitosan-proanthocyanidin composite solution is prepared by taking citric acid solution as a basic solution and adding chitosan, grape seed extract, plasticizer and surfactant; the grape seed extract is proanthocyanidins; the plasticizer is glycerol; the surfactant is Tween 20. By spraying the compound solution directly to strawberry seedlings, ventilating and drying to form a film, the fresh-keeping and antibacterial effects are achieved. The method effectively prolongs the storage period of the strawberries picked in the same period, and simultaneously, due to the antibacterial property of the compound solution, the compound solution also has the effects of preventing insects and damages to seedlings, and can

effectively protect the strawberries which are not picked.



21: 2022/10564. 22: 2022/09/23. 43: 2023/01/20
51: B65D

71: Dalian Minzu University, Shenyang Customs Technology Center

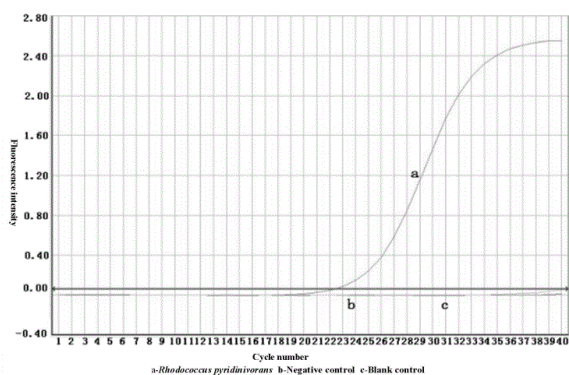
72: Qiuyue ZHENG, Jinling WANG, Jijuan CAO, Ying ZHANG, Qin WANG, Yi DING

33: CN 31: 202210999643.6 32: 2022-08-19

54: PRIMER, PROBE, KIT FOR DETECTING RHODOCOCCUS PYRIDINOVORANS AND DETECTION METHOD THEREOF (REAL-TIME PCR)

00: -

The present invention discloses primers, a probe, a reagent, a kit for detecting Rhodococcus pyridinivorans, and a detection method thereof by quantitative real-time PCR. Specially, the primers and the probe provided have good sensitivity and specificity. The method of qPCR can qualitatively analyze whether there is Rhodococcus pyridinivorans in an environmental pollution degradation microbial agent, which has advantages such as high-reliability results, good sensitivity, strong specificity, simple and rapid operation, and the like, and further improves the detection system of the environmental pollution degradation microbial agents.



21: 2022/10565. 22: 2022/09/23. 43: 2023/01/20
51: C22C

71: Jilin Jianzhu University

72: Shuai Zhang, Yabing Liu

54: A WEAR-RESISTANT NANOCARBON COMPOSITE MATERIAL

00: -

The invention belongs to the technical field of nanometer carbon composite material, in particular to a wear-resistant nanometer carbon composite material. The nano-carbon composite material is made by impregnating wear-resistant nano-UV glue with carbon nanofibers and then curing; The wear-resisting nano-UV glue is composed of raw materials in the following weight parts: 20-30 portions of polyurethane acrylate resin, 20-30 portions of epoxy acrylate resin, 20-30 portions of UV monomer, 12-16 portions of modified nanometer aluminum oxide filler, 5-10 portions of photoinitiator, 1-3 portions of anionic surfactant, 1-3 portions of cationic dispersant, 0.5-2 portions of additives. The composition and preparation method of the nanometer carbon composite material provided by the invention are reasonable in design, and the prepared nanometer carbon fiber molding body has rough surface and good wear resistance, which can be used as a catalytic carrier to meet the needs of industrial catalytic reaction.

21: 2022/10566. 22: 2022/09/23. 43: 2023/01/20
51: B60L

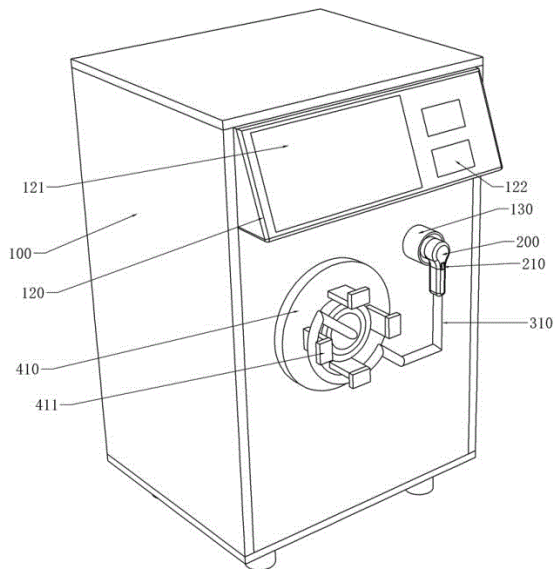
71: Chongqing Cheyouzhuang Technology Co., Ltd.
72: Jiguang Chen, Yingxue Pan, Peng Liu

54: A REELED TYPE CAR CHARGER

00: -

The invention discloses a reeled type car charger, which comprises a charging box, a charging gun and a charging cable. One end of the charging cable is electrically connected with the power supply in the charging box and the other end is electrically connected with the charging gun. The charging box is provided with a box plate, and the box plate is provided with a rewinding frame, and the rewinding frame is respectively provided with a first plate and a second plate. The first plate and flange assembly is fixed, the flange is installed on one end of the sleeve, the other end of the sleeve through the box plate. The inside of the sleeve is hollow, and the charging cable passes through the inside of the sleeve to the outside of the box plate; One end of the sleeve through the box plate is assembled with the coil, the coil is fixed with the coil buckle and the coil cylinder, and the coil cylinder is set on the sleeve and respectively with the box plate and the second plate can be circumferential rotation and not axial movement assembly; The charging cable is

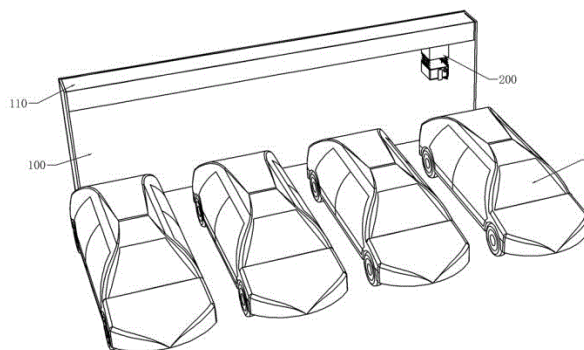
assembled with the charging gun after it goes out of the coil, and the part between the end of the charging cable going out of the coil and the end connected with the charging gun is wound on the coil buckle; Rewind or release the charging cable by turning or reversing the coil.



21: 2022/10567. 22: 2022/09/23. 43: 2023/01/20
 51: B60L
 71: Chongqing Cheyouzhuang Technology Co., Ltd.
 72: Jiguang Chen, Yingxue Pan, Peng Liu
54: A SKY RAIL SLIDING TYPE CAR CHARGER
 00: -

The invention discloses a sky rail sliding type automobile charger, which comprises a bracket and a charger module. The bracket is equipped with an insulation board and a sky rail, and the insulation board is equipped with two conductive strips, which are respectively connected to the neutral line and the live line of the mains; Two conductive strips respectively supply power to the charger module; The charger module is installed on the sky rail and can slide along the sky rail; The charger module includes a slip frame and an electrical box. The two ends of the electrical box are respectively assembled with the slip frame and one end of the two cutting fork lifting mechanism, and the other end of the two cutting fork lifting mechanism is assembled with the charging box. And the two scissor lifting mechanisms are connected by the lifting shaft, which passes through the shaft sleeve and can be assembled with circular rotation. The

shaft sleeve is installed on the lifting cylinder shaft, the lifting cylinder shaft is loaded into the lifting cylinder, the enclosure of the lifting cylinder is hinged and assembled with the electrical box; A charging cable is installed on the charging box, and a charging gun is installed on one end of the charging cable. The direct current used for charging is drawn from the charging box to the charging gun.



21: 2022/10594. 22: 2022/09/26. 43: 2023/01/20
 51: A01N
 71: Weifang University of Science And Technology, Shandong Shouguang Vegetable Industry Group Co.,Ltd.
 72: DAI, Huijie, LIU, Yongguang, CHI, Wenjuan, LIN, Guiyu, TIAN, Subo, ZHANG, Dezhen, GUO, Jiajin, XU, Youxin

54: PESTICIDE FOR VEGETABLE PESTS AND APPLICATION THEREOF

00: -
 The present invention provides a pesticide for vegetable pests, belongs to the technical field of pesticide preparations, and particularly relates to a pesticide for vegetable pests and an application thereof. Effective components in the pesticide include a *Sapindus saponaria* extract, a *Nerium oleander* extract and a *Derris trifoliata* extract. The pesticide for vegetable pests, taking natural plant extracts as effective components, can be effectively kill vegetable pests, and reduce the harm of pests to vegetable growth. The pesticide for vegetable pests provided by the present invention is green and environmentally friendly, low-cost, and suitable for controlling pests in the vegetable growth process.

21: 2022/10595. 22: 2022/09/26. 43: 2023/01/20
 51: A01N; A01P
 71: ANHUI AIGE DE BIOTECHNOLOGY CO., LTD.
 72: SONG, Deming, CHENG, Xianchen, SONG, Ge

54: BIRD REPELLENT COMPOSITION, LIQUID PREPARATIONS AND PREPARATION METHOD THEREOF

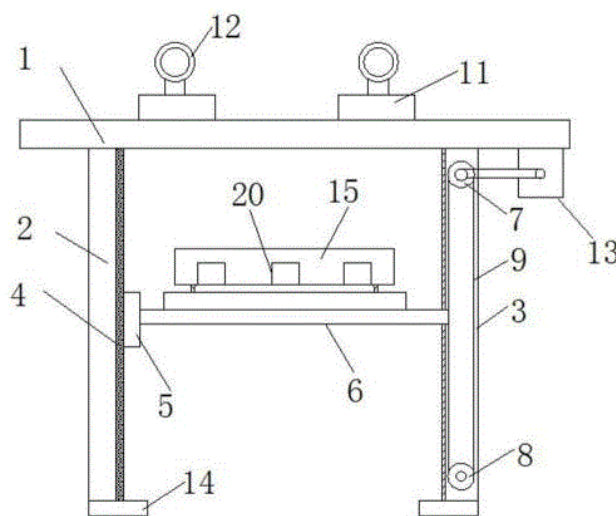
00: -
 The present disclosure relates to a bird repellent, specifically relates to a bird repellent composition, a microemulsion, a microcapsule suspension emulsion, and a preparation method thereof. The spice rich in biological factors comprises three or four components selected from 10-60% of a methyl anthranilate, 5-6% of a nerol, 0.5-1.5% of an ethyl cinnamate, 0.1-0.2% of a cinnamic aldehyde, and 22-28% of a cinnamamide. Water is used as a dispersing phase, gelatin and arabic resin adhesive are used as a sustained release carrier capsule. Under the action of several auxiliaries, a bird repellent microemulsion and a bird repellent microcapsule suspension emulsion can be prepared. The liquid preparation product prepared by the invention can effectively repel birds on the premise of not harming birds, and is not only environmentally friendly during use, but also environmentally friendly in production process, and belongs to a true biological preparation harmless bird repellent product.

21: 2022/10596. 22: 2022/09/26. 43: 2023/01/20
 51: A01K
 71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, ANCHEE(SHANDONG) ACADEMY OF ANIMAL NUTRITION Co.LTD
 72: GUO Jianfeng, DU Yushi, XIE Qingzhu, WANG Huaizhong

54: FEEDING EQUIPMENT FOR PIG BREEDING

00: -
 The invention discloses feeding equipment for pig breeding, which comprises a beam frame plate, wherein the left lower side of the top bottom of the beam frame plate is provided with an auxiliary frame support rod, which is fixedly connected with the beam frame plate, and the right lower side of the beam frame plate is fixedly connected with a main frame support rod, and the inner side of the auxiliary frame support rod is provided with a fixed slide rail; the inner side of the fixed slide rail is embedded into the sliding seat block, and the inner side of the sliding seat block is provided with a supporting frame plate, which is fixedly connected with the sliding seat block; the inner side of the main frame support rod is

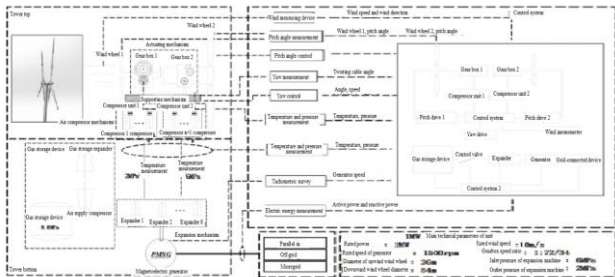
provided with a driving wheel and an auxiliary wheel; the outer sides of the driving wheel and the auxiliary wheel are wrapped with a driving chain belt; and the left side of the driving chain belt is fixedly connected with the supporting frame plate. The equipment can be operated and fed in an electric way, which greatly improves the feeding efficiency and has strong practicability.



21: 2022/10597. 22: 2022/09/26. 43: 2023/01/20
 51: F03D
 71: SHENYANG UNIVERSITY OF TECHNOLOGY, Aalborg University
 72: XING Zuoxia, CHEN Lei, LIU Yang, XU Zengjin, CHEN Zhe, LIU Jinglu

54: DOUBLE-WIND-WHEEL WIND TURBINE BASED ON COMPRESSED GAS TRANSMISSION

00: -
 The invention relates to the technical field of wind power generation, in particular to a double-wind-wheel wind generating set based on compressed gas transmission. Comprises a double wind wheel drive mechanism, a gas compression transmission and expansion work system, and a wind turbine operation and grid-connected control system. The invention provides a wind turbine with double wind wheels compressed gas transmission, which can effectively improve the efficiency of wind energy conversion into electric energy, thereby effectively inhibiting the fluctuation caused by wind power. It has innovative inventions in wind wheel pneumatic synergy and pneumatic drive transmission links, and has a wide range of application scenarios in the future, especially in the future offshore floating wind turbine.



21: 2022/10598. 22: 2022/09/26. 43: 2023/01/20
 51: A61K
 71: Gengsheng Qiu
 72: Gengsheng Qiu
54: A MEDICINE FOR TREATING SYMPTOMS OF SKIN PAIN AND ITCHING AND A PREPARATION METHOD THEREOF

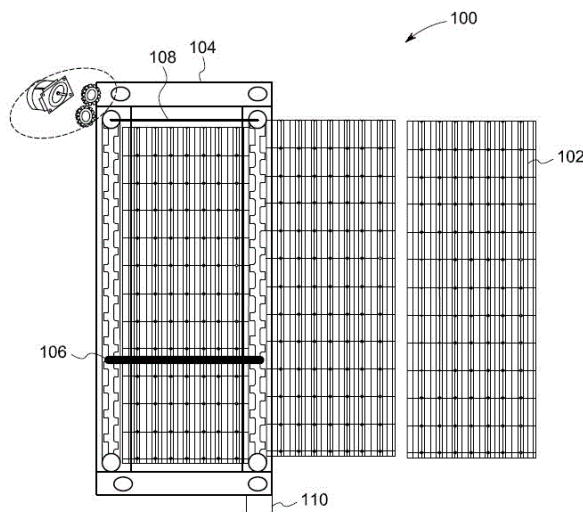
00: -
 The invention discloses a medicine for treating the symptoms of skin pain and itching, comprising the following components in parts by weight: 1-10 parts of Baijiu, 2-3 parts of vinegar, 1-2 parts of pepper and 1-3 parts of loess. The invention also provides a method for preparing the above medicine. By adopting the technical scheme proposed by the invention, not only the function of treating the symptoms of skin pain and itching is realized, but also the effect of treating other diseases synergistically to a certain extent is achieved, specifically, anti-inflammatory, bactericidal, virucidal, detoxifying and dredging blood vessels to relieve itching and pain and recover trauma.

21: 2022/10599. 22: 2022/09/26. 43: 2023/01/20
 51: B08B
 71: Dr. Aashish Kumar Bohre, Dr. Biman Kumar Saha Roy, Dr. Aniruddha Bhattacharyya, Dr. Partha Sarathee Bhowmik
 72: Dr. Aashish Kumar Bohre, Dr. Biman Kumar Saha Roy, Dr. Aniruddha Bhattacharyya, Dr. Partha Sarathee Bhowmik

54: AUTOMATED SOLAR PANEL CLEANING SYSTEM WITH IOT FOR SMALL SCALE AND LARGE SCALE SOLAR POWER PLANT

00: -
 The present disclosure proposes a system for cleaning solar panels automatically using internet of things (IoT). The accumulation of dust, dirt, small obstacles and bird drops on the solar panels decreases the efficiency of the solar panels. It is also found that the power loss of the solar panels due to

dirt, dust and other obstacles is approximately 25% of the rate, so it is necessary to clean the solar panels regularly. The IoT based automatic cleaning system increases the efficiency of the whole system up to 20%. The automatic cleaning system is cost-effective and can be operated remotely. The cleaning system detects dust and other obstacles on the solar panels that reduce the solar panel efficiency. In addition, the system cleans all types of solar panel applications efficiently.

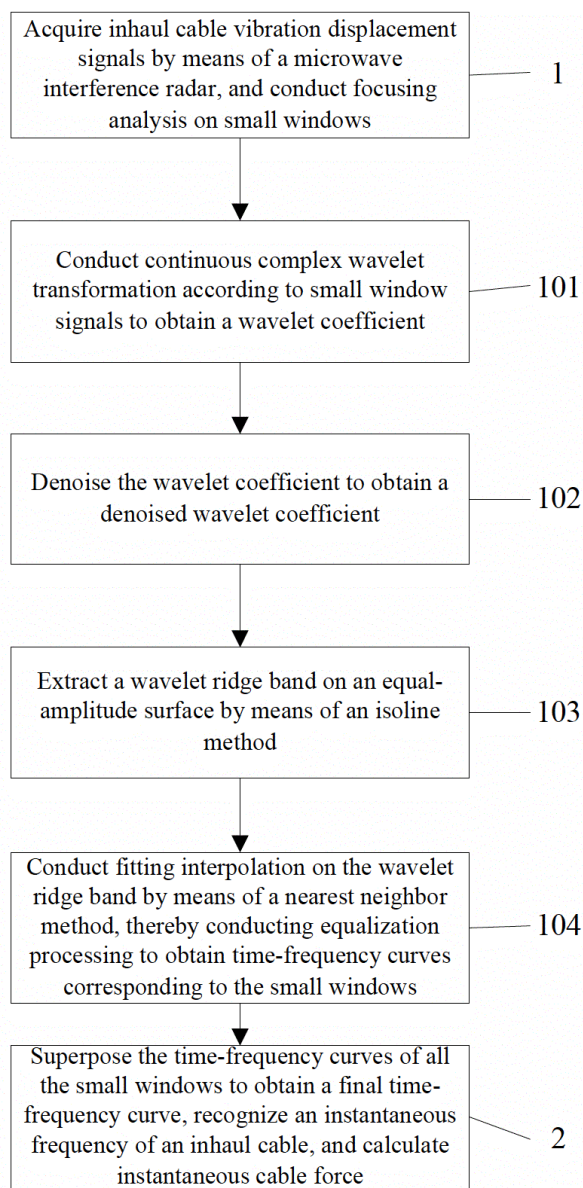


21: 2022/10600. 22: 2022/09/26. 43: 2023/01/20
 51: G01L; G06K
 71: Central South University of Forestry and Technology
 72: JIANG, Shuxia, LIU, Wen, WANG, Tianpeng, LIU, Xia, HE, Zejiang, ZHANG, Changwei, CHEN, Yiguang
 33: CN 31: 202111575552.1 32: 2021-12-21

54: INSTANTANEOUS CABLE FORCE RECOGNITION METHOD BASED ON WAVELETS AND ISOLINES, ELECTRONIC DEVICE AND MEDIUM

00: -
 Disclosed are an instantaneous cable force recognition method based on wavelets and isolines, an electronic device and a medium. The method includes: step 1: acquiring inhaul cable vibration displacement signals by means of a microwave interference radar, and conducting small-window focusing analysis; denoising the wavelet coefficient to obtain a denoised wavelet coefficient; extracting a wavelet ridge band on an equal-amplitude surface; and conducting fitting interpolation on the wavelet ridge band by means of a nearest neighbor method,

and further conducting equalization processing to obtain small window time-frequency curves; and step 2, superposing the time-frequency curves of all the small windows to obtain a final time-frequency curve, recognizing an instantaneous frequency of an inhaul cable, and calculating instantaneous cable force. According to the present invention, response data are acquired, long-time analysis is achieved, and the wavelet ridge band is extracted, such that the cable force recognition precision is improved.



21: 2022/10601. 22: 2022/09/26. 43: 2023/01/20
51: G01K

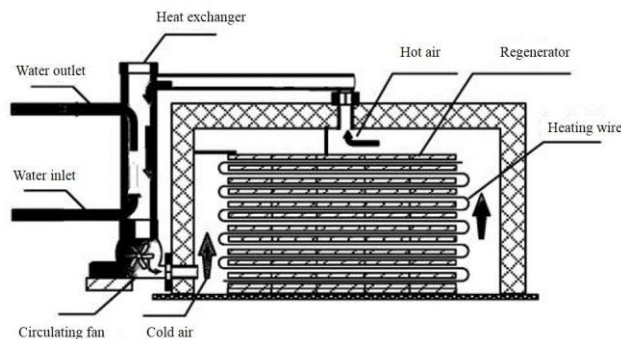
71: SHENYANG UNIVERSITY OF TECHNOLOGY, Shenyang LANHO New Energy Technology Co., LTD

72: XING Zuoxia, JIANG Libing, LIU Yang, XU Zengjin, WANG Gang, LIU Jinglu

54: ONLINE TEMPERATURE SOFT MEASUREMENT METHOD AND SYSTEM OF HIGH-TEMPERATURE HEATING ELEMENT IN SOLID HEAT STORAGE FURNACES

00: -

An online temperature soft measurement method and system of high-temperature heating elements in solid heat storage furnaces, wherein the method includes: step 1: measuring the temperature of a regenerator in a high-temperature heat storage furnace by using a temperature measuring element to obtain the temperature of the regenerator ; step 2: the first operation: using the temperature of the regenerator in step 1 to perform the fluid-solid coupling heat transfer process of the solid regenerator to calculate the calculated temperature of the heating element; the second operation: inputting the temperature of the regenerator in step 1 into the temperature calculation error compensation model of the fluid-solid coupling heat transfer heating element to obtain the error compensation value of the heating element; step 3: summing the calculated temperature of the heating element obtained in the first operation in step 2 and the error compensation value of the heating element obtained in the second operation in step 2 to complete the online temperature soft measurement. This invention further improves the prediction accuracy of the soft measurement model, quickly and accurately completes model training, effectively reduces the hardware cost of the temperature measuring system of the heat storage furnace and prolongs the service life of the heating element.



21: 2022/10602. 22: 2022/09/26. 43: 2023/01/20

51: C12Q

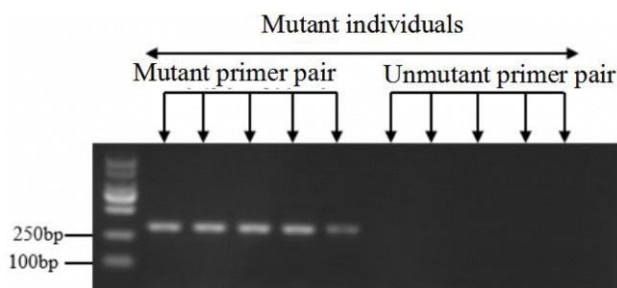
71: Hainan University, Sanya Nanfan Research Institute of Hainan University

72: WU Shaoying, LI Fen, YUAN Linlin, JIN Haifeng, GAO RuiBo, LIU Kaiyang, WANG Likui, LU Rongcai, GONG Xueyan, CHEN Longwei

54: RAPID DETECTION METHOD AND SPECIAL PRIMERS FOR THE GENE MUTATION POINT OF SODIUM CHANNEL I904S OF MEGALUROTHRIPS USITATUS

00: -

The invention discloses a rapid detection method of sodium channel I904S mutation of Megalurothrips usitatus and special primers. The special primers used for quickly identifying the mutation site I904S of sodium channel gene of Megalurothrips usitatus, including the primer 1 which nucleotide sequence is shown in SEQ ID NO.2 and the primer 2 which nucleotide sequence is shown in SEQ ID No.3. Compared with sequencing, PCR detection is helpful to quickly and effectively detect the sodium channel mutation site of the field Megalurothrips usitatus, and can also quickly and effectively detect the real-time resistance of the field Megalurothrips usitatus to pyrethroids, providing technical support for the treatment of drug resistance, and facilitating timely adjustment of the control strategy of Megalurothrips usitatus, so as to achieve the purpose of delaying the development of drug resistance.



21: 2022/10606. 22: 2022/09/26. 43: 2023/01/20

51: G01M

71: Zhiqiang Chen

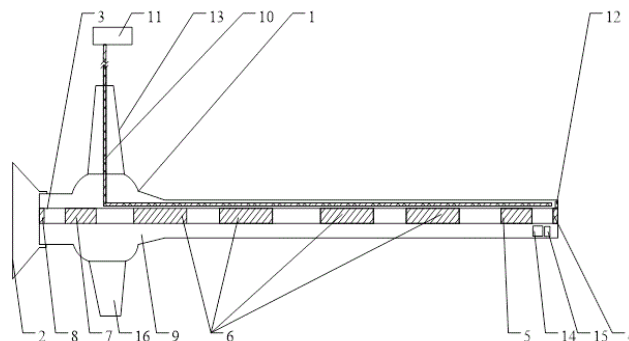
72: Zhiqiang Chen, Xingdong Ma, Bolin Qi, Li Zhang, Jing Li, Haifeng Li, Wenjing Yang, Jingru Hou

54: ANTI-FOG MEDICAL OPTICAL RIGID ENDOSCOPE LENS

00: -

The present disclosure discloses an anti-fog medical optical rigid endoscope lens, including a shell with a closed structure. One end of the shell is provided with an end face of an objective lens, and the other

end of the shell is provided with an end face of an ocular; the end, provided with the end face of the ocular, of the shell is connected with an eye mask, and an inner tube is arranged in the shell; a clearance is formed between the inner tube and the shell, and a heating system and at least one light guide bundle are arranged in the clearance; one end of the light guide bundle extends to the end face of the objective lens, and corresponds to a light-transmitting plate on the end face of the objective lens; the other end of the light guide bundle penetrates through the shell, and is connected with a cold light source, and the heating system includes a heating element and a temperature-sensing element; and both the heating element and the temperature-sensing element are arranged closely to the end face of the objective lens, and connected with a heating joint after being connected in series, and the heating joint is connected with a power source, a switch and a prompt element by wires. The present disclosure adopts the anti-fog medical optical rigid endoscope lens with the above structure, and effectively prevents the lens from fogging to reduce the wiping frequency of the end face of the objective lens, which is conducive to ensuring surgical procedures and patient safety and prolonging the service life of the lens.



21: 2022/10623. 22: 2022/09/26. 43: 2023/01/20

51: A61K; A61P

71: Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences

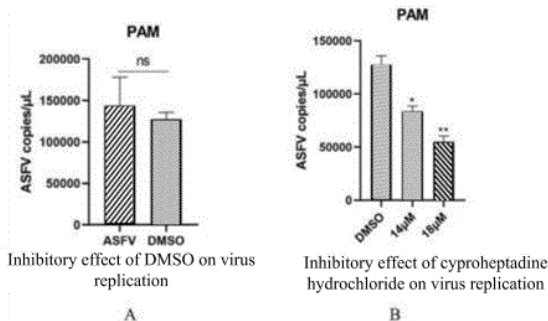
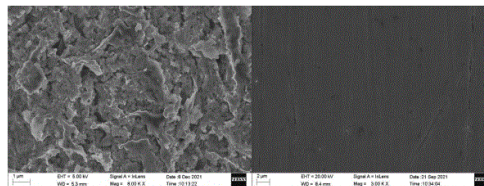
72: ZHANG, Keshan, ZHENG, Haixue, CUI, Huimei, TIAN, Hong, ZHU, Zixiang, FENG, Tao, YANG, Fan, CAO, Weijun, MA, Xusheng, RU, Yi, GUO, Jianhong, LIU, Xiangtao

33: CN 31: 202111471299.5 32: 2021-12-04

54: USE OF COMPOUND CYPROHEPTADINE HYDROCHLORIDE IN PREPARATION OF

MEDICAMENT FOR PREVENTING OR TREATING AFRICAN SWINE FEVER

00: -
 The present disclosure belongs to the technical field of the treatment of African swine fever (ASF), and particularly relates to use of a compound cyproheptadine hydrochloride in preparation of a medicament for preventing or treating ASF. The present disclosure finds that the compound cyproheptadine hydrochloride can significantly inhibit the replication of African swine fever virus (ASFV). Moreover, it is found that the cyproheptadine hydrochloride inhibits the transcription and protein expression of target gene D1133L, downregulates transcriptional and protein expression levels of p30 and p72, prevents the virus from invading host cells, and serves as an inhibitor for early and late ASFV infection. Therefore, the compound cyproheptadine hydrochloride can be used for preventing or treating ASF.



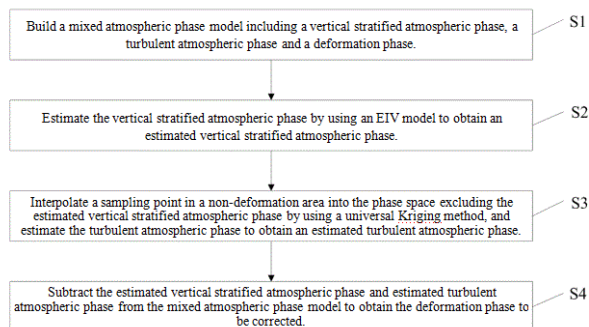
21: 2022/10656. 22: 2022/09/27. 43: 2023/01/20
 51: A01P
 71: YANGTZE UNIVERSITY
 72: SHE, Yuehui, HU, Yujie, ZHANG, Fan, SI, Yinfang, HUANG, Peixiu, SUN, Shanshan, DONG, Hao

54: PLANT-BASED NANO-BACTERIOSTATIC AGENT FOR OIL FIELD AND PREPARATION METHOD THEREOF

00: -
 The present invention discloses a preparation method for a nano-bacteriostatic agent for inhibiting growth of sulfate reducing bacteria in oil field produced water, which is a composite emulsion system composed of a plant extract and a nano-material.

21: 2022/10657. 22: 2022/09/27. 43: 2023/01/23
 51: B32B; H01M
 71: China University of Geosciences (Beijing), China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China Electric Power Research Institute, Guizhou Provincial First Institute of Surveying and Mapping
 72: SHI, Mengyao, PENG, Junhuan, GE, Daqing, LIU, Bin, WU, Qiong, CHEN, Xue, YANG, Honglei, ZHAO, Binbin, LIU, Donglie, GUO, Jincheng
54: ATMOSPHERIC PHASE CORRECTION METHOD AND SYSTEM

00: -
 The present disclosure relates to an atmospheric phase correction method and system. The method includes the steps: establishing a mixed atmospheric phase model including a vertical stratified atmospheric phase, a turbulent atmospheric phase and a deformation phase; estimating the vertical stratified atmospheric phase by an EIV model to obtain an estimated vertical stratified atmospheric phase; interpolating a sampling point in a non-deformation area into a phase space excluding the estimated vertical stratified atmospheric phase by a universal Kriging method, and estimating the turbulent atmospheric phase to obtain an estimated turbulent atmospheric phase; and subtracting the estimated vertical stratified atmospheric phase and the estimated turbulent atmospheric phase from the mixed atmospheric phase model to obtain the deformation phase to be corrected. The atmospheric phase of the time series InSAR can be accurately calculated so as to improve the precision of deformation monitoring results.



21: 2022/10658. 22: 2022/09/27. 43: 2023/01/20
51: C09K

71: Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, Qingdao Ruihong Ecological Engineering Co., Ltd., Zhongke Marine Microorganism Industry Technology Research Institute (Shandong) Co., Ltd.

72: PENG, Jian, XU, Guangwei, ZHU, Xiaoshan, HAN, Pengtang, REN, Pengfei, FANG, Suyun, MIN, Jun, HU, Xiaoke, ZHANG, Haikun, LIU, Wei

54: SOIL STABILIZER FOR SALINE-ALKALI LAND AND PREPARATION METHOD THEREOF
00: -

The present disclosure discloses a soil stabilizer for saline-alkali land a preparation method thereof. The soil stabilizer comprises the following raw materials: sodium lignosulfonate, disodium

methylenebisnaphthalenesulphonate, paraffin oil, Enteromorpha prolifera extract, methylformamide, ethylene glycol, hydroxypropyl starch, sodium alginate, ferric chloride, potassium persulfate, n-butanol, calcium silicate and shellfish biomass ultrafine powder. The present disclosure uses a novel type of admixture for the first time- Enteromorpha prolifera and shellfish biomass, which are abundant indigenous resources in coastal areas. The two types of novel admixtures can effectively promote chemical reactions such as ion exchange between the soil stabilizer for saline-alkali land and the soil, improve the soil expansion effect, reduce the internal air voids of stabilized soil, compensate for soil shrinkage, inhibit cracking and improve the overall stability and compactness of the stabilized soil.

21: 2022/10659. 22: 2022/09/27. 43: 2023/01/20
51: C02F; C12N; C12R

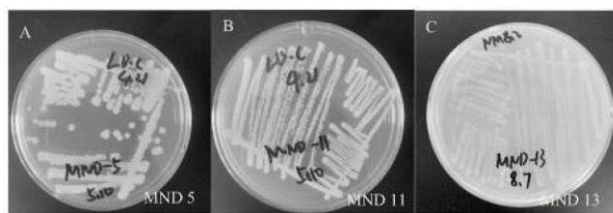
71: Dalian Ocean University

72: HAN, Rui, LIU, Ying, WU, Yinghai, MU, Xinting, MA, Hongjing, SU, Xin

54: SALT-TOLERANT NITRIFICATION COMPLEX MICROBIAL INOCULANT AND USE THEREOF

00: -

The present disclosure provides a salt-tolerant nitrification complex microbial inoculant and use thereof, belonging to the fields of microbial preparations and wastewater treatment. The nitrification complex microbial inoculant includes Halomonas alkaliphila MND-5, Acinetobacter sp. MND-11, and Acinetobacter venetianus MND-13. The nitrification complex microbial inoculant has a removal efficiency of 96.74% to 100% within 48 h for NH₄⁺-N with a substrate concentration of 100 mg/L, and a total nitrogen (TN) removal efficiency of 75.21% to 84.67%. The nitrification complex microbial inoculant has great potential in removing high-salinity wastewater (with a salinity of greater than 30) and NH₄⁺-N in mariculture wastewater.



21: 2022/10660. 22: 2022/09/27. 43: 2023/01/20
51: A22C; A23L; A61K

71: Anhui Science And Technology University
72: LI, Jingjun, WU, Xiaowei, DU, Chuanlai, ZHENG, Haibo, WEI, Lanlan, ZHEN, Zongyuan

54: EMULSIFIED SAUSAGE CONTAINING LOTUS SEEDS, GARLIC BOLTS AND FISH MEAT, AND PROCESSING METHOD THEREOF

00: -

The present disclosure relates to the technical field of food processing, and particularly discloses an emulsified sausage containing garlic bolts, lotus seeds and fish meat, and a processing method thereof. The sausage is prepared from fresh fish meat, garlic bolts, fresh lotus seeds, auxiliary materials and condiments; the processing method includes: soaking and washing the fresh lotus seeds and the garlic bolts, slicing and mincing the fresh fish meat, putting the raw and auxiliary materials into a vacuum bowl cutter, cutting and mixing the materials to form minced fish meat, adding the lotus seed particles and the garlic bolt dices to the minced fish meat to mix after high-temperature steam treatment, filling the minced fish meat mixed with the

fresh lotus seed particles and the garlic bolt dices into a casing for drying and molding, vacuum-packaging the dried sausage, and finally steaming the sausage.

21: 2022/10661. 22: 2022/09/27. 43: 2023/01/20
51: A23C

71: Anhui Science and Technology University
72: CHEN, Chunxu, CHEN, Hao, LI, Xianbao, DU, Chuanlai

54: SIALIC ACID-ADDED AND EASY-TO-DIGEST MILK POWDER FOR PREMATURE INFANTS AND PREPARATION METHOD THEREOF

00: -

The present invention provides a sialic acid-added and easy-to-digest milk powder for premature infants and a preparation method thereof, and relates to the technical field of food. The sialic acid-added and easy-to-digest milk powder for premature infants of the present invention is made from the following raw materials: skimmed milk powder, lecithin, maltodextrin, immunoglobulin, refined palm oil, compound vitamins, compound prebiotics, minerals, alpha-lactalbumin, lactoferrin, ferrous gluconate, bifidobacteria, sialic acid, mixed edible vegetable oil, beta-galactosidase, tryptophan, threonine and cystine.

21: 2022/10662. 22: 2022/09/27. 43: 2023/01/20
51: G09B

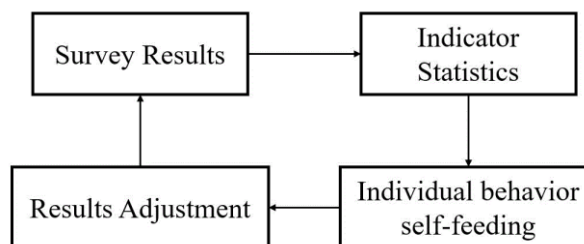
71: North China Electric Power University
72: HAO Yujiao, YU Shunkun

54: SELF-FEEDING ANALYSIS METHOD OF TALENT EVALUATION FROM PERSPECTIVE OF BEHAVIORAL PSYCHOLOGY

00: -

Most existing evaluation methods use positive thinking to evaluate talents through external evaluation results, however, circumstances such as individual preferences and diversity lead to abnormal evaluation results that can be analyzed and corrected according to the individual's own evaluation behavior. Based on behavioral psychology and machine learning algorithms, the present invention relates to a method for self-feeding analysis of talent evaluation from the perspective of behavioral psychology, said method comprising a talent evaluation survey indicator statistics part, where the distribution of each indicator is hypothesised and verified in terms of distribution

laws and changed to a normal distribution pattern through non-linear changes; an individual evaluation behaviour self-feeding analysis part, where a Bayesian probability algorithm is learnt for the distribution interval of each indicator and In the individual evaluation result adjustment section, the recognition results are used to calculate individual self-feeding coefficients, adjust individual evaluation behavior, and judge whether the data quality meets the requirements according to the accuracy of the adjusted result distribution. By analyzing individual preferences in evaluation behaviors, the present invention uses machine learning algorithms to identify and self-feed correction of some evaluation behaviors, and obtains more reliable talent evaluation survey results.



21: 2022/10663. 22: 2022/09/27. 43: 2023/01/20
51: B09B

71: MA Qin
72: MA Qin, SHENG Hanjiao, XU Zhenbo
54: METHOD FOR RECYCLING KITCHEN GARBAGE

00: -

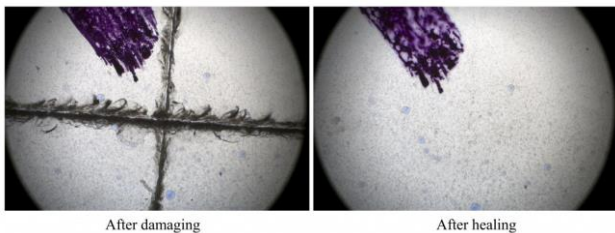
The application discloses a method for recycling kitchen garbage, and belongs to the technical field of environmental protection and renewable energy. The method comprises the following steps: 1) crushing kitchen garbage, adjusting the pH to 6.0-7.5 and the water content to 55-60%, then mixing with compound biological bacteria, and performing aerobic fermentation under a closed condition; 2) after aerobic fermentation is finished, adding iron and carbon particles into a fermentation product in a natural environment for continuous fermentation, and recovering the iron and carbon particles. By using the method to treat the kitchen garbage, the whole fermentation period of the kitchen garbage can be effectively shortened, and the recycling of the kitchen garbage can be realized.

21: 2022/10664. 22: 2022/09/27. 43: 2023/01/20
51: C09D

71: Northwest A&F University
72: Wu Haitang, Zhao Aiguo, Han Xiaotao, Tang Kaixin, Wei Jie

54: AN URUSHIOL-BASED SELF-HEALING ANTICORROSIVE COATING AND ITS PREPARATION METHOD

00: -
The invention discloses a urushiol-based self-healing anticorrosive coating and its preparation method. And it is characterized in that use the urushiol to react with epichlorohydrin and carry out the etherification modification to obtain urushiol glycidyl ether intermediate, then use it to react with trimethylolethane or trimethylolpropane to polymerize to obtain hydroxyl-terminated hyperbranched urushiol polyether resin, and further add a certain proportion of diisocyanate to obtain unsaturated hyperbranched urushiol-based polyurethane with isocyanate functional groups as the terminal group after the reaction. And take a certain amount of hyperbranched urushiol-based polyurethane, add dihydric hydroxyl compound 4,4'-dihydroxydiphenyl disulfide, photoinitiator, multi-thiol compound and Ce-Zr-MOF corrosion inhibitor, stir evenly, coat the mixture on a glass sheet or a tinplate sheet with a coater, and cure it to form film under ultraviolet light source. The invention has the following advantages: 1. Urushiol is a renewable resource; 2. The damaged cured paint film can be healed at low temperature; 3. The prepared urushiol-based self-healing cured film has excellent mechanical properties and corrosion resistance, and can be applied to the field of high-performance coatings.

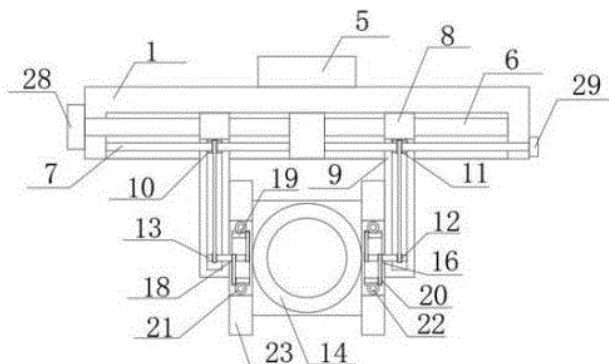


21: 2022/10665. 22: 2022/09/27. 43: 2023/01/20
51: B23Q

71: SHANDONG DAOYONGSHENG INFORMATION TECHNOLOGY CO., LTD.
72: Chen Yixiao

54: DISASSEMBLY-FREE MACHINING TOOLING FOR SAFETY VALVE INLET WATERPLANE

00: -
The present invention discloses a disassembly-free machining tooling for a safety valve inlet waterplane, comprising a first processing device, a second processing device, a driving device and a safety valve, an output shaft of the driving device is fixedly connected with a face plate, the first processing device and the second processing device are orthogonal to each other, the safety valve is provided with an inlet flange and an outlet flange, one end of the inlet flange away from the safety valve is provided with a waterplane. The present invention has the advantages that the safety valve can be fixed and borne by a fixing device, a plurality of clamping devices and clamping plates can provide clamping forces for an inlet flange in multiple directions, which can ensure the clamping effect of the entire device; the clamping device does not need to bear the weight of the safety valve, which can reduce damage to the clamping device and prolong the service life of the clamping device; and also it is convenient for workers to master the force of the clamping device, which can avoid damage to the safety valve caused by excessive clamping forces of the clamping device and ensure the machining quality of the safety valve.



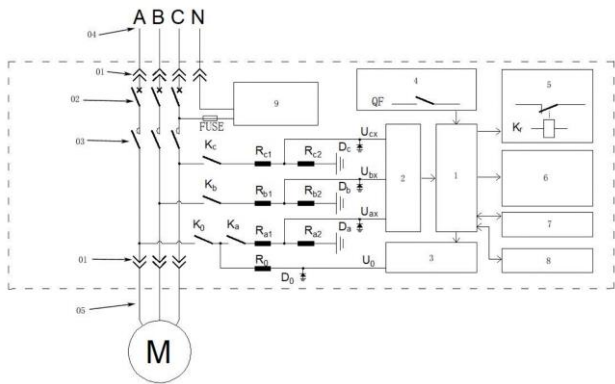
21: 2022/10671. 22: 2022/09/27. 43: 2023/01/20
51: G01R

71: Huaneng Taicang Power Generation Co. LTD
72: HUANG, Peng
33: CN 31: 202111159169.8 32: 2021-09-30

54: INSULATION RESISTANCE MEASUREMENT DEVICE AND METHOD FOR STAND-BY MOTORS

00: -
The invention relates to an insulation resistance measurement device for stand-by motors. The

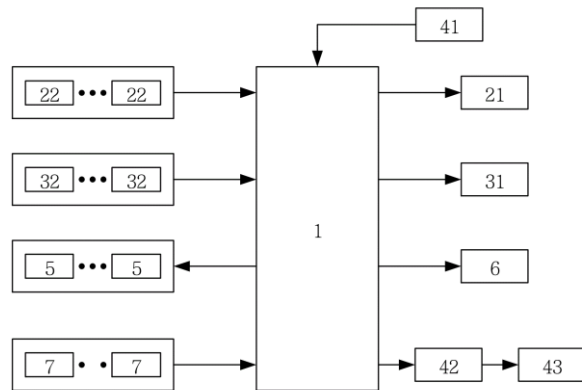
insulation resistance measurement device comprises a master controller, a measurement voltage division circuit, a sample hold circuit and a DC power supply. The measurement voltage division circuit comprises: an A-phase circuit, which has an end accessed to a phase line and an end grounded, and is provided with a relay and voltage division resistors; a B-phase circuit, which has an end accessed to a phase line and an end grounded, and is provided with a relay and voltage division resistors; and a C-phase circuit, which has an end accessed to a phase line and an end grounded, and is provided with a relay and voltage division resistors. A negative pole of the DC power supply is grounded, and a positive pole of the DC power supply is accessed to power supply lines of the to-be-measured motor through a relay. The sample hold circuit is connected to the master controller and three phases of voltage division circuits, and is used for acquiring voltages of the voltage division resistors and transmitting the acquired voltages to the master controller. The master controller is connected to the relays and the DC power supply through a control signal line. Compared with the prior art, the insulation resistance measurement device of the invention is disposed in a drawer-type hand switch and can measure the insulation resistance of the stand-by motor without power off equipment, such that the risk of misoperation and equipment damage caused by power-off and power supply of equipment is lowered, early insulation defects of the equipment can be found in time, and the reliability of the equipment is improved.



21: 2022/10672. 22: 2022/09/27. 43: 2023/01/20
51: B66C
71: Huaneng Taicang Power Generation Co. LTD

72: LI, Xuedong, HUANG, Peng
33: CN 31: 202111151785.9 32: 2021-09-29
54: ANTI-COLLISION DEVICE AND CONTROL METHOD FOR CRANE TRAVELING MECHANISMS OF SHIP UNLOADER

00: -
The invention relates to an anti-collision device and control method for crane traveling mechanisms of a ship unloader. The anti-collision device comprises a distance measurement module, an image module and a master controller. The distance measurement module comprises a distance display installed in a driving cab and multiple distance measurement sensors installed on front and back sides of crane traveling mechanisms. The image module comprises an image display installed in the driving cab and multiple image sensors installed on the front and back sides of the crane traveling mechanisms. The master controller is in a communication connection with the distance display, the distance measurement sensors, the image display and the image sensors. Compared with the prior art, the invention acquires real-time distances from the crane traveling mechanisms to an obstacle through the distance measurement module, acquires real-time images of the crane traveling mechanisms through the image sensors, and eliminates visual blind zones, such that collisions are prevented, the degree of digitization and the degree of visualization are high, and hidden dangers caused by poor contact and short circuits of the existing stop pillar-travel switch structure are eliminated.

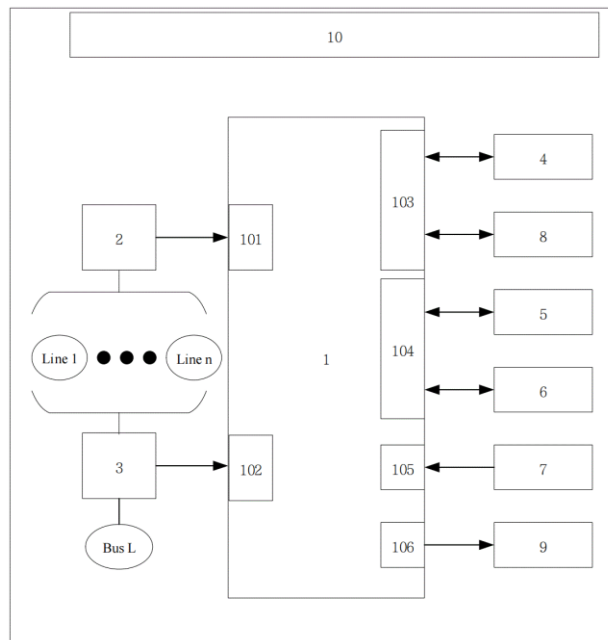


21: 2022/10673. 22: 2022/09/27. 43: 2023/01/20
51: H04Q
71: Huaneng Taicang Power Generation Co. LTD
72: XU, Weiming, HUANG, Peng
33: CN 31: 202111151808.6 32: 2021-09-29

54: DEVICE AND METHOD FOR REMOTE TRANSMISSION OF INFORMATION OF SWITCHING STATION BASED ON IOT

00: -

The invention relates to a device and method for remote transmission of information of a switching station based on an IoT. A switch variable acquisition circuit acquires TWJ signals, KKJ normally open contact signals, KKJ normally closed contact signals and relay protection device actuating signals of line switches on a bus of a switching station. An analog variable acquisition circuit acquires a voltage and frequency of the bus L, as well as currents and active powers of the lines. A remote communication module is used for realizing information transmission between the device for remote transmission of information of a switching station and intelligent devices. Compared with the prior art, the invention reads field equipment operation information of the switching station in real time and transmits the information to intelligent devices of off-duty personnel based on a single-chip microcomputer and a remote communication technique, such that off-duty personnel obtain the operating state electrical equipment of the switching station in real time, the problem that off-duty personnel such as management personnel cannot obtain the operation condition and state of equipment on the production site in time and can acquire the operation condition and state of the equipment through only one approach is solved, and the invention plays an important role in improving the degree of fine management of equipment operation of power plants and substations.



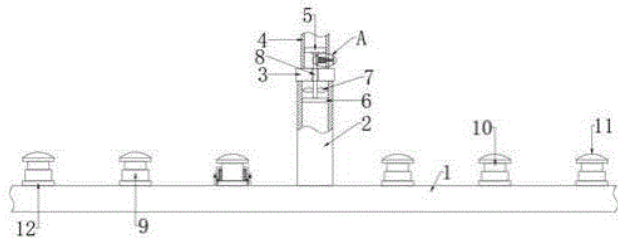
21: 2022/10674. 22: 2022/09/27. 43: 2023/01/20
 51: C02F
 71: SHANDONG DAOYONGSHENG INFORMATION TECHNOLOGY CO., LTD.
 72: Zhang Xun, Chen Yixiao

54: ENVIRONMENT-FRIENDLY AERATION DEVICE FOR CHEMICAL SEWAGE TREATMENT

00: -

The present invention discloses an environment-friendly aeration device for chemical sewage treatment. The invention comprises an aerator pipe and a transport pipe, the upper end of the aerator pipe is fixedly connected with a fixed pipe, the upper end of the fixed pipe is connected with the transport pipe through a rotating part, the inner wall of the transport pipe is fixedly connected with a first fixed rod, the inner wall of the fixed pipe is fixedly connected with a second fixed rod, the bottom of the first fixed rod is rotationally connected with a rotating rod, and the lower end of the rotating rod is fixedly connected with the upper end of the second fixed rod. The present invention is reasonable in structure, cross-distribution aerators are arranged, the cross-distribution aerators slowly rotate when gas is delivered, so that overall aeration treatment to an aeration tank is achieved, the number of the aerators is largely reduced, meanwhile the possibility that holes of the aerators are blocked is also reduced, and the aerators are also easy to install and remove; the operation is simple, convenient, and fast, the

amount of labor is greatly reduced, and convenience is brought to workers.



21: 2022/10675. 22: 2022/09/27. 43: 2023/01/20
51: D06M

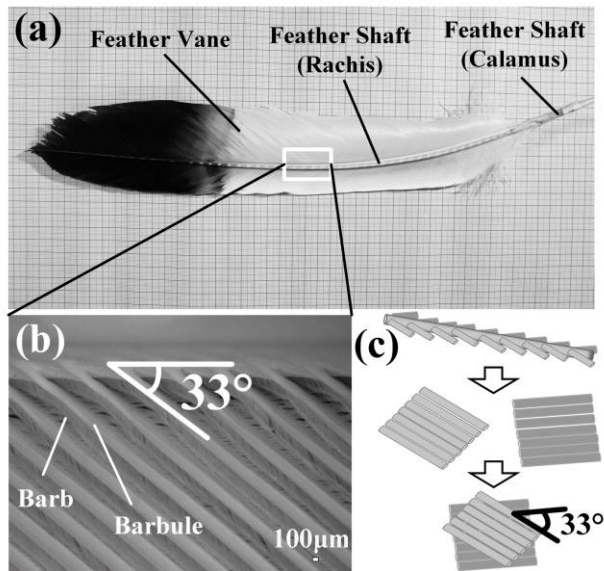
71: Jilin University

72: Liang Yunhong, Tuo Zhiwei, Zhao Qian, Ma Suqian, Lin Zhaohua, Ren Lei, Han Zhiwu, Ren Luquan

54: A KIND OF PREPARATION METHOD OF BIONIC CARBON FIBER REINFORCED EPOXY RESIN COMPOSITE MATERIAL WITH EAGLE FEATHER STRUCTURE

00: -

The invention relates to a preparation method of a biomimetic carbon fiber reinforced epoxy resin composite material with eagle feather structure, characterized by a carbon fiber reinforced epoxy resin composite material with good mechanical properties as the material basis, through liquid phase oxidation, to prepare a cut carbon fiber with good surface wettability. The biomimetic composite with higher tensile strength and impact toughness than conventional carbon fiber reinforced epoxy resin composite was prepared by the method of layer scratching and coating and the corresponding biomimetic structure design. Compared with the pure epoxy resin matrix, the tensile strength and impact toughness of the biomimetic composite have been increased by 2.064 times and 1.526 times, respectively. Compared with the same content of carbon fiber reinforced epoxy resin composites, the tensile strength and impact toughness of the biomimetic composites are improved by 1.290 and 1.038 times, respectively. The bionic carbon fiber reinforced epoxy resin composite material prepared by the invention has the advantages of low cost, high mechanical properties, simple and efficient manufacturing, and provides an effective new idea for the design and preparation of high performances fiber reinforced resin composite material.



21: 2022/10676. 22: 2022/09/27. 43: 2023/01/20
51: A61L

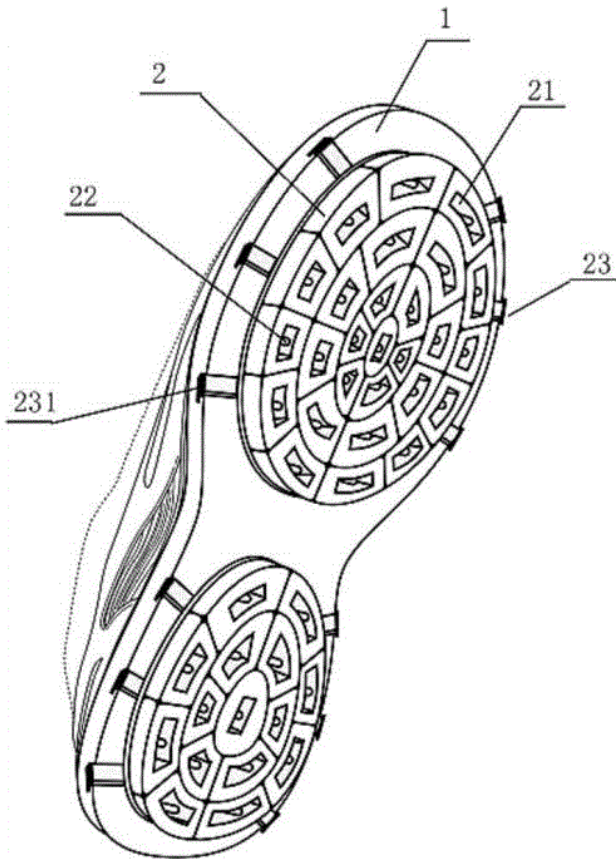
71: Guangdong University of Technology

72: Yue Sun, Dingbang Luh, Yulin Zhao, Fei Sun

54: A SHOE SOLE DISINFECTATION DEVICE

00: -

The invention relates to the technical field of disinfection. More specifically, it relates to a shoe sole disinfection device, including an ultraviolet disinfection lamp and also a disinfection layer connected to the shoe sole. The ultraviolet disinfection lamp is embedded in the disinfection layer, the disinfection layer is provided with an electric device for supplying power to the ultraviolet disinfection lamp, when the disinfection layer is squeezed, the ultraviolet disinfection lamp emits light. Even when the weather is cloudy or when the user is indoors. The working efficiency of the ultraviolet disinfection lamp in the invention is not affected. And the disinfection device can be installed on the sole of different shoe types, so that the sole disinfection device of the invention has a wide range of application.



21: 2022/10677. 22: 2022/09/27. 43: 2023/01/20
 51: B23K
 71: Shenyang University of Technology, Shenyang Zhongying High-tech Co., Ltd
 72: Guiqing Zhang, Yunhai Su, Zhiyong Dai, Taisen Yang

54: HIGH-NITROGEN LOW-NICKEL HIGH-TEMPERATURE FLUX-CORED WIRE AND PREPARATION PROCESS

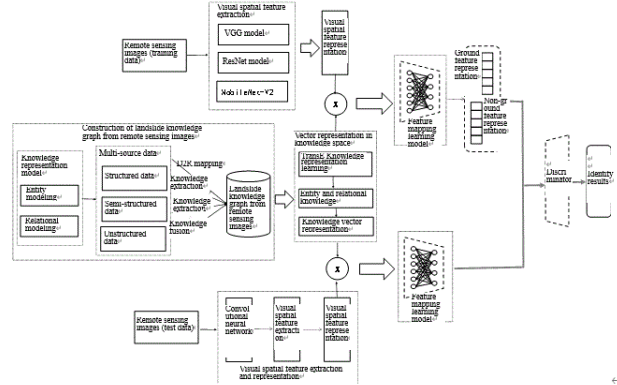
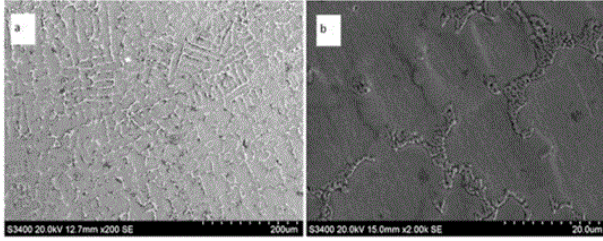
00: -
 The invention provides a high-nitrogen low-nickel high-temperature flux-cored wire and a preparation process. The high-nitrogen low-nickel high-temperature flux-cored wire is composed of the following elements of, in percentage by mass, less than or equal to 0.04 wt% of C, less than or equal to 0.8 wt% of Si, 0.5 wt%-5.0 wt% of Mn, less than or equal to 1.0 wt% of Cu, 25 wt%-33 wt% of Ni, 17 wt%-26 wt% of Cr, 3.0 wt%-6.0 wt% of Mo, 3.0 wt%-5.0 wt% of Nb, 0.1 wt%-0.4 wt% of N, 0.4wt%-1.1 wt% of Ti, 0.1 wt%-0.5 wt% of Al, 0.5 wt%-1.5 wt% of Ti+Al, 0.04wt%-0.12 wt% of V and the balance Fe, wherein Ti/Al=1.8-2.3 and (Ti + Al)/N=1.5-4.0.
 According to the process, the low-cost N is adopted to replace parts of the Ni elements, a novel welding

material used for welding 316L and partially nickel-based high-temperature alloy is prepared, the high-temperature performance of the welding material is not lower than that of the nickel-based flux-cored wire, and meanwhile, the problems of high price and scarcity of the Ni are solved; and the high-nitrogen low-nickel high-temperature flux-cored wire prepared by the process can be used under a high temperature 600-700 degree condition and is excellent in high-temperature mechanical property, thermal crack resistance and high-temperature corrosion resistance.

21: 2022/10678. 22: 2022/09/27. 43: 2023/01/20
 51: C22C
 71: Shenyang University of Technology, Shenyang Zhongying High-tech Co., Ltd
 72: Guiqing Zhang, Yunhai Su, Zhiyong Dai, Taisen Yang

54: NOVEL FE-NI-CR-N ALLOY AND PREPARATION METHOD THEREOF

00: -
 The invention belongs to the technical field of alloy materials, and particularly relates to a novel Fe-Ni-Cr-N alloy with excellent high-temperature strength and high-temperature corrosion resistance and a preparation method. The alloy is composed of the following chemical components, in percentage by weight, of: 0.02wt% or less of C, 0.6wt% of Si, 1.0-4.0wt% of Mn, 1.5wt% or less of Cu, 26-33wt%of Ni, 18-26wt% of Cr, 2-5wt% of Mo, 2-4wt% of Nb, 0.4-0.8wt% of N, 0.1-0.5wt% of Al, 0.4-1.1wt% of Ti, 2.0-2.5wt% of Ti/Al, 1.2-1.8wt% of Ti+Al, 1.8-5.0wt% of (Ti+Al)/N, 0.06-0.10wt% of V and the balance of Fe and inevitable impurities. The corrosion current density of the prepared novel Fe-Ni-Cr-N alloy in a 3.5% NaCl solution is 1.04×10^{-7} mA/cm² to 7.65 multi 10^{-7} mA/cm²; and in the temperature interval of 600-700 degree, the yield strength of the alloy is 417.41-431.38 MPa, the tensile strength of the alloy is 651.13-743.36 MPa, and the alloy has good yield strength, tensile strength and corrosion resistance.



21: 2022/10679. 22: 2022/09/27. 43: 2023/01/20
 51: G06F
 71: Hefei University of Technology, Shenzhen Data Management Center of Planning and Natural Resource
 72: Chunju ZHANG, Yucheng YANG, Bing XU, Kai LIU, Jun GENG, Weijie JIANG, Jiachen BO, Hongfei XIAO

54: A REMOTE SENSING IMAGE MINING METHOD COUPLING KNOWLEDGE GRAPH AND DEEP NEURAL NETWORK

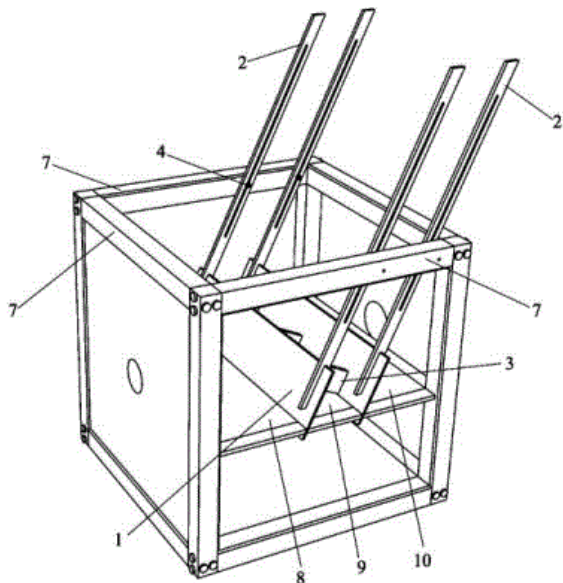
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 The invention discloses a remote sensing image mining method coupling knowledge graph and deep neural network, including Step 1. Constructing a remote sensing image knowledge expression model taking into account the ground object imaging mechanism and remote sensing image features; Step 2. Constructing remote sensing image knowledge graph based on multi-source data; Step 3. The knowledge representation learning method is used to mine the knowledge of entities and relations in the knowledge graph of remote sensing images, which is converted into low-dimensional dense vector representation in the knowledge space; Step 4. The typical visual features of remote sensing images are extracted by deep convolutional neural network, and the visual spatial features are mapped to the knowledge spatial features; Step 5. Calculating the similarity between the mapping vector and the learning vector of remote sensing image knowledge representation; Step 6: In the remote sensing image to be mined, typical visual feature extraction and feature mapping learning methods of Step 4 and Step 5 are used to mine remote sensing image knowledge. The results show that the method of fusion of knowledge graph and deep neural network has further improved the effect of remote sensing image interpretation and mining compared with the single neural network model.

21: 2022/10705. 22: 2022/09/28. 43: 2023/01/23
 51: G01N

71: Henan University of Urban Construction
 72: REN, Mingyang, WU, Xuyang, LIU, Heng, LIU, Jiahui, WANG, Qingguo, ZHAI, Panpan, SHEN, Tong, CHU, Yapei, MA, Yabing

54: FAULT FABRICATION DEVICE AND OPERATING METHOD FOR GEOMECHANICAL MODEL TEST

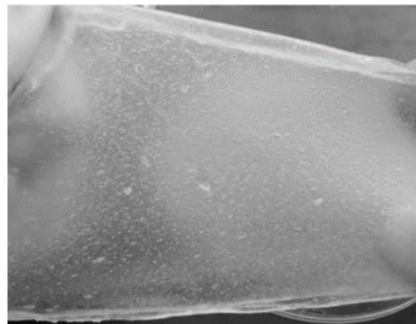
00: -
 The present invention relates to a fault body fabrication device and operating method for geomechanical model test, which comprises a fault barrier, a fault barrier fixing plate, a bolt and an inner supporting plate; the fault barriers are connected by three inner supporting plates, and the fault barriers are fixed inside the guide frame of the model frame by fault barrier fixing plates and bolts. By adjusting the distance between the fault barriers and the inclination direction, the fault body with any thickness and any orientation can be made. The present invention solves the problem of difficulty in making inclined fault bodies and fixing fault directions in geomechanical model tests.



21: 2022/10706. 22: 2022/09/28. 43: 2023/01/23
 51: C08J
 71: Hubei University
 72: HU, Xiquan

54: ENVIRONMENT-FRIENDLY EDIBLE PRESERVATIVE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF, AND PRESERVATIVE FILM AND PREPARATION METHOD THEREOF

00: -
 The present disclosure belongs to the technical field of environmental protection, and particularly relates to an environment-friendly edible preservative material and a preparation method and application thereof, and a preservative film and a preparation method thereof. The present disclosure provides an environment-friendly edible preservative material, including components: 3.0-5.0 parts of potato starch, 2.0-3.0 parts of sodium alginate, 1.5-2.5 parts of calcium chloride, 2.0-3.0 parts of glycerin, 0.01-0.03 part of sodium benzoate and 80-120 parts of water. The environment-friendly edible preservative material can relieve pollution caused by extensive use of plastic films, meanwhile, improve the added value of potatoes, has the advantages that raw materials are readily available, and the preservative material is edible, degradable and the like, and can greatly prolong storage life of food after forming a film on the surface of the food, thereby achieving good preservation and storage application effects of products.



21: 2022/10707. 22: 2022/09/28. 43: 2023/01/23
 51: C04B
 71: University of Science and Technology Beijing, Ningxia Jiyuan Juntai New Material Technology Co., Ltd., Ningxia Jiyuan Metallurgical Group Co., Ltd.
 72: WU Pengfei, ZHANG Siqi, MO Junhong, NI Wen, ZHANG Suxian, ZHANG Yanbin, WANG Jie, WANG Zhiqing

54: METHOD FOR PREPARING HIGH-QUALITY MORTAR AGGREGATE FROM MANGANESE-SILICON SLAG AND APPLICATION THEREOF

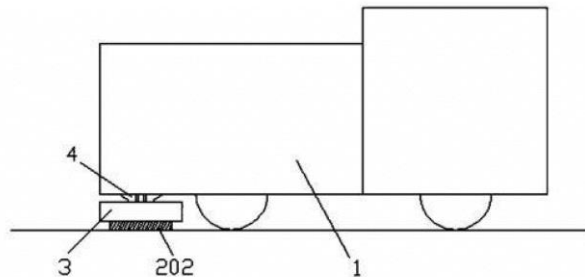
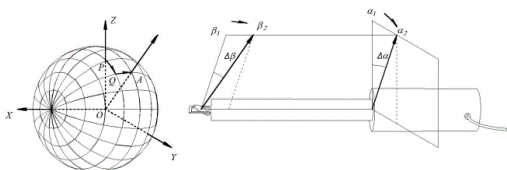
00: -
 The invention relates to a method for preparing high-quality mortar aggregate from manganese-silicon slag, which includes the following steps: carrying out water quenching treatment, drying treatment, crushing and multistage sieving on manganese-silicon alloy hot-melt slag to obtain fine aggregate and manganese-silicon powder with fineness modulus of 3.0-1.5; the fine aggregate and manganese silicon powder are used as mortar admixture, that effectively reduces the bulk density of mortar, effectively reduces the waste of resources, has good energy-saving and environmental protection effects, provides a new raw material source for fine aggregates required for civil engineering construction, and has good economic benefits.

21: 2022/10708. 22: 2022/09/28. 43: 2023/01/23
 51: G01N
 71: Industrial Analysis and Testing Center of Guangdong Academy of Sciences
 72: CHEN, Wenlong, XIAO, Xiaoling, SHI, Changliang, LI, Yang, ZHOU, Mingjun
 33: CN 31: 202210238815.8 32: 2022-03-11

54: TRANSMISSION ELECTRON MICROSCOPE METHOD FOR MEASURING LOW-ANGLE GRAIN BOUNDARY ORIENTATION DIFFERENCE

00: -

Provided is a transmission electron microscope method for measuring a low-angle grain boundary orientation difference. The method includes the steps: preparing a transmission electron microscope sample; finding a first crystal grain and a second crystal grain to be measured by using a transmission electron microscope; and conducting primary sample adjustment, conducting secondary sample adjustment, and calculating a result. According to the present invention, by using selected area electron diffraction, clear images are in one-to-one correspondence with diffraction patterns, the resolution is clearer, an orientation difference of adjacent crystal grains is rapidly and accurately given in combination with accurate description of spherical angles and a double-tilting sample rod by means of simple and easy-to-understand mathematical calculation, and an orientation difference is rapidly measured while microstructure observation and measurement are conducted on materials, thereby achieving the advantages of simplicity in operation, convenience in calculation, intuition and understandability.



21: 2022/10710. 22: 2022/09/28. 43: 2023/01/23
51: A62C

71: GUIZHOU UNIVERSITY, Guizhou Zhuocheng Planning and Design Co., Ltd.

72: YU Yafang, ZHAO Yuqi

54: DIVISION TECHNOLOGY OF FIRE PROTECTION UNITS FOR TRADITIONAL VILLAGES

00: -

Disclosed is a division technology of fire protection units for traditional villages, including: S1) establishing fire protection units where regional fire risk suppression and traditional village style protection are coordinated using multi-factor fusion delimitation technology; S2) inputting comprehensive elements in a distribution map of village buildings to analyze figure-ground relation, and identifying unit separation areas; and S3) equipping each fire protection unit with corresponding fire-fighting facilities and governance mechanisms, where fire-fighting facilities and governance mechanisms follow the principle of "combining tradition with modernity, paying equal attention to civil defense and technical defense" and civil defense emphasizes the participation of local permanent residents, and pass on traditional fire control wisdom and master modern fire control technology through publicity and education, regular fire control training and drills. This division technology of fire protection units for traditional villages has improved the pertinence and effectiveness of fire prevention and control in traditional villages.

21: 2022/10709. 22: 2022/09/28. 43: 2023/01/23
51: E01H

71: Henan University of Urban Construction

72: LV, Dawei, LONG, Dan, XU, Jingsheng, WANG, Xibin, LIU, Zhiting

54: CLEANING DEVICE FOR URBAN ROADS

00: -

The present invention discloses a cleaning device for urban roads, which relates to the technical field of road cleaning, including a moving vehicle body, a driving mechanism, and a sweeping mechanism; the cleaning device of the present invention can make the sweeping disk brush switch freely between an operating state and a maintenance state, which not only facilitates decontamination, cleaning, and maintenance as well as repair of the sweeping disk brush, but also makes it possible to adjust the height and inclination of the sweeping disk brush during the sweeping process.

21: 2022/10711. 22: 2022/09/28. 43: 2023/01/23
51: C04B

71: University of Science and Technology Beijing, Ningxia Jiyuan Juntai New Material Technology Co., Ltd., Ningxia Jiyuan Metallurgical Group Co., Ltd.

72: WU Pengfei, ZHANG Siqi, MO Junhong, NI Wen, ZHANG Suxian, ZHANG Yanbin, WANG Jie, WANG Zhiqing

54: METHOD FOR PREPARING BUILDING STONES BY USING HOT MOLTEN SLAG OF MANGANESE-SILICON ALLOY

00: -
 The application belongs to the field of hot molten slag treatment of manganese-silicon alloy, and in particular to a method for preparing building stones by using hot molten slag of manganese-silicon alloy. The method comprises the followins steps: S1, synchronously adding the manganese-silicon alloy hot molten slag and the fining agent into a quenching and tempering electrolysis furnace to obtain mixed melten slag, keeping the temperature in the quenching and tempering electrolysis furnace between 1100 degree Celsius and 1600 degree Celsius, and uniformly mixing and heating for 1 - 4 hours; S2, pouring the mixed molten slag into a mould, then quickly transferring the mould into a crystal oven, controlling the temperature of the crystal oven to be between 800 degree Celsius and 1300 degree Celsius, and keeping the temperature for 1 to 3 hours to obtain crystal; S3, stopping the heating of the crystal oven after the heat preservation is finished, and taking out the mould from the crystal oven after the temperature of the crystal oven is naturally cooled to room temperature; S4, taking the cooled crystal out of the mould, cutting and polishing to obtain the artificial building stones. The application has the advantages of effectively saving resources, improving the compressive strength of the artificial building stone and reducing the porosity of the artificial building stone.

21: 2022/10712. 22: 2022/09/28. 43: 2023/02/07
 51: E04B
 71: OHM ASSET HOLDINGS (PTY) LTD
 72: KAPLAN, Morris, BOTHMA, Riaan Cornelius

54: A SUPPORT ASSEMBLY

00: -
 The invention relates to a support assembly, for in use, supporting a wall in an upright condition wherein the assembly includes a frame arrangement comprising a plurality of longitudinal and transversal elongate members arranged in a crisscross/overlapping manner, wherein the adjuster for adjusting the relative space defined between the elongate members so as to adjust operative surface area of the support assembly and wherein an

engagement formation extending from the support assembly for engaging an outer surface of a wall to be supported; and wherein a supportive arm extending from the adjuster towards a ground surface for supporting the support assembly in a generally upright condition.

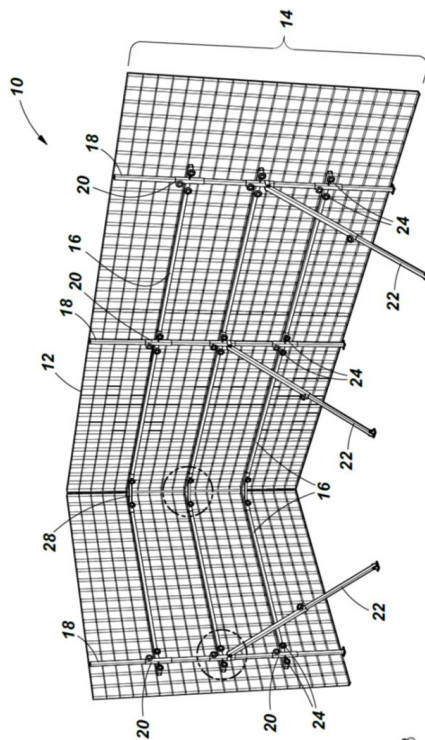
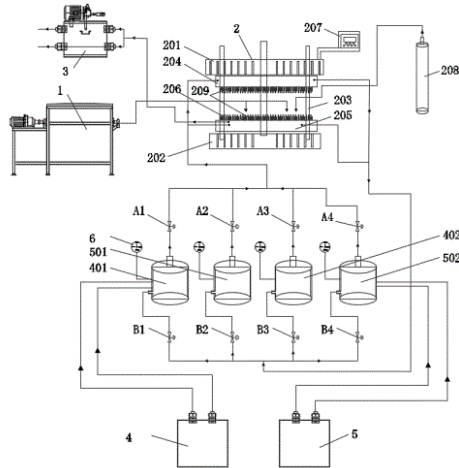


FIGURE 1

21: 2022/10713. 22: 2022/09/28. 43: 2023/01/23
 51: B29C
 71: Jiangsu gangze Intelligent Equipment Co., Ltd
 72: Minghu SUN
54: COMPLETE AUTOMATIC PLANT AND PROCESS FOR PRODUCING LATEX PRODUCT BY TALALAY PROCESS

00: -
 The present invention relates to the technical field of the production of latex products and more particularly discloses a complete automatic plant and process for producing a latex product by Talalay process. The complete automatic plant includes a foaming machine, a press, a mold, a vacuum generator, a freezing unit, and a heating unit. A manipulator is disposed between the foaming machine and the press. A communicating pipe is disposed between the vacuum generator and the press. A flowmeter and a stirrer are disposed on the foaming machine. The set of system uses full closed loop control, and temperature, pressure, flow and

time are analyzed and controlled by a computer in the whole process, ensuring the stability of the quality of products. After being closed, the mold is vacuumized through a vacuum groove using the vacuum generator and the communicating pipe, causing latex to expand under the action of vacuum to fully fill the entire mold.

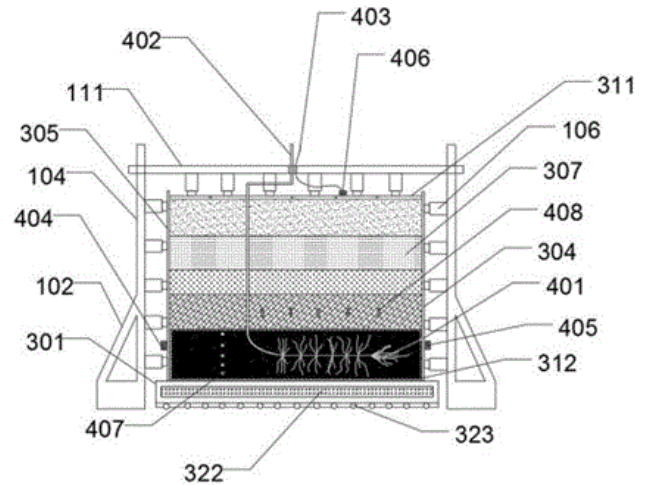


21: 2022/10718. 22: 2022/09/28. 43: 2023/01/23
51: G01N
71: China University of Mining and Technology, Beijing

72: Teng Teng, Zhaolong Li, Yanzhao Zhu, Duo Xu, Zhaoyang Ren, Bin Liu, Xiaoyan Zhu, Kun Liu
54: MULTIFUNCTIONAL THREE-DIMENSIONAL SIMILAR SIMULATION TEST PLATFORM AND TEST METHOD

00: -
The invention discloses a multifunctional three-dimensional similar simulation test platform and a test method, and relates to the technical field of mining and rock and soil mechanics tests. The platform comprises an analog simulation test stand used for providing force or deformation control, an analog simulation sample used for analog simulation of rock stratum structures and components, a multi-field coupling servo control integrated system used for achieving force-displacement-temperature-seepage multi-field coupling servo control, and an intelligent multi-parameter monitoring and analyzing system used for realizing whole-course evaluation of the similar simulation test. The similar simulation test equipment integrates microwave thermal rock breaking and fracturing permeability increasing technologies, and realizes organic combination of underground engineering excavation and similar

simulation tests for promoting production of coal measure gas.

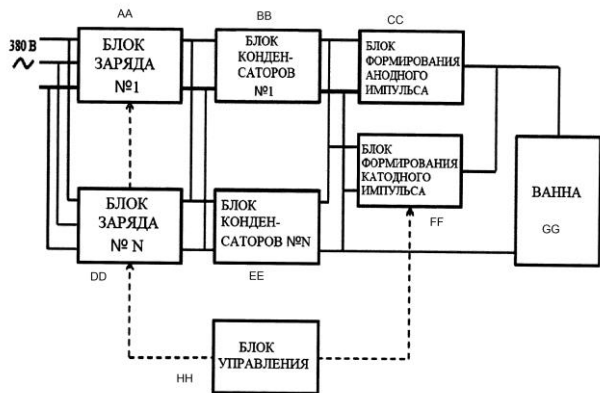


21: 2022/10723. 22: 2022/09/28. 43: 2023/01/23
51: C25D

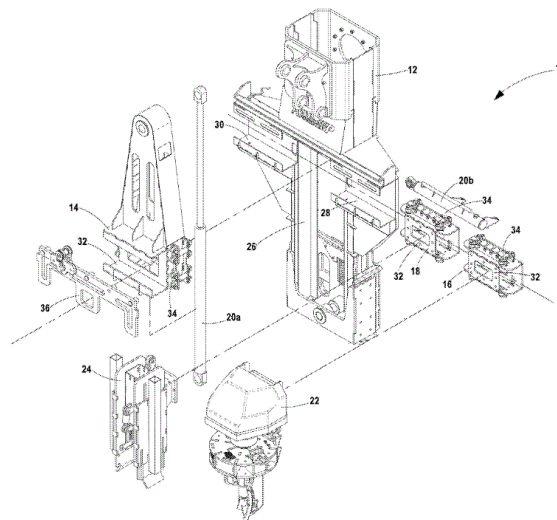
71: AKTSIONERNOE OBSHCHESTVO "MANEL"
72: BUTYAGIN, Pavel Igorevich, ARBUZOVA, Svetlana Sergeevna, BOLSHANIN, Anton Vladimirovich, PETUHOV, Dmitriy Vladimirovich
33: RU 31: 2020114676 32: 2020-04-24

54: METHOD FOR APPLYING A COATING TO ITEMS MADE FROM VALVE METAL AND ALLOY THEREOF

00: -
The invention relates to the field of electrochemical application of coatings to the valve metals aluminium, titanium, magnesium and their alloys by the process of microarc oxidation (MAO) for a wide range of use not only on new items but also on post-operation items, in particular for restoring coatings after wear. A method includes submersion of an item in a bath with an aqueous electrolyte solution and MAO in a pulse anode-cathode mode. The MAO is performed by controlling the rate of growth of the coating at edges, corners and the centre of the item by changing the mode in the process of application of the coating using a device in which a charge unit includes a controllable pulse-increasing quasi-resonance converter with a current and voltage operating mode. The invention makes it possible to control the rate of production of the coating in different surface regions of an item, which makes it possible to obtain uniform coatings on the item in terms of thickness or a necessary thickness in regions thereof.



AA Charge unit No.1
 BB Capacitor unit No.1
 CC Anode pulse generation unit
 DD Charge unit No. N
 EE Capacitor unit No. N
 FF Cathode pulse generation unit
 GG Bath
 HH Control unit
 Фиг. 1



21: 2022/10990. 22: 2022/10/06. 43: 2023/01/23
 51: A01C

71: NOVELQUIP FORESTRY (PTY) LTD
 72: BAUERMEISTER, Daniel Jacobus,
 SCHOEMAN, Lodewyk, STEENKAMP, Helgaard
 Petrus

33: ZA 31: 2020/03018 32: 2020-05-22

54: PLANTING APPARATUS

00: -

Planting apparatus includes: (i) a housing that defines: a primary guide; and first and second opposed branch guides extending laterally from the primary guide; (ii) a first runner slidably secured to, and movable along the primary guide; (iii) a second runner securable to, and movable along a first branch guide; and (iv) a third runner securable to, and movable along a second branch guide. The first, second and third runners are configured such that: the second runner is receivable from the first branch guide on to the first runner; and the third runner is receivable from the second branch guide on to the first runner. Drive means move: (i) the second runner along the first branch guide and on to the first runner; (ii) the third runner along the second branch guide and on to the first runner; and (iii) the first runner, together with either of the second or third runners received thereon, along the primary guide.

21: 2022/11148. 22: 2022/10/12. 43: 2023/01/23
 51: A61K; A61P

71: Institute of Basic Medical Sciences of Chinese Academy of Medical Sciences

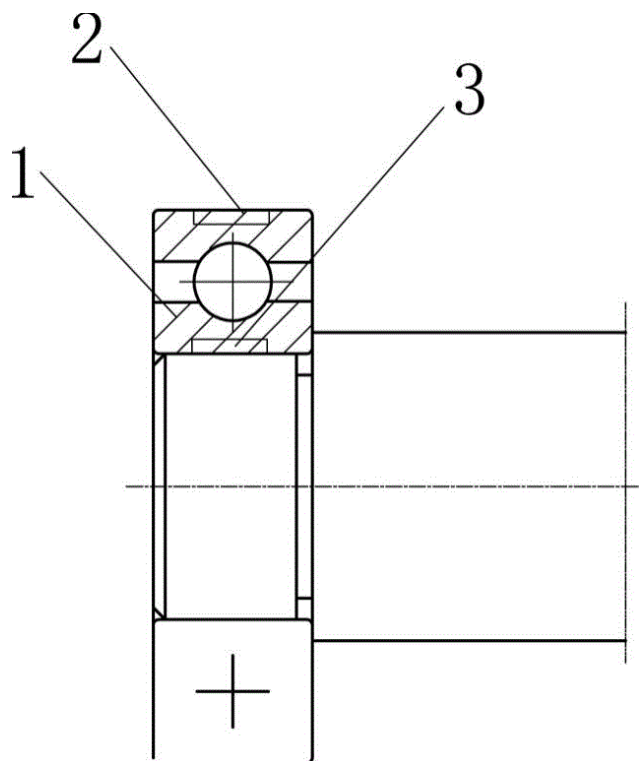
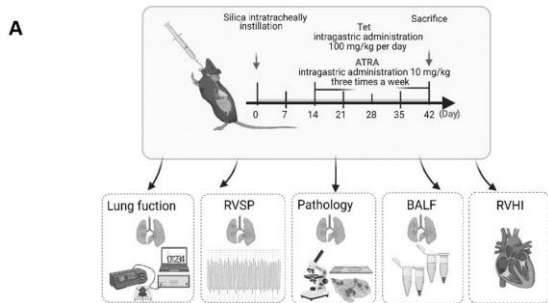
72: WANG, Jing, SONG, Meiyue, WANG, Jiaxin

33: CN 31: 202210524196.9 32: 2022-05-13

54: USE OF TETRANDRINE IN COMBINATION WITH ALL-TRANS RETINOIC ACID IN PREPARATION OF MEDICAMENT FOR TREATING PNEUMOCONIOSIS

00: -

The present disclosure provides use of tetrandrine in combination with all-trans retinoic acid (ATRA) in the preparation of a medicament for treating pneumoconiosis. The present disclosure uses a mouse model of silicosis for studying. Administration of ATRA in combination with tetrandrine to mice with silicosis can effectively alleviate the progression of silicosis: impaired cardiopulmonary functions of mice with silicosis are improved significantly, including inspiratory capacity, quasi-static compliance, and right ventricular pressure; concentrations of inflammatory factors IL-1B and IL-6 in bronchoalveolar lavage fluids of mice with silicosis decrease, and the number of inflammatory cells is reduced; levels of fibrosis factors FN-1 and Col-I decrease, fibrous foci are reduced, and pathological degree is alleviated. Moreover, combination therapy with ATRA in combination with tetrandrine shows a superiority of combined administration in terms of cardiopulmonary function, inflammation and fibrosis, and exhibits a better effect than administration of tetrandrine alone.



21: 2022/11149. 22: 2022/10/12. 43: 2023/01/23
51: G01M

71: Ningbo University of Finance & Economics, Zhejiang XCC Group Co., LTD, Ningbo Tianda Engineering Design Co., LTD

72: Zhang Yubin, Yu Chunlan, Yan Zhijuan, Wang Fengtao, Lai Huihui, Wang Huafeng, Zhu Huomei, Lv Huanpei

54: ONLINE INTELLIGENT BEARING MONITORING DEVICE WITH WIRELESS POWER SUPPLY

00: -

An online intelligent bearing monitoring device with wireless power supply belongs to the technical field of bearing monitoring. The invention comprises bearing, wireless sensing device, wireless power supply device and an online bearing health evaluation device, wherein the wireless sensing device and the wireless power supply device are arranged on the bearing, and the wireless power supply device is used for supplying power to the wireless sensing device and the online bearing health evaluation device; the online bearing health evaluation device comprises multi-parameter bearing monitoring controller and online bearing health evaluation model, wherein the multi-parameter bearing monitoring controller collects the bearing data monitored by the wireless sensing device in real time, and wirelessly transmits the data to the cloud monitoring platform, and then the online bearing health evaluation model analyzes and processes the data, and predicts the bearing fault in advance.

21: 2022/11150. 22: 2022/10/12. 43: 2023/01/24
51: E21D

71: Huainan Normal University, Anhui University of Science and Technology

72: DOU Litong, FU Qiang, LUO Xiangyao, YANG Ke, ZHOU Ruihong

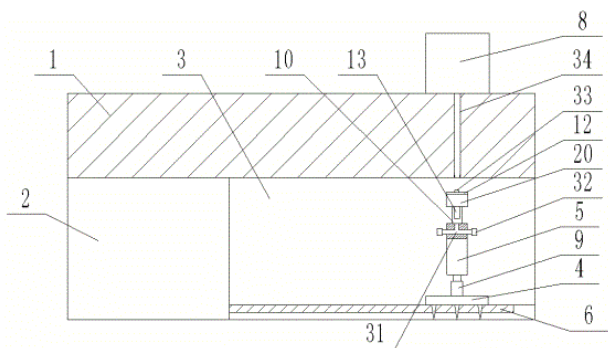
33: CN 31: 202210622830.2 32: 2022-06-02

54: MULTI RESOURCE COMPLEMENTARY COLLECTING DEVICE FOR MINE DEVELOPMENT

00: -

The present invention discloses a mine opening using a multi-resource complementary collection device, wherein the stratigraphic structure includes a surface layer and a mining layer, the mining layer is located at the bottom of the surface layer, and the mining layer is provided with a mining void layer; a support mechanism is provided in the mining void layer, and the support mechanism includes bases provided on both sides of the floor of the mining void layer, and two bases are provided with a retractable support frame on top, and a first support assembly is provided on the top surface of the support frame, and the first support assembly The energy reuse mechanism includes mine water reuse assembly and gas reuse assembly, one end of the mine water reuse assembly is connected with a flow channel, the flow channel is opened at the bottom of the

mining seam, the other end of the mine water reuse assembly is connected with a water storage tank, one end of the gas reuse assembly is connected with the mining seam, the other end of the gas reuse assembly is connected with a gas collection box, the invention can make the structure of the coal seam mining area more stable, and collect the gas and mine water in the coal seam mining area.



21: 2022/11151. 22: 2022/10/12. 43: 2023/01/24
 51: B01J
 71: Anhui Science And Technology University, Fuzhou University
 72: Xiangju Ye, Xincheng Wang

54: A FUNCTIONALIZED CARBON NITRIDE PHOTOCATALYST FOR SYNTHESIZING PHENOL BY CATALYTIC OXIDATION OF BENZENE

00: -
 The invention belongs to the technical field of material preparation and organic photo-synthesis, and particularly relates to a functionalized carbon nitride photocatalyst for synthesizing phenol by catalytic oxidation of benzene, its preparation method and application. The preparation method of the functionalized carbon nitride photocatalyst for synthesizing phenol by catalytic oxidation of benzene comprises the following steps: (1) dissolving cyanamide in commercial silica sol, the mass ratio of cyanamide to commercial silica sol is 1: 0-5, heating and stirring until the water is evaporated to dryness, obtaining the white solid, and heat treating the obtained white solid at 500-700°C for 1-10h under the protection of N₂, adding the heat-treated powder into NH₄HF₂ solution, stirring for 2 days, filtering, washing and drying to obtain yellow powder, namely mesoporous carbon nitride

for later use; (2) dispersing highly the prepared mesoporous carbon nitride in absolute ethanol, dropping slowly the ethanol solution of ferrocene formaldehyde into the above-mentioned solution through a constant-pressure funnel, and then carrying out the reflux reaction on the solvent at 40-100°C for 0.5-48h; after natural cooling, the functionalized carbon nitride photocatalyst is prepared by washing with absolute ethanol, centrifuging and drying. The invention applies functionalized carbon nitride to the field of organic photocatalysis for the first time, which has a large specific surface area and can effectively separate photo-generated carriers, and is a new photocatalyst; And the whole process of the invention is simple and easy to control, low in energy consumption, high in yield and low in cost, which meets the actual production needs and is conducive to large-scale popularization.

21: 2022/11153. 22: 2022/10/12. 43: 2023/01/26
 51: G01N
 71: National Institute for Nutrition and Health Chinese Center for Disease Control and Prevention
 72: YIN, Jiyong, HUO, Junsheng, SUN, Jing, LIU, Tingting, NIU, Jiangping
 33: CN 31: 202111213991 .8 32: 2021-10-19
54: METHOD FOR SIMULTANEOUS DETECTING MULTIPLE PROTEIN MARKERS OF NUTRITIONAL HEALTH CONDITION
 00: -

A method for simultaneously detecting multiple protein markers of nutritional health condition is provided. The detection method includes: binding of a target protein-specific antibody to magnetic beads demanded for an assay plate. The technical effects achieved by implementing the present invention are as follows: high-throughput detection on the protein markers capable of evaluating nutritional condition achieves the simultaneous and accurate detection of multiple protein markers capable of evaluating nutritional condition of a human body in a detection, thereby reducing system errors, improving systematic, comprehensive and accurate evaluation results of the nutritional condition of a human body and improving the detection efficiency. In the present invention, paraffin is applied onto the position of the film corresponding to each well during the step of "film pasting and oscillation". Moreover, the blocking

buffer and the sample diluent of the present invention can improve the overall detection efficiency.

21: 2022/11191. 22: 2022/10/13. 43: 2023/01/24
51: C04B

71: Beihua University
72: CHANG Guangli, QU Guanglei, YANG Xujiao, ZHAI Xiaomeng

54: PERMEABLE CONCRETE AND PREPARATION METHOD THEREOF

00: -
The invention discloses permeable concrete and a preparation method thereof, belonging to the technical field of concrete. The raw materials of the permeable concrete include, by weight, 400-450 parts of cement, 1300-1400 parts of coarse aggregate, 70-100 parts of fine aggregate, 15-20 parts of polyvinyl alcohol fiber, 25-30 parts of pore-forming agent, 17-25 parts of early strength agent, 20-30 parts of adhesive, 140-180 parts of water and 10-15 parts of water reducing agent. According to the invention, cement and coarse aggregate are used as main raw materials to prepare water-permeable concrete, and by adding a small amount of fine aggregate and adhesive into the raw materials, the obtained concrete not only has water permeability, but also remarkably improves the bonding strength between the raw materials; at the same time, a small amount of pore-forming agent and early strength agent are added into the concrete raw material of the invention, and by adjusting the proportion of the pore-forming agent and the early strength agent with fine aggregate, cement and coarse aggregate, the obtained concrete has proper porosity and the mechanical properties are obviously improved.

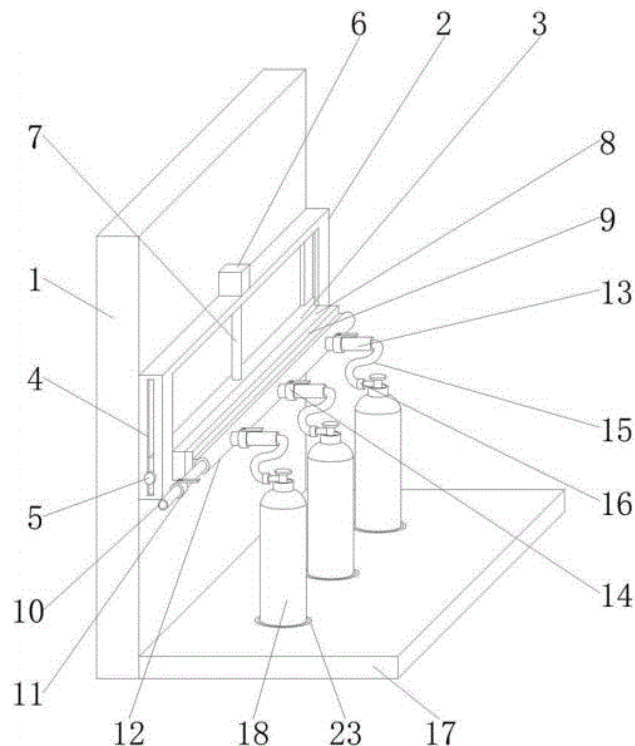
21: 2022/11192. 22: 2022/10/13. 43: 2023/01/24
51: F17C

71: Tengzhou Xiangrun Chemical Co., Ltd.
72: Zedong Ren, Zepeng Ren

54: A PURGE JOINT FOR A LIQUID AMMONIA CYLINDER FILLED WITH NITROGEN

00: -
The invention discloses a nitrogen gas purging joint for liquid ammonia cylinder, which comprises a regulating mechanism and a protective mechanism. The regulating mechanism comprises a wall, a motor

connecting shell, a second chute and a telescopic rod, and the wall is fixedly connected with the first chute. The first chute is slidingly connected with the first slider, the motor connecting shell is fixedly connected with the first chute, and the motor connecting shell is fixedly connected with the motor. The motor is fixedly connected with the lead screw, the second chute is fixedly connected with the first slide block, and the second chute is slidingly connected with the second slide block. The first expansion rod is fixedly connected with the second chute, and the number one expansion rod is fixedly connected with the second slider. The height of the first slide block is fixed by tightening the fixing knob, the position of the fixed stable member on the surface of the first slide block is fixed, and the protection is carried out. At the same time, the fixed member on the surface of the fixed plate is protected by the telescopic rod and the telescopic deformation of the spring.



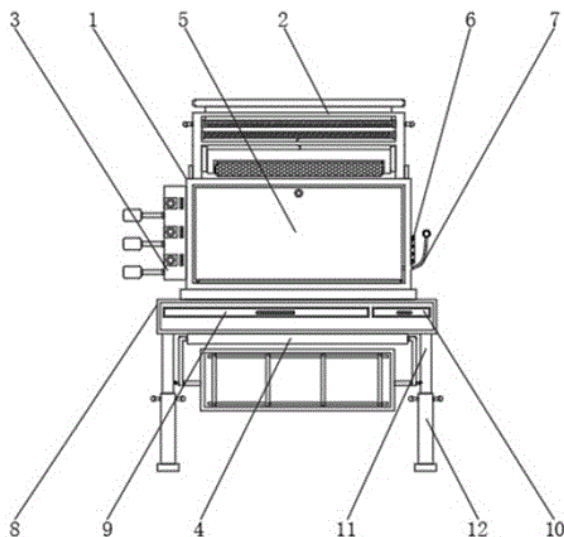
21: 2022/11193. 22: 2022/10/13. 43: 2023/01/24
51: G09B

71: Hebei University
72: Siqi Shi, Fan Lu

54: ANCIENT LITERATURE REMOTE EDUCATION AND TEACHING DEVICE

00: -

The invention discloses an ancient literature remote education and teaching device. The ancient literature remote education and teaching device comprises an education and teaching device main body, wherein a line classification and arrangement mechanism are arranged on the outer surface of one side of the education and teaching device main body. Through a cleaning dust-proof mechanism, a display screen on the teaching device can be cleaned. When the education and teaching device is not in use, dust can also be prevented from falling on the display screen, and the display screen can be kept clean and tidy. Through the line classification and arrangement mechanism, data lines on the teaching device can be classified and arranged to prevent disorder and facilitate maintenance of people. Moreover, over-long lines can be stored to bring convenience for people to use. Through a placement mechanism, teaching programs of literature textbooks can be placed for watching, so that teachers can carry out distance teaching according to the program content; the teaching content can become more comprehensive and systematic; and the teaching quality can be improved. Through a clamping protection mechanism, a microphone can be prevented from being blocked by dust, and the communication quality can be ensured.



21: 2022/11194. 22: 2022/10/13. 43: 2023/01/24
 51: C04B
 71: Beihua University

72: CHANG Guangli, LI Kexin, YANG Xujiao, XU Zhibo, ZHAI Xiaomeng

54: ANTI-CRACKING CONCRETE AND PREPARATION METHOD THEREOF

00: -
 The invention discloses an anti-cracking concrete and a preparation method thereof, belonging to the technical field of building materials. The anti-cracking concrete of the invention comprises the following components in parts by weight: 150 parts of water; 300-482 parts of cement; 50-66 parts of fly ash; 10-15 parts of desulfurized gypsum; 530-620 parts of sand; 1,060-1,110 parts of crushed stone; 10-15 parts of paraffin; 5-10 parts of mesoporous silica; 2-5 parts of sepiolite-poly(lactic acid) composite fiber; 2-4 parts of superplasticizer. According to the invention, the dosage of cement is reduced by adding fly ash and desulfurized gypsum, the hydration heat temperature inside the concrete is controlled by using the phase change process of paraffin, the added sepiolite-poly(lactic acid) composite fiber is matched with mesoporous silica, etc., and all raw materials act together to improve the crack resistance of the concrete. And by adopting the step-by-step preparation method, the process is simple, various conditions are easy to control, and the method is suitable for mass production.

21: 2022/11195. 22: 2022/10/13. 43: 2023/01/26
 51: A62D

71: Southwest University of Science and Technology, Tianfu New District Institute of Research and Innovation, Southwest University of Science and Technology

72: Wei Zhang, Li Tian, Kaibin Fu, Gang Tao, Wei Cha, Guiqi Bai, Shu Chen

54: A NEW COMPOSITE MATERIAL FOR SLOW RELEASE AND LONG-TERM RETENTION OF HEAVY METALS IN SMELTING SLAG

00: -
 The invention discloses a new composite material for slow release and long-term retention of heavy metals in smelting slag and its preparation method. The composite material is composed of 1-10% composite bacterial agent, 1-10% cross-linking agent and 80-98% carrier material. In the preparation process, the highly effective curing/stabilizing heavy metal bacterial agent was firstly screened, and the cross-linking agent gel was

used as scaffold to load microbial nutrients. Then the porous material was used as the substrate to hang biofilms, and the functional microbial sustained-release material and nutrient sustained-release material were mixed to obtain the biofilms. The material of the invention can effectively solidify/stabilize the heavy metals in the smelting slag, and the effect is durable, and has broad market application prospects.

21: 2022/11196. 22: 2022/10/13. 43: 2023/01/26
51: G06Q

71: Xiamen University of Technology

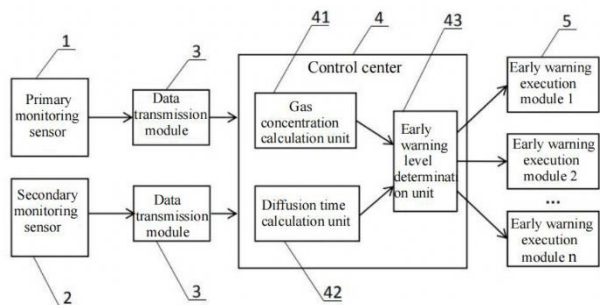
72: ZHENG, Yuanmao, HE, Yuanrong, CAI, Xiaoying, CHAI, Chunfang, NIE, Dewei

33: CN 31: 202122467703.3 32: 2021-10-13

54: PETROCHEMICAL PARK SAFETY EARLY WARNING SYSTEM

00: -

The control center includes a gas concentration calculation unit, a diffusion time calculation unit and an early warning level determination unit. The gas concentration calculation unit calculates the leakage gas concentration at the primary and secondary monitoring sensors and sends the received data to the early warning level determination unit. The diffusion time calculation unit calculates the time of diffusion of the leaked gas from the secondary monitoring sensor to the ignition source according to the received data and sends the received data to the early warning level determination unit. The early warning level determination unit determines the early warning level according to the concentration of the leaked gas received and the time of diffusion to the ignition source, and sends the early warning signal to the corresponding early warning execution module according to the different early warning levels.



21: 2022/11197. 22: 2022/10/13. 43: 2023/01/24
51: A01N; A23B; C12N; C12R

71: Mingzhiyuan (Hangzhou) Biological Technology Co., Ltd

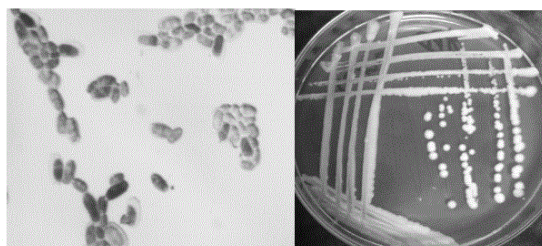
72: Shengli Geng

33: CN 31: 202111198135.X 32: 2021-10-14

54: A YEAST AND LACTIC ACID BACTERIA COMBINATION

00: -

The invention discloses a yeast and lactic acid bacteria combination, comprising saccharomyces and lactic acid bacteria; wherein the saccharomyces comprise *Candida ethanolica* B-JJ1, and the lactic acid bacteria comprise at least one of *Lentilactobacillus buchneri* B-JR1, *Lactobacillus paracasei* B-JR2, *Lactobacillus zeae* B-JR4, *Lactobacillus plantarum* B-JR5 and *Lactobacillus chiayiensis* B-JR6. The yeast and lactic acid bacteria combination is obtained by the processes of inoculum extraction, strain inoculation, combined bacteria optimization and combined bacteria domestication. The fermentation of the yeast and lactic acid bacteria combination provided by the invention can be adopted to prepare bio-enzyme preparation. And the prepared bio-enzyme preparation can be adopted to prepare natural, green, additive-free preservatives with strong antioxidant properties that maintain the activity of plant and animal cells.



21: 2022/11198. 22: 2022/10/13. 43: 2023/01/24
51: B01J

71: Shanghai Fenge Information Technology Co., Ltd, North China University of Water Resources and Electric Power

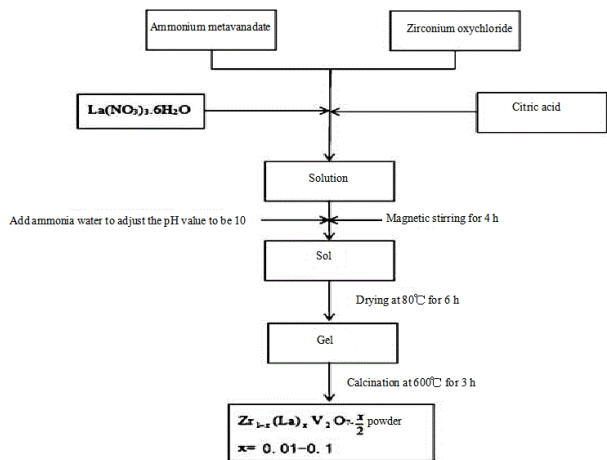
72: Ji ZheYang, Chen Xi, Li WeiJie, Xing Yan, Tong YuPing, Wu Yi, Li NingNing

54: PREPARATION METHOD OF NOVEL VANADATE PHOTOCATALYTIC MATERIAL

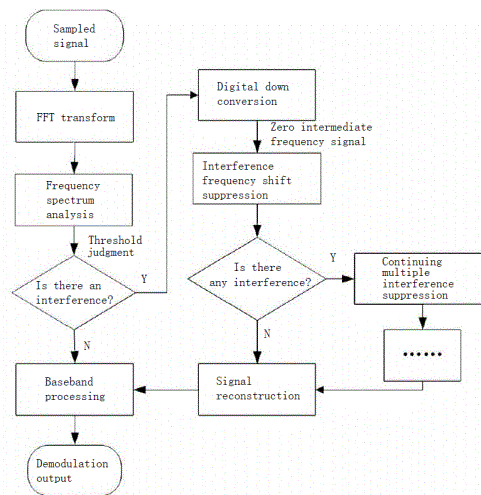
00: -

The invention discloses a preparation method of a novel vanadate photocatalytic material, belonging to

the technical field of photocatalytic material preparation. In the preparation method, ammonium metavanadate and zirconium oxychloride are used as raw materials, rare earth element lanthanum as lanthanum nitrate, citric acid as cementing agent, and $Zr_{1-x}La_xV_2O_7-x/2$ powder is prepared by a solgel calcination method, wherein x is within the range of 0.01-0.1. According to the preparation method, a novel vanadate compound is prepared by a rare earth element doping method and a sol-gel method. The photocatalytic efficiency of zirconium vanadate doped with rare earth element lanthanum is improved, and the degradation ability to pollutants is obviously improved compared with that of pure vanadate without doping.



orthogonal demodulation on the sampled intermediate frequency signal, retaining only a positive frequency component of a sampled intermediate frequency bandpass signal, and converting the same to obtain a baseband signal; step 4, performing frequency spectrum shifting on the baseband signal, shifting a first interference point to a zero frequency, and filtering out interference frequency spectrum components; step 5: repeating the operations of step 4; step 6, converting the signal processed by interference suppression into a real signal; and step 7, performing a demodulation output by a baseband processing module.



21: 2022/11210. 22: 2022/10/13. 43: 2023/01/24
51: H04B; H04L

71: JIMEI UNIVERSITY

72: CHEN, Hongyu, WANG, Yichun, JIANG, Desong, LI, Tiejun, LIN, Anhui, CAI, Yan, WANG, Xinxiang

54: NOVEL DIGITAL ZERO INTERMEDIATE FREQUENCY ADAPTIVE NOTCH FILTERING METHOD BASED ON FPGA

00: -

The invention discloses a novel digital zero intermediate frequency adaptive notch filtering method based on an FPGA, comprising: step 1: transforming a sampled intermediate frequency signal into a frequency domain; step 2, performing frequency spectrum statistic analysis and threshold decision; step 3, if there is no interference, turning to step 7; if there is an interference, performing

21: 2022/11211. 22: 2022/10/13. 43: 2023/01/24
51: B29B

71: Dongguan Bingneng Rubber Co., Ltd.

72: DENG, Fusu, ZHANG, Zhuo, DENG, Haijun, DENG, Fushui, HU, Wensheng

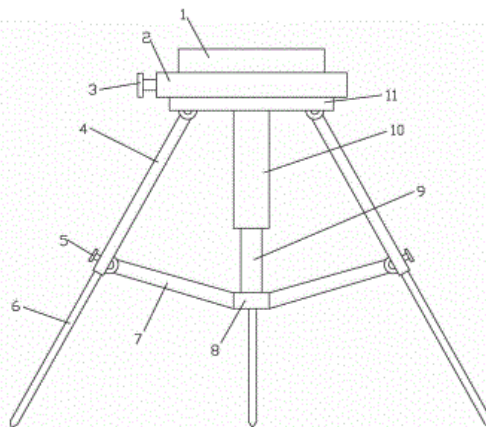
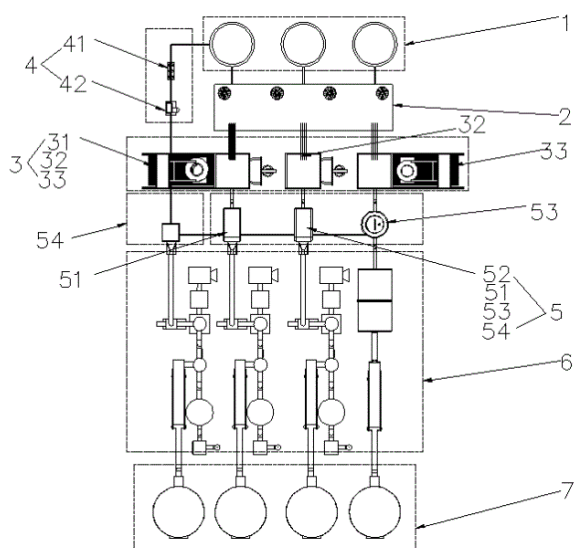
54: ULTRAHIGH-PRESSURE WATER JET TECHNOLOGY BASED SYSTEM FOR COMPREHENSIVELY PROCESSING WASTE TIRE

00: -

The present invention relates to the field of mechanical apparatuses, in particular to an ultrahigh-pressure water jet technology based system for comprehensively processing a waste tire. The system includes: a water tower mechanism, a water jet cutter mechanism connected to the water tower mechanism, a processing workstation connected to the water jet cutter mechanism, a water recycle mechanism connected to the

processing workstation and the water tower mechanism, a rubber powder wet screening machine mechanism connected to the processing workstation, a dryer mechanism connected to the rubber powder wet screening machine mechanism, and a rubber powder storage tower mechanism connected to the dryer mechanism. The present invention has a reasonable layout, saves a plant space, improves production efficiency, and has the characteristics of a high wastewater utilization rate, zero pollution, etc.

table are connected by the guide mechanism, and the synchronous unfolding and folding of the three folding legs can be completed by pushing and pulling the connecting seat at the bottom of the guide mechanism, thereby facilitating the erecting and folding of the surveying and mapping frame, so as to achieve a portable technical effect.



21: 2022/11212. 22: 2022/10/13. 43: 2023/01/24
 51: F16M
 71: Henan University of Urban Construction
 72: SHEN, Hongtian, MA, Guimin, LI, Yuwei, WANG, Tong, HOU, Jialin, ZHU, Xiaofei

54: PORTABLE BUILDING SURVEYING AND MAPPING FRAME

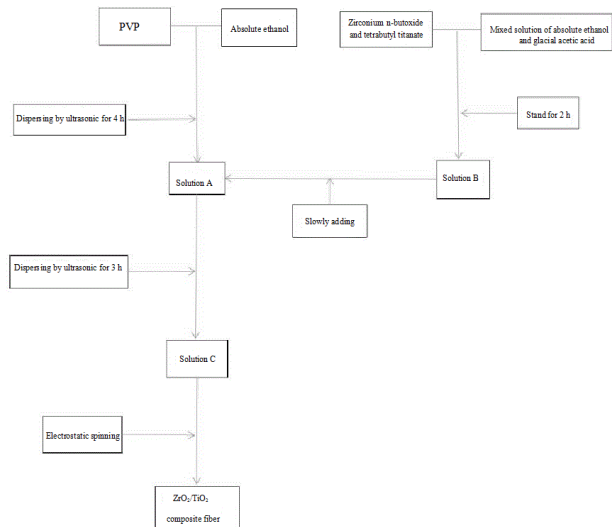
00: -
 The invention discloses a portable building surveying and mapping frame, and relates to the technical field of surveying and mapping frames, comprising a support table, wherein the bottom of which is uniformly provided with three folding legs in the circumferential direction, the center of the bottom of which is provided with a guide mechanism, and the bottom of the guide mechanism is connected to the folding legs by a connecting rod. According to the portable building surveying and mapping frame of the invention, the three folding legs and the support

21: 2022/11213. 22: 2022/10/13. 43: 2023/01/24
 51: B01J
 71: Shanghai Fengle Information Technology Co., Ltd
 72: Ji ZheYang, Chen Xi, Li WeiJie, Xing Yan, Chen Xiao, Wu Yi, Zhang ChenXi

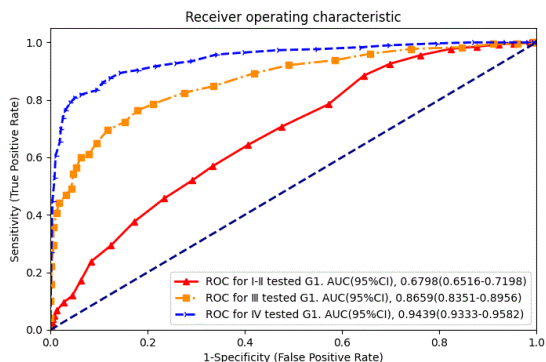
54: PREPARATION METHOD OF ZRO2 AND TIO2 COMPOSITE FIBER MATERIAL

00: -
 The invention provides a preparation method of ZrO₂/TiO₂ composite fiber material, belonging to the technical field of preparation of high-temperature resistant and heat-insulating composite fiber materials. In the preparation method, absolute ethanol is used as the main solvent, glacial acetic acid is used as the neutralization solvent, polyvinylpyrrolidone is used as the main high-molecular viscosity raw material, and zirconium n-butoxide and tetrabutyl titanate are used as the main solutes. ZrO₂/TiO₂ composite fiber materials are prepared by proper electrostatic spinning and high-temperature calcination at 1000C and 1250C respectively. TiO₂ fiber itself is not high-temperature resistant, but after being compounded with ZrO₂ fiber, the fiber can withstand a high temperature of about 1000C, thus improving the high-temperature

resistance of the TiO₂ fiber. ZrO₂ fiber itself is a very high-temperature resistant fiber, and after being compounded with the infrared shielding property of TiO₂ fiber, it can also become high-temperature resistant.



coagulation indicators, tumor markers and immune function, to improve the sensitivity and specificity of the single index prediction model.



21: 2022/11214. 22: 2022/10/13. 43: 2023/01/24
 51: G06K
 71: Chongqing university cancer hospital, Xu linqun
 72: Xu linqun, Lu songmei

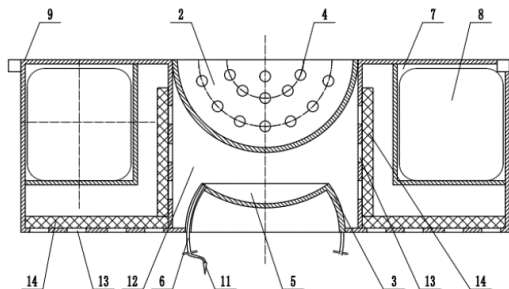
54: A METHOD OF CONSTRUCTING THE LUNG CANCER RISK PREDICTION MODEL BASED ON THE PERIPHERAL BLOOD MARKERS.

00: -
 This invention discloses a method of constructing the lung cancer risk prediction model based on the peripheral blood markers. Steps: 1) Collect 27 indexes, including WBC, neutrophil absolute value, hemoglobin, lymphocyte absolute value, platelet count, albumin, prealbumin, globulin and alkaline phosphatase in liver function in the peripheral blood routine, sodium, chlorine and iron ions in electrolyte, fibrinogen and D-dimer in the tumor marker, CA125, CEA, cyfra21-1, SCC, CD4+, CD8+, B, NK lymphocytes and total lymphocyte counts in the immune function and the age; 2) Conduct the modeling on the peripheral blood test index of the lung cancer patients and the patients (G1) with benign pulmonary diseases based on the machine learning. This model has the high sensitivity and specificity; This model combines with the inflammatory indicators, nutritional indicators,

21: 2022/11215. 22: 2022/10/13. 43: 2023/01/24
 51: E02B
 71: Henan University of Urban Construction
 72: ZHANG, Wenjun, WEI, Wei, XU, Jingsheng, MA, Guimin, HOU, Jialin

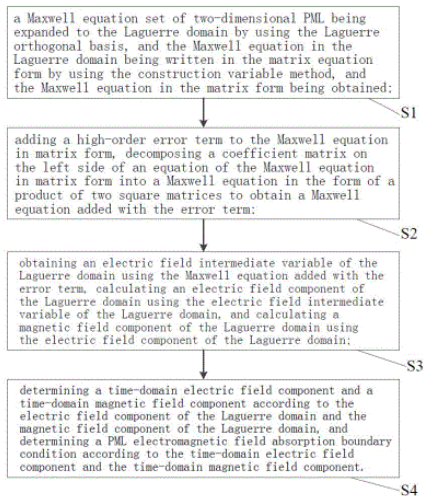
54: WETLAND ECOLOGICAL RESTORATION DEVICE

00: -
 The invention discloses a wetland ecological restoration device of the invention, comprising a planting unit, the planting unit comprising a planting plate, a water storage disc, a buoyancy bin and a housing, wherein the planting plate has a planting pit site, the water storage disc has a water storage cavity and a water absorbing element, and the buoyancy bin can be used for placing a floating body. When the wetland water level is high, the device can float on the water surface by utilizing the floating body in the buoyancy bin. When the water level of the wetland is low, the water absorbing element in the side wall of the water storage disc extends into the soil of the wetland, absorbs water, and transfers the water into the water storage cavity.



21: 2022/11216. 22: 2022/10/13. 43: 2023/01/24
 51: G06F
 71: Shanghai Material Industry Development Co., Ltd.
 72: GU, Yuan, ZHANG, Biqing, ZHOU, Yi, XUE, Yan
54: PML ELECTROMAGNETIC FIELD ABSORPTION BOUNDARY CALCULATION METHOD AND SYSTEM BASED ON FDTD
 00: -

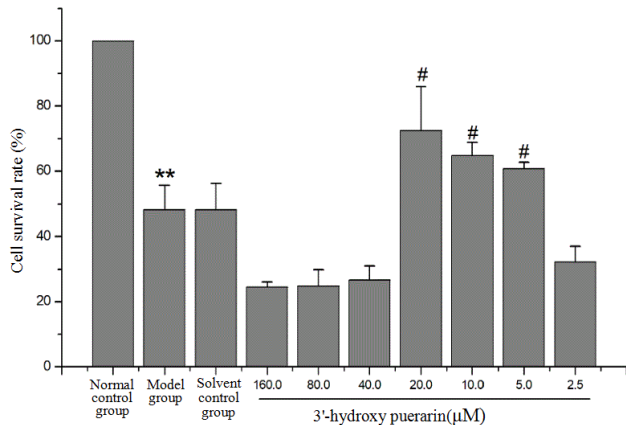
The present application relates to a PML electromagnetic field absorption boundary calculation method and system based on FDTD, comprising: a Maxwell equation of Laguerre domain being written in the matrix form, adding a high-order error term to the equation in matrix form, obtaining an electric field intermediate variable of the Laguerre domain by using an equation added with the error term, and successively calculating a Laguerre coefficient of an electric field component of the Laguerre domain and a Laguerre coefficient of a magnetic field component of the Laguerre domain, and determining the PML electromagnetic field absorption boundary condition by determining the time-domain electric field component and the time-domain magnetic field component according to the Laguerre coefficient of the electric field component of the Laguerre domain and the Laguerre coefficient of the magnetic field component of the Laguerre domain. The present application improves the efficiency of the absorption boundary calculation.



21: 2022/11217. 22: 2022/10/13. 43: 2023/01/24
 51: A61K
 71: Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences
 72: ZHANG Fangbo, LI Yu, GUO Nan, SONG Jianfang, YANG Hongjun

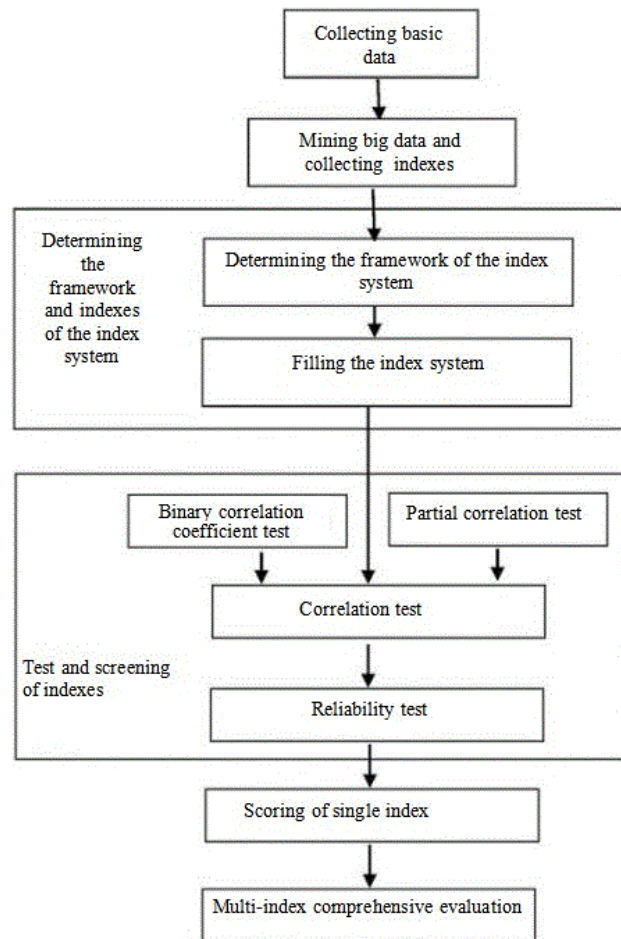
54: APPLICATION OF 3'-HYDROXY PUERARIN IN PREPARING NEUROPROTECTIVE MEDICINES
 00: -

The invention discloses an application of 3'-hydroxy puerarin in preparing neuroprotective medicines, and relates to the technical field of biomedicine. The invention claims the application of 3'-hydroxy puerarin in preparing neuroprotective medicines. According to the invention, an oxygen and glucose deprivation (OGD) PC12 cell injury model is constructed, and through the evaluation of inflammation, oxidative stress, apoptosis and other related indexes, it is proved that 3'-hydroxy puerarin has an obvious protective effect on ischemic and hypoxic nerve cells, and can be used for preparing neuroprotective medicines.



21: 2022/11218. 22: 2022/10/13. 43: 2023/01/24
 51: G06Q
 71: Beijing Kedong Electric Power Control System Co. Ltd., Beijing Power Trading Center Co. Ltd., North China Electric Power University
 72: SHI Shuhong, GAO Chuncheng, XUE Ying, LIU Dunnan, TAO Li, YUAN Mingzhu, YIN Xuan, WANG Haining, WANG Qingbo, ZHANG Xian, LIU Yonghui, LIU Jie, ZHENG Shiqiang, YANG Ning, JI Shijie, CHANG Xin, LYU Jingwei, TAN Hao, ZHANG Yali, HU Wanli, WANG Lei, LI Ruixiao, DONG Wujun, FANG Yin, ZHANG Qian, LI Shoubao, XI Peiyu
54: QUANTITATIVE ANALYSIS METHOD OF ELECTRIC POWER MARKET INDEX SYSTEM
 00: -

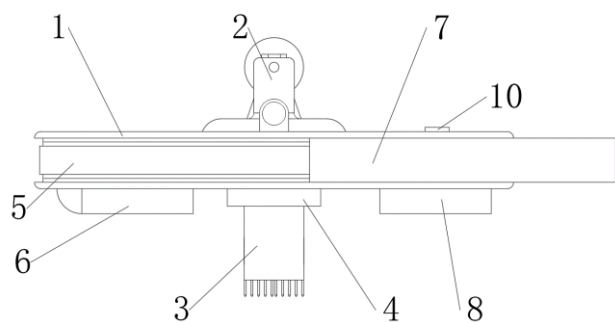
A quantitative analysis method of electric power market index system, step 1: collecting basic data related to electric power market and power industry; step 2: mining big data; step 3: determining the framework and indexes of the index system; step 4: checking and screening the indexes; step 5: scoring a single index; step 6: multi-index comprehensive evaluation. According to the invention, a set of electric power market evaluation index system and evaluation method are constructed through the test and screening of indexes, single index and multi-index evaluation and analysis, and the electric power market is quantitatively analyzed by a scientific method, which provides scientific guidance for various market participants, market operation and supervision departments to conduct market analysis.



21: 2022/11219. 22: 2022/10/13. 43: 2023/01/24
 51: G01N
 71: Ecological Environment Monitoring Center Of Pingliang, Gansu Province
 72: JU BO, ZUO LI
54: SAMPLING DEVICE FOR ECOLOGICAL ENVIRONMENT MONITORING OF RESERVOIR AND METHOD USING THE SAME
 00: -

The invention relates to the technical field of ecological environment monitoring, in particular, to a sampling device for ecological environment monitoring of reservoir and a method using the same. The device includes a mobile carrier, an automatic rewinding module and a balance monitoring module. The balance monitoring module is mounted in the mobile carrier, a center of the mobile carrier is mounted with an automatic rewinding module for recovering and releasing wires, and one end of a connecting wire outside a wire winding reel of the automatic rewinding module is connected with a sampling module. An outer side of

the sampling module is provided with a protective cover for protection, and a top portion of the protective cover is fixedly connected with the mobile carrier. In the invention, through the provisions of the automatic rewinding module, the sampling module and a power module, the power module provided is used to ensure that the equipment can be controlled from a long distance when the equipment is paddling in the water to sample a water body in a center of the reservoir, so that the economic cost is reduced, and the safety hazard of capsizing the boat due to the monitoring staff leaning over to get water is eliminated.



21: 2022/11222. 22: 2022/10/13. 43: 2023/01/24
51: F16L

71: Sichuan Petroleum and Natural Gas Science and Technology Corporation

72: CHEN, Lifeng, CHEN, Weisheng, CHEN, Wei, CHENG, Weichuan

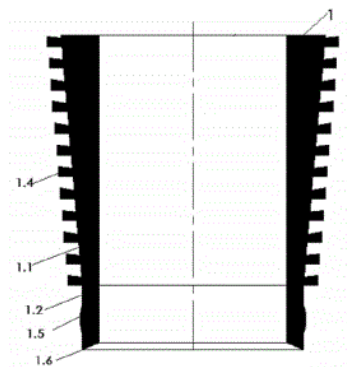
33: CN 31: 202210263628.5 32: 2022-03-17

54: HIGH-PRESSURE CONNECTING AND SEALING STRUCTURE FOR HYDROGEN GAS STORAGE WELL

00: -

The present invention discloses a high-pressure connecting and sealing structure for a hydrogen gas storage well, comprising a male end button and a female end button mated with the male end button. An outer wall of the male end button comprises a first connecting section and a second connecting section from top to bottom. The first connecting section is provided with a connecting screw thread in the circumferential direction. The second connecting section is provided with a first sealing protrusion in the circumferential direction. The second connecting section is further provided with a plug-in portion at a lower end. An inner wall of the female end button comprises, from top to bottom, a first mating section and a second mating section. The first mating section is provided with a mating screw thread in the

circumferential direction mated with the connecting screw thread.



21: 2022/11223. 22: 2022/10/13. 43: 2023/01/26
51: G09B

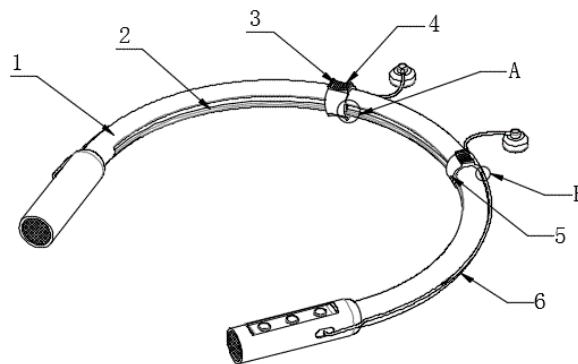
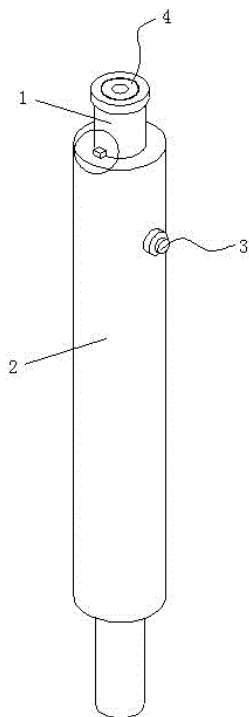
71: Tonghua Normal University

72: Yan Ren, Qingling Zhang, Yanyan Zhang, Shuaichen Jin, Xiaowei Jin, Sheng Ren

54: AN ENGLISH TEACHING POLE WITH AN LED LIGHT

00: -

The invention discloses an English teaching pole with an LED lamp, which belongs to the technical field of teaching appliances. It comprises an English teaching pole, the side of the English teaching pole is provided with an adjusting component, the inner part of the English teaching pole is embedded with an extension rod, and the top part of the extension rod is embedded with a switch component. By setting the adjusting component, the invention externally pulls the positioning rod so that it is disconnected from the positioning slot, and then the extension rod can be pulled out from the inside of the English teaching pole to adjust the length. Under the spring elastic force, the positioning rod and the required positioning slot can be clamped to complete the length adjustment and fixation, which can make the length adjustment effect of the device better and the service life longer; By setting the switch component, the rotating ring can make the thread holder move up, and the control head will touch the top of the inner slot in the process of the thread holder moving up. Retraction of the control head into the thread seat can make the internal button of the control mechanism move so that the LED light can be energized and continuously lit to guide students, which can make the use of the device better.



21: 2022/11224. 22: 2022/10/13. 43: 2023/01/27
51: H04R

71: Tonghua Normal University
72: Yan Ren, Qingling Zhang, Yanyan Zhang, Shuaichen Jin, Xiaowei Jin, Sheng Ren

54: A ADJUSTING STRUCTURE AND AN ENGLISH LISTENING PRACTICE HEADSET

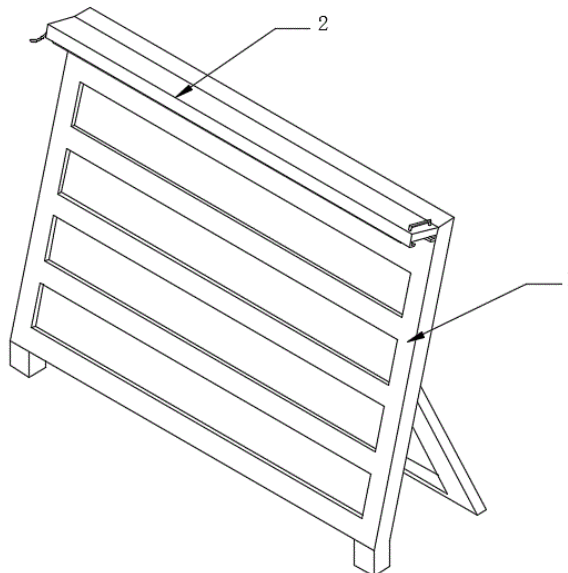
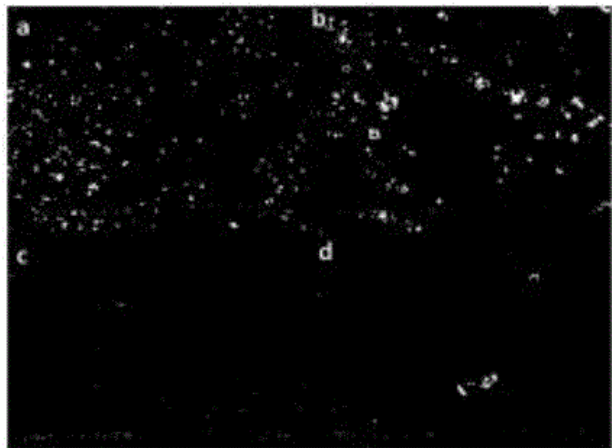
00: -
The invention relates to the technical field of earphone, in particular to a adjusting structure and an English listening practice earphone. It includes: the surface of the limit ring is provided with a push block, and the surface of the limit ring is provided with a finite slot; The limit block is arranged on the surface of the limit ring, and the surface of the limit block is provided with a rubber strip; The surface of the earphone body is provided with a guide slot; The beneficial effect is: After moving the limit loop inward to a personal comfortable distance, tap the headphone cord so that the excess cord fits on the surface of the neck hanger. So as to effectively avoid the phenomenon of the earphone wire falling when the earphone body is in use, and effectively reduce the gravity generated by the earphone wire to the earphone head, make the earphone head more stable in the ear, and effectively improve its wearing effect.

21: 2022/11225. 22: 2022/10/13. 43: 2023/01/24
51: C08L

71: Anhui Polytechnic University
72: YAN Hongqin, LI Wei, WANG Yu, ZHU Minhui, WANG Mengran, SHAO Zhihao, BAO Genfu, FAN Bingbing, HAO Jiazheng

54: CHITOSAN-STARCH COMPOSITE FILM, PREPARATION METHOD AND APPLICATION THEREOF

00: -
The invention discloses a chitosan-starch composite film, its preparation method and application, relates to the technical field of polymer film materials. Firstly, chitosan is dissolved in acetic acid solution for modification, and the nitrogen atom of free amino group on the molecular chain of chitosan has a pair of unshared electrons, which is easy for H⁺ in acetic acid to combine, so that chitosan becomes polyelectrolyte with positive charges, and the solubility of chitosan is increased. Then, esterified starch is gelatinized. After the starch is esterified and modified, the hydroxyl groups in the molecules are replaced by ester groups, which weakens the interaction between molecules and improves the solubility of chitosan. Finally, the chitosan-starch composite film was prepared by blending method combined with scraping coating-constant temperature and humidity drying method, and preparation method is simple. Chitosan-starch composite film has specific biodegradability, and the degradation products are pollution-free, nontoxic and harmless to the environment. It can be used as food packaging film, and can also be used in medicine as disposable medical packaging products.



21: 2022/11226. 22: 2022/10/13. 43: 2023/01/24
51: G09B

71: Tonghua Normal University
72: Yan Ren, Qingling Zhang, Yanyan Zhang,
Shuaichen Jin, Xiaowei Jin, Sheng Ren

54: AN ILLUMINATION STRUCTURE AND AN ENGLISH WORD SPELLING BOARD

00: -
The invention relates to the technical field of a spelling board, in particular to an illumination structure and an English word spelling board, including: The limiting groove is arranged in the inside of the limiting shell, the surface of the limiting groove is provided with a positioning groove, and the limiting groove is provided with a lamp tube; The regulating groove is arranged inside the limiting shell, and the regulating groove is provided with a baffle plate, the surface of the baffle plate is provided with a positioning column, the positioning column through the regulating groove, and the positioning column is arranged in the limiting groove; The limit shell is fixed above the surface of the English word spelling board body; The beneficial effect is: pull the connecting plate upward so that it drives the adjusting rod to move up, and the positioning column moves synchronously with the adjusting rod when it moves up. When the positioning column moves to the regulating groove, the limit of the lamp can be lifted, then the tube can be pulled out from the limit shell to complete the disassembly process, and then the maintenance, the disassembly of the lamp is relatively simple, conducive to the improvement of work efficiency.

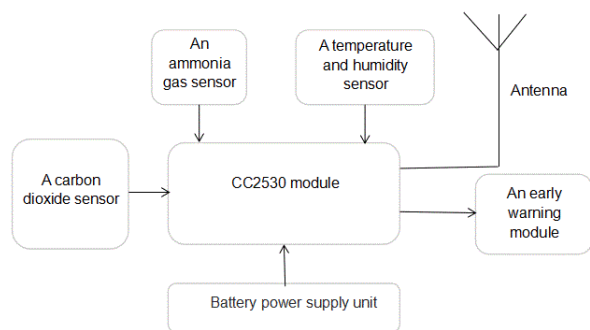
21: 2022/11227. 22: 2022/10/13. 43: 2023/01/24
51: G06Q

71: Bohai University
72: E Xu, Shi Meiling, Zhao Shenghui, Yang Fang,
Zhou Jin, Li Jianrong, Li Xuepeng, Gai Runqing,
Wang Yang, Jiang Peiyuan

54: A DYNAMIC MONITORING AND EARLY WARNING METHOD OF AQUATIC PRODUCTS CORRUPTION IN COLD CHAIN TRANSPORTATION

00: -
The invention belongs to the field of aquatic products cold chain transportation monitoring, in particular to a dynamic monitoring and early warning method of aquatic products corruption in cold chain transportation, which comprises the following steps: (1) collecting aquatic products environmental parameter in a cold chain transport vehicle through a temperature and humidity sensor, a carbon dioxide sensor and an ammonia gas sensor, and sending the aquatic products environmental parameter data to an Internet of things cloud platform; (2) pretreating the aquatic products environmental parameter data, generating a new time series t-1, merging data, completing data conversion, and realizing the conversion from time series to supervised learning; (3) using long-term and short-term memory network to train aquatic products environmental parameter data to generate an ammonia gas prediction model; (4) using the ammonia gas prediction model to predict the value of ammonia gas quantity. The

invention has high prediction accuracy and is insensitive to abnormal values.



21: 2022/11231. 22: 2022/10/13. 43: 2023/01/24
 51: A61K
 71: West China Hospital of Sichuan University
 72: Xiaofeng Zheng, Xiaojiong Du, Chengshi Wang, Yanrong Lu

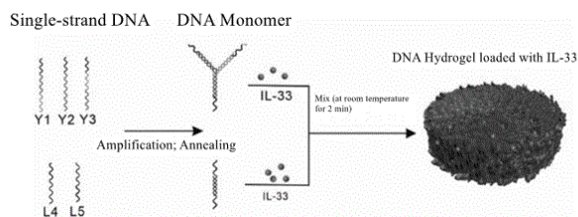
54: APPLICATIONS OF ADIPONECTIN MODIFIED ISLET CELLS IN IMPROVEMENT OR ENHANCEMENT OF ISLET TRANSPLANTATION

00: -
 The invention relates to the field of biological medicines, and in particular, to applications of adiponectin modification to enable islet cells to have antioxidant and/or anti-inflammatory characteristics and applications of adiponectin modification of the islet cells in improvement or enhancement of islet transplantation. The islet cells are subjected to adiponectin modification before islet transplantation, so that the islet cells overexpress adiponectin. The islet cells have the characteristics of oxidation resistance and inflammation resistance. Therefore, islet transplantation results are improved. During gene therapy, the islet cells are decomposed into single cells, so that the infection efficiency of viruses is greatly improved. After the gene therapy, the single cells are re-cultivated into functional cell clusters, so that pancreas islet functions are greatly reserved.

21: 2022/11232. 22: 2022/10/13. 43: 2023/01/24
 51: A61K
 71: West China Hospital of Sichuan University
 72: Xiaofeng Zheng, Chengshi Wang, Wei Li, Zhenghao Wang

54: PREPARATION METHOD OF DNA HYDROGEL LOADED WITH IL-33 AS WELL AS PRODUCT AND APPLICATION OF DNA HYDROGEL LOADED WITH IL-33

00: -
 The invention discloses a preparation method of IL-33-loaded DNA hydrogel as well as a product and application of the IL-33-loaded DNA hydrogel, and belongs to the field of pharmaceutical preparations. The invention aims to provide the preparation method of the IL-33-loaded DNA hydrogel with a simple preparation process, and the product has slow release, anti-oxidation and self-degradation capabilities when being applied to wound healing. According to the technical scheme, the preparation method of the DNA hydrogel loaded with the interleukin IL-33 comprises the following steps: S1) preparing materials; S2) dissolving; S3) constructing a Y monomer and a L monomer; and S4) incubating and mixing.

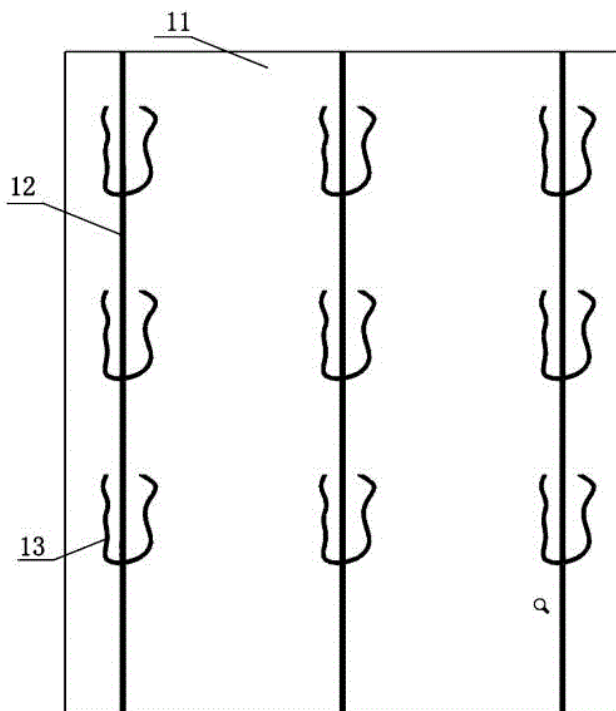


21: 2022/11233. 22: 2022/10/13. 43: 2023/01/24
 51: E21D
 71: China Railway Material Trade Group Kunming Co., Ltd.

72: Jianpeng Fu, Jianguo Wan, Yingjun Yan, Hua Feng, Lihua Yang, Lin Xi, Ligang Ran, Wenliang Xiong, Yong Zhao, Bing Lei, Dequan Liu

54: DIVERSION ENHANCED WATERPROOF ROLL

00: -
 The invention discloses a diversion enhanced waterproof roll. The diversion enhanced waterproof roll comprises a waterproof plate, longitudinal water guide and water stop belts and lifting belts. The longitudinal water guide and waterstop are arranged on the surface of the waterproof plate. The lifting belts penetrate the contact faces between the longitudinal water guide and water stop belts and the waterproof plate, and the two ends of the lifting belts are located on the outer sides of the longitudinal water guide and water stop belts.



21: 2022/11234. 22: 2022/10/13. 43: 2023/01/24

51: C09K

71: Chuzhou University

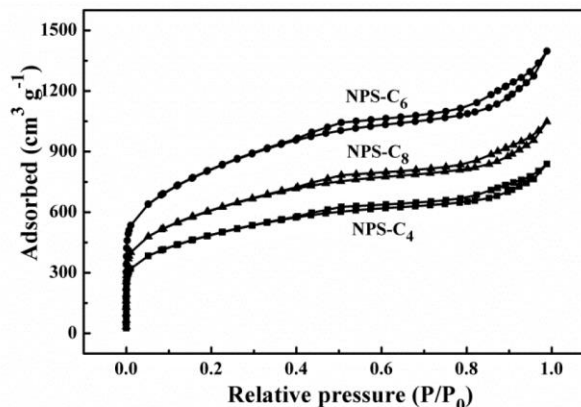
72: Feng Wei

54: SYNTHESIS OF NITROGEN/PHOSPHORUS/SULFUR CO-DOPED 3D SHEET-LIKE CARBON FOR ZINC ION HYBRID CAPACITORS

00: -

The invention discloses a preparation method of nitrogen/phosphorus/sulfur co-doped 3D sheet-like carbon for ZHC, belonging to the technical field of carbon material preparation and energy storage. The method used biomass hawthorn as the carbon precursor, the phenophosphorus thiamine dipotassium salt as the nitrogen, phosphorus, sulfur source and the activator. The steps are as follows: first, the dipotassium salt of phenphosphathiamine was obtained by the reaction of phenphosphathiamine with KOH in solution. Second, the hawthorn is washed, seeded, dried, weighed and then added to a solution of dipotassium phenophosphorus thiamine, which is heated, enclosed and stirred until the hawthorn is crushed. Subsequently, the reactants are obtained after heated and evaporated to remove the water so that the hawthorn becomes gummy. After that, the reactants were transferred into the magnetic boat. Finally the nitrogen, phosphorus and sulfur co-doped

3D sheet-like carbon was obtained by carbonization and activation process.



21: 2022/11245. 22: 2022/10/13. 43: 2023/01/24

51: G01H

71: GUANGDONG OCEAN UNIVERSITY

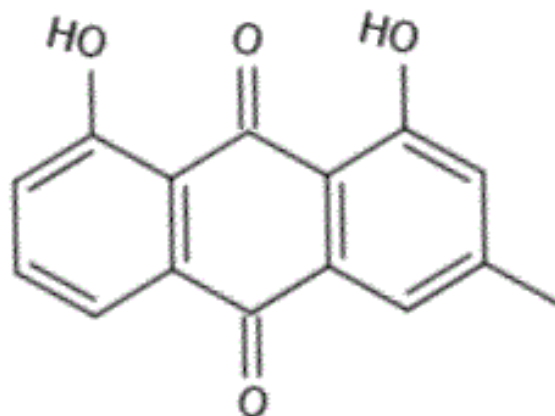
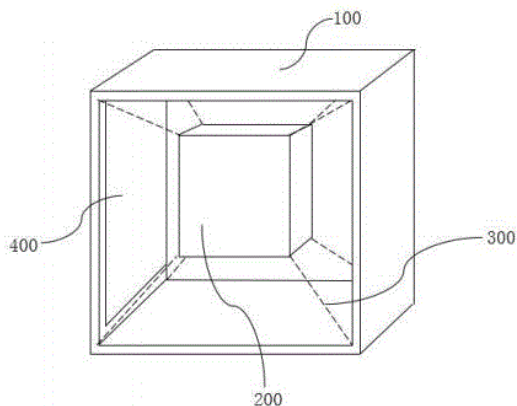
72: YANG, Fang, PAN, Xinxiang, ZHAO, Zhiqiang, PANG, Hongchen, LING, Ziyun, HUANG, Xili, LIN, Fang, SUN, Zibin

33: CN 31: 202210250041.0 32: 2022-03-14

54: TRIBOELECTRIC NANOGENERATOR-BASED THREE-DIMENSIONAL VIBRATION SENSOR

00: -

The present invention relates to the technical field of vibration sensors, and a triboelectric nanogenerator-based three-dimensional vibration sensor is disclosed. The three-dimensional vibration sensor comprises an outer housing, an inner housing and a rope body. The outer housing is hollow inside, and the inner housing is positioned in the outer housing. The inner housing is connected to the outer housing by means of the rope body, such that the inner housing is suspended when stationary. A first material layer is provided on the inner wall of the outer housing, and the first material layer is an electrode material layer. A second material layer is provided on the outer wall of the inner housing, and the second material layer is a dielectric material layer. The first material layer and the second material layer are made of different materials.



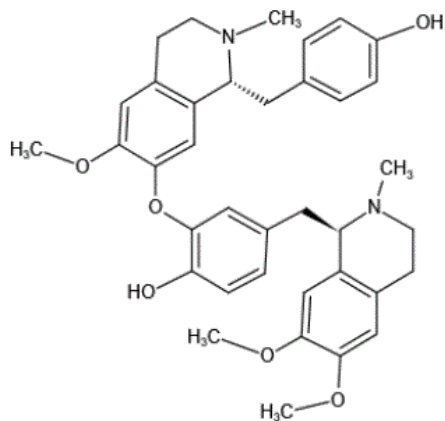
Formula I

21: 2022/11281. 22: 2022/10/14. 43: 2023/01/24
 51: A61K; A61P
 71: Dalian Medical University
 72: SHEN, Tingting, LIU, Pixu, LIU, Xiaofang, NIU, Wenhui, HUANG, Dan
 33: CN 31: 202111567077.3 32: 2021-12-20
54: APPLICATION OF CHRYSOPHANOL IN PREPARATION OF DRUGS FOR TREATING PULMONARY ARTERIAL HYPERTENSION
 00: -

Disclosed is an application of chrysophanol in preparation of drugs for treating pulmonary arterial hypertension (PAH). The present invention belongs to the technical field of biomedicine. According to the present invention, a PAH disease mouse model is constructed through hypoxia (10%) induction. After chrysophanol is intraperitoneally injected, the conditions of fur, diet, activity, death and the like of the PAH mouse model are observed. The results show that chrysophanol (as shown in formula I) has the effects of significantly improving pulmonary vascular remodeling of animals with PAH, relieving right ventricular hypertrophy and right heart failure, improving the life quality of animals with PAH (increasing food intake and water intake) and improving the survival rate of animals with PAH. Therefore, the chrysophanol has a broad application prospect in the aspect of preventing and treating PAH disease.

21: 2022/11282. 22: 2022/10/14. 43: 2023/01/24
 51: A61K; A61P
 71: Dalian Medical University
 72: SHEN, Tingting, LIU, Pixu, HUANG, Dan, NIU, Wenhui, ZHENG, Tiezheng
 33: CN 31: 202111655826.8 32: 2021-12-30
54: APPLICATION OF LIENSININE IN PREPARATION OF DRUGS FOR TREATING PULMONARY ARTERIAL HYPERTENSION
 00: -

Disclosed is an application of liensinine in preparation of drugs for treating pulmonary arterial hypertension (PAH). The present invention belongs to the technical field of biomedicine. According to the present invention, a PAH disease mouse model is constructed through hypoxia (10%) induction. After liensinine is intraperitoneally injected, the conditions of fur, diet, activity, death and the like of the PAH mouse model are observed. The results show that liensinine (as shown in formula I) has the effects of significantly improving pulmonary vascular remodeling of animals with PAH, relieving right ventricular hypertrophy and right heart failure, improving the life quality of animals with PAH (increasing food intake and water intake) and improving the survival rate of animals with PAH. Therefore, the liensinine provides a new technical means for preventing and treating PAH, and has a broad application prospect in the aspect of preventing and treating PAH disease.



Formula I

21: 2022/11283. 22: 2022/10/14. 43: 2023/01/24

51: B09B; C01F; C02F; C04B

71: Sanming University

72: CUI, Xiuqin, WEI, Sicheng, CUI, Jinna, ZHANG, Mengyang, WEI, Shumin, WU, Mouqiong, CHEN, Rong, LI, Wen, WANG, Yaoqing

54: METHOD FOR PREPARING CALCIUM ALUMINATE POWDER BY USING ALUMINUM ASH AND CARBIDE SLURRY

00: -

The present disclosure belongs to the technical field of waste recycling, and particularly relates to a method for preparing calcium aluminate powder by using aluminum ash and carbide slurry. In the present disclosure, the aluminum ash and carbide slurry as the wastes are used to react to generate the calcium aluminate powder, thus the technical problems of high cost and relatively low recycling rate of a treatment method of the aluminum ash and the carbide slurry in the prior art are solved, the calcium aluminate powder product is prepared while the treatment efficiency of the two wastes is improved and the emission of pollutants is reduced, and as a result, the economic benefit and the social benefit of comprehensive treatment of the aluminum ash and the carbide slurry are greatly improved.

21: 2022/11284. 22: 2022/10/14. 43: 2023/01/24

51: E02D

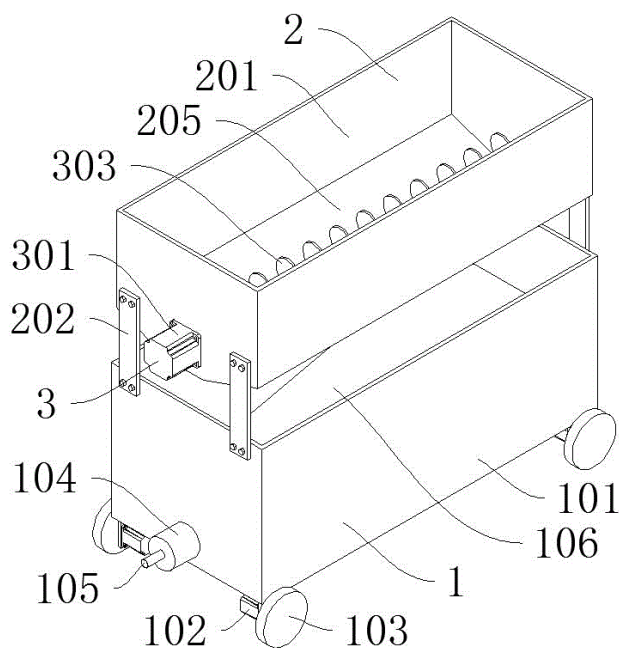
71: Zhengzhou Railway Vocational And Technical College

72: Pengfei QIN, Pengfei PAN, Qing YANG, Xiaoshan XIE, Lijuan SUN, Yixing LIANG, Shihao ZHANG, Liang ZHAO, Zhuoyu SUN, Xiaoqiang LI

54: GROUTING DEVICE IN TUNNEL BORING PROCESS

00: -

The disclosure relates to a grouting device in tunnel boring process including a main box device for holding and conveying cement, further comprising a secondary box device installed above the main box device for holding and mixing raw materials and a mixing device installed in a middle of the secondary box device for rotating, stirring and pushing the cement, in which the secondary box device includes a secondary box body, a guide cover provided at a bottom of the secondary box body, four connecting plates evenly distributed at four corners outside the guide cover, a tremie pipe provided at the bottom of the guide cover, and an electric control valve installed on the tremie pipe; and the mixing device includes a second motor. According to the grouting device in tunnel boring process of the disclosure, by the setting of stirring and conveying in one piece, the length of conveying pipeline is reduced and material loss is avoided; by the setting of electric movement, the convenience of operation is improved; and by the setting of upper and lower layer, it is convenient for continuous mixing and grouting and ensures the continuity of grouting.



21: 2022/11285. 22: 2022/10/14. 43: 2023/01/24

51: A61K

71: Gansu Agricultural University

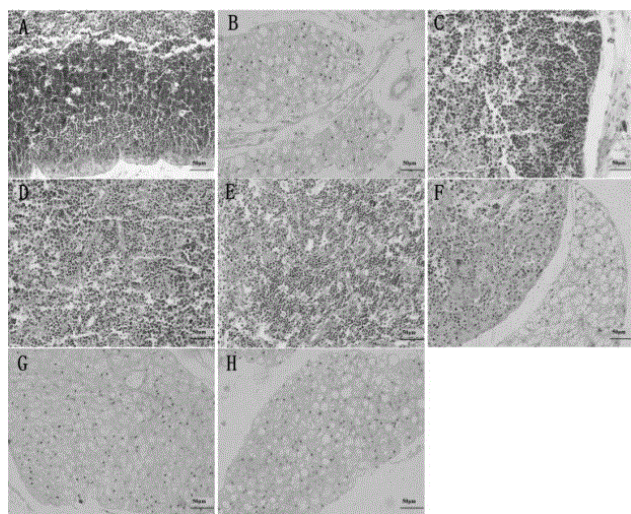
72: JI Peng, WU Fanlin, DING Yinyu, WEI Yanming, ZHANG Yong, ZHANG Wenhua, XU Dehong, HUA Yongli, YAO Wanling, LI Chenchen

54: PREPARATION METHOD OF WASD AND APPLICATION OF ITS ACTIVE INGREDIENTS IN PREPARATION OF IMMUNITY ENHANCING DRUGS

00: -

The present invention provides a preparation method of water decoction of *Angelica sinensis* processed with yellow rice wine (WASD), in which *Angelica sinensis* was soaked in water and extracted once; the ratio of material to liquid was 7.69:1 mL/g, the soaking time was 119.78 min, and the extraction time was 143.35 min. The invention also provides the application of the active ingredients of WASD in the preparation of a medicine for improving immunity. According to the present invention, the best preparation process conditions of WASD are selected by single factor experiment combined with response surface analysis method. The response surface map and contour map can test and predict the response value of the variables and analyze and determine the relationship among the variables.

When one factor is fixed, studying the influence of the other two factors and their interaction on the OD value can verify the feasibility and rationality of the model and intuitively reflect the relationship between the response value and the variables. The present invention finds that the water extract and n-butanol part of WASD have the effect of improving immunity, which is related to the content of polysaccharide, ferulic acid and caffeic acid.



21: 2022/11286. 22: 2022/10/14. 43: 2023/01/24

51: G06F

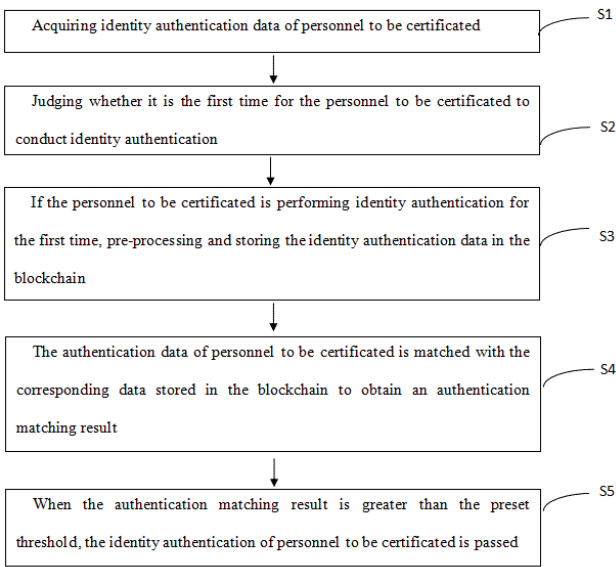
71: Liaoning Yushi Technology Co., Ltd

72: Cao Yu, Cheng Xu, Ren YaoYao, Zhu JinMiao

54: IDENTITY AUTHENTICATION METHOD AND SYSTEM BASED ON BLOCKCHAIN ARCHITECTURE

00: -

The invention provides an identity authentication method and system based on a blockchain architecture, which comprises the following steps: acquiring identity authentication data of personnel to be certificated; judging whether it is the first time for the personnel to be certificated to conduct identity authentication; if the personnel to be certificated is performing identity authentication for the first time, pre-processing and storing the identity authentication data in the blockchain; if it is not the first time for the personnel to be certificated to conduct identity authentication, the authentication data of personnel to be certificated is matched with the corresponding data stored in the blockchain to obtain an authentication matching result; when the authentication matching result is greater than the preset threshold, the identity authentication of personnel to be certificated is passed. By storing the identity authentication data of the personnel to be certificated on the blockchain first, and then authenticating and matching the identity authentication data with the data stored in the blockchain, the invention makes full use of the anti-counterfeiting verification and tracing functions of the blockchain technology, avoids the complicated process of identity authentication every time, and greatly improves the identity authentication speed.

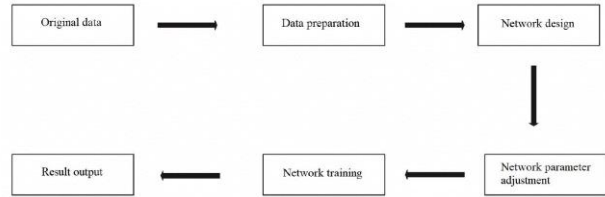


21: 2022/11289. 22: 2022/10/14. 43: 2023/01/24
51: G06T

71: Henan University of Technology
72: ZHANG, Qinghui, WAN, Chenxia

54: CONSTRUCTION METHOD FOR LUNG NODULE DETECTION MODEL

00: -
Disclosed is a construction method for a lung nodule detection model,. The present invention includes the following steps: (1) selecting lung nodule training samples and carrying out data augmentation on the lung nodule training samples; (2) constructing a convolutional architecture for fast feature embedding (Caffe) deep learning framework, where a visual geometry group network-16 (VGG-16) is introduced; (3) improving the detection model to enable the detection model to adapt to lung nodule images; (4) adjusting network parameters to enable the model to converge; (5) carrying out optimization by means of a loss function; and (6) training a designed network to obtain an image identification network having a function of detecting lung nodules. According to the present invention, a detection speed is high, detection accuracy is high, the method can be applied to large-scale samples, self-update and self-iteration can be realized, and a degree of intelligence is high.

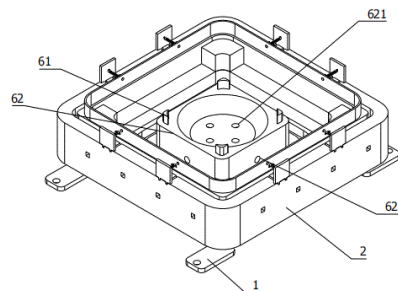


21: 2022/11290. 22: 2022/10/14. 43: 2023/01/24
51: F24F

71: Anhui Technical College Of Mechanical and Electrical Engineering
72: LI, Cheng, NI, Jinting

54: WATERPROOF BOTTOM PLATE ASSEMBLY OF AIR CONDITIONER

00: -
Disclosed is a waterproof bottom plate assembly of an air conditioner. The bottom plate assembly includes bottom frames, a bottom plate, sliding mechanisms, clamping mechanisms, a sealing mechanism, an electric motor clamping seat, outer side plates and buffering devices; the bottom plate is provided with an outer plate mounting groove and several first water seepage holes, and the outer plate mounting groove is provided with a first inner groove. By inserting the outer side plates into the mounting groove, mounting personnel can slide the clamping structures; through a sealing effect of the sealing mechanism, desirable sealing performance is formed s; and by means of the first water seepage holes provided at an exterior of the bottom plate, the situation that water seeps into the air conditioner due to rain is avoided, and therefore a desirable waterproof effect is achieved.

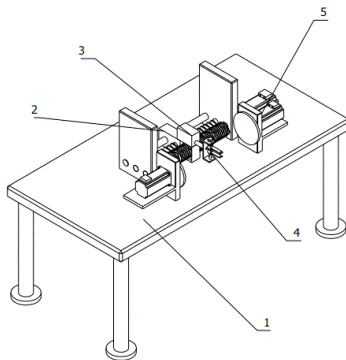


21: 2022/11291. 22: 2022/10/14. 43: 2023/01/24
51: B24B; H01L

71: Anhui Technical College Of Mechanical and Electrical Engineering
72: LI, Cheng, NI, Jinting

54: DOUBLE-SIDED POLISHER FOR SEMICONDUCTOR

00: -
 Provided is a double-sided polisher for a semiconductor. The double-sided polisher includes a workbench, a translation device, a rotary device, a clamping mechanism and a polisher body. The workbench is symmetrically provided with a first support and a second support; the rotary device is arranged on the translation device; the clamping mechanism is arranged at an output end of the rotary device; and the polisher body includes a first polishing mechanism and a second polishing mechanism. When the semiconductor needs to be polished, the semiconductor element is clamped by the clamping mechanism, the translation device drives the clamping device to move laterally until the semiconductor element moves to the polisher body for being polished, the rotary device can rotate the clamping mechanism by rotating, and the element can be polished without dead zones during polishing, thus improving machining quality.

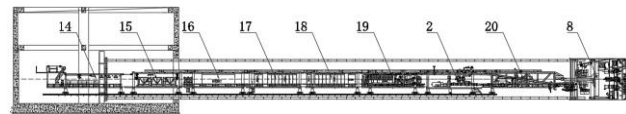


21: 2022/11292. 22: 2022/10/14. 43: 2023/01/24
 51: E21D
 71: China Railway No.8 Engineering Group Co., Ltd
 72: Xie Wenwu, Zhou Bo, Xiong Yongsheng, Zhang Xiaofei, Wang Jun, Huang Wenxiu, Lin Yue, Xiao Zihao, Liang Jin, Kang Langfeng

54: MATCHING DEVICE FOR REPLACING EQUIPMENT BRIDGE DURING SHIELD SPLIT STARTING

00: -
 The invention discloses a matching device for replacing an equipment bridge when a shield split starts, which belongs to the technical field of slurry shields. The scheme solves the problems of difficult starting construction and low working efficiency of a medium and small starting well in the prior art. The

invention comprises a method for connecting a No.1 trolley with a shield body host machine and conveying segments to an erector by a segment crane, wherein the bottom of the starting well is provided with a first track and a second track; a segment trolley is arranged on the first track; One end of the duct piece trolley is connected with a second winch arranged inside the main machine, and the other end of the duct piece trolley is connected with a first winch arranged outside the starting well; The No.1 trolley is set on the second track. When the shield body is excavated forward, the connecting trolley of the temporary connecting bridge moves forward synchronously. The double-track beam on the trolley is lapped with the temporary connecting bridge to realize the segment crane to transport the segment to the erector. The existing segment crane and track are used to meet the requirements of segment hoisting and rotation.

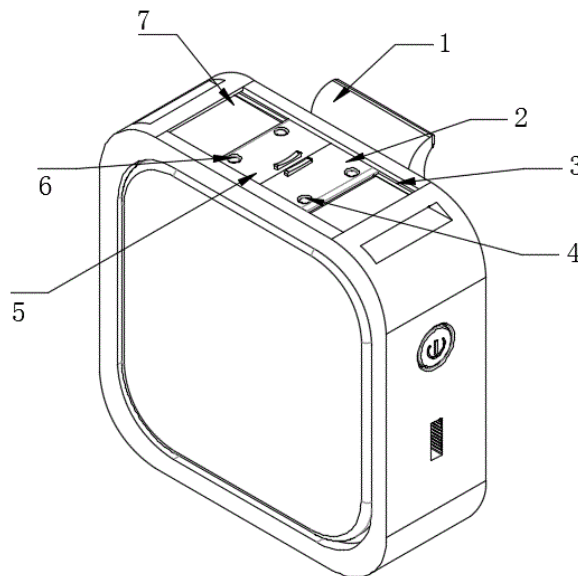
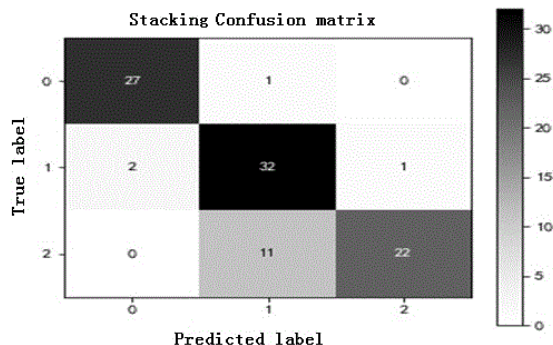


21: 2022/11293. 22: 2022/10/14. 43: 2023/01/24
 51: G06Q
 71: North China University of Science and Technology
 72: Ning Xuebin, Wu Yafeng, Suo Yina, Liu Xinran, Yu Fuxing

54: A STUDENT ACHIEVEMENT PREDICTION METHOD BASED ON STACKING

00: -
 The invention discloses a Stacking-based student achievement prediction method, divide the training set into five equal parts, the first layer of the stacking method uses a XGBoost, LightGBM, random forest and decision tree as the base model, employ a five-fold cross-validation for each base model, five prediction outputs with train1–train5 as the validation set are obtained, respectively, and the above prediction results are superimposed, for the four base models in the first layer, obtain the predict results of the train 1 to train 5 models and form them into a list of new features A1 to A4; Add features A1–A4 to the original training set A5 as a new feature column, and take them as the input of the second layer model. The prediction accuracy of the Stacking fusion method is 84%, and the prediction

accuracy is greatly improved compared with that of a single model.



21: 2022/11298. 22: 2022/10/14. 43: 2023/02/01
51: H04R

71: Tonghua Normal University

72: Yan Ren, Qingling Zhang, Yanyan Zhang, Shuaichen Jin, Xiaowei Jin, Sheng Ren

54: A RECORDING HEAD AND A RECORDING DEVICE

00: -

The invention relates to the technical field of recording equipment, in particular to a recording head and recording equipment including: adjusting groove, recording equipment body, chute, retaining plate i, retaining plate ii, butt groove, rubber pad, rubber block; The beneficial effect is: when the equipment body is not in use, the retaining plate i and the retaining plate ii are pushed inward by pushing the plate, so that the docking plate is inserted into the butt slot to realize the docking of the retaining plate i and the retaining plate ii. The rubber pad against the surface of the butt plate effectively increases the stability of the butt plate in the butt slot. And effectively seal the gap between the guard plate and the retaining plate ii, avoid the entry of dust, positioning block against the surface of the regulating groove effectively further increase the stability of the docking between the guard plate and the retaining plate ii. And effectively seal the gap between the retaining plate i, the retaining plate ii and the adjusting groove, so that it can further increase the protective effect of the recording head.

21: 2022/11299. 22: 2022/10/14. 43: 2023/02/01
51: H04R

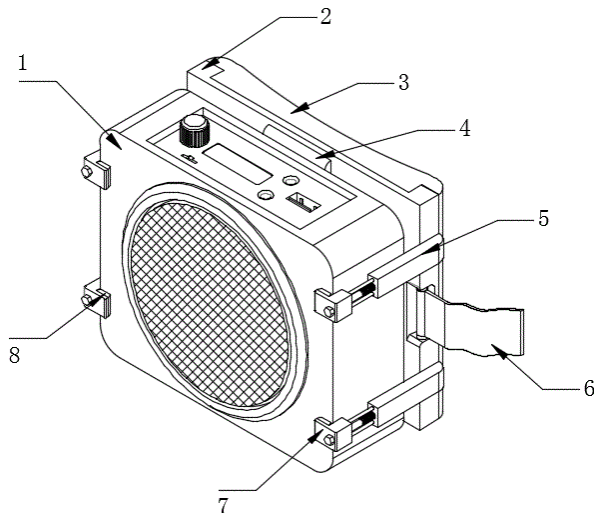
71: Tonghua Normal University

72: Yan Ren, Qingling Zhang, Yanyan Zhang, Shuaichen Jin, Xiaowei Jin, Sheng Ren

54: A WEARING ASSEMBLY AND A SOUND AMPLIFIER

00: -

The invention relates to the technical field of a public address device, in particular to a wearing component and a public address device. The utility model comprises: the surface of the positioning plate is provided with a clip, and the surface of the positioning plate is provided with a pad; The limiting slot is arranged on the surface of the positioning plate, and the limiting slot is provided with a limiting column, the limiting column is covered with a shell, the surface of the shell is provided with a belt; The limiting shell is arranged on the surface of the positioning plate, and the surface of the limiting shell is provided with a guide hole, and the surface of the limiting shell is provided with a screw hole; The beneficial effects are: Through the back clip, the amplifier body is hung on the buckle, so that it is in front of the positioning board. The pads effectively protect the wearer's waist. It reduces the impact of the amplifier body on the waist when the wearer moves, which greatly improves the comfort of the wearer.



21: 2022/11300. 22: 2022/10/14. 43: 2023/02/01

51: G09B

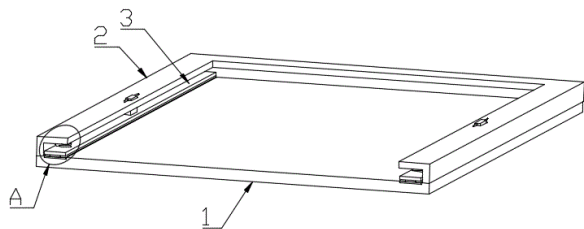
71: Tonghua Normal University

72: Yan Ren, Qingling Zhang, Yanyan Zhang, Shuaichen Jin, Xiaowei Jin, Sheng Ren

54: A MAGNETIC SUCTION COMPONENT AND AN ENGLISH SPELLING BOARD

00: -

The invention relates to the technical field of spelling board, in particular to a magnetic suction component. It can be mounted on the supporting plate. The surface of the supporting plate is provided with a retaining bracket, a pressing plate is arranged between the retaining bracket and the supporting plate; Magnetic suction plate, arranged on the bottom surface of the pressing plate; Iron sheet, arranged on the surface of the supporting plate; The beneficial effects are as follows: the magnetic suction component and the English spelling board proposed in the invention adopt the pressing plate with the magnetic absorbing board and the iron sheet to hold and limit the paper placed between the supporting board and the retaining bracket, so as to avoid the phenomenon of the paper's edge warping.



21: 2022/11301. 22: 2022/10/14. 43: 2023/02/01

51: F16M

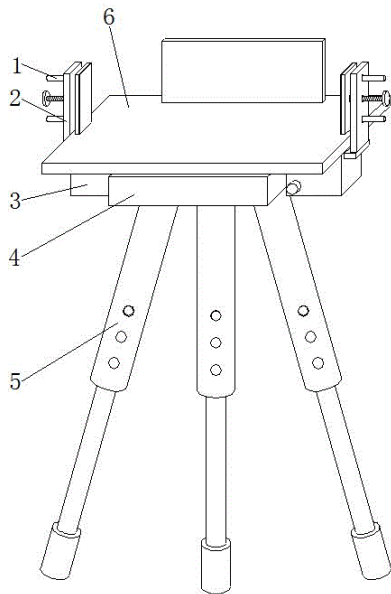
71: Tonghua Normal University

72: Yan Ren, Qingling Zhang, Yanyan Zhang, Shuaichen Jin, Xiaowei Jin, Sheng Ren

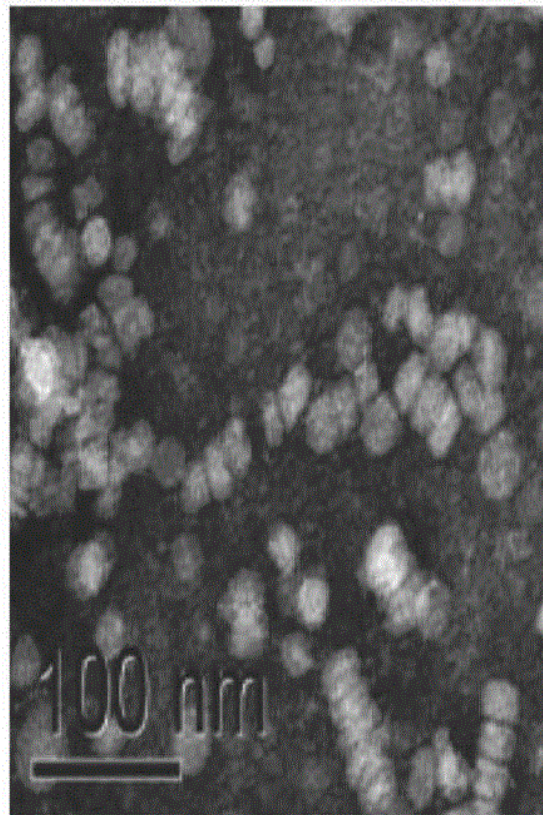
54: A RECORDING AND BROADCASTING HOLDER STAND FOR ENGLISH TEACHING

00: -

The invention discloses an English teaching recording and broadcasting holder stand, which belongs to the technical field of English teaching. It comprises a base, a top plate is arranged above the base, a rotating component is arranged between the base and the top plate, and a mounting box is arranged on both sides of the lower end of the top plate. One side of the two mounting boxes away from each other is provided with a baffle, the baffle surface is provided with a clamping component, and the bottom of the base is provided with a supporting component. The invention provides a clamping assembly, rotates two threaded rods, and the two splints are close to each other under the limiting action of the limit round rod, so that the two splints can clamp and fix the recording and broadcasting device with smaller specifications, and the operation is simple, convenient and the applicability is high. The invention is provided with a rotating component, and a rotating shaft is arranged between the base and the top plate, so that the top plate can drive the recording device to rotate, so as to facilitate the adjustment of the Angle of the recording device to reach a suitable recording range, and the rubber pad can enhance the friction, so that the rotation of the rotating shaft is limited and the stability is higher.



A MSC-Ex



21: 2022/11314. 22: 2022/10/14. 43: 2023/01/24
51: A61K; C12N; A61P

71: Changzhou Wujin People's Hospital, Jiangsu University

72: YAN Yongmin, JIN Jianhua, YANG Fuji, QIAN Hui, XU Wenrong

54: METHOD FOR PREPARING EXOSOMES DERIVED FROM HUMAN UMBILICAL CORD MESENCHYMAL STEM CELLS AND APPLICATION THEREOF

00: -

The present application provides a method for preparing exosomes derived from human umbilical cord mesenchymal stem cells (hUC-MSCs) and application, belonging to the technical field of biological agents. The method comprises the following steps: culturing hUC-MSCs to obtain supernatant containing exosomes; separating the supernatant containing exosomes by chemical precipitation method to obtain MSC exosomes containing protein kinase. The exosomes derived from hUC-MSCs prepared by the preparation method of the present application contain protein kinase, and the exosomes containing protein kinase can enhance AMPK activity and/or inhibit fatty degeneration of liver cells, thereby being capable of treating non-alcoholic fatty liver disease (NAFLD).

21: 2022/11330. 22: 2022/10/17. 43: 2023/01/24
51: A01H; C07K; C12N

71: Shandong Agricultural University

72: ZHANG, Xiansheng, SU, Yinghua, YU, Haixia, YU, Yang, WANG, Shirong, TANG, Liping, LIU, Qiangbo, YAO, Wangjinsong, ZHANG, Wenjie

54: METHOD FOR IMPROVING REGENERATION AND TRANSFORMATION EFFICIENCY OF IMMATURE WHEAT EMBRYO AND USE THEREOF

00: -

The present disclosure provides a method for significantly improving a regeneration and transformation efficiency of an immature wheat embryo and use thereof. In the present disclosure, a gene TaLAX1-A is found to be capable of promoting the regeneration and transformation efficiency of the immature wheat embryo. Overexpression of the gene can significantly improve a regeneration frequency of different wheat varieties. Further, the regeneration and transformation efficiency of TaLAX1-A-transgenic positive and negative plants are compared by a beta-glucuronidase (GUS)-

overexpressing vector. It is found that a positive transgenic line obtained by the gene has a phenotype of high regeneration and transformation frequency, which solves the difficulty in regeneration and transformation of wheat backbone germplasms.

pUBI::TaLAX1-A: LB BAR 35Spro NOS LAX1-myc UBpro RB

21: 2022/11331. 22: 2022/10/17. 43: 2023/01/24
51: E02D

71: Northwestern Polytechnical University

72: LI, Shiyang, WANG, Xiang, CHENG, Zhiwei, JING, Haitao, ZHANG, Yu, GAO, Xuhe, XU, Bin

33: CN 31: 202210007827.X 32: 2022-01-06

54: DYNAMIC COMPACTION-REINFORCED OPTIMIZATION TECHNOLOGY FOR HIGH-FILL FILLING AND CONSTRUCTION METHOD THEREOF

00: -

A dynamic compaction-reinforced optimization technology for high-fill filling and a construction method thereof are provided, falling within the field of civil engineering, that is: for a high-fill dynamic compaction-reinforced project having a fill height greater than or equal to 25 m, a water content of the fill is controlled to the optimal water content; a correlation between the fill self-weight load and the filler compactness is established by the results of a confined compression test and property index of the filler; combined with the design height of high-fill and the distribution of the fill self-weight loads, a fill height range d_0 in which the lower filler is compacted by the self-weight load of the high-fill without dynamic compaction reinforcement is established; the high-fill filler within d_0 is subjected to natural layered filling without dynamic compaction reinforcement, and the high-fill filler exceeding d_0 is merely subjected to dynamic compaction reinforcement.

21: 2022/11332. 22: 2022/10/17. 43: 2023/01/24
51: B07C

71: SHANDONG BUSINESS INSTITUTE

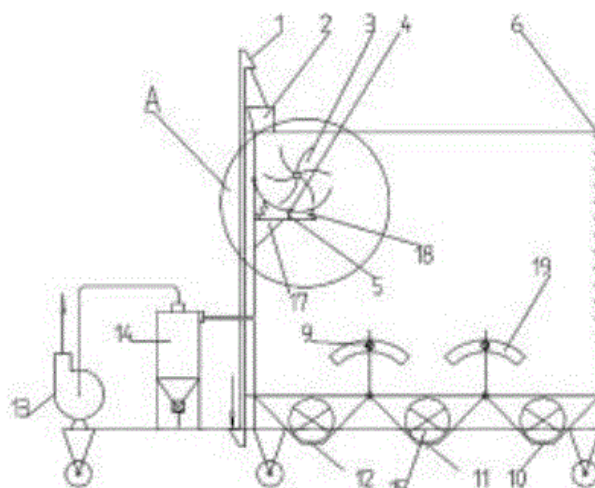
72: WANG Huazhi, ZHANG Zili, LI Guixia, MA Nailiang

54: GRAIN SORTING DEVICE

00: -

The invention relates to a grain sorting device, which comprises a main winnowing machine box, a bucket elevator installed outside the main winnowing machine box, and a fan installed outside the main

winnowing machine box, wherein a scraper impeller is installed below a feed inlet in the main winnowing machine box, a pallet is installed below the scraper impeller, and a triangular bracket welded on the inner wall of the main winnowing machine box is arranged below the pallet; the bottom of the main winnowing machine box is provided with three V-shaped material troughs arranged in sequence; partition plate plates are arranged above two adjacent material troughs; an air suction port is arranged on the side wall of the main winnowing machine box above the triangular bracket, and air regulating vanes are arranged on the side wall of the main winnowing machine box opposite to the air suction port; the air suction port is communicated with the outside fan and dust collector. The grain sorting device has the characteristics of large processing capacity, high speed and little dust pollution.



21: 2022/11333. 22: 2022/10/17. 43: 2023/01/24
51: A61D

71: West China Hospital of Sichuan University

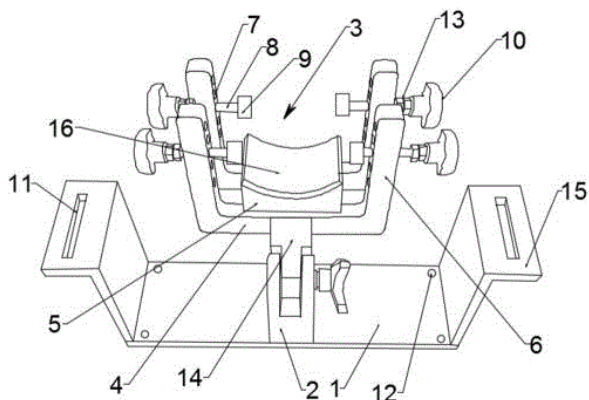
72: ZHENG, Xiaofeng, ZHU, Xinyue, ZHOU, Ye

54: HEAD FIXATOR

00: -

Disclosed is a head fixator. The head fixator includes a base, a hinge assembly and a fixing mechanism. The fixing mechanism includes a bearing plate and a plurality of supporting transverse rods, longitudinal adjusting rods are perpendicularly mounted, a plurality of screw holes are provided in the longitudinal adjusting rods, clamping screw rod

assemblies are mounted on the longitudinal adjusting rods, the clamping screw rod assemblies include screw rods spirally connected to the screw holes, and silica gel cushion blocks are arranged at the ends, located on the side of the bearing plate, of the screw rods. The head of a rhesus monkey can be comfortably fixed, the problem that no apparatus for fixing the head of the rhesus monkey exists in an experimental operation is well solved, operation is simple, and the head fixator is suitable for most rhesus monkeys for use.



21: 2022/11334. 22: 2022/10/17. 43: 2023/01/24
51: E04F

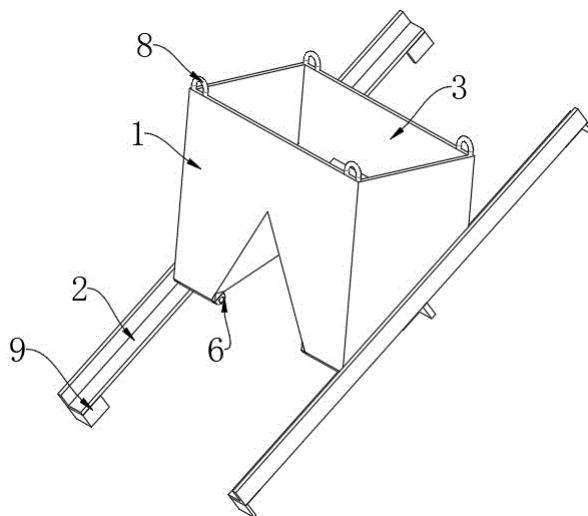
71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: FU, Fei, FAN, Jinqi, LIU, Liangliang, WANG, Xu, WANG, Shanfeng, WANG, Shengli, XU, Qifeng, ZHANG, Yang, Qi, Quan, LIANG, Zhenyu, WEI, Tonglin, CHEN, Jiabin, TIAN, Shuaidong, YUE, Zhiguang, XI, Bin, MAO, Lincheng, ZHOU, Jian

54: CONSTRUCTION DEVICE FOR CONTINUOUSLY POURING ECCENTRIC DOUBLE INCLINED BEAMS AND PROCESS THEREOF

00: -
Discloses are a construction device for continuously pouring eccentric double inclined beams and a process thereof. In the present invention, according to a sliding flow dividing unloading device for continuously pouring eccentric double inclined beams, concrete is poured into a pouring input opening by arranging a discharge hopper, and the concrete divided by the discharge hopper is discharged from two flow dividing output openings, so that it is ensured that the concrete is poured

simultaneously in walls of two sides of a U-shaped beam. The difficulty to continuously pour concrete to the U-shaped beam left and right is overcome. Moreover, in the pouring process, an unloading tower crane is prevented from moving left and right, so that 1/3 of a pouring time is saved, the pouring efficiency is improved, the pouring quality is improved, the construction safety quality of the beams is ensured, and the construction period is shortened. A filter screen can preliminarily filter the interior of the added concrete, so that impurities and stones in the concrete are taken out as far as possible, and therefore, the accuracy of the concrete is improved.



21: 2022/11335. 22: 2022/10/17. 43: 2023/01/24
51: A01N

71: Liupanshui Normal University, Guiyang Huaxi Maoye Plant Sufeng Agent Factory (general Partnership)

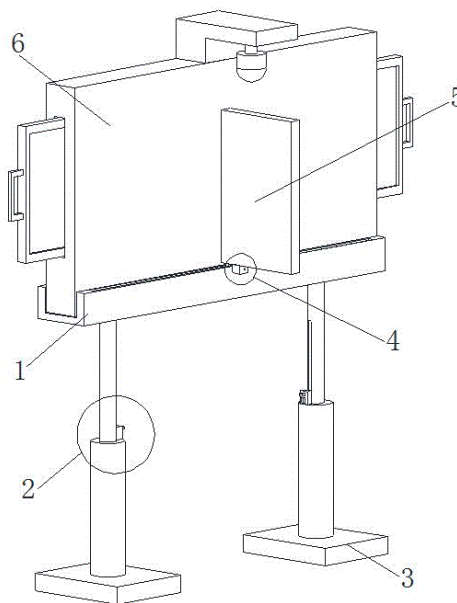
**72: YAN Kai, HUANG Wei, HUANG Rongmao
54: ASCORBIC ACID SOLUBLE POWDER AND ITS PREPARATION METHOD AND APPLICATION**

00: -
The invention relates to an ascorbic acid soluble powder and its preparation method and application. It comprises the following components in parts by weight: L ascorbic acid 12-40 parts and filler 88-60 parts. It is suitable for any dosage form of plant growth regulator, and the best formulation is 12% - 20% ascorbic acid soluble powder.

21: 2022/11339. 22: 2022/10/17. 43: 2023/01/24
51: G09B

71: Tonghua Normal University
 72: Yan Ren, Qingling Zhang, Yanyan Zhang, Shuaichen Jin, Xiaowei Jin, Sheng Ren
54: A WORD-DICTATION BOARD FOR ENGLISH TEACHING

00: -
 The invention discloses a word-dictation board for English teaching, which belongs to the technical field of teaching equipment. The utility model comprises a fixed seat, the lower end of the fixed seat is symmetrically provided with a support plate, and the side of the fixed seat close to the support plate is provided with a lifting adjustment component. The upper end of the fixed seat is provided with a word-dictation board body, one side of the word-dictation board body is provided with a partition board, the internal corresponding to the fixed seat partition is provided with a mobile adjustment component; The invention realizes the adjustment of the height of the word-dictation board body by setting a lifting and adjusting component, so that the height of the word-dictation board body can be adjusted according to the average height of students of different ages, so that the device is suitable for students of different heights, and the applicability of the device is improved. At the same time, the structure is simple to operate and convenient for the operator to use, so as to improve the convenience of use, realize the adjustment of the position of the partition board, can adjust the position of the partition board according to the number of individual students writing words.



21: 2022/11340. 22: 2022/10/17. 43: 2023/01/24
 51: B41J; C05G; G09G
 71: Kunyu Qiwei Organic Fertilizer Co., Ltd.
 72: WANG, Qiwei

54: PREPARATION METHOD OF LIQUID MICROBIAL ORGANIC FERTILIZER
 00: -

The present disclosure belongs to the technical field of fertilizer development, and in particular to a preparation method of a liquid microbial organic fertilizer. The preparation method includes the steps of mixing and crushing livestock and poultry manure and straws, adding water to mix them, and stirring functional strains uniformly to obtain finished fermented complex bacteria; adding the finished fermented complex bacteria to the mixed raw materials, stirring them at room temperature uniformly, and then adding vegetable oil residues; and separating the uniformly stirred mixtures for anaerobic fermentation, performing dry and wet separation after completion of fermentation, making the separated liquid into a microbial fertilizer, and making the solid into biological organic particles. The liquid microbial organic fertilizer can effectively improve plant metabolism, promote photosynthesis and strengthen protective films of leaves to resist pathogenic bacteria, promote development of a root system, and inhibit harmful microorganisms from reproducing.

21: 2022/11341. 22: 2022/10/17. 43: 2023/01/24
51: G09B

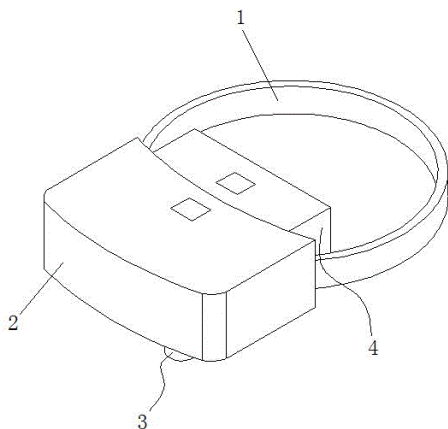
71: Tonghua Normal University

72: Yan Ren, Qingling Zhang, Yanyan Zhang, Shuaichen Jin, Xiaowei Jin, Sheng Ren

54: A VR GLASSES DEVICE FOR ENGLISH TEACHING

00: -

The invention discloses a VR glasses device for English teaching, which belongs to the technical field of teaching equipment. The utility model comprises a body, the inner part of the body is provided with an adjusting component, and the side of the body is provided with a flip cover component. By setting an adjusting component, the invention pinches the bottom of the winding shaft to push it upward, and the winding shaft moves up to make the gear free from the clamping groove, and then the winding shaft can be turned to implement winding of the wearing rope. After adjusting the rope to a suitable tightness, the winding shaft can be moved down to drive the gear and the clamping groove to complete the positioning under the elastic force of the spring, so as to have a better effect on the length adjustment of the rope. By setting a flip cover component, the protective cover plays a role of covering and dust-proof for the wearing frame, so as to facilitate the user to use directly. Press the bottom of the main body to free the hook from the main body, and then the protective cover can be flipped to the top of the main body through the rotating shaft, and then connected through the magnetic block.



21: 2022/11342. 22: 2022/10/17. 43: 2023/01/24
51: G09B

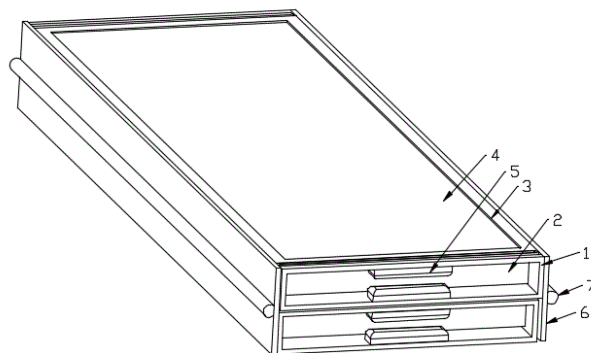
71: Tonghua Normal University

72: Yan Ren, Qingling Zhang, Yanyan Zhang, Shuaichen Jin, Xiaowei Jin, Sheng Ren

54: A DISPLAY BOARD AND AN ENGLISH WORD MEMORIZING MACHINE

00: -

The invention relates to the technical field of a display board, in particular to a display board, which comprises two groups of storage shelves, two groups of storage shelves stacked, the surface of the two groups of storage shelves are provided with a traction board; The traction limit piece is arranged between the storage frame and the traction plate; Word recording board, arranged in the interior of the storage rack; The beneficial effect is as follows: the display board proposed in the invention adopts two groups of stacked storage racks to hold Chinese and English translations respectively, and the two groups of storage racks are pushed apart by dislocation, and the side-by-side comparison of multiple groups of words is displayed at the same time. The display area is large, and the use effect is better.



21: 2022/11343. 22: 2022/10/17. 43: 2023/01/24
51: C12P

71: Mingzhiyuan (Hangzhou) Biological Technology Co., Ltd

72: Shengli GENG

33: CN 31: 202111224254.8 32: 2021-10-19

33: CN 31: 202211150208.2 32: 2022-09-21

54: A METHOD FOR PREPARING GINSENOSE PREPARATION BY BIOLOGICAL ENGINEERING TECHNOLOGY

00: -

The invention discloses a method for preparing the ginsenoside preparation by biological engineering technology, wherein the ginsenoside preparation comprises at least one of the saponin-enriched preparation and the saponin-enriched syrup; the compound bio-enzyme preparation prepared by the

combined bacteria preparation of yeast and lactic acid bacteria provided by the invention is rich in amino acid residues, amides, coenzymes and active groups such as lactic acid and linoleic acid; and the ginsenoside preparations containing ginsenosides can be prepared by adding monosaccharides or polysaccharides to the compound bio-enzyme preparations, providing new directions and ideas for obtaining ginsenosides and their products.



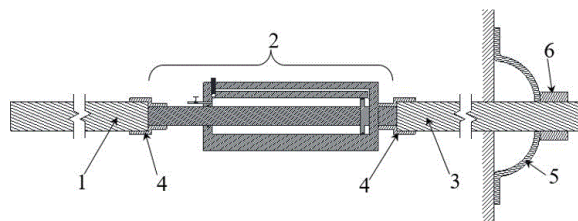
21: 2022/11349. 22: 2022/10/17. 43: 2023/01/24
51: E21D
71: CHANGJIANG RIVER SCIENTIFIC RESEARCH INSTITUTE, CHANGJIANG WATER RESOURCES COMMISSION

72: Huang, Shuling, Ding, Xiuli, Zhang, Yuting, He, Jun, Han, Gang, Yu, Peiyang

54: YIELDING BOLT WITH ADJUSTABLE PRESSURE YIELDING PARAMETER

00: -

The invention discloses a yielding bolt, which has adjustable pressure yielding parameter, comprises an inner anchor section rod, an outer anchor section rod, and a limit bracket, and also comprises one or more yielding member, which is connected with the inner anchor section rod and the outer anchor section rod. The maximum yield of the yielding bolt can be increased freely by connecting different numbers of yield member in series, and the maximum yield can be adjusted by adjusting the axial size of the compression chamber of the cavity shell during the design of the yield member, Therefore, it can adapt to various degrees of roadway deformation.



21: 2022/11352. 22: 2022/10/17. 43: 2023/01/24
51: A01C

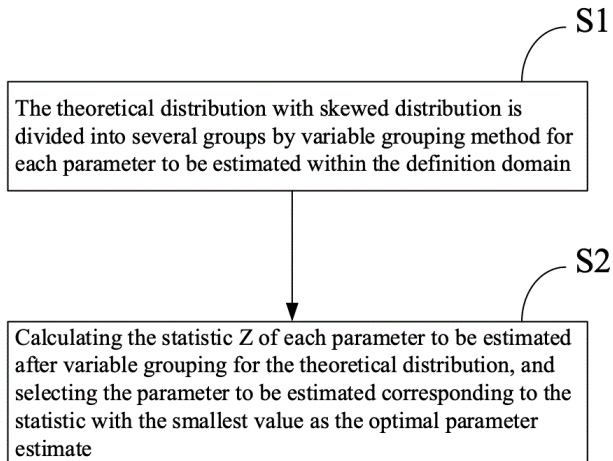
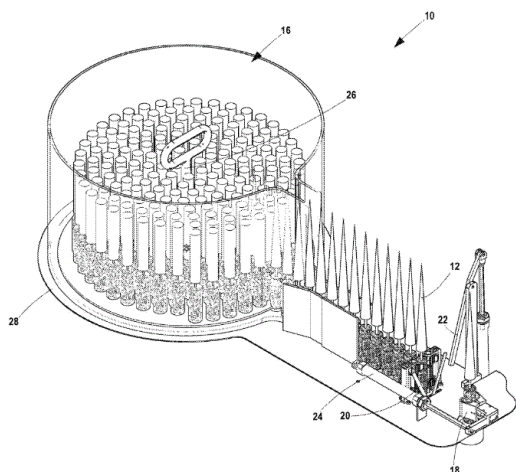
71: BJORKEMAR CONSTRUCTION AND CONSULTING (SOUTH AFRICA) (PTY) LTD
72: STEENKAMP, Jaap

33: ZA 31: 2020/02461 32: 2020-05-06

54: TRANSPLANTER AND METHOD OF PLANTING SEEDLINGS

00: -

The invention relates to a transplanter (10) that includes: (i) a magazine (16, 18) for storing a plurality of seedlings (12) connected to each other by a tape (14); (ii) a gripper (18) for gripping a terminal seedling (12); (iii) a cutter (20) for cutting the tape (14) adjacent the terminal seedling (12), thereby to sever the terminal seedling (12) from the adjacent seedling (12) to which it is taped; (iv) a first disentangler (22) for passing between the severed terminal seedling (12) and its adjacent seedling (12), thereby to disentangle the branches or growth of the terminal seedling (12) from the branches or growth of its adjacent seedling (12); and (v) an actuator (24) for moving the severed terminal seedling (12) from its adjacent seedling (12). Furthermore, the invention relates to a method of planting seedlings (12) using such transplanter (10).



21: 2022/11364. 22: 2022/10/17. 43: 2023/01/24
51: G06F

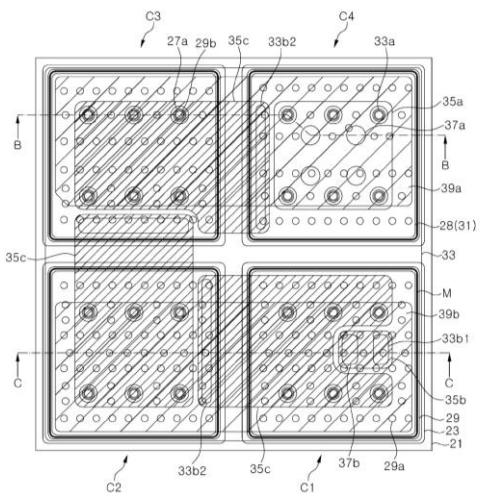
71: SHANGHAI MARITIME UNIVERSITY
72: ZHANG, Yifei, DAI, Yichao, SHAN, Shi
33: CN 31: 202010525101.6 32: 2020-06-10
54: AN OPTIMAL PARAMETER ESTIMATION METHOD FOR SKEWED DISTRIBUTION BASED ON VARIABLE GROUPING

00: -
The invention discloses an optimal parameter estimation method of skewed distribution based on variable grouping, comprising the following steps: S1 the theoretical distribution of skewed distribution is divided into several groups by variable grouping method for each parameter to be estimated within the definition domain; S2 calculate the statistic Z of each parameter to be estimated after the variable grouping of the theoretical distribution, and select the parameter to be estimated corresponding to the statistic with the smallest value as the optimal parameter estimate. The present invention is versatile in accurately estimating parameters of skewness distribution, overcoming failing of prior art in a certain types thereof, as well as in passing model goodness-of-fit test of imprecise estimation. At the same time, the invention is applicable to many fields conforming to the skewed distribution model, such as linguistics, life science, computer science and other fields, and has important scientific research and practical application value.

21: 2022/11367. 22: 2022/10/17. 43: 2023/02/01
51: H01L
71: SEOUL VIOSYS CO., LTD
72: KIM, JAE KWON, HEO, MIN CHAN, KIM, KYOUNG WAN, KIM, JONG KYU, KIM, HYUN A, LEE, JOON SUP
33: KR 31: 10-2019-0012666 32: 2019-01-31
33: KR 31: 10-2019-0012988 32: 2019-01-31
54: LIGHT-EMITTING DIODE
00: -

A light emitting diode according to an exemplary embodiment includes: a first conductivity type semiconductor layer; a mesa disposed on the first conductivity type semiconductor layer, and including an active layer and a second conductivity type semiconductor layer; and a lower insulation layer covering the mesa and at least a portion of the first conductivity type semiconductor layer exposed around the mesa, and having a first opening for allowing electrical connection to the first conductivity type semiconductor layer and a second opening for allowing electrical connection to the second conductivity type semiconductor layer, in which the active layer generates light having a peak wavelength of about 500 nm or less, the lower insulation layer includes a distributed Bragg reflector, the lower insulation layer has a high reflection wavelength band continuously exhibiting reflectances of 90% or more in a wavelength range of the visible region, reflectances in a first wavelength region including a peak wavelength of light generated in the active layer within the high reflection wavelength band are higher than those in a second wavelength region within a range of 554 nm to 700 nm, and the first wavelength region is

located in a region of wavelengths shorter than 554 nm.



21: 2022/11433. 22: 2022/10/19. 43: 2023/01/16
 51: G01M
 71: WUHAN KERIDI MEDICAL SUPPLIES CO., LTD.
 72: LIE YANG, JUN FENG, RAN ZENG, SIYUAN LIU

54: MICRO-PRESSURE DETECTING MACHINE FOR LEAKAGE OF DRY POWDER DRUMS FOR HEMODIALYSIS

00: -
 The present invention relates to the technical field of production of dry powder for hemodialysis, and provides a micro-pressure detecting machine for leakage of dry powder drums for hemodialysis, which comprises a rack component and a detection component. The rack component comprises an installation cabinet; a workbench is fixedly connected at the top of the installation cabinet; a fixing frame which is in a reversed concave structure is fixedly connected at the top of the workbench; and a row of dry powder drums are placed at the top of the workbench. The detection component comprises a plurality of column-shaped blocks which are arranged in the fixing frame, correspond to the positions which are right above the dry powder drums, and can move up and down; and the column-shaped blocks are in a vertical axial direction, and the diameter of each of the column-shaped blocks is equal to the inner diameter of a pipe orifice at the top of each of the dry powder drums. According to the micro-pressure detecting machine, the column-

shaped blocks move downwards, and whether the dry powder drums have air leakage is fed back by observing whether pressure values displayed by pressure gages are increased or not, so as to judge whether the sealing has leakage; and compared with the traditional manner that heads of the dry powder drums are immersed into liquid, the manner of detecting the leakage of the dry powder drums can avoid the contract of the dry powder drums and liquid, and the dry powder drums can be used directly after the detection is completed.

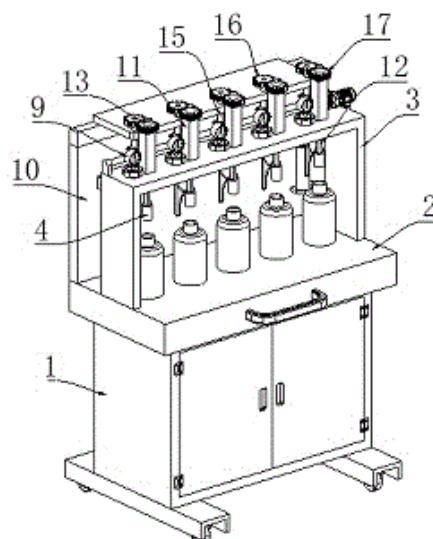


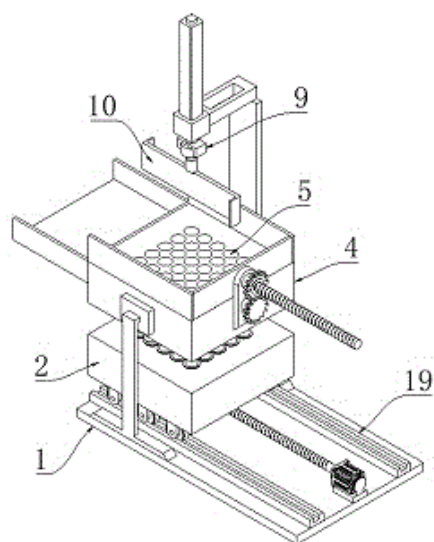
Fig. 1

21: 2022/11434. 22: 2022/10/19. 43: 2023/01/16
 51: B65B
 71: WUHAN KERIDI MEDICAL SUPPLIES CO., LTD.
 72: LIE YANG, JUN FENG, RAN ZENG, SIYUAN LIU

54: MULTI-HEAD FILLING SYSTEM FOR HEMODIALYSIS DRY POWDER

00: -
 The present invention relates to the technical field of production for hemodialysis dry powder, and provides a multi-head filling system for hemodialysis dry powder, which comprises a bearing system. The bearing system comprises a bottom plate; the top of the bottom plate is slidably connected with an adjusting platform along a length direction thereof; the top of the adjusting platform is provided with a plurality of slots for placing packaging containers, which are distributed in a rectangular array with an

equal spacing; and the bottom plate is provided with a sliding mechanism for driving the adjusting platform to slide left and right. According to the present invention, prepared hemodialysis dry powder can be poured into the top center of a fixing platform; then a powder pushing plate can contact the top surface of the fixing platform through descending of a connecting frame; and then the dry powder on the fixing platform can be pushed into each cylindrical hole through rotation of the powder pushing plate, so that the dry powder can be poured into a plurality of containers at one time, thereby effectively accelerating efficiency of filling operation and improving benefits of a factory.

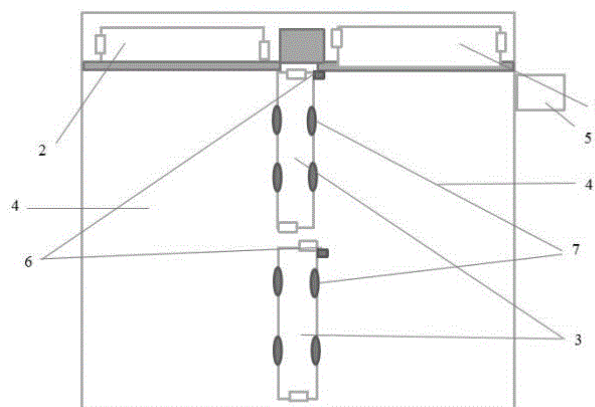


21: 2022/11475. 22: 2022/10/20. 43: 2023/01/24
 51: A01G; A01K; A23K; G05D
 71: Weifang Academy of Agricultural Sciences, Qingzhou Animal Disease Prevention and Control Center, Weifang Science and Technology Innovation Promotion Center, Weifang Animal Husbandry Development Center, Weifang City Hanting District Animal Husbandry Development Center, Shandong Vocational Animal Science and Veterinary College
 72: LI, Yutao, WU, Yuanyuan, WANG, Zhijia, WANG, Xinhua, JIANG, Guanheng, WANG, Aiping, SHI, Guangyong, YIN, Xia, WANG, Dongxing, WANG, Ziqiang, WANG, Naijian, SUN, Xiwen, ZHOU, Feng, ZHANG, Dexiao, GAO, Fengru, CHEN, Fei

54: ECOLOGICAL BREEDING METHOD FOR LAYING DUCKS

00: -
 The present disclosure proposes an ecological breeding method for laying ducks, including a

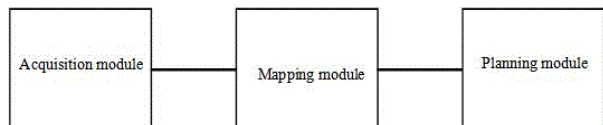
brooding house, an egg laying housing and a flat rearing house, wherein several four-layer three-dimensional cages are in both the brooding house and the egg laying house. A fermentation bed and a manure scraping device are arranged on the ground in each flat rearing house. The brooding house and the flat rearing house are surrounded by two paddy planting areas, and the egg laying house and the flat rearing house are surrounded by two paddy planting areas. Further including an intelligent control system, the intelligent control system includes a control module, a communication module, a temperature-humidity adjustment device and a lighting control module. The lighting control module includes several LED lights. The present disclosure realizes the combination of cage breeding and free-range breeding, grazing breeding and flat rearing breeding, and greatly improves animal welfare.



21: 2022/11476. 22: 2022/10/20. 43: 2023/01/24
 51: A61N
 71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: BAO Zheng
 33: CN 31: 202211125128.1 32: 2022-09-14
54: REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION SYSTEM

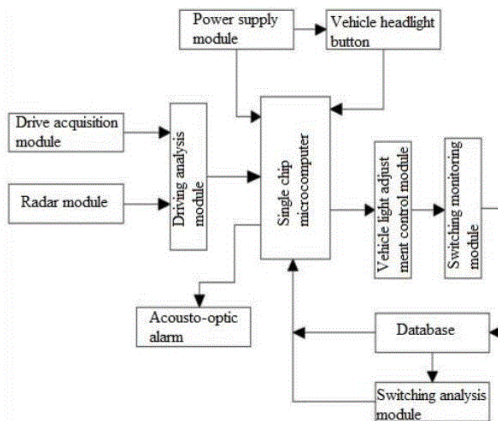
00: -
 The invention discloses a repetitive transcranial magnetic stimulation system, which comprises an acquisition module, a mapping module and a planning module. Wherein the acquisition module, the mapping module and the planning module are connected in sequence; the acquisition module is used for acquiring the stimulation area, the mapping module is used for mapping the stimulation area to obtain the discharge area, and the planning module

is used for carrying out magnetic stimulation planning on the discharge area, and controlling the release of stimulation pulses according to the magnetic stimulation planning result. Through the technical scheme, the invention can adapt to different individuals to achieve accurate positioning, and at the same time can perform effective and objective electromagnetic parametric programming adjustment.



21: 2022/11477. 22: 2022/10/20. 43: 2023/01/24
 51: H05B
 71: Anhui Science and Technology University
 72: LIU, Chunhui, ZHANG, Delong, WANG, Jixiang
54: SYSTEM BASED ON SINGLE-CHIP MICROCOMPUTER FOR AUTOMATICALLY ADJUSTING VEHICLE HEADLIGHTS
 00: -

Disclosed is a system based on a single-chip microcomputer for automatically adjusting vehicle headlights. The system includes a driving analysis module, a switching monitoring module, a switching analysis module and the single-chip microcomputer. By means of a light adjustment control module, automatic adjustment of and control over lights is implemented, waste of electric energy is reduced, and driving safety is improved; the switching monitoring module is configured to monitor a lighting level of the vehicle headlights and record lighting switching information; and the switching analysis module is configured to analyze a switching loss of the vehicle headlights, generate a switching loss signal, and send a reminder message to a mobile phone terminal of a user, so as to remind the user that corresponding vehicle headlights are frequently switched and to make a suggestion of maintenance, thus avoiding burning of vehicle headlight filaments and improving the driving safety.



21: 2022/11478. 22: 2022/10/20. 43: 2023/01/24
 51: A61K; C07D; C09K; A61P
 71: Tiangong University
 72: LIU, Pai, LI, Yanning, YANG, Tianyue, CHEN, Hongli, GUO, Jun, LI, Shulan, SUN, Yue, LIU, Yi
54: PREPARATION METHOD FOR AGGREGATION-INDUCED EMISSION PHOTSENSITIZER AND APPLICATION IN INDUCING IMMUNOGENIC CELL DEATH
 00: -

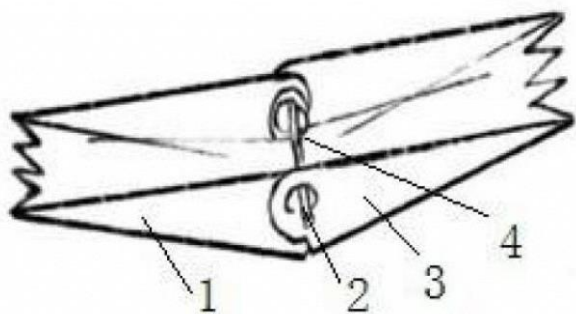
The present invention relates to a preparation method for an aggregation-induced emission photosensitizer and an application in inducing immunogenic cell death. The present invention belongs to the technical field of pharmaceuticals. The photosensitizer is a polyphenylpyrrole derivative with a D-pi-A structure (named MAP-I), which is obtained by introducing triphenylamine at 2,5-position of pyrrole as a substituent group and introducing indole salt with heavy atom iodine at 3-position of pyrrole as a targeting agent for mitochondria. The photosensitizer of the present invention has an aggregation-induced emission property, and also has the functions of high reactive oxygen species production rate, stimulating cells to generate damaged associated molecular patterns, inducing dendritic cells in vitro, and inducing immunogenic cell death in an organism. The aggregation-induced emission photosensitizer can be used in the field of cancer treatment.

21: 2022/11479. 22: 2022/10/20. 43: 2023/01/24
 51: A01G
 71: Shandong Institute of Pomology
 72: TIAN Shoule, XUE Xiaomin, YANG Bo, LI Qiang, SUN Xiaoli, SHEN Guangning

54: BRANCH-PULLING GROUND ANCHOR FOR FRUIT TREES

00: -

The invention discloses a branch-pulling ground anchor for fruit trees, which comprises an inner trough body, an outer trough body, a middle shaft and a torsion spring, where the inner trough body and the outer trough body are both U-shaped in cross section and triangular in two symmetrical sides; one end of the inner trough body and the outer trough body is hinged with each other by a middle shaft; the middle shaft runs through the inner trough body and the outer trough body; the torsion spring is sleeved outside the middle shaft; one torsion arm of the torsion spring contacts the bottom surface of the inner trough body; and the torsion force The ground anchor is small in size, light in weight, simple in structure, convenient to operate, low in cost, and widely used. It is not only suitable for pruning and reshaping trees such as trees, fruit trees, etc., but also can be used for anchoring and reinforcing small-sized horticultural arches, and has a wide prospect of commercial production.



21: 2022/11480. 22: 2022/10/20. 43: 2023/01/24
51: A01G

71: Luoyang City Peony Industry Development Center

72: HUANG, Zhimin, LIANG, Yixin, SUN, Guorun, ZHANG, Xueqin, GAO, Liping, WANG, Conghui, MA, Xianglong, BAO, Haojie, WANG, Weiran, YUAN, Xiaoqiu, WANG, Jianping, YANG, Ligu, ZHAO, Guodong, ZHU, Junsheng, YANG, Jianmin, WANG, Xiujuan, WANG, Yaling, NAN, Qiongqiong, SHI, Tian, XU, Kaixin

54: HIGH-YIELD PRUNING METHOD FOR PAEONIA SUFFRUTICOSA ANDR.

00: -

The present disclosure relates to a high-yield pruning method for *Paeonia suffruticosa* Andr. The method comprises the following steps: pruning after

planting, selecting and keeping trunks, culturing lateral branches, culturing fruiting branches, retracting pruning and rejuvenation. By using the method in the present disclosure, the *Paeonia suffruticosa* Andr. entering a fruiting period can flower and bear more than 12 pods all year round after pruning; each pod bears 40 seeds on average, each plant can bear 480 seeds; the thousand-seed weight of *Paeonia suffruticosa* Andr. seeds is 0.25 kg, each plant can bear 0.12 kg of seeds, 1,667 plants are planted per mu, and the yield per mu can reach 200 kg. The *Paeonia suffruticosa* Andr. is scientifically pruned from planting to the fruiting period, so that the yield per mu of the *Paeonia suffruticosa* Andr. seeds is increased by more than 2 times.

21: 2022/11481. 22: 2022/10/20. 43: 2023/01/24
51: C07D

71: Yanbian University

72: WANG, Yanqiu, PIAO, Huri, LIU, Xuekun

54: NOVEL ANTI-GOUT APPLICATION OF VONOPRAZAN FUMARATE

00: -

The present invention belongs to the technical field of pharmaceutical application, and particularly relates to a novel anti-gout application of vonoprazan fumarate. According to the present invention, clinical indications of vonoprazan fumarate are increased, so vonoprazan fumarate can be used not only for treating gastric ulcer, duodenal ulcer, reflux esophagitis and the like, but also for treating hyperuricemia and gout diseases. The compound is administered orally and by injection, and has a significant effect on mouse sodium urate induced hyperuricemia models approximate to an allopurinol positive control group. The product, which is a proton pump inhibitor (PPI) originator drug of Takeda-Otsuka Pharmaceuticals in Japan and is a class of new drug approved to the market on December 26, 2014, is small in toxic side effect, has the effect of inhibiting secretion of gastric acid and preventing gastric ulcer, duodenal ulcer and reflux esophagitis.

21: 2022/11482. 22: 2022/10/20. 43: 2023/01/24
51: C01G; C03C; H01M; B82Y

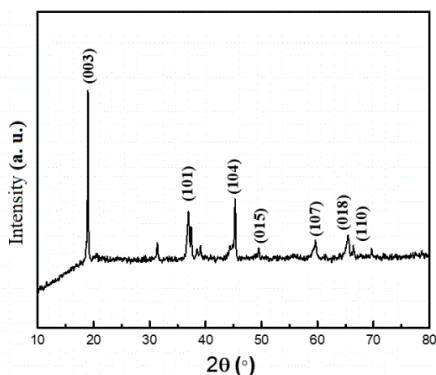
71: Shanghai Polytechnic University

72: ZHU, Luping, MAO, Yuqin, SHEN, Xinying, WEI, Jiangang

54: METHOD FOR PREPARING COBALTOXIC OXIDE NANOROD ARRAYS BASED ON SPENT LITHIUM-ION BATTERY RECOVERY

00: -

The present invention discloses a method for preparing cobaltosic oxide nanorod arrays based on spent lithium-ion battery recovery. The method comprises the following steps: (1) disassembling a spent battery; (2) separating the positive active materials from the positive electrode materials; (3) digesting the positive active materials with microwaves, and treating with HCl or HNO₃ and H₂O₂ at room temperature to obtain an HCl or HNO₃ leach solution containing Co²⁺ and Li⁺; (4) preparing a dark red solution containing Co³⁺; and (5) weighing NH₄F and CO(NH₂)₂, dispersing NH₄F and CO(NH₂)₂ to the solution containing Co³⁺, and performing hydroheat treatment and calcining successively on the mixture to obtain Co₃O₄ nanorod arrays on a substrate. According to the method provided by the present invention, the raw materials are cheap and easy to obtain, the reaction temperature is low, and the waste liquid is easy to treat.



21: 2022/11483. 22: 2022/10/20. 43: 2023/01/24
51: B60K

71: Fuzhou University

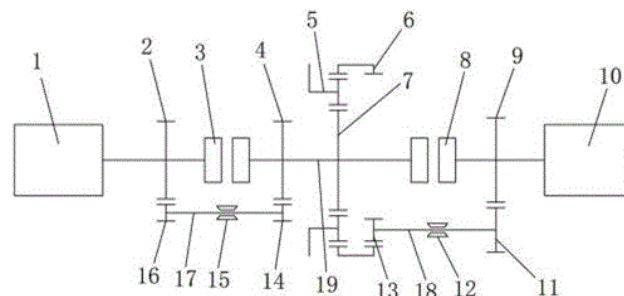
72: YAO Ligang, WANG Zhenya, WANG Xingsheng, CHEN Ying, LI Gaosong, DING Jiabin

54: TWO-GEAR DUAL-MOTOR POWER COUPLING DRIVING DEVICE AND WORKING METHOD THEREOF

00: -

The invention relates to a two-gear dual-motor power coupling driving device and working method thereof. The output shaft of the main driving motor is

connected with the first transmission shaft through the transmission gear set One, and the first transmission shaft is connected with the third transmission shaft through the transmission gear set Two, a planetary gear train is arranged on the third transmission shaft, and both ends of the third transmission shaft are respectively connected with the output shaft of the main driving motor and the output shaft of the auxiliary driving motor through synchronizer One and synchronizer Two, the output shaft of that auxiliary drive motor is connected with a second transmission shaft through a transmission gear set Three, the second transmission shaft is provided with a gear ring transmission gear which is meshed with the gear ring of the planetary gear train, the first transmission shaft and the second transmission shaft are respectively provided with a lock One and a lock Two. By controlling the different states of the two synchronizers and the two locks and the different running states of the main driving motor and the auxiliary driving motor, it can realize multiple working modes in two gears, meet various working conditions when the automobile is running, and work in the motor high-efficiency area as much as possible.



21: 2022/11484. 22: 2022/10/20. 43: 2023/01/24
51: A61K

71: The Institute of Subtropical Agriculture, The Chinese Academy of Sciences

72: Wu Jian, Zhou Chuanshe, Jiao Jinzhen, Tan Zhiliang

54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR IMPROVING BREEDING ABILITY OF RAMS, AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a traditional Chinese medicine composition for improving breeding ability of rams, its preparation method and application. The invention firstly discloses a traditional Chinese

medicine composition for improving the breeding ability of rams, which comprises: *Orobanchae caerulescens* Steph., *Epimedium brevicornum* Maxim., *Cortex Acanthopanax* and *Galla Chinensis*. On the basis of the traditional Chinese medicine composition, *Rhizoma Sparganii* and *Rhizoma Acori Graminei*, or *Asarum sieboldii* Miq. and *Radix Puerariae* are added, which have better effects of tonifying kidney and strengthening yang and replenishing essence and blood. Animal experiments have proved that the crude drugs *Orobanchae caerulescens* Steph., *Epimedium brevicornum* Maxim., *Cortex Acanthopanax Radicis* and *Galla Chinensis*, not only have obvious synergistic effect with *Rhizoma Sparganii* and *Rhizoma Acori Graminei*, but also with *Asarum sieboldii* Miq. and *Radix Puerariae*, all of which can significantly improve the average single sperm collection, sperm viability and sperm density of rams, and increase the conception rate of ewes. The traditional Chinese medicine composition of the invention has reasonable ingredients and simple preparation method, and can be applied to the preparation of medicines for improving the breeding ability of rams.

21: 2022/11485. 22: 2022/10/20. 43: 2023/01/24
51: B08B

71: ANHUI JIANZHU UNIVERSITY

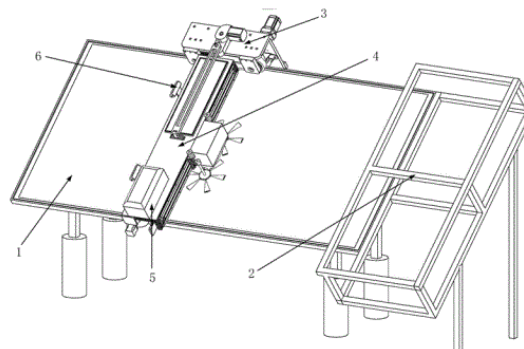
72: Fangbin WANG, Ruiyang YAN

54: PHOTOVOLTAIC PANEL CLEANING ROBOT

00: -

The invention relates to a photovoltaic panel cleaning robot, which includes: a walking mechanism, which is connected to an upper frame edge of the photovoltaic panel to be cleaned and moves linearly along the said frame edge; a cleaning mechanism, which is fixedly connected to the said walking mechanism for cleaning the said photovoltaic panel; a visual detection mechanism, which is arranged above the said cleaning mechanism for detecting the stain information of the said photovoltaic panel when the said walking mechanism moves; and a control system, which is respectively connected to the said walking mechanism, the said cleaning mechanism, and the said visual detection mechanism for controlling the working states of the said walking mechanism and the said cleaning mechanism according to the said

stain information. The invention only uses one upper walking mechanism to realize the lateral movement of the cleaning robot, thereby avoiding the problem of the robot self-locking.



21: 2022/11486. 22: 2022/10/20. 43: 2023/01/24
51: G01N

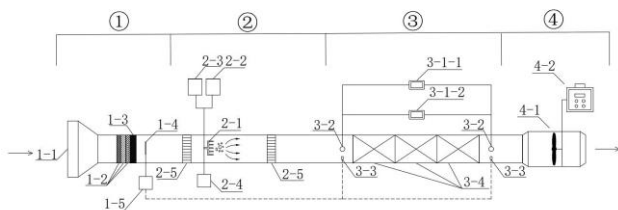
71: University of Shanghai for Science and Technology

72: CUI Pengyi, YANG Feng, WANG Jiaqi, WU Yiping, SHEN Jiaowen, LUO Yang, HUANG Yuandong

54: MULTIFUNCTIONAL POROUS MATERIAL AIR DUCT TEST PLATFORM

00: -

The invention relates to a multifunctional porous material air duct test platform, which comprises an entrance section, a development section, a test section, a power section and related functional equipment of the test platform. The test platform entrance section is provided with an air filtration module and an air temperature and humidity adjustment module in turn; Both ends of the test platform development section are provided with rectifying grids, and the middle is a particle generation module; The main body of the test section of the platform is made of transparent and visible materials, and the gas particle analysis module, the pressure and velocity analysis module and the temperature and humidity monitoring module are sequentially arranged inside; The test platform power section is mainly a power device; The invention can simultaneously satisfy the experimental study of the adsorption and filtration characteristics of porous materials for particles with different particle diameters and humidity and the absorption performance of gaseous pollutants.



21: 2022/11487. 22: 2022/10/20. 43: 2023/01/24
51: A23K

71: The Institute of Subtropical Agriculture, The Chinese Academy of Sciences

72: He Liuqin, Yin Yulong, Wu Jian, Li Tiejun

54: PREPARATION FOR IMPROVING ANTIBACTERIAL PEPTIDE SECRETION IN PIGLET INTESTINES AND APPLICATION THEREOF

00: -

The invention provides a preparation for improving antibacterial peptide secretion in piglet intestines and an application thereof. The preparation comprises serine, astragalus polysaccharides, probiotics and/or prebiotics, and preferably comprises 4-30 parts of serine, 0.5-2 parts of astragalus polysaccharides, 2-8 parts of probiotics and/or 0-2 parts of prebiotics by weight. The invention also provides the application of the preparation, which is prepared into suspension with physiological saline or phosphate buffer, and then applied to suckling piglets by way of irrigation, or applied to weaning piglets by way of feeding the diet mixed with the preparation.

21: 2022/11488. 22: 2022/10/20. 43: 2023/01/24
51: H01L

71: NANTONG UNIVERSITY

72: MIAO, Jianwen, LI, Minmin, SONG, Guohua, QU, Yao

33: CN 31: 202211154364.6 32: 2022-09-22

54: METHOD FOR PREPARING RED PHOSPHOR FOR WHITE LED BY HYDROTHERMAL METHOD

00: -

The invention discloses a method for preparing red fluorescent powder for white LED by a hydrothermal method, which comprises the following steps: mixing rare earth nitrate solution, mixing solution of other substances, mixing $Y(NO_3)_3$, $Eu(NO_3)_3$, $Sm(NO_3)_3$, $LiNO_3$, $Sr(NO_3)_2$, $Zn(NO_3)_2$ solution; drop $(NH_4)_6Mo_7O_{24} \cdot 4H_2O$ $Na_2HPO_4 \cdot 12H_2O$ solution into the above mixed solution, then pipette CTAB

solution and add it with ammonia water ($NH_3 \cdot H_2O$) to adjust pH; transfer the sample suspension to a hydrothermal reactor, seal the reaction, take it out, and cool it to room temperature; wash the formed precipitate, separate it by centrifugation, and dry it to obtain the product. Compared with the basic system $LiSrY_0.2(MoO_4)_3:Eu_{0.83+}$, the luminous intensity of the present invention is improved by about 6 times.

21: 2022/11489. 22: 2022/10/20. 43: 2023/01/24
51: H04N

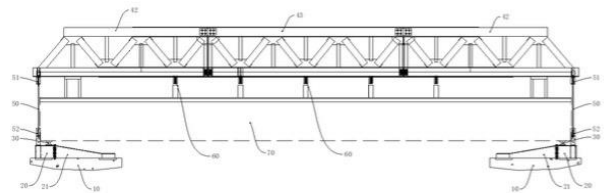
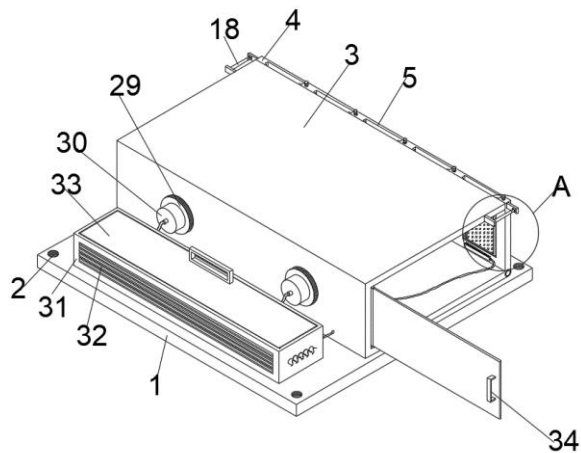
71: Inner Mongolia Minzu University

72: Chen xueyan, Qi wei, Yong sheng, Cheng peng, Liu lina

54: BAD CONTENT CHECK DEVICE FOR LIVE VIDEO

00: -

The invention provides a device for checking the bad content of a live video, and relates to the technical field of checking the bad content of the video. A detection box is fixedly connecte to that rear end of the upper surface of the bottom plate, the rear end of the detection box is hinged with a mounting plate, a plurality of mount grooves are formed in the upper surface of each mounting plate, a plurality of L-shape mounting cavities are formed in each mounting plate, One side of the L-shaped mounting cavity is rotatably connected with a rotating rod. Accord to that device for checking the bad content of the live video provided by the invention, whether a plurality of live videos violate the rule or not can be automatically checked, and meanwhile, a plurality of different types of live videos are continuously selected at intervals through the live display screen body, so that the checking efficiency and various live contents can be greatly improved, and great benefits are brought for purifying a live environment.

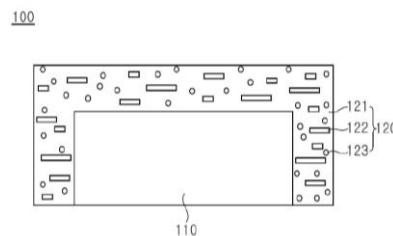


21: 2022/11493. 22: 2022/10/20. 43: 2023/02/13
 51: G01N
 71: CHINA RAILWAY SIXTH GROUP CO., LTD,
 CHINA RAILWAY SIXTH GROUP FENGQIAO
 BRIDGE CO., LTD
 72: ZHANG, Enlong, CAO, Xu, YANG, Xuekun, LI,
 Taotao, ZHANG, Liang, FENG, Minjuan, WANG,
 Xiandong, XIE, Chaohua, WANG, Yanhong, LEI,
 Zhiwei, WANG, Zhiying
 33: CN 31: 202111242218.4 32: 2021-10-25
**54: LOADING STRUCTURE SYSTEM FOR STATIC
 LOAD BENDING TEST ON BOX GIRDER
 PREPARED FOR DOUBLE TRACK RAILWAY**
 00: -

A loading structure system for a static load bending test on a box girder prepared for a double track railway is provided which relates to the technical field of testing equipment for box girder. The loading structure system includes a harden foundation, two balance bottom beams, two groups of supports, a main loading beam, two groups of pulling pieces, and a plurality of load components. The two balance bottom beams are under two ends of the box girder, respectively, and an outer end of each balance bottom beam extends to an outside of the box girder. The length of the main loading beam is greater than that of the box girder and the two ends of the main loading beam extend to the outside of the box girder. The two ends of the main loading beam are connected with the two balance bottom beams, respectively, through the pulling pieces.

21: 2022/11555. 22: 2022/10/21. 43: 2023/02/01
 51: H01L
 71: Seoul Semiconductor Co.,Ltd.
 72: KIM,Myung Jin , OH, Kwang Yong
 33: KR 31: 10-2019-0001181 32: 2019-01-04
54: LIGHT-EMITTING DIODE PACKAGE
 00: -

A light emitting diode package is disclosed. The light emitting diode package includes: a light emitting diode chip emitting light and a light transmissive member. The light transmissive member covers at least an upper surface of the light emitting diode chip and includes a light transmissive resin and reinforcing fillers. The reinforcing fillers have at least two side surfaces having different lengths and are dispersed in the light transmissive resin.



21: 2022/11573. 22: 2022/10/24. 43: 2023/02/01
 51: A23L; A61K; A61P
 71: Jiangsu Alphay Bio-technology Co., Ltd., Jiangsu
 Alphay Science Institute of Medicinal Fungi
 72: CHEN, Hui, YU, Xiaobing, WU, Weijie, CHEN,
 Jie, XU, Chunhua
**54: FOOD BASED ON EDIBLE AND MEDICINAL
 MUSHROOM DIETARY FIBER**
 00: -

The present disclosure discloses a food based on edible and medicinal mushroom dietary fiber, a production method and an application thereof. The health-care food fiber is made by mixing crushed dry edible mushrooms and beneficial intestinal bacteria; the weight ratio of the crushed dry edible mushroom to the beneficial intestinal bacteria is 2:1; the beneficial intestinal bacteria is Streptococcus

faecalis; the edible mushrooms are *Morchella esculenta* (L.) Pers. and *Antrodia camphorate*, and the weight ratio of *Morchella esculenta* (L.) Pers. to *Antrodia camphorate* is 1:1. In the present disclosure, the food is easy to prepare and the raw materials are widely and easily obtained, and has a remarkable curative effect on constipation. After testing on more than 100 patients, its effective rate is more than 95%.

21: 2022/11591. 22: 2022/10/24. 43: 2023/02/01
51: A62B

71: PH6 Ltd, Alan Britten

72: Alan Britten

33: GB 31: GB2005856.6 32: 2020-04-22

33: GB 31: GB2010507.8 32: 2020-07-08

33: GB 31: GB2017809.1 32: 2020-11-11

54: FACE MASK AND SYSTEM

00: -

A face mask system for removal of pathogens from exhaled air comprising at least one flexible layer comprising a first surface and a second surface, said second surface being opposite to the first surface, and the first surface being in sealingly contact with the face of a user and the second surface being exposed to the environment, wherein at least one layer is provided with an exit port and an inlet port and further wherein the exit port is sealingly connected to a deformable outflow chamber and said exit port further comprising a one way exit valve that is configured to open when a user exhales air and which exit valve closes when the user inhales air.

21: 2022/11655. 22: 2022/10/26. 43: 2022/11/29
51: C02F

71: Yangjiang Polytechnic, Yangjiang Sanyadu High Precision Breeding Co., Ltd

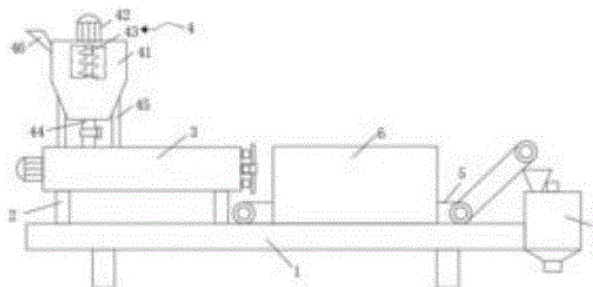
72: Si Yuanyuan, ZHU Sulian, LU Jian, LU Zhenhua, GUO Shenghui

54: DEVICE FOR PREPARING IMMOBILIZED PARTICLES IN AQUACULTURE WATER

00: -

The invention provides a device for preparing immobilized particles in aquaculture water, and relates to the technical field of preparation of sewage treatment particles. The device for preparing immobilized particle in aquaculture water comprises a workbench, wherein an mounting column is fixed on that upper surface of the workbench, a screw

pushing mechanism is fixedly arranged on the top of the mounting column, and a stirring mechanism is fixedly arranged on the top of the screw pushing mechanism. According to the invention, through the cooperation between the set drying treatment mechanism and the separation mechanism, particles adhered together during and after drying can be separated, so that a large number of immobilized microbial particles are prevented from adhesion, and the production quality of immobilized microbial particles is effectively guaranteed; and meanwhile, by setting the discharging assemblies, colloidal polymer can be preheated, so that the drying time of immobilized microbial particles is greatly shortened, and the production cycle of particles is shortened.



21: 2022/11656. 22: 2022/10/26. 43: 2023/02/01
51: E02D

71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

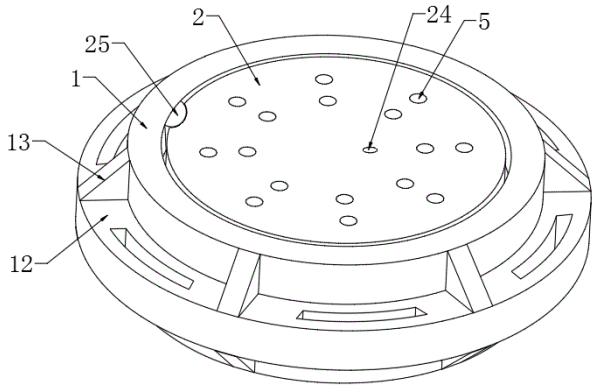
72: MA, Lu, ZHANG, Shujun, ZHU, Zhongqing, CUI, Yanbo, ZHU, Xiaoli, WANG, Hongyan, WANG, Shanfeng, ZHENG, Peng, WANG, Kan

54: MUTE AND NOISE-REDUCING MANHOLE COVER CONVENIENT TO REPLACE

00: -

The present invention discloses a mute and noise-reducing manhole cover convenient to replace. The manhole cover includes an outer manhole ring and a manhole cover plate, a mounting supporting assembly is disposed on an outer portion of the outer manhole ring, a bearing ring is fixedly disposed on an inner ring surface of the outer manhole ring, a high-density rubber seal is disposed on an upper surface of the bearing ring, the manhole cover plate is disposed inside the outer manhole ring and is in contact with an upper surface of the high-density rubber seal, drainage holes are provided in a surface of the manhole cover plate, and a locking

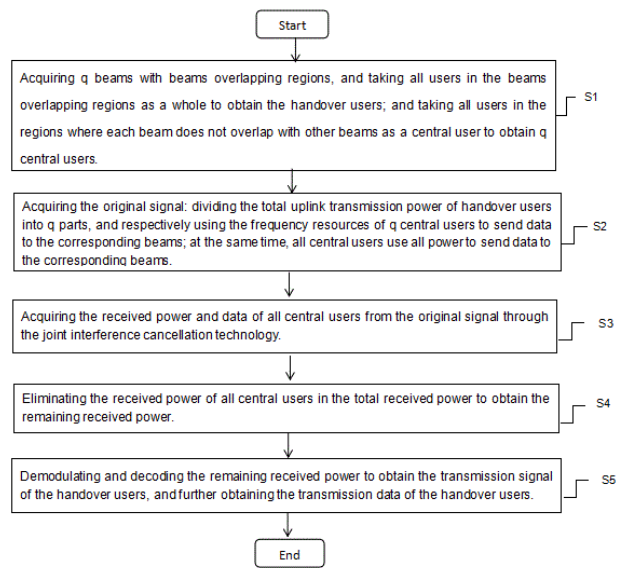
mechanism and a cleaning mechanism are provided between the outer manhole ring and the manhole cover plate. By means of the mute and noise-reducing manhole cover convenient to replace, when vehicles travel over the surface of the manhole cover plate, the manhole cover plate presses second piston rods to move downwards, air enters first cylinders and a high-pressure air accumulation bag via tee pipes due to the air limiting effect of one-way air inlet valves and one-way air outlet valves, and first piston rods are pushed by air pressure inside the first cylinders to be inserted into locking holes, such that the purpose of locking the manhole cover plate is achieved, the manhole cover plate does not need to be additionally fixed with bolts, and mounting is convenient.



21: 2022/11657. 22: 2022/10/26. 43: 2023/02/01
 51: H04B
 71: Sichuan University of Science & Engineering
 72: Li Yitao
54: A SOFT HANDOVER METHOD IN SATELLITE NETWORKS BASED ON THE UPLINK NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) IN SATELLITE-GROUND LINKS

00: -
 The invention discloses a soft handover method in satellite networks based on the uplink non-orthogonal multiple access (NOMA) in satellite-ground links and it comprises the following steps: S1, acquiring the handover users and the central users; S2, acquiring the original signal; S3, acquiring the received power and data of all central users from the original signal through the joint interference cancellation technology; S4, eliminating the received power of all central users in the total received power to obtain the remaining received power; S5,

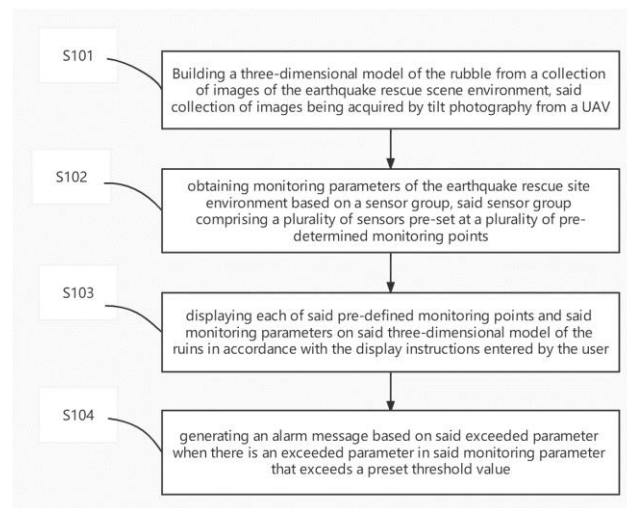
demodulating and decoding the remaining received power to obtain the transmission signal of the handover users, and further obtaining the transmission data of the handover users. In addition, the invention combines the non-orthogonal multiple access technology with the soft handover technology, and realizes the satellite-ground dual-connection transmission of the handover users through the interference elimination technology, thus realizing the joint optimization of the throughput of the satellite-ground link system and the communication service quality of the handover users.



21: 2022/11658. 22: 2022/10/26. 43: 2023/02/01
 51: G06T
 71: National Earthquake Response Support Service
 72: Zhang Tao, Zhang Yunchang, Qu Minhao, Yao Yue, Li Yigang
54: METHOD AND DEVICE FOR MONITORING EARTHQUAKE RESCUE SITE ENVIRONMENT

00: -
 The invention discloses a method and a device for monitoring an earthquake rescue site environment. The method comprises the following steps of: establishing a three-dimensional model of ruins according to an image set of the earthquake rescue site environment, wherein the image set is obtained by inclined photography of an unmanned aerial vehicle; Obtaining monitoring parameters of an earthquake rescue field environment based on a sensor group, wherein the sensor group comprises a

plurality of sensors which are preset at a plurality of preset monitoring points; Displaying the preset monitoring points and the monitoring parameters on the three-dimensional model of the ruins according to a display instruction input by a user; When transfinite parameters exceeding a preset threshold value exist in the monitoring parameters, alarm information is generated according to the transfinite parameters, so that the environment of an earthquake rescue site is monitored more efficiently, and the life safety of rescuers can be furthest guaranteed.



21: 2022/11659. 22: 2022/10/26. 43: 2023/02/01
 51: C08K
 71: Guizhou Minzu University
 72: ZHANG Daohai, ZHAN Xiao, ZHANG Wenjing, WU Xiao, TAN Fang, XU Yuhuan, DU Jingyu, YANG Renyuan, WANG Hongwei, LI Kuntian, TAN Yanyan, PEI Meng, XUE Yu

54: A PBT FLAME-RETARDANT WEAR-RESISTANT COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION

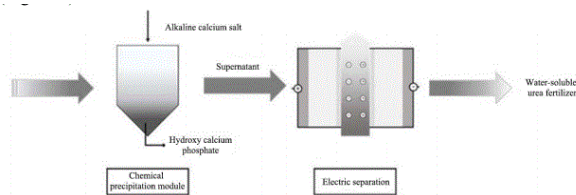
00: -
 The invention relates to a PBT flame-retardant wear-resistant composite material and its preparation method, which belongs to the field of new materials. According to the weight, the PBT flame-retardant wear-resistant composite material and its preparation method is made of PBT in 40-90 portions, wear-resistant agent in 5-20 portions, calcium sulfate whiskers in 5-20 portions, flame retardant in 15-20 portions, synergistic flame retardant in 5-10 portions, silane coupling agent in 1-5 portions, compatibilizer in 1-10 portions,

antioxidant in 0.1-5 portions. The invention also discloses the preparation method and application of the PBT flame retardant wear-resistant composite material. The PBT flame-retardant wear-resistant composite material has excellent wear resistance, flame retardancy, aging resistance and mechanical properties.

21: 2022/11660. 22: 2022/10/26. 43: 2023/02/01
 51: C01B; C02F; C05B; C05C; C05G
 71: Tongji University
 72: WU, Deli, XU, Longqian, DAI, Xiaohu, LIU, Zhigang
 33: CN 31: 202111383705.2 32: 2021-11-22

54: METHOD FOR SIMULTANEOUS SEPARATION AND RECOVERY OF UREA AND PHOSPHORUS IN FRESH URINE

00: -
 A method for simultaneous separation and recovery of urea and phosphorus in fresh urine is provided. The method includes the following steps of: (1) taking an alkaline calcium salt and adding the same to fresh urine, stirring continuously, and then filtering to obtain hydroxy calcium phosphate and dephosphorized urine to complete the separation and recovery of phosphorus; (2) feeding the obtained dephosphorized urine into an electrochemical separation device to obtain a desalted aqueous urea solution, thus completing the separation and recovery of urea.



21: 2022/11661. 22: 2022/10/26. 43: 2023/02/01
 51: C08K
 71: Guizhou Minzu University
 72: ZHANG Daohai, DU Jingyu, ZHANG Wenjing, WU Xiao, TAN Fang, XU Yuhuan, ZHAN Xiao, YANG Renyuan, WANG Hongwei, LI Kuntian, TAN Yanyan, PEI Meng, XUE Yu
54: A CONDUCTIVE LOW WARPAGE WEAR-RESISTANT PBT COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION
 00: -

The invention relates to a conductive low warpage wear-resistant PBT composite material and its preparation method, which belongs to the field of new materials. According to the weight, the conductive low warpage wear-resistant PBT composite material and its preparation method is made of PBT in 40-90 portions, wear-resistant agent in 5-20 portions, calcium sulfate whiskers in 5-20 portions, silane coupling agent in 1-5 portions, compatibilizer in 1-10 portions, antioxidant in 0.1-5 portions, nucleating agent in 0.1-3 portions, lubricant in 1-5 portions.

21: 2022/11662. 22: 2022/10/26. 43: 2023/02/01
 51: C08K
 71: Guizhou Minzu University
 72: ZHANG Daohai, XU Yuhuan, ZHANG Wenjing, WU Xiao, TAN Fang, DU Jingyu, ZHAN Xiao, YANG Renyuan, WANG Hongwei, LI Kuntian, TAN Yanyan, PEI Meng, XUE Yu

54: A HIGH PERFORMANCE SCRATCH RESISTANT PC/ABS COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION

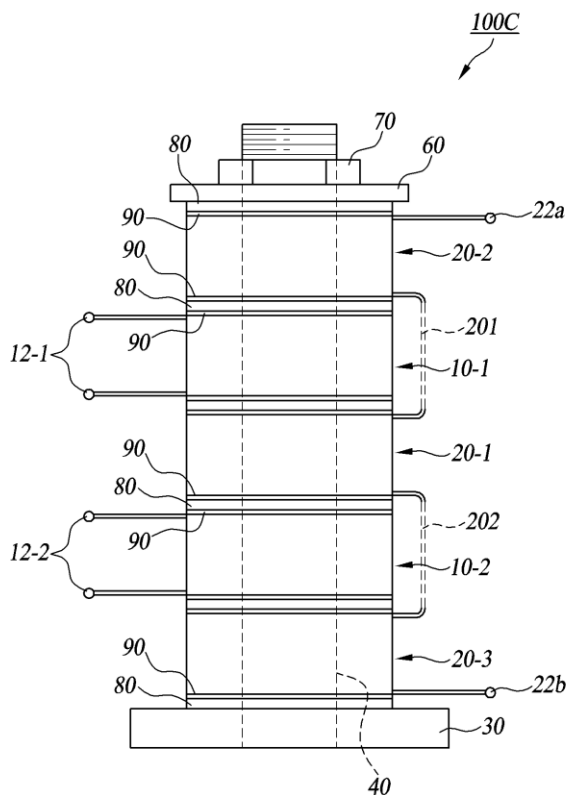
00: -
 The invention relates to a high performance scratch resistant PC/ABS composite material and a preparation method thereof, belonging to the field of new materials. The high performance scratch resistant PC/ABS composite material and its preparation method are composed of 35-70 PC, 20-65 ABS, 10-20 toughening agents, 5-20 nano-barium sulfate, 1-5 silane coupling agents, 5-10 compatibilizers, 1-5 dispersants, 0.1-5 antioxidants, 1-5 lubricants by weight.

21: 2022/11702. 22: 2022/10/26. 43: 2022/11/30
 51: H02K
 71: CHOI, Woo Hee, YOO, Hyung Ju, HWANG, Nan Kyung
 72: CHOI, Woo Hee, YOO, Hyung Ju, HWANG, Nan Kyung, YU, Sung Kwon
 33: KR 31: 10-2020-0038668 32: 2020-03-30
 33: KR 31: 10-2020-0038669 32: 2020-03-30

54: NON-ROTATING TYPE DIRECT CURRENT GENERATOR

00: -
 The present invention relates to a non-rotating direct current electric generator capable of generating a direct current with high efficiency without rotating a

field magnet or an armature. The non-rotating direct current electric generator according to the present invention is a direct current electric generator generating a direct current, and is characterized by comprising a drive unit and a generator unit, wherein the generator unit comprises: a rod-shaped core member; a field magnet having a first hollow part in the center part along with the winding of an electric line, and disposed on the outside of the core member through the first hollow part; and an armature having a second hollow part in the center part along with the winding of an electric line, and disposed on the outside of the core member through the first hollow part, wherein a pole piece is provided between the field magnet and the armature, an insulating plate is disposed between the field magnet and the pole piece and between the armature and the pole piece, and the drive unit supplies a field current to the generator unit on the basis of an alternating current from an alternating current power source.



21: 2022/11706. 22: 2022/10/26. 43: 2023/02/08
 51: A61K; A61P

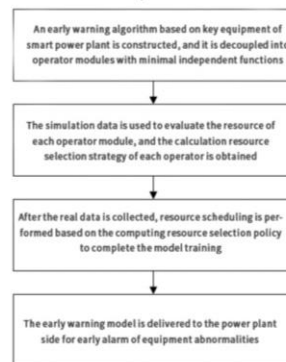
71: LASKAVYI, Vladislav Nikolaevich
 72: LASKAVYI, Vladislav Nikolaevich, SHURDOV, Mikhail Arkadevich
 33: RU 31: 2020112322 32: 2020-03-26
54: MEDICINE/AGENT FOR THE TREATMENT OF CORONAVIRUS, RETROVIRAL INFECTIONS AND HEPATITIS C

00: -
 The invention relates to medicine and veterinary medicine, and more specifically to pharmacology, and can be used to treat viral infections caused by RNA viruses that have a lipid envelope, in particular coronaviral infections, AIDS and hepatitis C. The invention extends the range of drugs for the claimed purpose. The technical result is the creation of a drug having an intracellular, antiseptic effect that activates the production of endogenous formaldehyde in the body of a human and animals without having side effects and toxicity. The technical result is achieved by the use of an immunomodulating drug comprising 0.073-0.075% of formaldehyde in an isotonic solution of sodium chloride as a drug for intramuscular injections with a single 5 ml injection dosage for treating coronaviral and retroviral infections and hepatitis C.

21: 2022/11713. 22: 2022/10/27. 43: 2023/02/01
 51: G06Q
 71: Jiaxing Vocational Technical College
 72: Kun Ma, Lingyu Xu, Mingyu Wu, Houjun Zhang, Xiaoping Shen
 33: CN 31: 202211118158.X 32: 2022-09-15
54: AN EARLY WARNING MODELING METHOD BASED ON AUTOMATIC SCHEDULING OF CPU AND GPU COMPUTING RESOURCES IN SMART POWER PLANTS

00: -

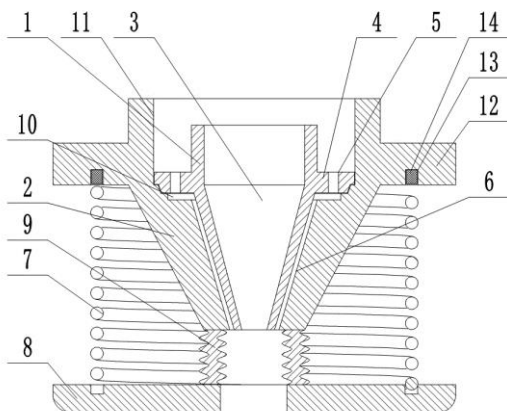
The invention discloses a CPU and GPU computing resources based on intelligent power plant automatic scheduling of early warning modeling method, used to implement the modeling of the decoupling and optimal computing resource scheduling. It includes Steps S1: build early warning algorithm M based on the key equipment of intelligent power plant, and decoupling is divided into modules, which has the function of the minimum independent operator expressed as: $M = \{m_1, m_2, \dots, m_i\}$, m represents the operator, i represents the total number of operator; Step S2: The corresponding operator of the obtained operator module is modified by GPU, so as to realize the migration of the calculation of the corresponding operator from CPU to GPU. The invention discloses an early warning modeling method based on the automatic scheduling of CPU and GPU computing resources in intelligent power plant, which solves the problem of the limited computing resources in power plant side. It can realize the decoupling of modeling and optimization of computing resource scheduling, and can efficiently realize the early warning modeling of power plant on the CPU and GPU fusion platform.



21: 2022/11714. 22: 2022/10/27. 43: 2023/02/01
 51: B23K
 71: Jinan Senfeng Laser Technology Co.,Ltd, Shandong Xinguang Photoelectric Technology Co., Ltd
 72: XING Zhenhong, LIU Peng, WANG Cuiping, LI Rongchang, LI Yang, WANG Huilai
54: NOZZLE FOR LASER CUTTING AND LASER PROCESSING DEVICE

00: -
 The invention discloses a nozzle for laser cutting, which comprises an inner sleeve, wherein the center of the inner sleeve is provided with a central channel; the outer wall of the inner sleeve is provided with an outer sleeve, an outer channel is arranged between the inner sleeve and the outer

sleeve, and the outlet of the outer channel is arranged around the central channel; a connecting spring is arranged outside the sleeve, and the bottom end of the connecting spring is fixedly connected with a contact ring; the bottom end of the outer sleeve is fixedly connected with a connecting pipe, and the bottom end of the connecting pipe is fixedly connected with the center of the contact ring. The nozzle of the invention improves the jet pressure of the nozzle, improves the blowing effect, reduces the splashing of molten slag around and improves the cutting quality.



21: 2022/11715. 22: 2022/10/27. 43: 2023/02/01
 51: B64C; G01N
 71: HuangShan University
 72: SU Shengrong, ZHENG Lei, YE Shuangfeng, CHENG Donghua, ZHANG Ye, WAN Zhibing, ZHANG Shengwei, LI Quan, FANG Zheyi
 33: CN 31: 202111583243.9 32: 2021-12-22
54: METHOD FOR COLLECTING DROPLETS FOR DRUG APPLICATION BY UNMANNED AERIAL VEHICLE

00: -
 Disclosed is method for collecting droplets for drug application by unmanned aerial vehicle, belonging to the technical field of droplet collection methods, and including: S1, fixing droplet testing cards on objects that can float in an air; S2, fixing the objects with the droplet testing cards by traction wires with a specific length; S3, spraying chemicals into an environment provided with the droplet testing cards; and S4, collecting the droplet testing cards sprayed with chemicals for analysis. The method provided by the present application has the advantages of easy control, high accuracy, low cost of test equipment, large capacity of test samples, in addition to

providing rather accurate statistical analysis of data and accurate results.

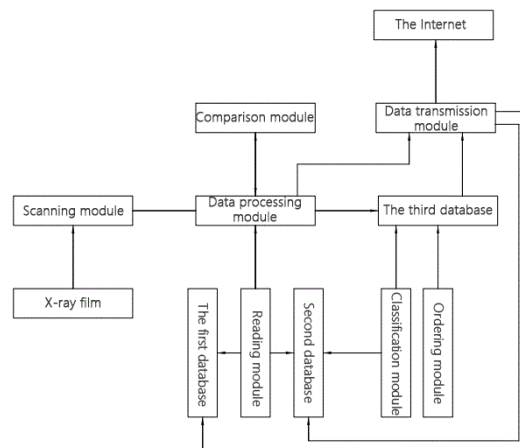
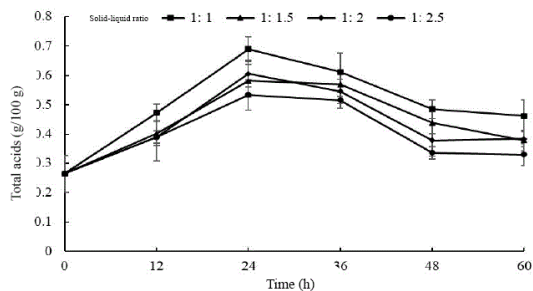
21: 2022/11716. 22: 2022/10/27. 43: 2023/02/01
 51: A01K; A23K
 71: Guizhou Normal University, Guizhou Wuying Agricultural Technology Development Co., Ltd.
 72: LI, Yuke, GONG, Jiyi, YI, Yin, LIU, Jie, LI, Fei, ZHANG, Yubin, TANG, Jiafu, LONG, Xinji
 33: CN 31: 202210755586.7 32: 2022-06-29
54: COMPOSITION AND METHOD FOR IMPROVING FERTILIZATION SUCCESS RATE OF ARTIFICIAL HYBRIDIZATION OF POLYGONATUM, AND USE THEREOF
 00: -

The present disclosure provides a composition and a method for improving a fertilization success rate of artificial hybridization of Polygonatum, and use thereof, and relates to the technical field of artificial hybridization.

21: 2022/11717. 22: 2022/10/27. 43: 2023/02/01
 51: A23L
 71: YANCHENG TEACHERS UNIVERSITY, Jiangsu Vocational College of Medicine, Yancheng Tinghu District Dezerui Biotechnology Co., Ltd.
 72: HONG, Jian, SHI, Yun, KANG, Yijun, ZHANG, Yanzhou, ZHU, Dewei, BU, Jing
 33: CN 31: 202210242104.8 32: 2022-03-11
54: FERMENTED AND FREEZE-DRIED CYNANCHUM BUNGEI DECNE SLICES WITH ANTIOXIDANT ACTIVITY AND SURFACE FERMENTATION METHOD THEREOF
 00: -

The present disclosure discloses fermented and freeze-dried Cynanchum bungei Decne slices with antioxidant activity and a surface fermentation method thereof. The method is based on the surface fermentation process. Cynanchum auriculatum Royle ex Wight is sliced and then gelatinized, and an amylase solution is added for saccharification, and then the compound bacteria composed of Lactobacillus paracasei and Saccharomyces cerevisiae are inoculated for fermentation, finally the fermented slices are freeze-dried to prepare fermented and freeze-dried Cynanchum bungei Decne slices. The method of the present disclosure preserves the original pure natural flavor of Cynanchum auriculatum Royle ex Wight to the greatest extent, and at the same time the prepared fermented and freeze-dried slices of Cynanchum

auriculatum Royle ex Wight contain a large amount of nutrients and active substances such as organic acids, amino acids, flavonoids, etc., which endow the fermented tablets with the unique flavor and healthcare effect of *Cynanchum bungei* Decne.



21: 2022/11718. 22: 2022/10/27. 43: 2023/02/01
51: G06K

71: Jiaxing Vocational Technical College

72: Mingyu Wu, Jianping Lan, Kun Ma

33: CN 31: 202211163049.X 32: 2022-09-23

54: A PET X-RAY FILM RECOGNITION SYSTEM AND ITS METHOD BASED ON ARTIFICIAL INTELLIGENCE

00: -

The invention discloses a pet X-ray film recognition system and its method based on artificial intelligence. The scanning module is used to scan various healthy X-ray films, unhealthy X-ray films and X-ray films to be diagnosed, and the X-ray film data is sent to the data processing module. The data processing module is used to save all kinds of healthy X-ray film data and unhealthy X-ray film data to the first and second database respectively; The reading module is used to read the X-ray data stored in the first and second database and send it to the comparison module; The comparison module is used to compare and diagnose the X-ray data to be diagnosed with the X-ray data stored in the first and second databases, and send the comparison and diagnosis information to the third database and save it in the third database. The invention matches the X-ray films to be diagnosed with various types of X-ray films recorded in the database in advance, and assists the doctor to quickly determine the cause of the pet and carry out treatment in time.

21: 2022/11719. 22: 2022/10/27. 43: 2023/02/01
51: E04C; E04G

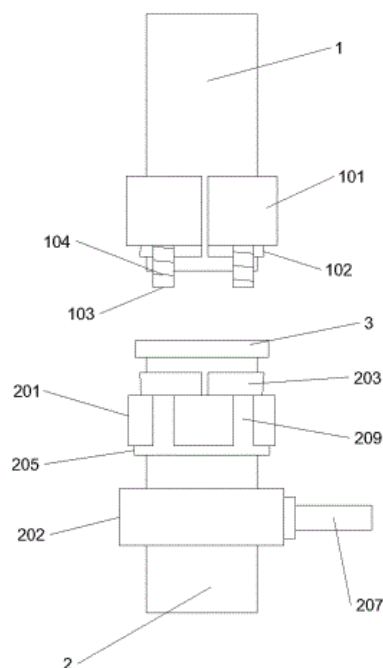
71: Huzhou Vocational and Technical College (Huzhou Radio and Television University) (Huzhou Community University)

72: XIE Enpu, BAO Yibei, WEI Hai, HUANG Kun, ZHANG Xianjiang

54: CONCRETE COLUMN GEOPOLYMER CONCRETE REINFORCEMENT DEVICE

00: -

The invention relates to the field of concrete construction, in particular to a concrete column geopolymer concrete reinforcement device, which comprises an upper assembly column and a lower assembly column, wherein a buffer sleeve is connected between the upper assembly column and the lower assembly column in contact; a pressing rubber sleeve is sleeved on the periphery of the upper assembly column, a plurality of pressing half sleeves are sleeved on the periphery of the pressing rubber sleeve, and the pressing half sleeves are clamped with the pressing rubber sleeve; the peripheral side of the lower assembly column is sleeved with a lower locking rubber sleeve, the peripheral side of the lower locking rubber sleeve is sleeved with a matching base sleeve, the lower part of the matching base sleeve is rotatably connected with a locking sleeve, and the locking sleeve is in threaded connection with the pressing half sleeve. Using these structures, a concrete column geopolymer concrete reinforcement device with low cost, good connection effect, high connection stability, convenient use and construction operation is formed.



substances, inorganic substances and traditional Chinese medicine powder. So, it has an outstanding effect on improving the yield of millet.

21: 2022/11721. 22: 2022/10/27. 43: 2023/02/01
51: A01K

71: Gansu Institute of Animal and Veterinary Science

72: Dong He, Guo Hailong, Yang Junxiang, He Maochang, Gu Lingrong, Sang Guojun

54: DEVICE FOR CLEANING MANURE IN CATTLE FARM

00: -

The invention relates to the technical field of cattle farm manure cleaning, in particular, to a device for cleaning manure in a cattle farm. The device includes a bullpen bottom plate and a support bracket. The bullpen bottom plate is laid on the ground, both sides of the bullpen bottom plate are mounted with raised road edges, and a center of the bullpen bottom plate is provided with a groove. The groove is provided inside with a steel wire rope, and an outer side of the steel wire rope is fixedly connected with a sliding assembly. An outer side of the sliding assembly is slidably connected with the bullpen bottom plate through the groove, and an outer side of the sliding assembly is fixedly connected with a cleaning plate. One side of the cleaning plate facing the bullpen bottom plate is connected with a pressing assembly, and the cleaning plate is connected inside with an lengthening assembly. In the invention, the cleaning plate is arranged inside the cattle farm, a winding wheel is driven by a second motor to rotate to further drive the cleaning plate to move, and the manure on a surface of the bullpen bottom plate may be cleaned at one time by moving the cleaning plate, so that the operation is very convenient, and the pressing assembly provided can ensure that the manure can be cleaned even if the surface of the bullpen bottom plate is uneven.

21: 2022/11720. 22: 2022/10/27. 43: 2023/02/01

51: A01C; C05G

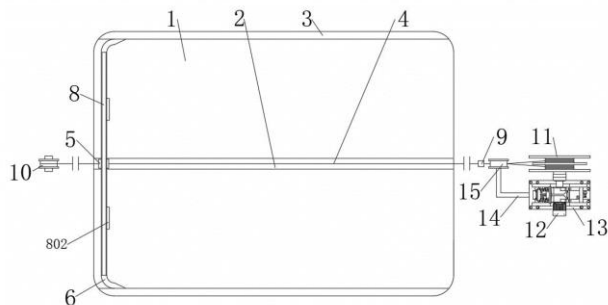
71: High Latitude Crops Institute to Shanxi Academy, Shanxi Agricultural University

72: ZHU Wenjuan, REN Yuemei, GUO Ruifeng, ZHANG Shou, REN Guangbing, YANG Zhong

54: NUTRITIONAL FERTILIZER FOR MILLET CULTIVATION

00: -

The invention discloses a nutritional fertilizer for millet cultivation, belonging to the technical field of fertilizers. The raw materials of the nutrient fertilizer include straw, poultry manure, potassium dihydrogen phosphate, potassium gluconate, ammonium chloride, traditional Chinese medicine powder, humic acid, yeast, photosynthetic bacteria, margsine and bacillus. The preparation method comprises the following steps: crushing straw, uniformly mixing it with poultry manure, then adding photosynthetic bacteria and yeast for fermentation, continuously adding potassium dihydrogen phosphate, potassium gluconate, ammonium chloride, traditional Chinese medicinal powder, humic acid and margsine, mixing, finally adding bacillus, uniformly stirring, continuously fermenting, introducing a granulator for granulation, and drying to obtain the nutritional fertilizer for millet cultivation. According to the invention, various nutritional elements can be released due to the composite proportion of organic



21: 2022/11722. 22: 2022/10/27. 43: 2023/02/01
51: A23D; A23L

71: Livestock Workstation in Altay Region
72: WANG, Yue, AHEMAITIBAI, Tengnengsi, HEIZHATIDUOLA, Naziguli, WU, Hairong, REZIBIKE, Nu'erguli, KAMAIER, Gulijiyinati
33: CN 31: 202210931589.1 32: 2022-08-04

54: APPLICATION OF ALTAY SHEEP TAIL OIL IN PREPARING HALAL LIFE-NOURISHING HOTPOT CONDIMENT

00: -
Disclosed is an application of Altay sheep tail oil in preparing a halal life-nourishing hotpot condiment. In the application, refined Altay sheep tail oil is taken as a primary raw material; the Altay sheep tail oil is boiled by a dry method or adding water to obtain crude Altay sheep tail oil; and then the crude Altay sheep tail oil is subjected to process treatment such as degumming, deacidification, deodorizing and decoloring to obtain refined Altay sheep tail oil. Taboos such as self-dead things, blood and pork are not added. Meanwhile, the refined Altay sheep tail oil is combined with one or more of conventional medicinal and edible products such as sheep bones, Panax ginseng, Angelica sinensis, Astragalus mongholicus, Herba cistanches and Radix glycyrrhizae, so that different life-nourishing values of the hotpot condiment are increased.

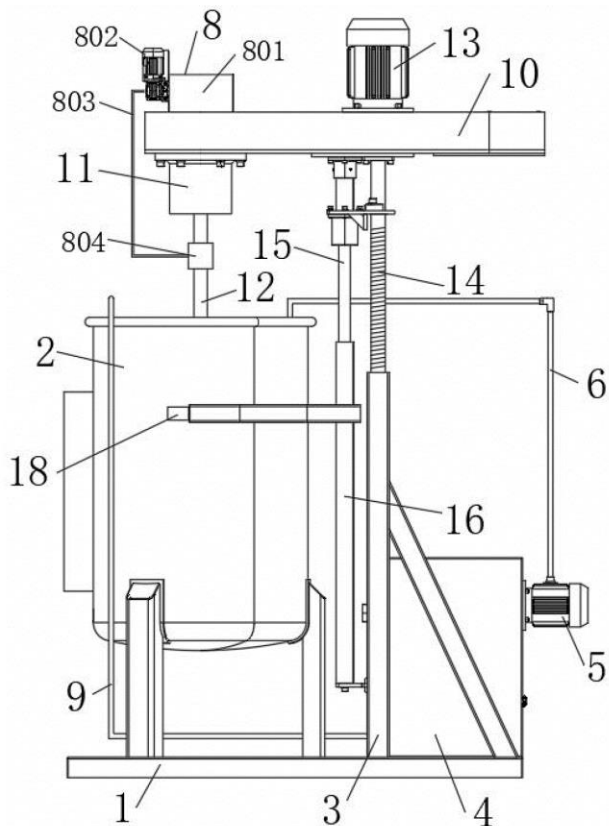
21: 2022/11723. 22: 2022/10/27. 43: 2023/02/01
51: C05F

71: Gansu Institute of Animal and Veterinary Science
72: He Maochang, Dong He, Guo Hailong, Yang Junxiang, Gu Lingrong, Sang Guojun

54: HARMLESS FERMENTATION APPARATUS FOR PREPARING FERTILIZER FROM LIVESTOCK AND POULTRY WASTE

00: -

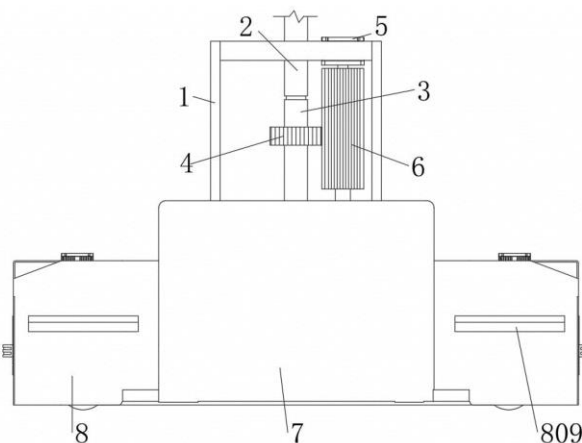
The disclosure relates to the technical field of livestock and poultry waste treatment, and in particular to a harmless fermentation apparatus for preparing fertilizer from livestock and poultry waste. The harmless fermentation apparatus includes a bottom plate, where a storage assembly, a threaded sleeve and a heating box are mounted above the bottom plate, a heating assembly is arranged inside the storage assembly, an outer side of the heating box is fixedly connected to a second circulating pump and is in communication with an input end of the second circulating pump, an output end of the second circulating pump is in communication with an input pipe, the other end of the input pipe is in communication with the heating assembly, one side of the portion above the heating assembly is in communication with an output pipe, and the other end of the output pipe is in communication with the heating box. According to the disclosure, the second circulating pump is started to pump hot water in the heating box into a rotating plate, a first electric motor is started to drive a hollow pipe to rotate, the hollow pipe drives a sealing cover to rotate, and therefore, heating pipes rotate; and in this case, livestock waste can be stirred, and meanwhile the interior of the waste can be heated, such that under an action of the storage assembly, a temperature of an outer side and a temperature of an inner side of the waste are guaranteed to be consistent, and the fermentation quality is guaranteed.



21: 2022/11724. 22: 2022/10/27. 43: 2023/02/01
 51: C05F
 71: Gansu Institute of Animal and Veterinary Science
 72: He Maochang, Dong He, Guo Hailong, Yang Junxiang, Gu Lingrong, Sang Guojun
54: RECYCLING TREATMENT APPARATUS FOR LIVESTOCK AND POULTRY WASTE AND USAGE METHOD THEREFOR

00: -
 The disclosure relates to the technical field of livestock and poultry waste, and in particular to a recycling treatment apparatus for livestock and poultry waste and a usage method therefor. The recycling treatment apparatus for livestock and poultry waste includes a supporting frame, where a bottom of the supporting frame is fixedly connected to a solid-liquid separation box used for solid-liquid separation of the waste, an interior of the supporting frame is fixedly connected to a conveying pipe, a lower portion of the conveying pipe is rotationally connected to a rotating pipe, waste treatment modules are connected to two sides of the solid-liquid separation box, and a driven gear is fixedly connected to an outer side of the rotating pipe. In the

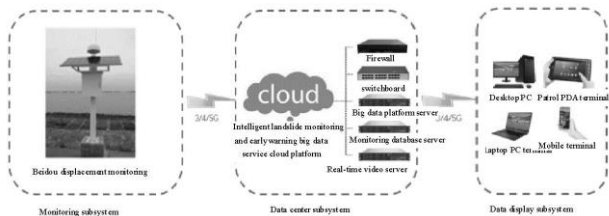
disclosure, two cavities are provided inside the solid-liquid separation box, and a discharging port of the rotating pipe can convey materials to the two cavities inside the solid-liquid separation box in sequence; and when the materials are conveyed to one of the cavities, for the other cavity, a third hydraulic rod is started to drive a discharging plate to move, such that the solid waste materials in the cavity are pushed into the corresponding waste treatment module. In this case, the livestock and poultry waste materials can be continuously treated without stopping of the apparatus, thereby greatly improving the working efficiency.



21: 2022/11725. 22: 2022/10/27. 43: 2023/02/01
 51: E21F
 71: Anhui University of Science and Technology
 72: ZHU Mingfei, YU Xuexiang
54: AUTOMATIC MONITORING AND EARLY WARNING SYSTEM FOR MINE GEOLOGICAL ENVIRONMENT DISASTERS

00: -
 The invention relates to an automatic monitoring and early warning system for mine geological environment disasters, which comprises a monitoring subsystem, a data center subsystem and a data display subsystem, wherein the monitoring subsystem is respectively connected with the data center subsystem and the data display subsystem, and the data center subsystem is connected with the data display subsystem. By adopting Beidou /GNSS automatic monitoring technology and combining with other monitoring data, the invention realizes the rapid, real-time, dynamic, accurate and automatic monitoring of geological disaster hidden points such as subsidence deformation areas, unstable slopes,

cracks, goaf subsidence and rainfall in coal mining areas.



21: 2022/11726. 22: 2022/10/27. 43: 2023/02/01
51: A23B

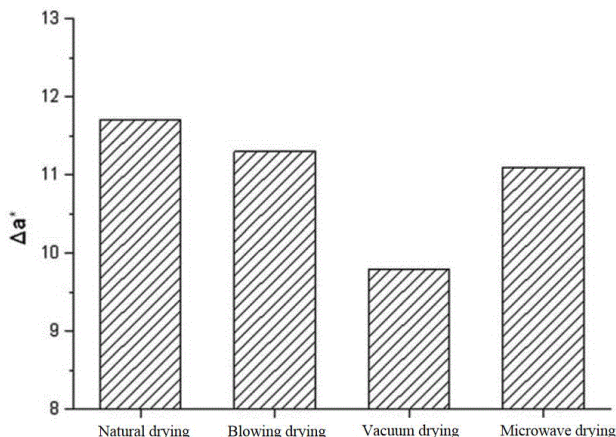
71: Shanxi Institute for Functional Food, Shanxi Agricultural University

72: CHENG Zhe, LI Yunlong, LI Qi, HU Junjun, LI Hongmei, GUO Hong, ZHANG Qianfang, LI Min

54: STORAGE METHOD FOR CONTROLLING BROWNING OF BUCKWHEAT RICE

00: -

The invention relates to the technical field of crop storage methods, and provides a storage method for controlling the browning of buckwheat rice in order to solve a lack of systematic browning control method of buckwheat rice at present. Removing dust, grass seeds and impurities from raw buckwheat grain; vacuum drying at a vacuum degree of -0.085 to -0.090 Megapascal, a temperature of 40 degree Celsius for 48 hours; controlling the water content of buckwheat rice to equal to or less than 14 percent; grade shelling, selecting whole rice without diseases, insect pests and breakage, vacuum microwave pretreating for 30 seconds before storage at a the microwave frequency of 2450 Megahertz plus or minus 50 Megahertz, a vacuum degree of equal or less than -0.085 Megapascal, and a temperature of 40 degree Celsius, storing in the 20-wire pure aluminum foil vacuum bag at 10 degree Celsius plus or minus 2 degree Celsius in the dark. The invention protects the content of chlorophyll and reduces the browning caused by chlorosis of the buckwheat; controls the decrease of total phenol content and reduces browning; inhibits the activity of polyphenol oxidase, so as to inhibit the enzymatic browning of polyphenol oxidase on phenolic substances; controls the browning of buckwheat rice, and reduces the loss of nutrients and functional substances.



21: 2022/11761. 22: 2022/10/28. 43: 2023/02/01
51: A61K

71: Agricultural Technology Promotion Center in Altay Region, Ili Kazakh Autonomous Prefecture

72: YAN, Li, CAO, Jianyun, LV, Xiaoxia, JIAO, Bin, JIANATI, Tasiken, LI, Huan, XIAO, Ronghua

33: CN 31: 202210931293.X 32: 2022-08-04

54: TIANSHAN JIMEI REPAIRING AND NOURISHING FACIAL CREAM

00: -

Provided is a traditional Chinese medicine repairing and nourishing facial cream, including the following raw materials in percentage by weight: 0.5-5% of various traditional Chinese medicine extracts, 1-5% of nicotinamide, 70-80% of water, 2-6% of glycerinum, 2-4% of glycine betaine, 1-3% of propylene glycol, 0.1-0.5% of sodium hyaluronate, 1-3% of caprylic/capric triglyceride, 4-6% of hydrogenated polyisobutene, 1-3% of cetearyl alcohol, 0.1-0.5% of tocopherol succinate, 0.2-0.5% of carbomer, 0.1-0.5% of triethanolamine, 0.1-1% of vitamin C, 0.01-0.04% of ethylene diamine tetraacetic acid disodium salt, 0.4-1% of phenoxyethanol, 0.05-0.1% of essence and the like. The facial cream is a comprehensive expression of traditional Chinese medicine ancient prescriptions, combines natural extracts of genuine traditional Chinese medicinal materials, and is supplemented by a repairing star component nicotinamide. The facial cream is appropriate for a wide range of people, is prepared from non-toxic and non-irritant natural raw materials, and can meet people's daily requirements.

21: 2022/11762. 22: 2022/10/28. 43: 2023/02/01
51: C05G

71: Zhengzhou Shengrun Biomass Energy Chemical Research Institute, Xinjiang Yingshili Technology Co., Ltd.

72: MA, Zhaofang, GUO, Lanju, ZHAO, Shandong

54: PLANT ACID FERTILIZER FOR CONTROLLING SALINE-ALKALI LAND

00: -

The present invention relates to a plant fertilizer for improving saline-alkali land. The technical solution is as follows: the plant fertilizer is prepared from the following components in percentage by weight: 37-60% of plant straws, 21-42% of plant acid, 10-26% of compound amino acid, 1-4% of polyamide and 1-4% of acid liquid (the total amount is 100%). During preparation, the plant straws are smashed at first, stirred and poured into a fermentation tank; then the plant acid and the compound amino acid are poured into the tank; the mixture is stirred at 18-25 degrees Celsius for 3-6 hours, and then a pH value is adjusted to 4-6 using the acid liquid; finally, the polyamide is added, and the mixture is stirred for 2-3 hours to obtain a finished product with a pH value of 4.2. The plant fertilizer has a scientific and reasonable composition and a powerful soil conditioning property.

21: 2022/11763. 22: 2022/10/28. 43: 2023/02/01
51: A61K; C12P

71: Jilin Agricultural University

72: WANG Qi, LIU Yang, DAI Yingdi, LIU Mengdi, SU Ling

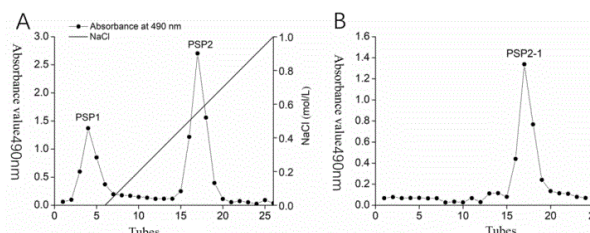
33: CN 31: 202211150847.9 32: 2022-09-21

54: POLYSACCHARIDE EXTRACT OF PLEUROTUS SAJOR-CAJU, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a polysaccharide extract of pleurotus sajor-caju, a preparation method and application thereof, and belongs to the field of natural product development. The above-mentioned polysaccharide extract of pleurotus sajor-caju includes fucose, galactose, glucose and mannose, accounting for 2.4%, 28.81%, 30.63% and 37.79% respectively. The main connection modes are T-fucose, 1,6-galactose, T-glucose, 1,6-glucose, 1,3,6-glucose, 1,3-mannose, 1,2,6-mannose and T-mannose. The polysaccharide extract can be obtained by hot water extraction, ethanol precipitation and ion chromatography purification. Experiments show that the polysaccharide extract

has protective effect on nerve cells damaged by oxidation, and can improve the learning and memory ability of aging mice. It can be seen that the preparation method of the invention is simple, and provides a research foundation for the development of neuroprotection and anti-aging drugs.



21: 2022/11764. 22: 2022/10/28. 43: 2023/02/01
51: G01N

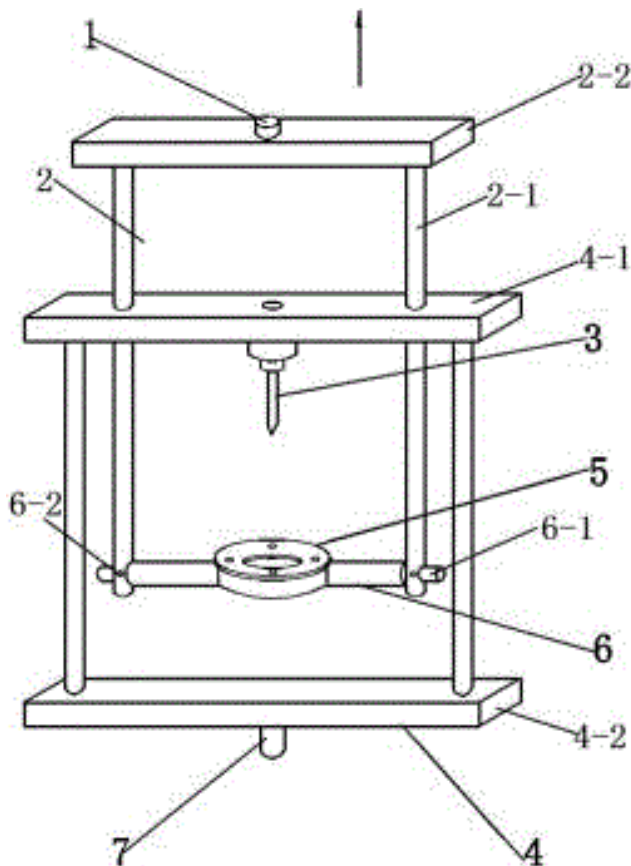
71: XI'AN POLYTECHNIC UNIVERSITY

72: WANG Qiushi, WANG Shan, ZHANG Xiaotong, CUI Zhongxue, CHEN Meiyu, SUN Runjun

54: QUASI-STATIC ANTI-PUNCTURE PERFORMANCE TESTING DEVICE AND METHOD WITH ADJUSTABLE PENETRATION ANGLE

00: -

The invention discloses a quasi-static anti-puncture performance testing device with adjustable penetration angle, which comprises a sample clamping frame and a puncture nail mounting frame, which are combined into a whole through mutual nesting; the sample clamping frame comprises a sample holder base; a puncture nail is arranged on the puncture nail mounting frame; a sample holder is arranged on the sample holder base. The invention solves the problem that the anti-puncture performance test in the prior art can only characterize the anti-puncture performance at the vertical angle, and realizes the multi-angle anti-puncture performance test of functional textiles. The invention also discloses a test method using the device.

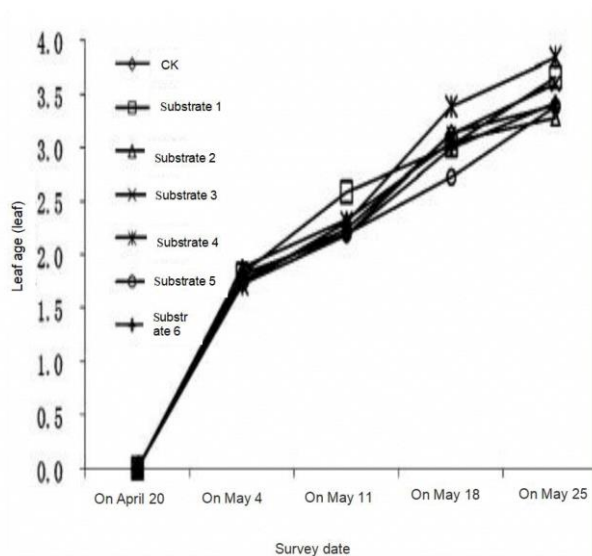


21: 2022/11765. 22: 2022/10/28. 43: 2023/02/01
 51: A01G
 71: Yanbian University
 72: Fu Minjie

54: A RICE SEEDLING RAISING SUBSTRATE WITH AURICULARIA AURICULA FUNGUS RESIDUE AS THE MAIN RAW MATERIAL AND ITS PREPARATION METHOD

00: -
 The invention relates to the technical field of preparation of crop seedling substrates, in particular to rice seedling raising substrate with Auricularia auricula fungus residue as the main raw material and its preparation method. And the effective components of the rice seedling raising substrate include structural materials and additive materials; and the structural materials include Auricularia auricula fungus residue, peat, furnace slag powder and bentonite; And the additive materials include calcium lignosulfonate, urea, diammonium phosphate and Trichoderma harzianum. The method for preparing the rice seedling substrate with Auricularia auricula fungus residue as the main raw material comprises the following steps: S1, processing all components of raw materials required

by structural materials; S2, preparing structural materials in proportion; S3, adding fertilizer, blending agent and bacteriostatic agent into the structural materials. And compared with the prior technology, the invention can obtain the following technical effects: waste materials such as Auricularia auricula fungus residue can be fully utilized to prepare the high-quality substrate for rice seedling raising, which is environment-friendly, clean and low in cost; And the rice seedling raising substrate has balanced and sufficient nutrition, good air permeability and water retention, proper pH value, no disease, insect and grass damage to rice seedlings, early and uniform seedlings emergence, good root and good seedling quality.



21: 2022/11766. 22: 2022/10/28. 43: 2023/02/01
 51: A23K
 71: Agricultural Technology Promotion Center in Altay Region, Ili Kazakh Autonomous Prefecture
 72: ZHANG, Liang, JIANATI, Tasiken, YAN, Li, MA, Wenjun, LIU, Su, TUOLIBIEGEN, Muheiti, TANG, Yuqing, LIU, Yuling
 33: CN 31: 202210935157.8 32: 2022-08-04
54: CHINESE HERBAL MEDICINE FORTIFIED FEED FOR IMPROVING IMMUNITY AND MILK YIELD OF CATTLE AND SHEEP

00: -
 Provided is a Chinese herbal medicine fortified feed for improving immunity and milk yield of cattle and sheep, including the following raw materials in percentage by weight: 10 parts of Scutellaria baicalensis stem leaf, 10 parts of Fructus sophorae, 10 parts of Ampelopsis grossedentata and 5 parts of

Glycyrrhiza uralensis stem leaf. Excipients include the following raw materials in percentage by weight: 20 parts of wheat bran, 20 parts of soybean meal and 40 parts of corn meal. The present invention not only provides feed with good taste and balanced nutrition for cattle and sheep, but also improves the immunity of cattle and sheep to make cattle and sheep grow up healthily and further increase the milk yield and quality.

21: 2022/11767. 22: 2022/10/28. 43: 2023/02/01
51: A23G

71: Livestock Workstation in Altay Region
72: BIYADI, Ayiguli, MAHEMUTI, Ye'erjiang, KAMAIER, Gulijayinati, YESELIHAN, Wurenqiqige, KAMAIER, Adali, SONG, Fei, HEIZHATIDUOLA, Naziguli

33: CN 31: 202210931282.1 32: 2022-08-04

54: ALTAY BIG-TAILED SHEEP BONE CALCIUM TABLET CANDY AND PREPARATION METHOD THEREOF

00: -

Disclosed are a TCM tablet candy for improving an amount of calcium in the human body and a preparation process thereof. The preparation process includes the following steps: (1) extraction of sheep bone powder: freezing a certain amount of fresh sheep bone at a low temperature, performing coarse crushing on the sheep bone, degreasing the power after high-temperature stewing, drying and sieving the degreased power to obtain sheep bone powder; (2) extracting Pueraria lobata twice with 70% ethyl alcohol and freeze-drying the extract at 70 Celsius degree; (3) dispersing phytosterol and the Pueraria lobata extract evenly, mixing both with the sheep bone powder, adding 10% maltodextrin by weight and 1% magnesium stearate to the mixture, and then pelletizing and tableting the mixture. The tablet candy prepared by the present formula is safe and reliable, and can improve an amount of calcium in the human body and osteoporosis after long-term administration.

21: 2022/11779. 22: 2022/10/28. 43: 2023/02/01
51: E21D

71: CHINA RAILWAY NO.5 ENGINEERING GROUP CO., LTD., THE ELECTRICAL ENGINEERING CO., LTD UNDER DREC NO.5 GROUP, CHINA RAILWAY WUJU GROUP NO. 4 ENGINEERING CO., LTD.

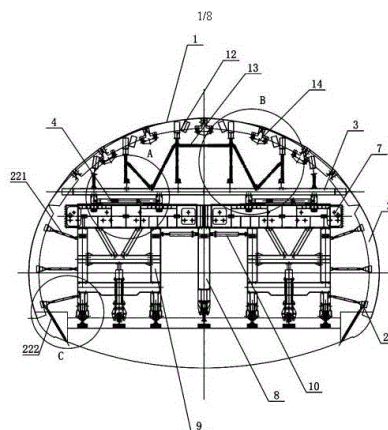
72: Bin CHEN, Hongguang ZHU, Hao ZHOU, Zhenwu LIU, Songzhu ZHOU

33: CN 31: 202010245325.1 32: 2020-03-31

54: METHOD FOR ADJUSTING VARIABLE-SECTION ADJUSTABLE LINING TROLLEY

00: -

The present invention provides a method for adjusting a variable-section adjustable lining trolley. The method comprises: S1: dismantling two top die units on an arch crown part; S2: starting transverse adjusting oil cylinders to drive longitudinal and transverse moving lifting mechanisms on two sides to move and widen toward the two sides; S3: starting horizontal adjusting mechanisms to drive a pair of top die supporting beams to move and widen toward the two sides; S4: mounting top die supplementing units and a top die supplementing supporting frame in the corresponding supplementing spaces; S5: starting the horizontal adjusting mechanisms to drive the pair of top die supporting beams to move to achieve centering, thus ensuring that a connecting point between the two top die supplementing units positioned on the new arch crown part coincides with a center line of the arch crown part; and S6: locking the top die supplementing units, the top die units and edge die units.



21: 2022/11807. 22: 2022/10/31. 43: 2022/11/30
51: B22F

71: Shenyang University of Technology
72: Wu Chenliang, Wang Dingchen, Zhao Te, Zhang Song, Zhang Chunhua

54: THE POWDER AND TECHNICAL METHOD USED IN LASER 3D PRINTING OF LIGHT-WEIGHT HIGH-STRENGTH MAGNESIUM ALLOY

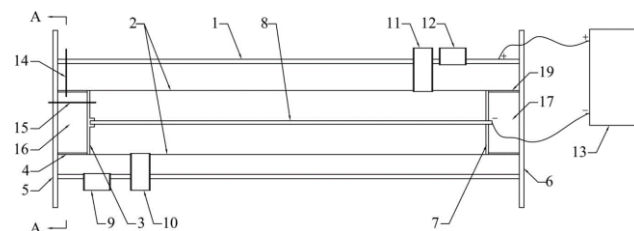
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The purpose of this invention is to provide the powder used in laser 3D printing of light-weight high-strength magnesium alloy and the technical method of the laser 3D printing. The chemical composition of the powder used in laser 3D printing of light-weight high-strength magnesium alloy in wt% is 93.5-96% Mg, 3.5-5% Zn, 0.5-1% Zr and impurity elements less than or equal to 0.1%. The method for preparing light-weight high-strength magnesium alloy bulk using the powder is as follows: process the substrate; substrate surface grinding; sandblasting; wash and dry; spread the powder; the first laser beam scanning irradiation; the second laser beam is rescanned and irradiated according to the path of the first laser beam; the height of the substrate is lowered and spreading powder and laser beam scanning irradiation are repeated to prepare a lightweight and high-strength magnesium alloy bulk. The powder and the method of the invention can prepare the light-weight and high-strength Mg-Zn-Zr magnesium alloy bulk. They have the characteristics of high tailor in the manufacturing process, short product production cycle, high resource utilization and can produce parts of complex structure, etc.



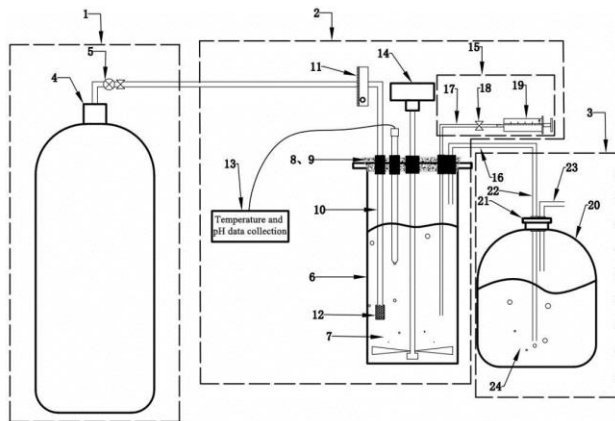
21: 2022/11808. 22: 2022/10/31. 43: 2022/11/30
 51: C01B
 71: Shenyang University of Technology
 72: Li Laishi, Wu Yusheng, Wang Yuzheng
54: A METHOD FOR CIRCULAR EXTRACTION OF METAL OXIDES
 00: -
 The disclosure relates to a method for circular extraction of metal oxides, comprising the following steps: mix minerals containing metal oxides with an acid and add to an acid-resistant reactor for reaction; separate solids from liquids and wash to obtain a metal salt solution and high silicon slags; add the resulting metal salt solution to an alkali solution for neutralization to obtain metal hydroxide precipitates and a metal salt solution, and then separate solids from liquids and wash the metal hydroxides to neutral; collect the resulting metal hydroxides as products of metal oxide extraction; separate the resulting salt solution through membrane electrolysis

to obtain an acid solution and an alkali solution; return the alkali solution from the membrane electrolysis cathode area to the previous steps for recycling; return the acid solution from the membrane electrolysis anode area to the first step for recycling directly or after evaporation and concentration. The disclosure can efficiently leach metal oxides in low-grade materials at a high extraction rate without adding any additive. The disclosure realized the circulation of salt materials, without discharge of waste gases, waste liquids, and waste solids.



21: 2022/11905. 22: 2022/11/02. 43: 2023/02/01
 51: C04B
 71: Shenzhen University
 72: ZHAN, Baojian, KOU, Shicong, XING, Feng, YU, Yong, CUI, Peng
54: WET CARBONIZATION SYSTEM AND METHOD, AND METHOD FOR SAMPLING, TESTING AND EVALUATION THEREOF
 00: -

The present invention discloses a wet carbonization system and method, and a method for sampling, testing and evaluation thereof. The wet carbonization system includes a carbon dioxide gas supply unit, a carbonization reaction unit, and a carbon dioxide recovery unit. With the system and the method for sampling, testing and evaluation, phase changes and solution ion time-varying laws of Portland cement under hydration-carbonization action can be explored, thereby conducting further studies on carbonation mechanism of cement-based cementitious materials, which provides theoretical support for carbonization maintenance thereof.



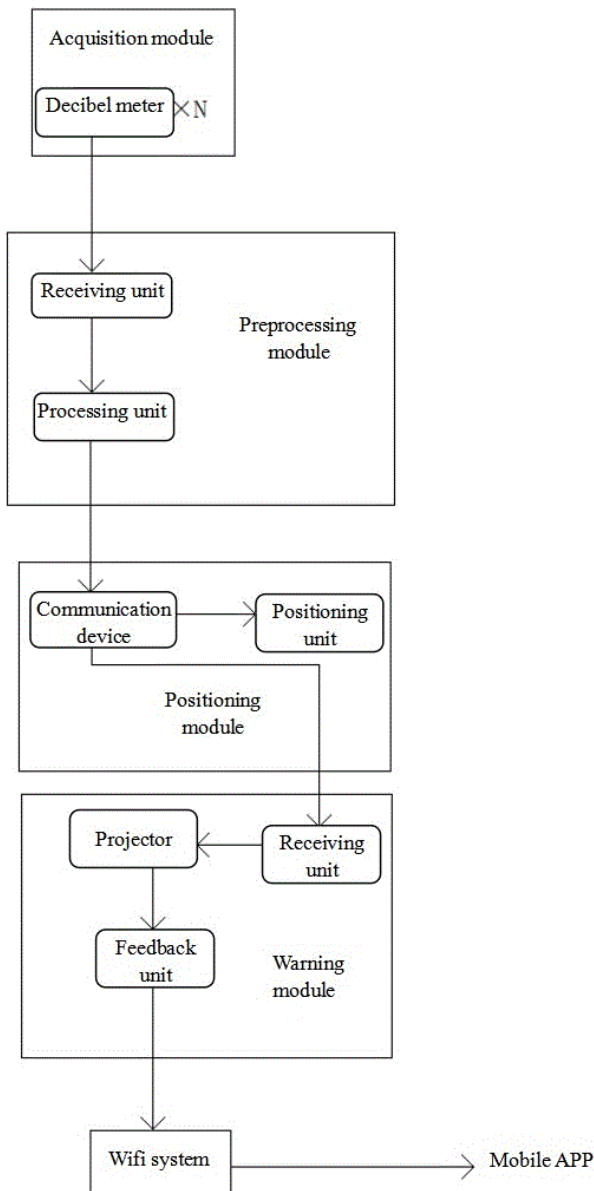
21: 2022/11906. 22: 2022/11/02. 43: 2023/01/06
51: G08C; H04W

71: Liupanshui Normal University
72: YU Chengbin, DING Ke

54: QUIET REMINDER FOR SCHOOL STUDY ROOMS

00: -

The application discloses a quiet reminder for school study rooms, which is characterized by comprising an acquisition module, a preprocessing module, a positioning module, a warning module and a wireless fidelity (WiFi) system; the acquisition module is used for acquiring sound data in the study rooms; the preprocessing module is used for preprocessing the sound data to obtain sound source data; the positioning module is used for positioning the sound source according to the sound source data; the warning module is used for warning the sound source after the sound source data exceeds the preset decibel; after the warning module fails to warn, the warning module uses the WiFi system to feed back information to the manager's mobile application (APP) to remind the manager to manage. The application realizes the integrated function of the reminder device, does not need more external devices, collects the information controlled and fed back through WiFi technology and app, is convenient to operate, and reminds more directly and flexibly, can track the moving sound source, and does not cause secondary sound pollution.



21: 2022/11907. 22: 2022/11/02. 43: 2023/01/06
51: B32B

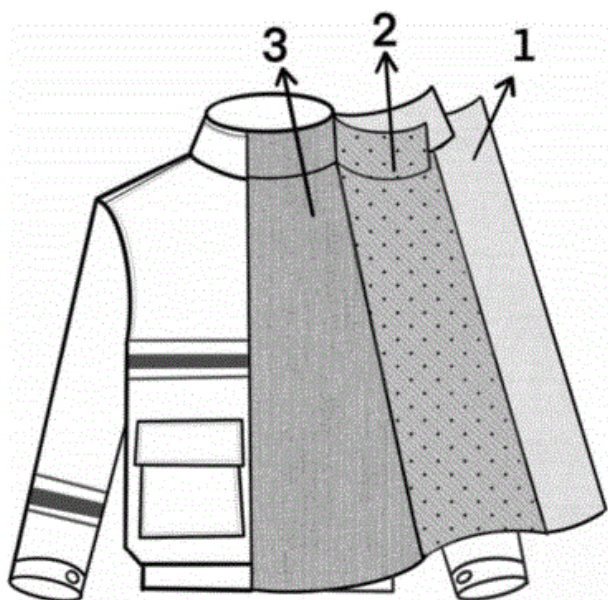
71: HANG ZHOU VOCATIONAL & TECHNICAL COLLEGE, Anhui Polytechnic University
72: SU Zhaowei, WEI Yuhui, ZHANG Zhenlin

54: THREE-LAYER FIRE-FIGHTING CLOTHING WITH SELF-CLEANING FUNCTION AND PRODUCTION METHOD THEREOF

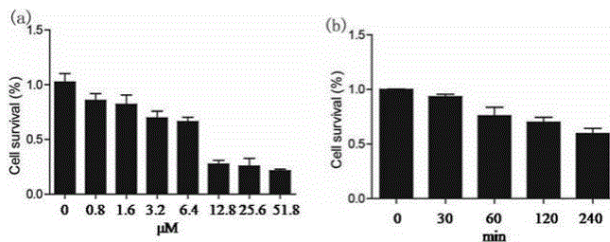
00: -

The invention belongs to the technical field of fire-fighting clothing, in particular to a three-layer fire-fighting clothing with self-cleaning function and a production method thereof, which comprises an outer layer fabric, a middle layer fabric and an inner layer fabric. The middle layer fabric is positioned

between the outer layer fabric and the inner layer fabric; the material of the outer layer fabric is mainly polyimide fiber-Yilun fiber; the flame-retardant fabric woven by yilun fiber 95, and the outer layer of the flame-retardant fabric is coated with a mixed solution of fluorinated polysiloxane hydrophobic adhesive and TiO₂ nanoparticles; the material of the middle layer fabric is mainly a flame-retardant silicone rubber dot composite fabric structure composed of flame-retardant silicone rubber dots, yillun spunlace base fabric and polytetrafluoroethylene (PTFE) film; the superhydrophobic interface is formed by the water-repellent finishing of the fire protection layer, the dust stains are removed from the surface by the lotus leaf effect theory, and the organic stains are chemically decomposed into small molecules such as carbon dioxide and water by the photocatalytic technology, so as to achieve the self-cleaning effect of the surface stains of fire clothing.



The invention discloses an application of gambogic acid (GA) in preparing drugs for treating ovarian cancer, and relates to the technical field of biomedicine. GA can treat ovarian cancer by regulating STAT3 signaling pathway. According to the invention, GA with different concentrations and different times acts on ovarian cancer cell SKOV3, and CCK-8 method is used to detect the proliferation of SKOV3 cells, and the results show that GA can obviously inhibit the growth of ovarian cancer cells, and shows a concentration-dependent trend. The present invention further pays attention to the role of STAT3 signaling pathway in GA's anti-ovarian cancer, and different concentrations of GA are applied to ovarian cancer SKOV3 cells respectively. As a result, GA down-regulates the phosphorylation level of STAT3 in a dose-dependent manner.

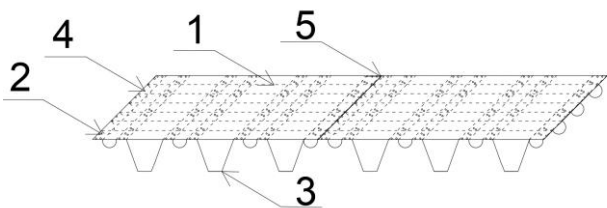


21: 2022/11908. 22: 2022/11/02. 43: 2023/02/01
 51: A61K
 71: Wuxi Maternal and Child Health Hospital, The Second People's Hospital of Haidong
 72: LU Mudan, CHEN Daozhen, YANG Rui, JIA Zhen, MA Yulian
54: APPLICATION OF GAMBOGIC ACID IN PREPARING DRUGS FOR TREATING OVARIAN CANCER
 00: -

21: 2022/11912. 22: 2022/11/02. 43: 2023/01/03
 51: E01D
 71: China Railway Bridge Engineering Bureau Group Co. Ltd., China Railway Construction Bridge Engineering Bureau Group 4th Engineering Co., Ltd., Shenyang University of Technology, Tsinghua University, Guangzhou Nansha District Housing and Urban Construction Bureau
 72: ZHAO,Jian, LIU,Peng, GUI,Jianwen, AN,Luming, ZHOU,Tianxi, CHEN,Yixuan, REN,Yanlong, WANG,Yuanqing, ZHANG,Pengzhi, WANG,Lei
54: A RIBBED ANTI-FATIGUE DETACHABLE STEEL BRIDGE DECK
 00: -

The disclosure pertains to the technical field of bridge engineering, specifically discloses a ribbed anti-fatigue detachable steel bridge deck, comprising several plates, wherein: the bottom of the deck bodies is provided with U-ribs parallel to the short side of the deck bodies; the bottom of the deck bodies is also provided with rib plates consisting of transverse rib plates and longitudinal rib plates, the transverse rib plates are arranged in parallel to the long side of the deck bodies and U longitudinal rib plates are arranged in parallel to the short side of the

deck bodies; the adjacent deck bodies are connected by anti-bending fixing components; the U-ribs of the adjacent deck bodies are fixedly connected by U-rib connecting backing plates. Advantages of the disclosure: The combination of U-ribs with rib plates in the transverse and longitudinal directions formed by pressing the bottom of the deck bodies can improve the anti-bending bearing capacity of the steel bridge deck in all directions and also ensure the strength of the steel bridge deck. The fixation is realized by providing the anti-bending fixing components connecting two deck bodies, which can ensure the detachability of the two deck bodies while being not easy to loosen under the action of shock, with good fatigue resistance.

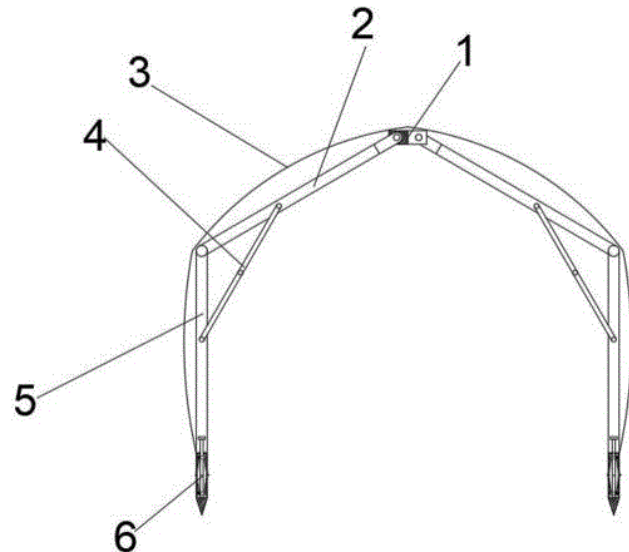


21: 2022/11913. 22: 2022/11/02. 43: 2023/02/01
 51: A01G
 71: Gansu Institute of Desert Control
 72: Li JingJing, Du Juan, Wang YuQi, Liu HuJun, Liu ShuJuan

54: DESERTIFICATION CONTROL LAND FACILITY WITH IMPROVED STRUCTURE

00: -
 The invention discloses a desertification control land facility with an improved structure, which comprises a folding tent, multi-section telescopic connecting rods, a top hinge head, a first connecting rod, a supporting folding rod, a second connecting rod and a ground grasping base. The invention is simple in structure, the manufacturing cost is low, and the structure can be folded into a smaller structure during transportation, thus greatly improving the convenience of transportation and handling; the volume of the invention is small, the transportation volume increases correspondingly, and then the transportation cost is reduced; meanwhile, the invention is provided with the ground grasping base, and the clamping rod inside the ground grasping base is expanded by rotating the hexagonal nut, so that the ground can be fixed, thus increasing the grip force, improving the tent strength, prolonging the

service life of the tent, and improving the wind resistance of the tent.

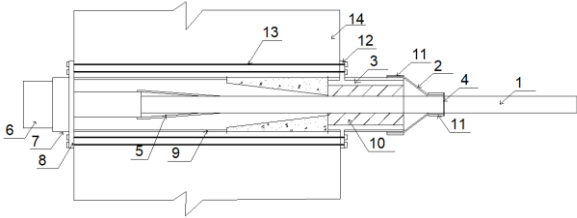


21: 2022/11919. 22: 2022/11/02. 43: 2023/01/06
 51: E01D
 71: China Railway Bridge Engineering Bureau Group Co. Ltd., China Railway Construction Bridge Engineering Bureau Group 4th Engineering Co., Ltd., Shenyang University of Technology, Tsinghua University, Guangzhou Nansha District Housing and Urban Construction Bureau
 72: ZHAO,Jian, LIU,Peng, ZHOU,Tianxi, AN,Luming, GUI,Jianwen, LU,Hongping, WANG,Yuanqing, REN,Yanlong, CHEN,Meiyu, CHEN,Gang

54: ARCH BRIDGE HANGER FOR SECONDARY ANCHORAGE AND SHOCK ABSORPTION

00: -
 The disclosure relates to an arch bridge hanger for secondary anchorage and shock absorption, comprising a sling, wherein the sling is connected with a girder through a chilled cast anchorage device; an embedded steel pipe is arranged outside the sling; a tail end of the embedded steel pipe is also connected with the chilled cast anchorage device through a chilled cast anchorage device backing plate; steel backing plates are arranged on both sides of the embedded steel pipe; and bolts penetrate through the steel backing plates, the girder and the chilled cast anchorage device backing plate, to fixedly connect the three; and a head end of the embedded steel pipe is connected with the sling through a casing. By arranging the chilled cast anchorage device for fixing the sling and the girder and an embedded steel pipe structure fixed to the

girder by bolts, accidents may be avoided in the case of falling off in a single fixing method, thereby achieving an effect of secondary anchorage and also meeting requirements of repairing and replacing a hanger anchorage device.

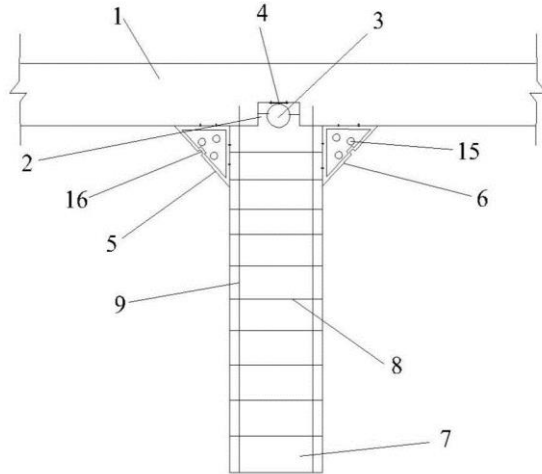


21: 2022/11920. 22: 2022/11/02. 43: 2023/01/06
 51: E02D
 71: China Railway Bridge Engineering Bureau Group Co. Ltd., China Railway Construction Bridge Engineering Bureau Group 4th Engineering Co., Ltd., Shenyang University of Technology, Tsinghua University, Guangzhou Nansha District Construction Center
 72: ZHAO,Jian, LIU,Peng, AN,Luming, REN,Yanlong, DU,Pingzhi, WANG,Haining, XIE,Yihua, WANG,Yuanqing, WANG,Lei, ZHANG,Pengzhi

54: A CONCRETE-TIMBER BEAM-COLUMN ENERGY DISSIPATION SELF-RECOVERY JOINT STRUCTURE

00: -
 The disclosure relates to a concrete-timber beam-column energy dissipation self-recovery joint structure, including a reinforced concrete column, a wooden beam and lateral support structures of memory alloy steel angle, in which the reinforced concrete column and the wooden beam are connected by a mortise and tenon joint energy-dissipation structure, both sides of the mortise and tenon joint energy-dissipation structure are connected with lateral support structures of memory alloy steel angle, the lateral support of memory alloy steel angle is of a right-triangular hollow structure, the two catheti of the triangular structure are fixedly connected with reinforced concrete column and the wooden beam respectively, and the lateral support structures of memory alloy steel angle on both sides are left memory alloy steel angle and right memory alloy steel angle respectively. The beam-column energy dissipation joint of the disclosure is reliably connected, self-recoverable, able to bear higher loads and has better energy dissipation capacity, so

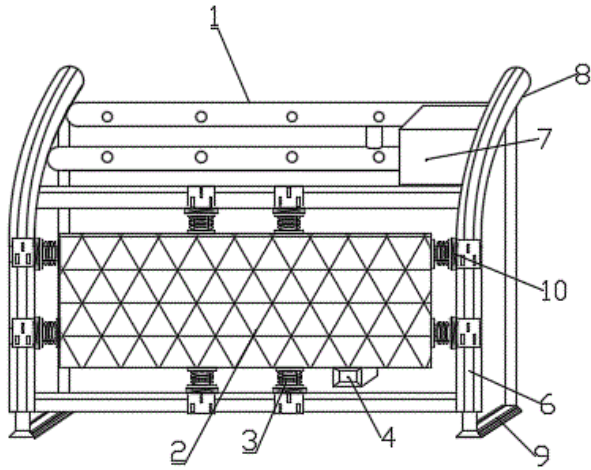
that the structure is not easily damaged. The internal mortise and tenon joint energy-dissipation structure can increase the deformation capacity of the structure and absorb part of the force; and the lateral support structures of memory alloy steel angle improve the bearing capacity and stability of the joint and enable the characteristic of damage self-recovery at the same time.



21: 2022/11928. 22: 2022/11/02. 43: 2023/01/06
 51: E01D
 71: China Railway Bridge Engineering Bureau Group Co. Ltd., China Railway Construction Bridge Engineering Bureau Group 4th Engineering Co., Ltd., Shenyang University of Technology, Tsinghua University, Guangzhou Nansha District Construction Center
 72: ZHAO,Jian, FAN,Lilong, LIU,Peng, AN,Luming, LI,Canlun, HUANG,Kuanhong, REN,Yanlong, ZHANG,Changkai, WANG,Yuanqing, FAN,Mengqi

54: MEMORY ALLOY CRASH BARRIER
 00: -
 The disclosure relates to a memory alloy crash barrier. The memory alloy crash barrier includes two crash barrier frames, the lower ends of the two crash barrier frames are fixed on fixed supports, the crash barrier frames are fixedly connected to protective reinforcing rails, two protective reinforcing rails are also fixedly connected between the crash barrier frames, an anti-crash iron net is connected to the four protective reinforcing rails through fixing mechanisms made of memory alloy materials, and a sprinkler assembly is fixed between the two crash barrier frames and on the upper side of the anti-

crash iron net. The disclosure can effectively buffer the crash of vehicles.

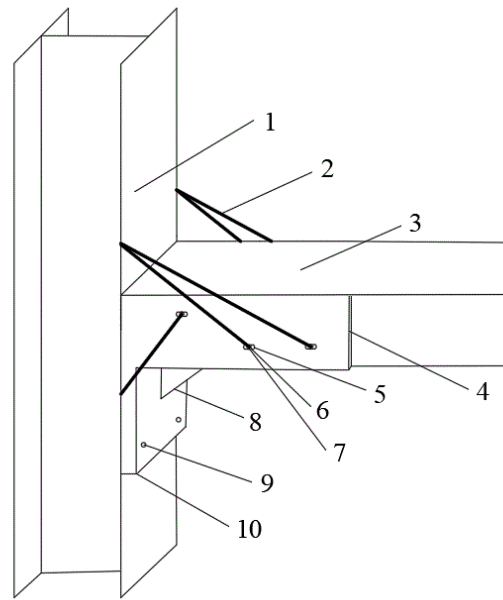


21: 2022/11935. 22: 2022/11/02. 43: 2023/01/06
 51: E04B
 71: China Railway Bridge Engineering Bureau Group Co. Ltd., China Railway Construction Bridge Engineering Bureau Group 4th Engineering Co., Ltd., Shenyang University of Technology, Tsinghua University, Guangzhou Nansha District Construction Center
 72: ZHAO,Jian, AN,Luming, LIU,Peng, REN,Yanlong, WANG,Fusheng, QU, Jiacheng, ZHAN,Guofu, WANG,Yuanqing, ZHANG,Pengzhi, WANG,Lei

54: A STEEL-WOOD ENERGY-DISSIPATING JOINT STRUCTURE CONTAINING MEMORY ALLOY

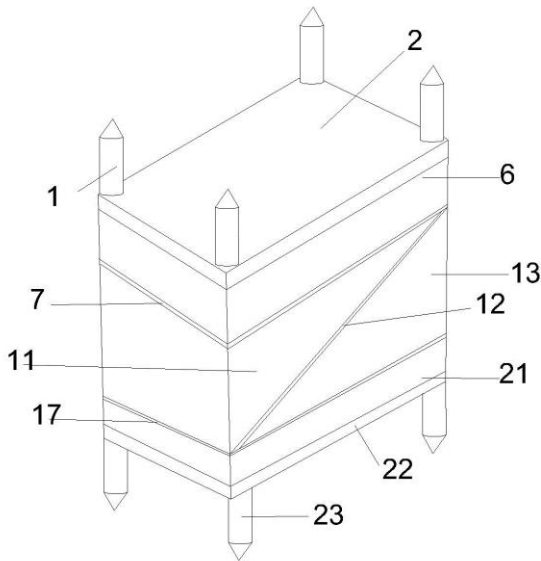
00: -
 The present invention relates to the field of the invention of energy-dissipating, and more particularly, to a steel-wood energy-dissipating joint structure containing memory alloy. The structure consists of steel columns, wooden beams, vertical flange steel plates, horizontal screws, steel column connectors, and Fe-SMA memory alloy connectors. The vertical flange steel plates are arranged on both sides of the end of the wooden beam. There are several horizontal screws, and each horizontal screw stretches in the horizontal direction to penetrate the vertical flange steel plate and wooden beam. Both ends of the horizontal screw stretch out of the vertical flange steel plate. The wooden beam is fixed by the vertical flange steel plate onto the steel column. One end of the Fe-SMA memory alloy

connector is fixed onto the steel column, and the other end of the Fe-SMA memory alloy connector is fixed onto the horizontal screw. Effects of the present invention: The present invention makes use of the characteristics of Fe-SMA memory alloy such as self-restoration and no residue after deformation. The reinforced wood structure tenon-and-mortise joint has improved shear capacity, bending capacity, and energy-dissipating capacity and can restore itself without residual deformation after the vibration, thus optimizing the seismic performance of the entire structure.



21: 2022/11936. 22: 2022/11/02. 43: 2023/01/06
 51: E01D
 71: China Railway Bridge Engineering Bureau Group Co. Ltd., China Railway Construction Bridge Engineering Bureau Group 4th Engineering Co., Ltd., Shenyang University of Technology, Tsinghua University, Guangzhou Nansha District Construction Center
 72: ZHAO,Jian, FAN,Lilong, AN,Luming, LIU,Peng, ZHANG,Changkai, WANG,Haining, WEN,Zhicheng, WANG,Yuanqing, CHEN,Gang, CHEN,Meiyu
54: A MEMORY ALLOY-RUBBER ENERGY DISSIPATION SELF-RECOVERY BRIDGE ASEISMATIC BEARING STRUCTURE
 00: -
 The disclosure relates to a memory alloy-rubber energy dissipation self-recovery bridge aseismatic bearing structure, comprising an upper steel

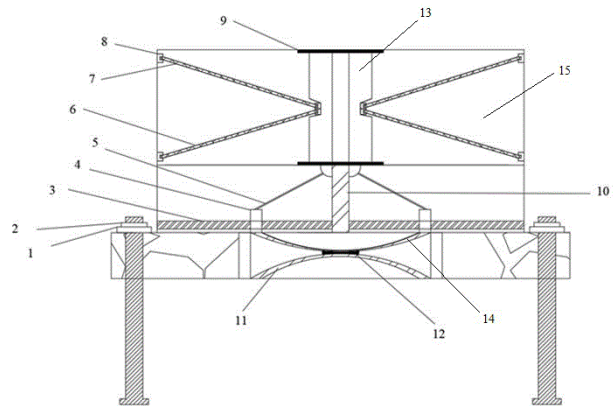
inserting rod, an upper layer supporting steel plate, a first layer of rubber, a first layer of laminated steel plate, a second layer of rubber, a second layer of laminated steel plate, a third layer of rubber, a lower layer supporting steel plate and a lower steel inserting rod connected from top to bottom. The disclosure is used for installation under bridges and is easy to install. The springs and steel plates added to rubbers can increase the damping and bearing capacity of rubber, and memory alloy springs provide the structure with strong self-recovery ability. When an earthquake occurs, the bearing is stressed layer by layer, and the first layer of spring and rubber structure is stressed first, consume part of the quake, then transmit it to the second layer; and finally to the third layer, which effectively mitigates the impact of seismic action on the bridge substructure. The staged force transmission reduces the likelihood of overall damage to the bearing and increases the service life of the bearing.



21: 2022/11937. 22: 2022/11/02. 43: 2023/01/06
 51: E01D
 71: China Railway Bridge Engineering Bureau Group Co. Ltd., China Railway Construction Bridge Engineering Bureau Group 4th Engineering Co., Ltd., Shenyang University of Technology, Tsinghua University, Guangzhou Nansha District Construction Center
 72: ZHAO,Jian, AN,Luming, LIU,Peng, REN,Yanlong, QU, Jiacheng, HE,Huirong, WANG,Yuanqing, DU,Pingzhi, CHEN,Meiyu, CHEN,Gang

54: SELF-RESTORING PLASTIC HINGE BEARING STRUCTURE FOR BRIDGES

00: -
 The present disclosure relates to the technical field of bridge bearings, in particular to a self-restoring plastic hinge bearing structure for bridges, including an upper bearing, a lower bearing, and a base, which are disposed successively from the top down. The upper bearing is provided with a self-restoring vibration isolation assembly, the lower bearing is provided with a spring damping assembly, the base is provided with a support web assembly, and the self-restoring vibration isolation assembly is disposed at an upper end of the spring damping assembly disposed at an upper end of the support web assembly. The advantages of the present disclosure are as follows: The designed hinge bearing made of memory alloy is simple in structure and excellent in vibration energy dissipation effect and durability, and can be self-restored to improve the stability of the bridge, thus prolonging the bridge life. Furthermore, large equipment is avoided in the maintenance and repair of bridges, which greatly reduces the maintenance cost and allows maintenance personnel to replace related components in a timely manner.



21: 2022/11940. 22: 2022/11/02. 43: 2023/01/24
 51: C12Q
 71: 23 IKIGAI PTE LTD
 72: TRIPATHI, Ashish
 33: SG 31: 10202004280V 32: 2020-05-08
54: METHODS FOR IDENTIFYING A MEDICAL CONDITION IN A HUMAN SUBJECT
 00: -
 The present disclosure discloses an in-vitro and non-invasive method for detecting a medical condition in

a subject. The method involves enriching very small embryonic like stem cells from the sample, to obtain a mixture comprising said very small embryonic like stem cells; obtaining nucleic acid from the mixture of step; performing an assay with the nucleic acid for analysing expression level of Oct4A in the very small embryonic like stem cells from the sample; and comparing the expression level of Oct4A in the very small embryonic like stem cells from the sample with an expression level of Oct4A in a control sample. The present disclosure also provides a method for predicting the onset of cancer and for predicting the presence of cancer. A method of treating cancer is also disclosed herein. Moreover, a reagent kit and a detection kit are also disclosed.



21: 2022/11974. 22: 2022/11/03. 43: 2023/01/03
51: A01G

71: Jiangsu Coastal Area Institute of Agricultural Sciences

72: WANG Wei, GAO Jin, SHI Yang, SUN Jianxiong, LU Zhenwei, YANG Hua, WANG Haiyang, PAN Zongjin, YU Aihua, CHENG Fangmei, CHEN Wenbin, QIAO Hailong, CHEN Yingjiang, QIN Guangwei, JIANG Peng

54: THREE-DIMENSIONAL PLANTING METHOD OF SWEET SORGHUM IN COASTAL BEACH

00: -

Disclosed is a three-dimensional planting method of sweet sorghum in coastal beach, and relates to the technical field of crop planting. The specific method is as following: ploughing, spreading base fertilizer, carrying out rotary tillage, ditching and furrowing; then, sowing seedlings, planting 4 rows of sweet sorghum in each border, with the row spacing of 55-65 cm, with 3 spaced rows between the 4 rows of sweet sorghum, planting green soybean in the outer 2 spaced rows, and planting purslane in the middle 1 spaced row. The method makes full use of light energy, soil and other resources; the intercropping of legumes and grasses with nitrogen fixation is beneficial to supplement soil nitrogen consumption; several special grain crops are salt-tolerant and have different plant heights, so they are suitable for planting in coastal beaches, and significantly improve the utilization rate of coastal beaches.

21: 2022/11976. 22: 2022/11/03. 43: 2023/01/03
51: A01G

71: Jiangsu Coastal Area Institute of Agricultural Sciences

72: WANG Wei, YANG Hua, GAO Jin, SUN Jianxiong, LU Zhenwei, SHI Yang, YU Aihua, CHENG Fangmei, CHEN Wenbin, ZHANG Xiao, PAN Zongjin, WANG Haiyang, CHEN Yingjiang, QIN Guangwei, JIANG Peng

54: GREEN PLANTING METHOD OF SWEET SORGHUM IN COASTAL BEACH

00: -

Disclosed is a green planting method of sweet sorghum in coastal beach, including the following steps: S1: land selection and land preparation; S2: pre-treatment of seeds; S3: sowing; S4: planting seedlings on the spot; S5: fertilizing and deworming; S6: mowing; the method of the invention plants sweet sorghum in coastal beach saline-alkali land, and performs film mulching and grass mulching in spring, inhibiting water evaporation, reducing the upward movement of salt, and having the effects of salt inhibition and water retention, so that sweet sorghum is in a low-salt environment in the whole growth period; the invention selects suitable varieties and varieties with strong lodging resistance, and controlling the growth height of sweet sorghum effectively prevents sweet sorghum from lodging; in view of the characteristics of more rain in summer for desalting and less rain for returning to salt in winter in the saline alkali land of Jiangsu coastal beach, the invention adopts the salt land restoration strategy of "keeping in winter and attacking in summer" to plant twice in summer and autumn, so that the whole growth period of sweet sorghum is in a low salt period.



21: 2022/11977. 22: 2022/11/03. 43: 2023/01/03
51: A61L

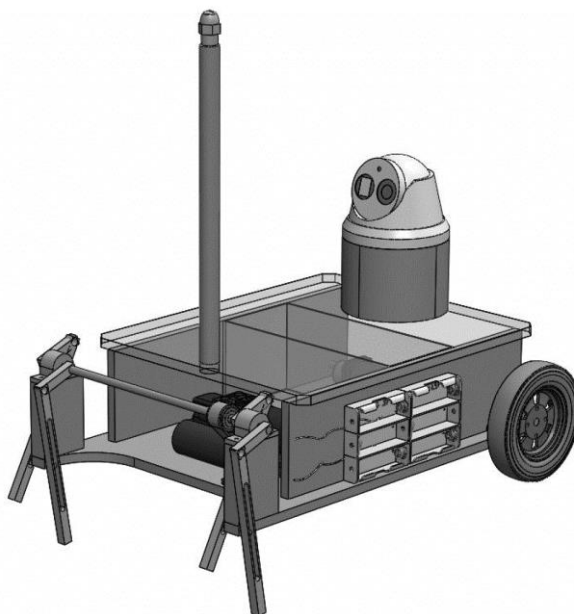
71: Shanghai Maritime University
72: XIAO Guangnian, SHI Yujie, GU Bangping,
WANG Junshuo, ZHANG Yan
33: CN 31: 202210684011.0 32: 2022-06-17

**54: EPIDEMIC PREVENTION AND DISINFECTION
DEVICE BASED ON CATERPILLAR BIONICS**

00: -

This design product is a wheel group type obstacle-crossing epidemic prevention and disinfection device based on inchworm bionics, which is designed for the blind area of current intelligent epidemic prevention and control (old residential building). Compared with common epidemic prevention and disinfection devices on the market, the front part of this product adopts inchworm bionic structure, and the rear wheel adopts wheel group structure. Different from the bionic design of inchworm's whole peristalsis in the market, this product gets inspiration from inchworm's foot movement mode, and uses crank rocker mechanism for bionic design. It can realize full-automatic stair climbing, and has stronger adaptability, higher stair climbing safety and larger carrying capacity for epidemic prevention and disinfection. At the same time, a three-stage damping device is added to the boom. Make the mechanism move more smoothly. Multi-stage hydraulic-rod type telescopic boom is adopted, so that there will be no interference between the mechanism and the stairs, and the articulated crank rocker arm is adopted, so that the strength of the arm is guaranteed. At the same time, intelligent 5th generation (5G) application can realize remote visual recognition spraying. The designed product has the advantages of high intelligence, high work efficiency,

greatly protecting the safety of workers in epidemic disinfection, reducing the risk of cross-infection in epidemic situation, reducing workload, etc.



21: 2022/11978. 22: 2022/11/03. 43: 2023/01/02
51: H04B; H04W

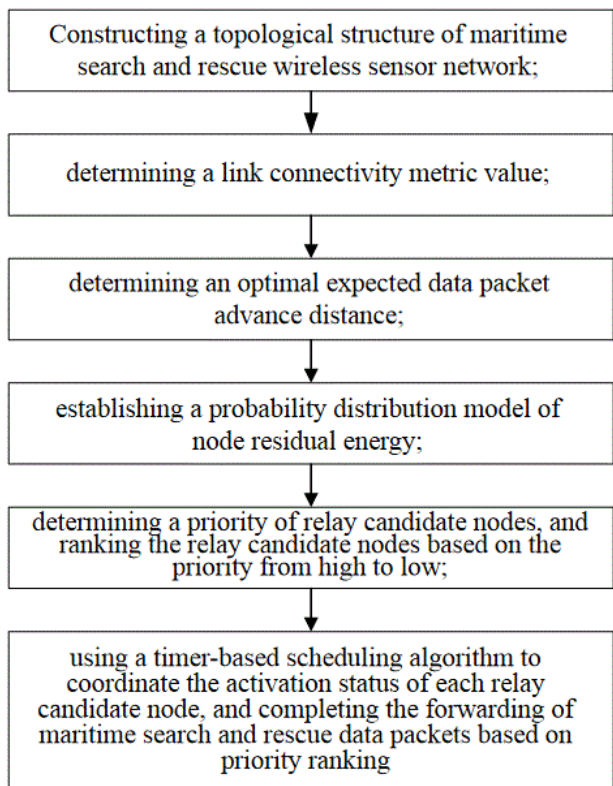
71: Shanghai Maritime University
72: XIAN Jiangfeng, MA Junling, WU Huafeng,
YANG Yongsheng, MEI Xiaojun, CHEN Xinqiang, LI
Chaofeng, ZHANG Yuanyuan
33: CN 31: 202210840637.6 32: 2022-07-18

**54: COMMUNICATION METHOD, DEVICE AND
STORAGE MEDIUM OF MARITIME SEARCH AND
RESCUE WIRELESS SENSOR NETWORK**

00: -

The invention relates to a communication method, a device and a storage medium of maritime search and rescue wireless sensor network based on opportunistic routing algorithm, wherein the method includes the following steps: constructing a topological structure of maritime search and rescue wireless sensor network; determining a link connectivity metric value, and updating the link connectivity metric value in real time based on an update period; determining an optimal expected data packet advance distance based on an area of relay candidate nodes; establishing a probability distribution model of node residual energy based on energy regularization random variables; determining a priority of relay candidate nodes based on the link connectivity measurement value, an optimal expected data packet advance distance, the

distance between relay candidate nodes and Sink nodes and the probability distribution model of node residual energy, and ranking the relay candidate nodes based on the priority from high to low; using a timer-based scheduling algorithm to coordinate the activation status of each relay candidate node, and completing the forwarding of maritime search and rescue data packets based on priority ranking. Compared with the prior art, the invention has the advantages of high transmission rate, low time delay and the like.



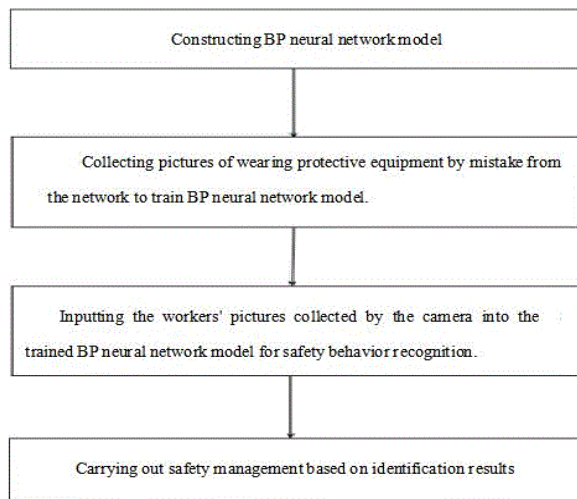
21: 2022/11979. 22: 2022/11/03. 43: 2023/01/06
51: G06T; G06N; G06Q

71: Hebei University of Architecture
72: GUO Quanhua, DI Suwei, GUO Chunhua, LI Yue, LIU Yining, LI Fengyun, DU Wenjing

54: SAFETY MANAGEMENT SYSTEM OF ARCHITECTURAL ENGINEERING

00: -
The invention discloses a safety management system for architectural engineerings, which comprises an acquisition module, a control module and a control module, wherein the acquisition module is used for acquiring images of mistakenly wearing protective articles, wherein the images of

wrongly wearing protective articles comprise training images and construction images; the image processing module, connected with the acquisition module, is used for processing the image of the wrong protective equipment by enhancing the image data to obtain a low-color bit depth image; the recognition module is connected with the image processing module and is used for recognizing dangerous operations based on the low-color bit depth image; the management module is used for displaying the construction images corresponding to dangerous behaviors in the identification results according to the identification results of dangerous operations and controlling the alarm to give an alarm. The safety management system is simple in structure and easy to build, and can effectively avoid safety accidents caused by not wearing or wearing safety protective articles by mistake, thus ensuring the smooth progress of architectural engineerings and greatly improving the efficiency of safety management of architectural engineerings by staff.



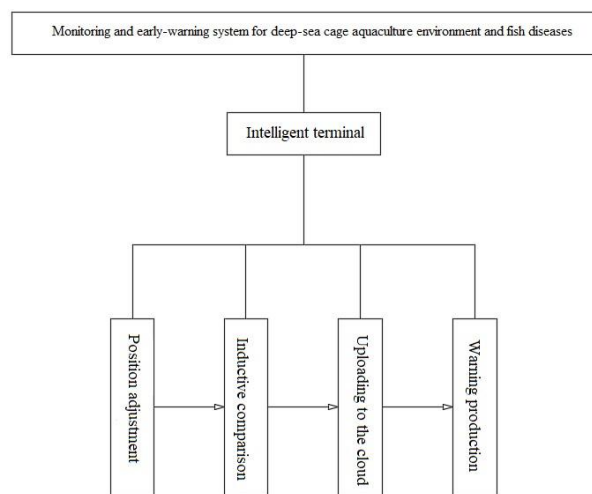
21: 2022/11981. 22: 2022/11/03. 43: 2023/01/24
51: A01K

71: INSTITUTE OF BEIBU GULF MARINE INDUSTRY, GUANGXI ACADEMY OF SCIENCES, REMOTE SENSING CENTER OF GUANGXI
72: ZENG, Jun, LAI, Junxiang, LUO, Wanci, MEI, Weiping, DING, Xiaoyan, ZHANG, Sheng, ZENG, Yongbin

54: MONITORING AND EARLY-WARNING SYSTEM FOR DEEP-SEA CAGE AQUACULTURE ENVIRONMENT AND FISH DISEASES

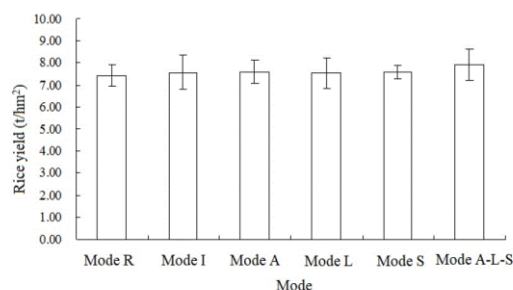
00: -

Disclosed is a deep-sea aquaculture monitoring systems, and provides a monitoring and early-warning system for deep-sea cage aquaculture environment and fish diseases, comprising position adjustment, inductive comparison, uploading to the cloud and warning production. The position adjustment is controlled by an intelligent terminal, so that a monitoring camera performs the position adjustment; the monitored information is transmitted to the intelligent terminal for inductive comparison; next, the information is uploaded to the cloud to reduce an error rate of monitoring; abnormal information is transmitted to a display panel; the display panel forms a closed loop with a warning light, and then transmits a signal to the warning light, so that the warning light gives a warning, thereby realizing the early warning of fish disease monitoring; meanwhile, warning information is transmitted to a working computer/mobile phone of a staff to remind the staff to monitor fries in a deep-sea cage.



21: 2022/11984. 22: 2022/11/03. 43: 2023/01/06
 51: A01B; A01C; A01G
 71: Soil and Fertilizer Research Institute, Fujian Academy of Agricultural Sciences
 72: HUANG, Dongfeng, WANG, Limin
54: COMPREHENSIVE AGRONOMIC REGULATION AND CONTROL METHOD FOR PRODUCING RICE WITH LOW HEAVY METAL POLLUTION
 00: -
 Disclosed is a comprehensive agronomic regulation and control method for producing rice with low heavy

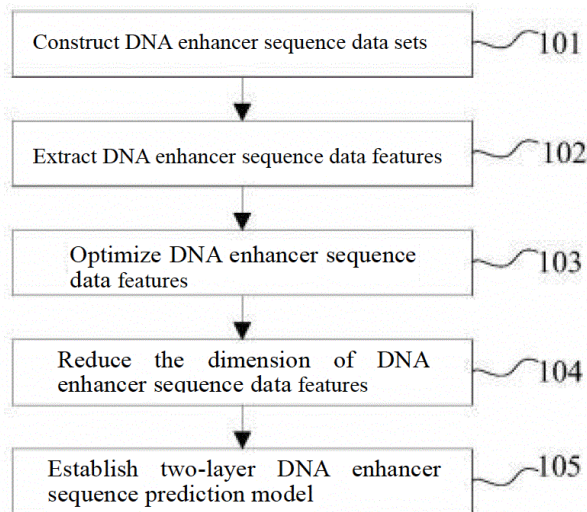
metal pollution, including the following steps that a calcium-sulfur-aluminum compound heavy metal passivating agent and a base fertilizer are applied to soil of a plough layer at one time during field preparation; a Greentech leaf surface resistance control agent is separately applied 3 times at mid-tillering, initial heading and full heading stages of rice, the dosage is 2,250 g/ha. each time, and the application process is to dilute the leaf surface resistance control agent into a 200-fold solution by water and spray the solution onto the leaf surfaces of rice plants uniformly. The method is simple to operate, and especially suitable for the production of rice products with low heavy metal contents in broad rice fields suffering from light and moderate heavy metal pollution in red and yellow soil regions of southern China.



21: 2022/11989. 22: 2022/11/03. 43: 2023/02/01
 51: G06F
 71: Central South University
 72: Fei GUO
54: A METHOD FOR IDENTIFYING DNA ENHANCER ELEMENTS BASED ON SEQUENCE FREQUENCY INFORMATION
 00: -

The invention discloses a method for identifying DNA enhancer elements based on sequence frequency information, which is based on a two-layer DNA enhancer element prediction model established by the support vector machine, and the prediction model is generated by the following steps: Step (1): DNA enhancer sequence data sets were constructed from the chromatin database information of cell lines; Step (2): The DNA enhancer sequence data set was processed by PSTNP algorithm to obtain the DNA enhancer information with position-specific trinucleotide sequences; Step (3): The trinucleotide sequence information of DNA enhancer information

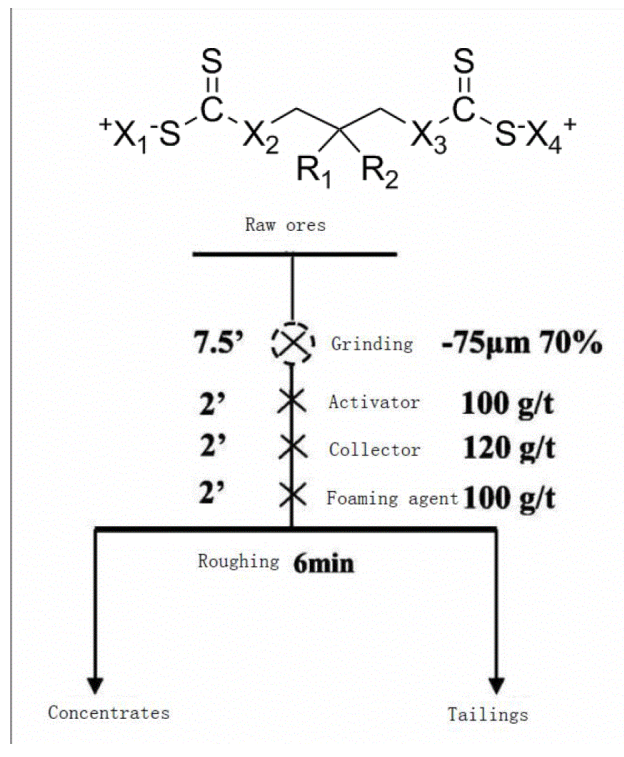
was optimized by Kullback-Leibler divergence algorithm; Step (4): LASSO algorithm was used to reduce the dimension of trinucleotide sequence feature data of DNA enhancer information; The invention solves the problem of prediction of DNA enhancer and its intensity, improves the extracted sequence frequency information by using feature optimization and feature screening methods, and obviously improves the prediction accuracy.



21: 2022/11990. 22: 2022/11/03. 43: 2023/02/01
 51: B03D
 71: Henan University of Urban Construction
 72: BAO, Yun, WU, Xuyang, XU, Kaidong, WANG, Jina, LIU, Zubang, ZHU, Ningning
54: NOVEL COMPOUND FLOTATION AGENT FOR COPPER-NICKEL SULFIDE ORE FLOTATION

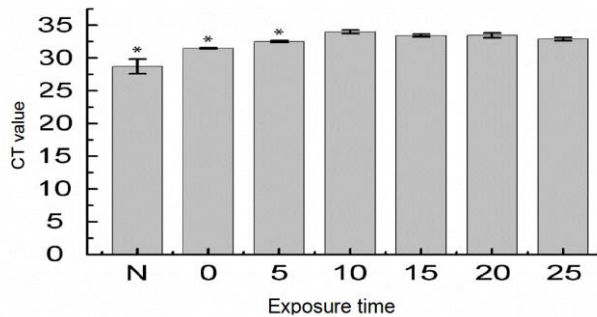
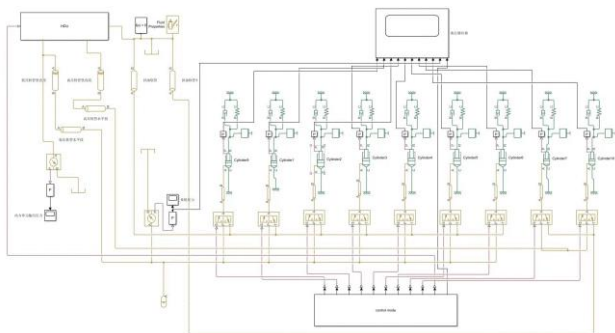
00: -
 The present invention discloses a novel compound flotation agent for copper-nickel sulfide ore flotation, which is composed of a collector, an aid collector and a foaming agent. The novel compound flotation agent is characterized in that: the collector is composed of one or more of X, X'-(2,2-dialkyl)1,3-dithiocarbonates, and its general structural formula is as shown in the accompanying image, wherein R1 and R2 are one of C1-C9 alkyl, C3-C6 cycloalkyl, C3-C4 alkenyl, phenyl, and benzyl; X1-X4 is one of H, NH4, Na, and K; the aid collector is one or more of sodium ethyl xanthate, potassium isopropyl xanthate, sodium isopropyl xanthate, potassium isobutyl xanthate, sodium iso-butyl xanthate, potassium n-butyl xanthate, sodium n-butyl xanthate,

potassium iso-amyl xanthate, and sodium iso-amyl xanthate. The novel compound flotation agent of the present invention not only has a high collecting capacity for copper-nickel sulfide ores, but also has a good selectivity.



21: 2022/11991. 22: 2022/11/03. 43: 2023/02/01
 51: G05B
 71: Southwest Petroleum University
 72: Jia Cao, Zhen Song
54: AN EARLY DESIGN AND SIMULATION METHOD OF ELECTRO-HYDRAULIC COMPOSITE CONTROL SYSTEM FOR UNDERWATER TREE BASED ON DIGITAL PROTOTYPE TECHNOLOGY

00: -
 The invention discloses an early design and debugging method of underwater production control system based on digital prototype technology, which belongs to the petroleum engineering field. It includes the following contents: establishing the dynamic model of the underwater production system, using the USB-UART communication interface, and using the serial communication method to realize the communication between the controller and the model. It provides a convenient, efficient and intuitive debugging and verification method for the design of control system.



21: 2022/11992. 22: 2022/11/03. 43: 2023/02/01
 51: C12Q
 71: JILIN UNIVERSITY, WEIFANG XIASHAN WEITAI BIOTECHNOLOGY CO., LTD., JILIN PROVINCE BIOSCI DEVELOPMENT CO., LTD.
 72: REN HONGLIN, LIU XILIN, LU SHIYING, ZHANG SHIJUN, HU PAN, LI YANSONG, LIU ZENGSHAN, ZHANG YING, WANG HAIBO, WANG MIDONG

54: A COUNTING METHOD OF BRUCELLA LIVING BACTERIA BASED ON PMA-QPCR TECHNOLOGY

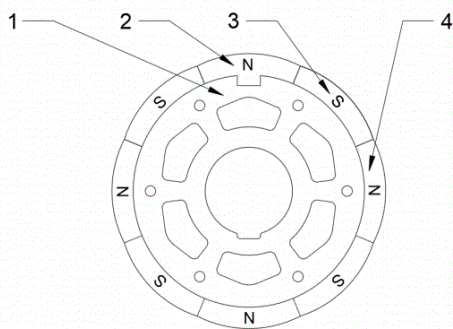
00: -
 The invention provides a counting method of Brucella living bacteria based on PMA-qPCR technology, which belongs to the technical field of microbial counting. According to the invention, the treatment concentration and exposure time of Brucella S2 treated by PMA are optimized, and then the BCSP31 gene of Brucella is detected by combining the qPCR method, so that the PMA-qPCR quantitative detection method of Brucella is established. The sensitivity of Brucella detected by PMA-qPCR is 100 times that of ordinary PCR, which can accurately quantify the number of Brucella living bacteria, and PMA treatment does not interfere with qPCR reaction. PMA-qPCR method is rapid, simple and specific for counting the number of Brucella living bacteria. Compared with the plate technique, it can not only complete the determination of Brucella living bacteria number quickly, but also complete the quantitative and qualitative detection of Brucella.

21: 2022/11993. 22: 2022/11/03. 43: 2023/02/01
 51: H02K

71: China University of Petroleum (East China)
 72: CUI, Junguo, SHAO, Jianxin, ZHANG, Jun, HU, Changmiao, HOU, Guojian, MA, Yixin, LU, Zhongqi, YANG, Huiwen, LIN, Yunfei, XIAO, Wensheng
 33: CN 31: 202210607489.3 32: 2022-05-31

54: PERMANENT MAGNET POSITIONING STRUCTURE OF SURFACE-MOUNTED PERMANENT MAGNET SYNCHRONOUS MOTOR

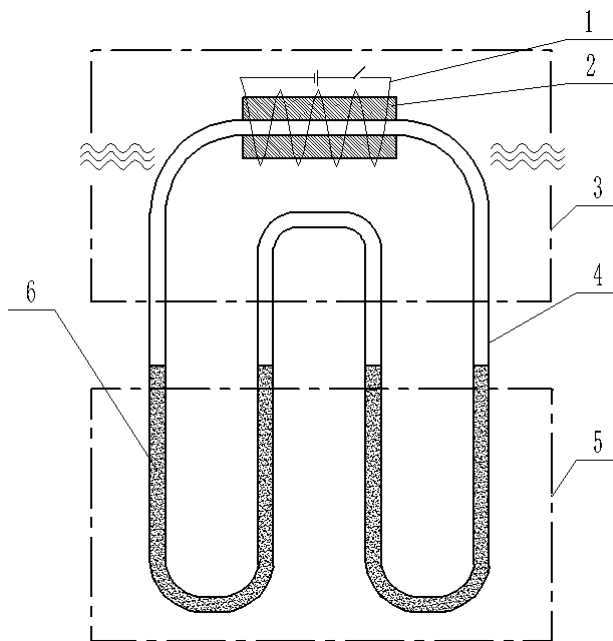
00: -
 The invention discloses a permanent magnet positioning structure of a surface-mounted permanent magnet synchronous motor, characterized by comprising a rotor core and a permanent magnet provided on the surface of the rotor core; the permanent magnet comprises a positioning permanent magnet and non-positioning permanent magnet; a positioning groove is provided on the outer surface of the rotor core, and the positioning groove matches with the positioning permanent magnet. In the permanent magnet positioning structure, the protrusion of positioning permanent magnet and the positioning groove form a keyway fit, so that the magnetic steel position and magnetic bridge required for installation of the other permanent magnets can be eliminated, and the precise positioning of the permanent magnet can be accomplished while reducing the cost of the motor and the difficulty of machining.



21: 2022/11994. 22: 2022/11/03. 43: 2023/02/01
 51: F24H
 71: Southwest Petroleum University
 72: Wenjie Xie, Kun Hu, Zhixu Zhou, Jie Qiu, Xian Qin

54: A BATTERY HEAT-TRANSFER MODULE BASED ON PULSATING HEAT PIPE

00: -
 The invention relates to a battery heat-transfer module based on pulsating heat pipe. The module includes lithium battery monomer, pulsating heat pipe, magnetic fluid medium, metal sleeve, electable coil, vehicle air conditioning system; The invention has the function that the pulsating heat pipe can transfer heat from top to bottom. Under normal conditions, the evaporating end pulsating heat pipe is connected to the battery, and the heat generated by the battery is quickly directed to the air-conditioning cooling system. In extreme cold weather, the coil is energized to produce magnetic force in the metal tube, so that the magnetic fluid flows to the condensing end of the pulsating heat pipe against gravity. Directing the heat of the air-conditioning heating system to the battery can realize the heating of the battery, which can ensure the normal operation of the battery in cold conditions.

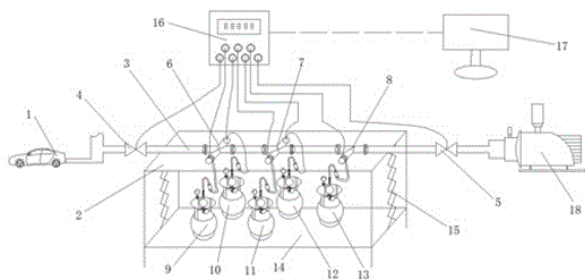


21: 2022/11998. 22: 2022/11/03. 43: 2023/02/01
 51: G01N
 71: China Automotive Technology and Research Center Co., Ltd., Zhengzhou University
 72: Zhenguo Li, Zhengjun Yang, Yan Yan, Rencheng Zhu, Shunyi Li, Bowen Zhang, Peiyuan Xie, Rongkun Du, Qingqing Kang, Yuankai Shao, Xiaoning Ren, Hanming Wu, Kaixiang Li

54: VOCS (VOLATILE ORGANIC COMPOUNDS) STAGED AUTOMATIC COLLECTION DEVICE AND SAMPLING METHOD OF AUTOMOBILE TAIL GAS

00: -
 The invention relates to a VOCs (Volatile Organic Compounds) staged automatic collection device and a sampling method of automobile tail gas. The VOCs staged automatic collection device of the automobile tail gas comprises a device rack, wherein the device rack is provided with a tail gas pipeline system and a tail gas collection system; the automatic collection device also comprises a control system; the tail gas pipeline system comprises a main gas pipe; the main gas pipe is provided with a gas inlet valve and a gas outlet valve; the main gas pipe is provided with at least one branch gas pipe which is arranged between the gas inlet valve and the gas outlet valve and is used for sucking the automobile gas of corresponding rate sections; the tail gas collection system comprises Suma jars which are communicated with various branch gas pipes; solenoid valves are uniformly arranged between

each of the Suma jars and the corresponding branch gas pipe; the main gas pipe is provided with a gas suction pump at the downstream of the gas outlet valve; the control system comprises a controller which is in control signal connection with the gas inlet valve, the gas outlet valve, the various solenoid valves and the gas suction pump, so that the VOCs staged automatic collection of the automobile tail gas is realized, and the problem that a testing result is not accurate because of mutual pollution between samples caused by manual collection in the prior art is avoided.



21: 2022/12042. 22: 2022/11/04. 43: 2023/02/01
51: C07D

71: China Pharmaceutical University
72: ZHOU, Qingfa, ZHU, Jin, WU, Tianzhi, WANG, Bichuan, TANG, Yujiang, HAO, Siyuan, HAN, Fang, WU, Ke

33: CN 31: 202210342897.0 32: 2022-03-31

54: BENZAZEPINE COMPOUND AND SYNTHESIS METHOD THEREOF

00: -

The present disclosure belongs to the field of organic chemistry, and particularly relates to a benzazepine compound and a synthesis method thereof. The method includes: dissolving isatin azomethine imines, allenates or alkynoates or acetylenic ketone in a dimethylsulfoxide solvent to react for 8 hours by taking inexpensive and readily available triphenylphosphine as a catalyst, and obtaining a benzazepine compound. The compound has potential pharmaceutical application values. The synthesis method of the present disclosure has the advantages of wide application range of a substrate, easiness in operation, mild reaction, convenient post-treatment, simple and readily available raw materials and catalysts, and the like.

21: 2022/12043. 22: 2022/11/04. 43: 2023/02/01
51: C08K; C08L

71: Guizhou Minzu University

72: Daohai ZHANG, Xiao ZHAN, Wenjing ZHANG, Xiao WU, Jiakui ZHANG, Fang TAN, Yuhuan XU, Jingyu DU, Renyuan YANG, Hongwei WANG, Kuntian LI, Yanyan TAN, Meng PEI, Yu XUE

54: A BATTERY SHIELDING WEAR-RESISTANT LONG CARBON FIBER REINFORCED PBT COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION

00: -

The invention relates to a battery shielding wear-resistant long carbon fiber reinforced PBT composite material and its preparation method, which belongs to the field of new materials. According to the weight, the battery shielding wear-resistant long carbon fiber reinforced PBT composite material and its preparation method is made of PBT in 40-90 portions, long carbon fibers in 10-40 portions, alloy powder in 2-10 portions, wear-resistant agent in 5-10 portions, silane coupling agent in 1-5 portions, toughening compatibilizer in 10-30 portions, antioxidant in 0.1-5 portions. The invention also discloses the preparation method and application of the battery shielding wear-resistant long carbon fiber reinforced PBT composite material. The battery shielding wear-resisting long carbon fiber reinforced PBT composite material has excellent wear resistance, battery shielding, aging resistance, and mechanical properties.

21: 2022/12044. 22: 2022/11/04. 43: 2023/02/01
51: G01D; G06Q

71: Southwest Forestry University

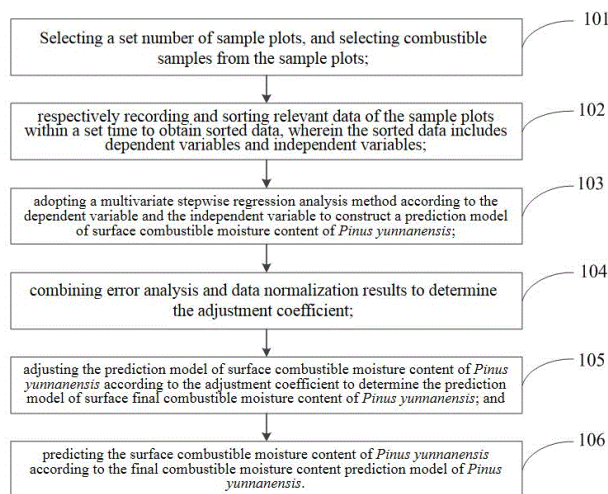
72: WANG Hechenyang, GAO Zhongliang, DONG Kaixun, SHU Lifu, WANG Qihua, YU Wentian, CAO Yufei, MA Zenan, HAN Li, DIAO Jianpeng

54: METHOD AND SYSTEM FOR PREDICTING SURFACE COMBUSTIBLE MOISTURE CONTENT OF PINUS YUNNANENSIS BASED ON MULTIPLE REGRESSION AND PARAMETER CORRECTION

00: -

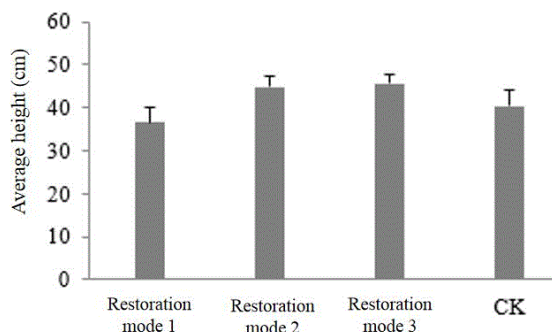
The invention relates to a method and a system for predicting the surface combustible moisture content of Pinus yunnanensis based on multiple regression and parameter correction. The method includes: selecting a set number of sample plots, and selecting combustible samples from the sample plots; respectively recording and sorting relevant data of the sample plots within a set time to obtain sorted data, wherein the sorted data includes dependent variables and independent variables;

adopting a multivariate stepwise regression analysis method according to the dependent variable and the independent variable to construct a prediction model of surface combustible moisture content of *Pinus yunnanensis*; combining error analysis and data normalization results to determine the adjustment coefficient; adjusting the prediction model of surface combustible moisture content of *Pinus yunnanensis* according to the adjustment coefficient to determine the prediction model of surface final combustible moisture content of *Pinus yunnanensis*; and predicting the surface combustible moisture content of *Pinus yunnanensis* according to the final combustible moisture content prediction model of *Pinus yunnanensis*. The method quickly and accurately determines the moisture content of surface combustible materials of *Pinus yunnanensis*.



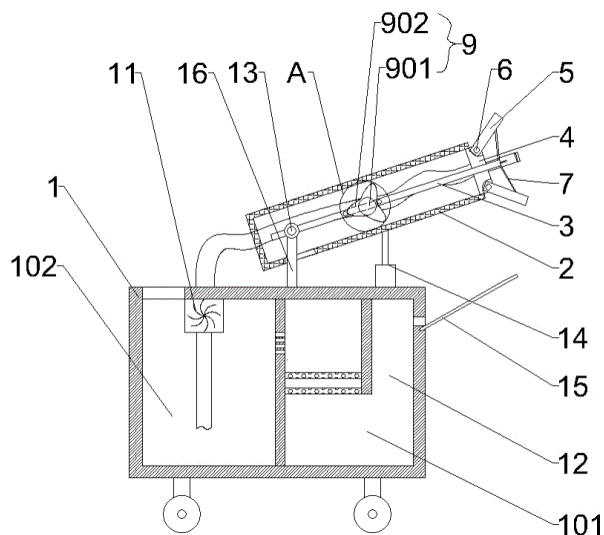
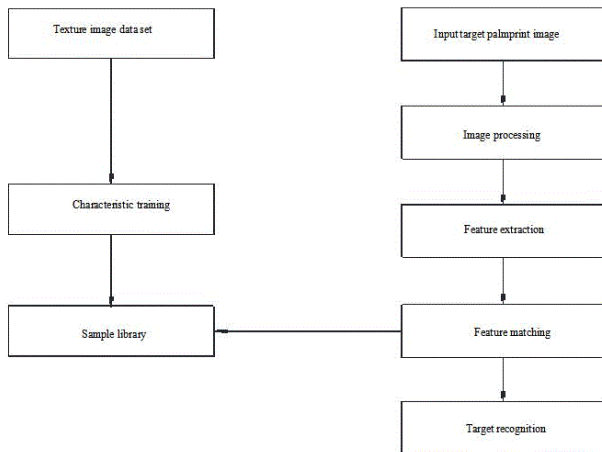
21: 2022/12045. 22: 2022/11/04. 43: 2023/02/01
 51: C05F; C05G; C12N
 71: Institute of Biology, Gansu Academy of Sciences
 72: PENG Yinan, JI Bin, LIANG Yan, QI Hongshan, YE Ze, ZHAO Tingwei, SONG Jie, XI Peng, SHEN Lijun
54: SALT-ALKALI RESISTANT COMPOSITE MICROBIAL INOCULUM, PREPARATION METHOD AND APPLICATION THEREOF
 00: -
 Disclosed are a saline-alkali resistant composite microbial agent, a preparation method and application thereof, and this invention relates to the technical field of soil remediation. This invention discloses a *Halobacillus Trueperi* strain, and its preservation number is CGMCC No.25218. The invention also discloses a salt-alkali resistant

composite microbial agent, including *Halobacillus Trueperi*, *Bacillus megaterium*, *Bacillus licheniformis*, *Arthrobacter aureus*, *Sinorhizobium fredii* and *Acinetobacter sp.* The microbial agent promotes the restoration of saline-alkali soil vegetation and increases the growth and yield of saline-alkali seed production crops.



21: 2022/12046. 22: 2022/11/04. 43: 2023/02/01
 51: G06K
 71: JIANGSU UNIVERSITY OF TECHNOLOGY
 72: YAO Keming, WANG Xiaolan
 33: CN 31: 202111330782.1 32: 2021-11-11
54: PALMPRINT RECOGNITION METHOD BASED ON FUSION DEPTH NETWORK

00: -
 The invention discloses a palmprint recognition method based on a fusion depth network, which comprises the following steps: constructing a palmprint image data set and an M-CNN network model for palmprint recognition; Training the M-CNN network model by using palmprint image data set, optimizing and adjusting the M-CNN network model according to the training result, saving the trained model and weight to obtain an improved M-CNN network model, and correspondingly storing the output feature vectors in a sample library for subsequent matching and recognition; The improved M-CNN network model is used to detect and match the palmprint image of the target to be identified, and the identity information of the identified target is obtained. The invention can efficiently and accurately identify palmprint identity.



21: 2022/12047. 22: 2022/11/04. 43: 2023/02/01
51: B01D; B08B

71: Hebei University of Architecture
72: ZHANG Huan, XU Lingling, GE Lijie, SHI Ying

54: EFFICIENT TREATMENT DEVICE FOR BUILDING CONSTRUCTION DUST

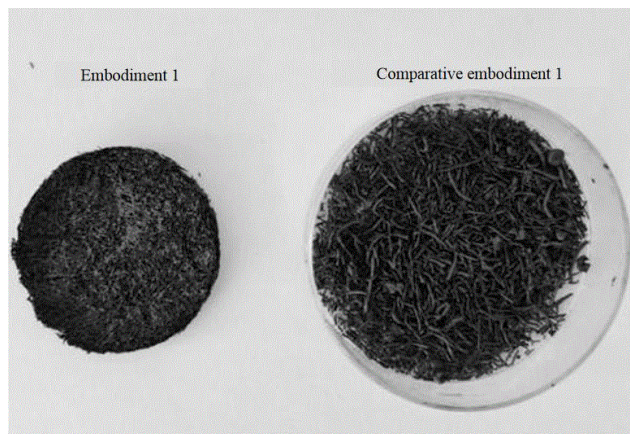
00: -
Disclosed is an efficient treatment device for building construction dust. One end of the supporting sleeve is rotationally connected with the dust removal box, and the end of the dust-reducing part away from the supporting sleeve sprays water mist circumferentially; the output end of the driving part extends into the supporting sleeve, and the spraying end of the dust-reducing part rotates reciprocally with the supporting sleeve through the driving part and the transmission assembly; and the water outlet end of the recovery filtering mechanism is communicated with the dust-reducing part. The invention effectively purifies and treats large-scale dust.

21: 2022/12048. 22: 2022/11/04. 43: 2023/02/01
51: D01D

71: Anhui Polytechnic University
72: ZHENG Xianhong, LI Changlong, WANG Peng, NIE Wenqi, HU Qiaole, TANG Jinhao, LIU Tongshuang, HE You, LI Zhiying

54: CORE-SHEATH MXENE FIBER AEROGEL AND PREPARATION METHOD THEREOF

00: -
Disclosed is a core-sheath MXene fiber aerogel and a preparation method thereof. The preparation method includes the following steps: preparation of core-sheath MXene composite fiber; preparation of MXene composite fiber aerogel; and reduction preparation of graphene/MXene composite fiber aerogel; fusion anchor nodes are established among MXene-based composite fibers through a wet-laid web forming process to enhance the overall consistency and structural strength of the fiber felt and form the core-sheath graphene oxide/MXene colloidal fiber felt; then, the highly conductive graphene/MXene fiber aerogel is prepared by freeze-drying and reduction process; where, the surface of MXene fiber is coated with highly conductive graphene, and a hydrophobic protective layer is formed on the surface of MXene, greatly reducing the water absorption of MXene composite fiber and greatly reducing the contact area between MXene and air, so as to improve the environmental stability and durability of MXene and electromagnetic shielding durability, and realize the application of flexible, efficient and durable electromagnetic shielding materials.



21: 2022/12049. 22: 2022/11/04. 43: 2023/02/01
51: A23K

71: Institute of Animal Husbandry and Veterinary Medicine, NingXia Academy of Agricultural and Forestry Sciences (Co., Ltd.), Yinchuan Animal Husbandry Technology Promotion Service Center
72: MEI Ning'an, LIU Weiping, ZHOU Ying, LIU Zixin, XU Jun, CAO Xiaozhen, LIU Xiyuan, YUN Hua, YAN Yuping

54: NON-RESISTANT FUNCTIONAL NUTRITIONAL LICKING BRICK FOR CATTLE AND SHEEP AND PREPARATION METHOD THEREOF

00: -

The invention discloses a non-resistant functional nutritional licking brick for cattle and sheep and a preparation method thereof, belonging to the technical field of animal feed. The non-resistant functional nutritional licking brick for cattle and sheep without resistance comprises antibacterial peptide, tannic acid, lycium barbarum polysaccharide, microecological biological feed additive, whole-cell enzyme, trace element additive, table salt and molasses, where the trace element additive comprises ferrous sulfate, zinc sulfate, copper sulfate, manganese sulfate, selenium yeast, potassium iodide, cobalt chloride, magnesium oxide, sodium sulfate and calcium hydrogen phosphate. The non-resistant functional nutritional licking brick for cattle and sheep designed by the invention can make the feed intake of livestock more reasonable and the nutrition more comprehensive, can also effectively exert the effects of resistance substitution and growth promotion, enhance the immunity, improve the production performance and reduce the risk of illness, and is suitable for supplementary

feeding of cattle and sheep in different production stages.

21: 2022/12050. 22: 2022/11/04. 43: 2023/02/01
51: A01G; C12N; C12R

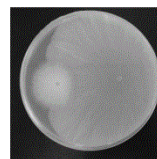
71: Shanghai Academy of Agricultural Sciences
72: ZHANG, Yingying, ZHU, Weimin, LIU, Yahui, YOU, Jiaqi, WANG, Qiancheng

33: CN 31: 202111318342.4 32: 2021-11-09

54: CULTIVATION METHOD FOR RESISTING TOMATO FUSARIUM WILT AND IMPROVING TOMATO YIELD

00: -

The present invention provides a cultivation method for resisting tomato fusarium wilt and improving a tomato yield and belongs to the technical field of plant disease control. According to the method, the fusarium wilt antagonism capability of tomatoes is improved by utilizing a conidial suspension with an appropriate concentration, a proper cultivation temperature and a proper pH value of a substrate, and a better tomato fusarium wilt resistance effect is achieved. The morbidity, mortality and disease index of tomato seedlings dipped in a conidial suspension of *Trichoderma koningiopsis* T-51 are significantly reduced, and the yield per plant of the tomatoes can be improved.



21: 2022/12052. 22: 2022/11/04. 43: 2023/02/01
51: E02F

71: Henan University of Urban Construction
72: HE, Ruixia, HAO, Yanzhou, JIA, Mingzhao, ZHANG, Shuo, LONG, Zhe, WANG, Jinlong, WANG, Yaoxuan, ZHAO, Wenxian

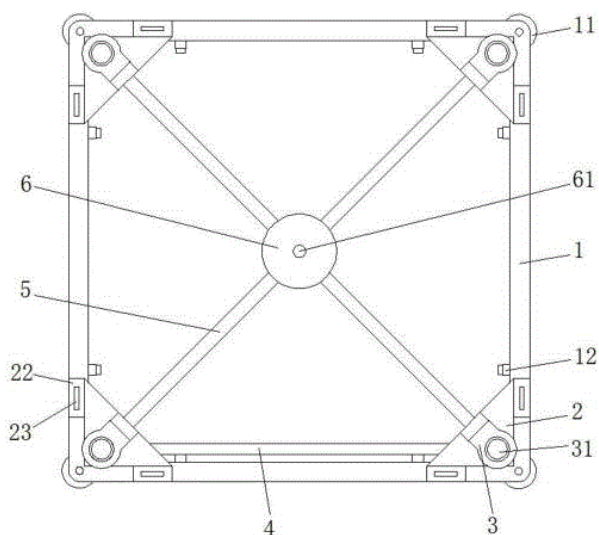
33: CN 31: 202210186430.1 32: 2022-02-28

54: STRIKE-OFF DEVICE FOR CONTROLLING UNEVEN SETTLEMENT OF COLLAPSIBLE LOESS FOUNDATION

00: -

The present disclosure provides a strike-off device for controlling uneven settlement of a collapsible loess foundation. The strike-off device includes a square frame, end corner plates, supports and a strike-off board; support legs are respectively installed at four corners of a bottom surface of the

square frame, the end corner plates are respectively fixed to four end corners of a top surface of the square frame, and the supports are fixed to the end corner plates; adjustment cylinders are fixed to top surfaces of the supports, telescopic shafts of the adjustment cylinders penetrate through top plates of the supports, first motors are fixed to bottom ends of the telescopic shafts of the adjustment cylinders, connecting shafts are fixed to bottom ends of rotating shafts of the first motors, and the strike-off board is clamped on any one internal side of the square frame.

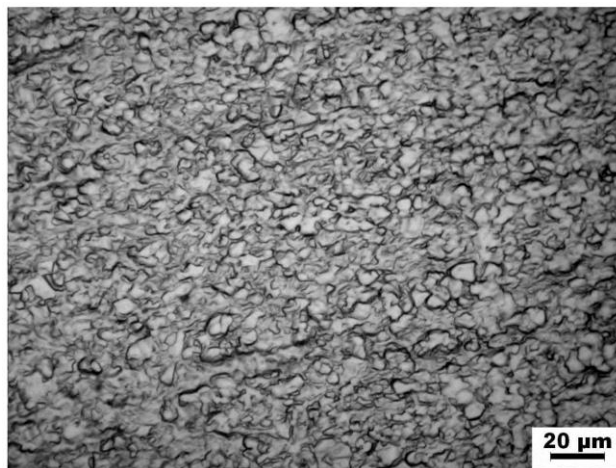


21: 2022/12053. 22: 2022/11/04. 43: 2023/02/01
 51: C22F
 71: Shenyang University of Technology
 72: ZHOU, Ge, ZHANG, Haoyu, TAN, Bing, HE, Zhenghua, ZHANG, Siqian, ZUO, Xiaojiao, ZHANG, Nannan, CHEN, Lijia

54: METHOD FOR ADJUSTING AND CONTROLLING PROPORTIONS OF PHASES IN TC4 TITANIUM ALLOY THROUGH THERMAL TREATMENT

00: -
 Disclosed is a method for controlling proportions of phases in a TC4 titanium alloy through thermal treatment, characterized in that the ranges of the proportions of the alpha and beta phases can be accurately and effectively controlled, and specifically includes steps: sanding the TC4 titanium alloy with sand paper to remove an oxide layer thereon to prevent the oxide layer on the surface from interfering with the thermal treatment effect in the

follow-up thermal treatment process; performing thermal treatment on the sanded TC4 titanium alloy, and selecting a corresponding thermal treatment mode according to obtained interval values of the proportion of the alpha phase; and sequentially sanding, mechanically polishing and metallographically corroding the surface of the TC4 sample obtained after thermal treatment, observing a metallographic structure of the corroded surface, and obtaining the proportion of the alpha phase by statistically analyzing the colored alpha phase in a metallograph.



21: 2022/12054. 22: 2022/11/04. 43: 2023/02/01
 51: C08G; C08L
 71: Guizhou Minzu University, The Affiliated Hospital of Guizhou Medical University
 72: Daohai ZHANG, Jingyu DU, Xiaonan LIU, Wenjing ZHANG, Xiao WU, Jiakui ZHANG, Fang TAN, Xiao ZHAN, Yuhuan XU, Renyuan YANG, Hongwei WANG, Kuntian LI, Yanyan TAN, Meng PEI, Yu XUE

54: A HIGH PERFORMANCE HEAT RESISTANT PHA COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION

00: -
 The invention relates to a high performance heat resistant PHA composite material and a preparation method thereof, belonging to the field of biodegradable materials. The high performance heat resistant PHA composite material and its preparation method are composed of 60-90 PHA, 10-40 PBS, 5-20 toughening agents, 5-20 inorganic nanoparticles, 1-5 silane coupling agents, 0.1-5 antioxidants, 1-5 lubricants by weight. The high performance heat resistant PHA composite material can be completely

degraded to solve the problem of plastic recycling, and the performance can meet the use requirements of card-based industry, packaging industry, printing industry, etc. The various physical properties of high performance heat resistant PHA composites can be adjusted by the ratio of raw materials.

21: 2022/12055. 22: 2022/11/04. 43: 2023/02/01
51: C08K; C08L

71: Guizhou Minzu University, The Affiliated Hospital of Guizhou Medical University

72: Daohai ZHANG, Jingyu DU, Xiaonan LIU, Wenjing ZHANG, Xiao WU, Jiakui ZHANG, Fang TAN, Xiao ZHAN, Yuhuan XU, Renyuan YANG, Hongwei WANG, Kuntian LI, Yanyan TAN, Meng PEI, Yu XUE

54: A BIODEGRADABLE HEAT RESISTANT PLA/PBS COMPOSITE MATERIAL AND ITS PREPARATION METHOD

00: -

The invention relates to a biodegradable heat resistant PLA/PBS composite material and a preparation method thereof, belonging to the field of biodegradable materials. The biodegradable heat resistant PLA/PBS composite material and its preparation method are composed of 40-80 PLA, 10-50 PBS, 15-20 cyclic polyester CBT, 0.1-0.5 catalyst, 0.5-1 transesterification inhibitor, 1-5 nucleating agents and 0.1-5 antioxidant by weight. The biodegradable heat resistant PLA/PBS composite material can be completely degraded to solve the problem of plastic recycling, and the various physical properties of biodegradable heat resistant PLA/PBS composite material can be adjusted by the ratio of raw materials.

21: 2022/12056. 22: 2022/11/04. 43: 2023/02/01
51: A62C

71: Shenzhen Polytechnic

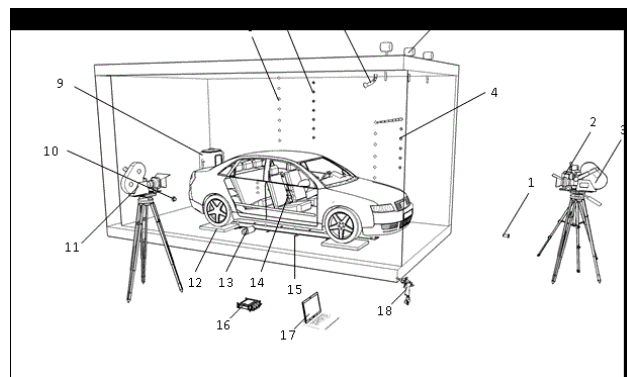
72: Ruichao WEI, Shaozhang CHEN, Shenshi HUANG, Hao CHANG, Haoliang XIE, Zhurong DONG

54: A FIRE-MEASURING DEVICE, METHOD, AND APPLICATION OF ELECTRIC VEHICLES IN THE GARAGE

00: -

The invention discloses a fire measuring device for electric vehicles in the garage, including a fire parameter acquisition device for collecting fire parameters during the fire evolution process of

electric vehicles in the garage, a fire monitoring device for dynamically recording the combustion process, a computer, a charging pile, and a water gun fire extinguishing mechanism, the fire monitoring device mentioned above communicates with the computer; The fire parameters include heat release rate, temperature, radiation, released gas and electric vehicle mass change. The invention adopts a fire measuring device for electric vehicles in the garage with the above structure, by measuring the parameters such as heat release rate, temperature, radiation, and released gas type during the firing process, the firing mechanism of the electric vehicle stored in the garage is further analyzed and studied, to provide basic data for the technical development of electric vehicle fire safety and provide experimental guidance for personnel training.



21: 2022/12057. 22: 2022/11/04. 43: 2023/02/01
51: A63B

71: Gansu Agricultural University

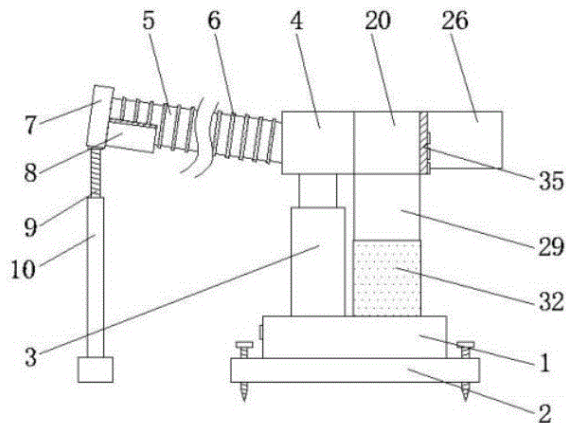
72: GUO Qing, HU Baohui

54: PUSHING AND CONVEYING DEVICE FOR SPHERICAL SPORTS EQUIPMENT

00: -

The invention discloses a pushing and conveying device for spherical sports equipment, which comprises a power supply box, wherein one side of the top of the power supply box is fixedly connected with an electric telescopic rod; the output end of the electric telescopic rod is provided with a first-stage pushing device; one side of the first-stage pushing device is provided with a second-stage pushing device; a third-stage pushing device is arranged below the second-stage pushing device; the other side of the first-stage pushing device is provided with a conveying device; and a supporting device is arranged below the conveying device. The pushing

and conveying device for spherical sports equipment ensures the all-round service, avoids the single service route, and can effectively train the goalkeeper.



21: 2022/12059. 22: 2022/11/04. 43: 2023/02/01
51: B22D

71: Qingdao Shengmei Machinery Co.,Ltd
72: Pang Zonggang, Wei Taijun, Yang Changchun,
Meng Xianfeng, Pang Zengmiao

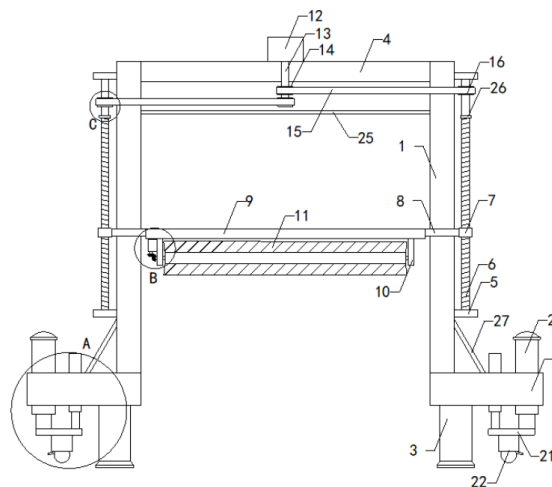
33: CN 31: 202221085246.X 32: 2022-05-07

54: AUTOMATIC SAND SCRAPE DEVICE

00: -

The utility model relates to the technical field of casting equipment, in particular to an automatic sand scraping device. The equipment is placed at a proper position, and when a trolley passes through the equipment, a first motor drives a screw rod to rotate so as to drive a cleaning brush to move up and down, and meanwhile, a power mechanism drives the cleaning brush to clean the trolley. When the equipment needs to be moved, The air cylinder is star to push that universal wheel to move downwards to support the equipment off the ground, and then the equipment can be pus to displace, so that the whole structure is simple, the operation is convenient, the labor intensity is effectively reduced, and the efficiency is improved; Comprises a supporting column, a base and a bottom column, wherein the base is fixedly arranged at the bottom of the supporting column; the bottom column is fixedly arranged at the bottom of the base; Also comprises a top plate, a power frame, a screw rod, a cleaning mechanism, a driving mechanism, a power mechanism and a moving mechanism, wherein the top plate is fixedly arranged at the top of the supporting column, the power frame is fixedly

arranged at the middle part of the supporting column, the screw rod is rotatably arranged at the middle part of the power frame, and the cleaning mechanism is arranged in the middle of the screw rod.



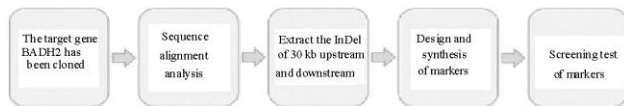
21: 2022/12060. 22: 2022/11/04. 43: 2023/02/01
51: C12Q

71: Tropical Crops Genetic Resources Institute,
Chinese Academy of Tropical Agricultural Sciences
72: Hu Wei, He ZhiZhou, Lin QiuYun, Xie ZhenYu,
Zhou YuJie, Long KaiYi

54: INDEL MOLECULAR MARKER OF RICE AROMA GENE BADH2, PRIMER, KIT AND DETECTION METHOD THEREOF

00: -

The invention provides an InDel molecular marker of rice aroma gene Badh2, a primer, a kit and a detection method thereof, belonging to genetic engineering. The InDel molecular marker comprises a Badh2-79163 marker or a Badh2-85550 marker; the Badh2-79163 marker is located at the 22379163rd position of rice chromosome 8; the Badh2-85550 marker is located at the 22385550th position of rice chromosome 8. The molecular marker of InDel provided by the invention can be used for genotyping by 1.5 percent-2 percent agarose gel electrophoresis, so that those common breeding companies with insufficient equipment and experimental conditions can also carry out molecular marker-assisted breeding, and the difference of molecular marker-assisted breeding is lowered.



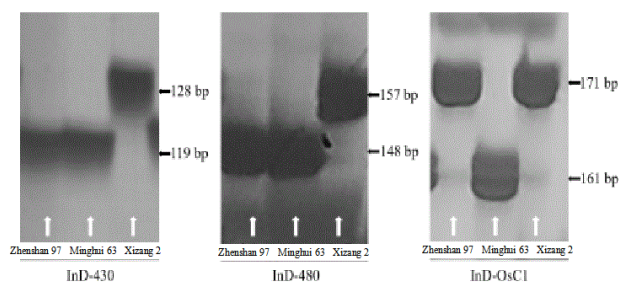
21: 2022/12061. 22: 2022/11/04. 43: 2023/02/01
51: C07K

71: Tropical Crops Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences
72: Hu Wei, Xie ZhenYu, Lin QiuYun, He ZhiZhou, Zhou YuJie, Long KaiYi

54: BIMOLECULAR MARKER FOR RICE LEAF SHEATH COLOR IDENTIFICATION, PRIMER COMBINATION, KIT AND IDENTIFICATION METHOD THEREOF

00: -

The invention provides a bimolecular marker for identifying the color of rice leaf sheath, a primer combination, a kit and an identification method thereof, belonging to the technical field of genetic engineering. The bimolecular markers are InD-OsC1 marker and InD-RB marker; the InD-OsC1 marker is located at the 22352872nd position of rice chromosome 6; the InD-RB marker comprises an InD-430 marker or an InD-480 marker, wherein the InD-430 marker is located at the 22379163rd position of rice chromosome 1, and the InD-480 marker is located at the 22374640th position of rice chromosome 1. Compared with the previous method of identifying only a single locus, the invention comprehensively identifies the regulation gene of leaf sheath color by detecting two genetic loci, and can predict the genotype and phenotype of the next generation hybrid by the genotype of parents, thus avoiding ineffective breeding.



21: 2022/12062. 22: 2022/11/04. 43: 2023/02/01
51: C05G

71: Zhejiang Institute of Subtropical Crops
72: Wang YueYing, Xia HaiTao, Liu Yu, Jin Xi

54: ORGANIC-INORGANIC COMPLEX FERTILIZER OF DENDROCALAMOPSIS OLDHAMI

00: -

The invention relates to an organic-in-organic complex fertilizer of *Dendrocalamopsis oldhami*, which comprises the following components in percentage by mass: 45-55 percent of decomposed organic fertilizer, 10-15 percent of urea, 10-30 percent of superphosphate, 0-10 percent of calcium magnesium phosphate fertilizer, 8-15 percent of potassium sulfate, 3-5 percent of silicon fertilizer and 0.1 percent of zinc sulfate heptahydrate. The invention can not only comprehensively supply the nutrients needed by the growth of *Dendrocalamopsis oldhami*, but also can fertilize the soil, increase the organic matter content of the soil, and realize the high and stable yield of *Dendrocalamopsis oldhami*.

21: 2022/12064. 22: 2022/11/04. 43: 2023/02/01
51: E21B

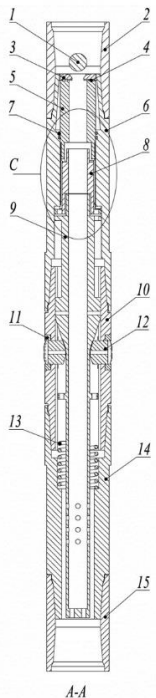
71: Southwest Petroleum University
72: Jie Qiu, Haifeng Ma, Wenjie Xie, Zhixu Zhou, Xian Qin

54: A REUSABLE TELESCOPIC REAMING-WHILE-DRILLING DEVICE

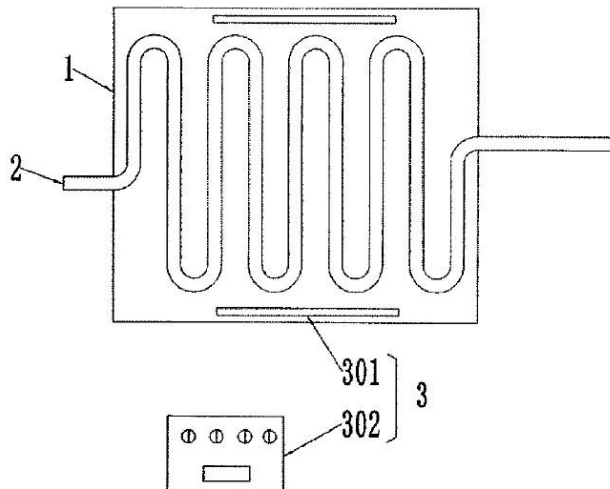
00: -

The invention discloses a reusable telescopic reaming while drilling device, which belongs to the technical field of reaming while drilling. It includes: reaming drill, central pipe, movable sleeve, pressure pipe, main spring, reset spring, outer shell, pressure holding device; The outer shell comprises an upper shell, a central shell and a lower shell; The inner circumferential direction of the upper shell is provided with a guide groove and a card tooth, and the guide groove is divided into deep guide groove and shallow guide groove, which are respectively arranged on both sides of the evenly distributed card teeth along the circumference, and the pressure pipe and the movable sleeve are provided with mutually engaging card teeth. And the tooth surface of the clamping teeth on the movable sleeve is slightly higher than that on the pressure pipe. Such that it can be arranged on the upper shell through a deep guide groove, not through a shallow guide groove and the upper shell clamping teeth. Thus, the reaming bit can be repeatedly telescoped; The simple structure of the reaming device not only allows the reaming function to be switched on and off according to the formation environment, but also allows the reaming bit to be flexibly retracted, thus it

improves the reaming efficiency and cementing quality.



the heat transfer, thereby improving the heat exchange efficiency.

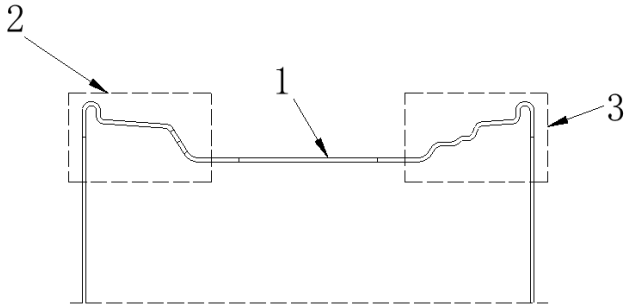
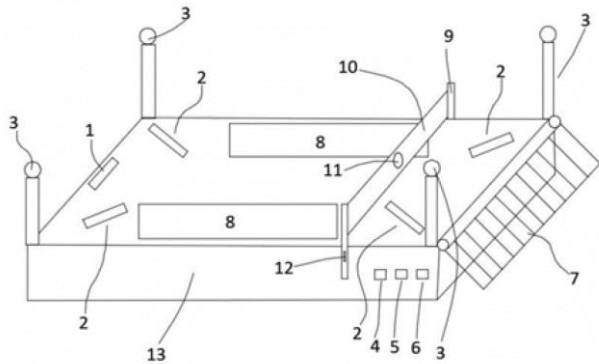


21: 2022/12171. 22: 2022/11/08. 43: 2022/12/05
 51: F28D
 71: ZHEJIANG UNIVERSITY OF WATER RESOURCES AND ELECTRIC POWER
 72: ZHU, CHUANHUI, CUI, JIAMIN, YAN, SHUBIN, SHEN, LIFANG, LI, HUIYING, LUO, QUANQUAN, CUI, YANG, HUANG, BIYI, ZHANG, WEI
 33: CN 31: CN202111326886.5 32: 2021-11-10
54: PHASE-CHANGE HEAT-STORAGE HEAT EXCHANGER

00:
 The present invention relates to the technical field of heat exchangers and provides a phase-change heat-storage heat exchanger, including: a shell and a tube body used for a thermal fluid to flow through, wherein an ultrasonic assembly is arranged in the shell, a magnetic phase-change heat-storage material is arranged in the tube body, and when the thermal fluid flows through the tube body, the thermal fluid exchanges heat with the magnetic phase-change heat-storage material under the action of ultrasonic waves emitted by the ultrasonic assembly. The phase-change heat-storage heat exchanger of the present invention can accelerate

21: 2022/12196. 22: 2022/11/09. 43: 2023/02/02
 51: A61B; A61D
 71: Shihezi University
 72: JIN, Shan, PANG, Lijuan, CAI, Wenping, GUO, Na, ZHU, Dongyang
 33: CN 31: 202122752783.7 32: 2021-11-10
54: BLOOD SAMPLING DEVICE FOR RAT ABDOMINAL AORTA

00: -
 Disclosed is a blood sampling device for a rat abdominal aorta, including a rat body fixing platform, a head fixing component for fixing a head of a rat, limb fixing components for fixing four limbs and a blood sampling needle fixing frame for positioning a blood sampling needle, wherein the head fixing component and the limb fixing components are positioned on the upper side of the rat body fixing platform, the blood sampling needle fixing frame is slidably connected with the rat body fixing platform in a height-adjustable mode, and the blood sampling needle fixing frame is provided with a blood taking needle fixing hole. The head fixing component fixes the head of a rat, the limb fixing components fix the four limbs, and the rat is prevented from moving. The blood sampling of a rat abdominal aorta can be operated conveniently by one person, with a high success rate.

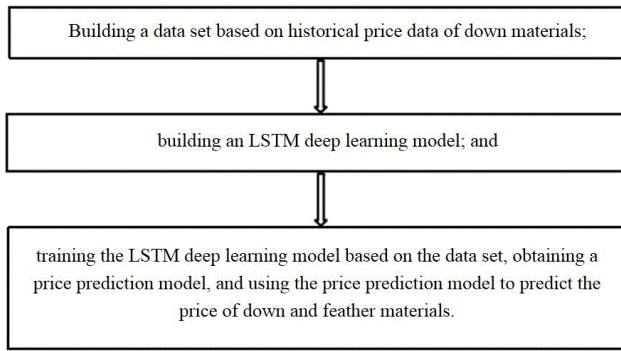
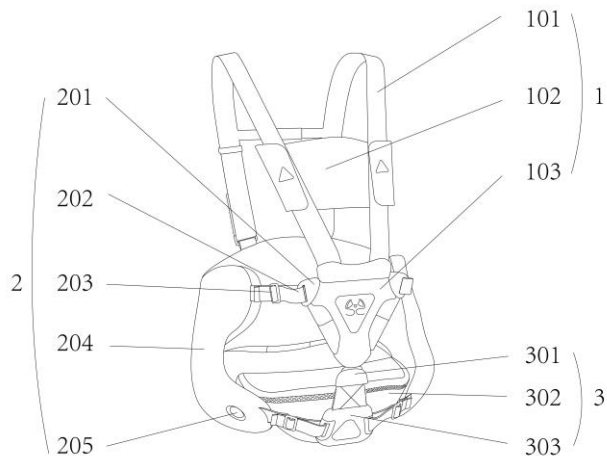


21: 2022/12360. 22: 2022/11/11. 43: 2023/01/06
 51: B60B
 71: Jining Lianwei Wheel Manufacturing Co., Ltd.
 72: XU ENCHENG, GAO YONG, XU CHANGHONG
 33: CN 31: 202110956616.6 32: 2021-08-19
54: RIM BASED ON DH STRUCTURE AND DW STRUCTURE COMBINATION AND MANUFACTURING METHOD FOR RIM

00: -
 The disclosure belongs to the field of heavy-duty agricultural machinery and forestry machinery, in particular to a rim based on a DH structure and DW structure combination. The rim comprises a rim body, wherein a DH structure is arranged on a tire mounting side of the rim body, a DW structure is arranged on a non-tire mounting side, and the DH structure and the DW structure are integrally molded; and a tire mounting side groove bottom of the DH structure is an inclined bent portion, and a non-tire mounting side groove bottom of the DW structure is a wavy bent portion. By means of the integrated structure, the production efficiency is improved while the air leakage risk caused by a traditional splicing structure is solved; the tire mounting side groove bottom of the DH structure is deeper than an ordinary DW structure, so that the problem of difficulty in tire mounting is solved; the strength of the rim is enhanced by means of the DW structure on the non-tire mounting side; the problem of tire skidding is solved by means of convex knurled structures; and the rim is of a one-piece molded structure, so that the rim is solid and durable under the same load, splicing is avoided in the manufacturing process, the energy consumption is low, the pollution is avoided, the safety index is high, the production efficiency is improved by 50%, and the cost is reduced by 30%.

21: 2022/12475. 22: 2022/11/16. 43: 2023/01/11
 51: A61H
 71: Pufengsuo Industry (Shanghai) Co., Ltd.
 72: WANG Xiyuan, SHI Hao, FU Yuli, ZHOU Shuoni, ZHAO Enmeng, Virginia Trigo
54: MULTIFORM ARTIFICIAL INTELLIGENCE FLEXIBLE EXOSKELETON CAPABLE OF EMPOWERING DURING PREGNANCY

00: -
 The invention relates to the technical field of protective wearable products for pregnant and lying-in women, and in particular to a multiform artificial intelligence flexible exoskeleton capable of empowering during pregnancy, including a suspender, a surrounding abdomen supporting belt and a baby feeding box; the invention is changed into three use forms by combination; the suspender includes a triangular three-end socket at the front end, a suspender strap, a Velcro and a detachable neck guard; the surrounding abdomen supporting belt includes abdomen supporting parts at two sides, a back support in the middle, a bag-scattering sliplock buckle, a triangular buckle and a rectangular buckle; on the basis of the surrounding abdomen supporting belt, the suspender and baby cushions are added to solve the problems of short service life, high idle rate and single function of pregnant and lying-in women's products; a pneumatic driver, four pneumatic artificial muscles and four rotary joints are respectively arranged in the surrounding abdomen supporting belt; the pneumatic driving flexible exoskeleton embedded in the product is utilized to achieve the effect of strengthening waist strength and preventing external collision during pregnancy.



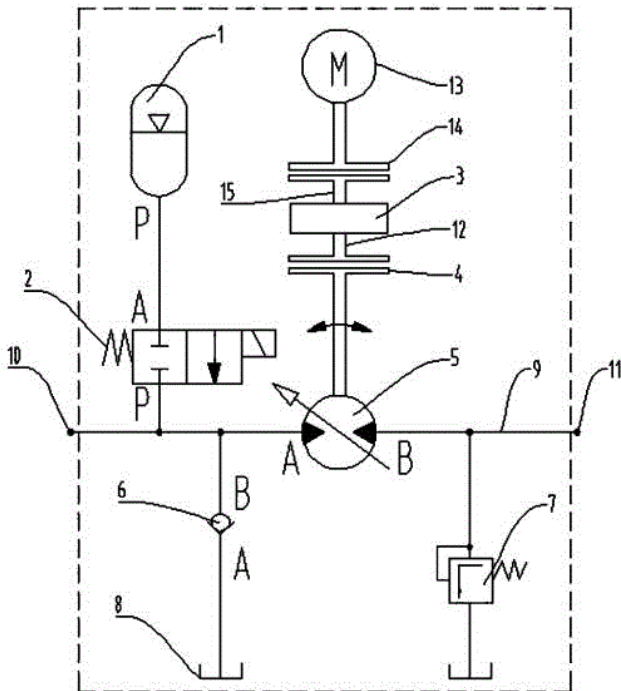
21: 2022/12476. 22: 2022/11/16. 43: 2023/01/11
 51: G06K
 71: Anhui Polytechnic University, Anhui Suli Technology Co., Ltd
 72: WEI Yuhui, SU Zhaowei, ZHANG Zhenlin, WANG Zongqian, YUAN Huifen, WANG Peng, CAO Xuejiao, WAN Zihao, LING Xue, WU Kaiming, XIE Wei, RAN Shuge, PAN Wei

54: PRICE PREDICTION METHOD OF DOWN MATERIALS BASED ON LSTM DEEP LEARNING MODEL

00: -
 The application provides a price prediction method of down materials based on LSTM deep learning model, including: building a data set based on historical price data of down materials; building an LSTM deep learning model; and training the LSTM deep learning model based on the data set, obtaining a price prediction model, and using the price prediction model to predict the price of down and feather materials. The application accurately predicts the price of down materials in a short term; the application not only provides a theoretical basis for feather and down enterprises to price down materials, and improves their prediction accuracy, thus improving the accuracy and rationality of their quotations, but also further enriches the connotation of the theoretical system of feather and down material pricing.

21: 2022/12478. 22: 2022/11/16. 43: 2023/01/11
 51: B60K
 71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY
 72: LI Jiansong, LI Haiyan, MENG Baoxing, SUN Jinhai
54: ENERGY-SAVING UNIT BASED ON FLYWHEEL AND ACCUMULATOR AND ENERGY-SAVING ELECTRO-HYDRAULIC SYSTEM

00: -
 An energy-saving unit based on flywheel and accumulator and an energy-saving electro-hydraulic system; the unit: the main oil supply pipeline has a liquid inlet and a liquid outlet, the accumulator is connected with one side of the main oil supply pipeline close to the liquid inlet, the auxiliary hydraulic motor is a small displacement variable motor; the auxiliary hydraulic motor is connected in series with one side of the main oil supply pipeline close to the liquid outlet in a way that port A communicates with the liquid inlet and port B communicates with the liquid outlet, and the output shaft of the auxiliary hydraulic motor is connected with the lower flywheel shaft in the flywheel through the first clutch. The system: the hydraulic power source is connected with the hydraulic execution unit through the energy saving system. The unit effectively improves the response, makes the system respond in time when the load condition changes greatly, and makes the hydraulic system more universal. The system not only quickly responds to the load change, but also recovers the energy when the main hydraulic motor decelerates or brakes, effectively reducing unnecessary overflow or throttling losses during deceleration or braking.



21: 2022/12479. 22: 2022/11/16. 43: 2023/01/11
51: C12P

71: SHANXI NORMAL UNIVERSITY
72: ZHOU Xueyong, YU Xin, ZHANG Lihong, HU Qingping, MAIMAITINIYAZI Rehanguli

54: METHOD FOR PREPARING ACTIVE TOXIN FROM FERMENTATION BROTH OF BACILLUS THURINGIENSIS

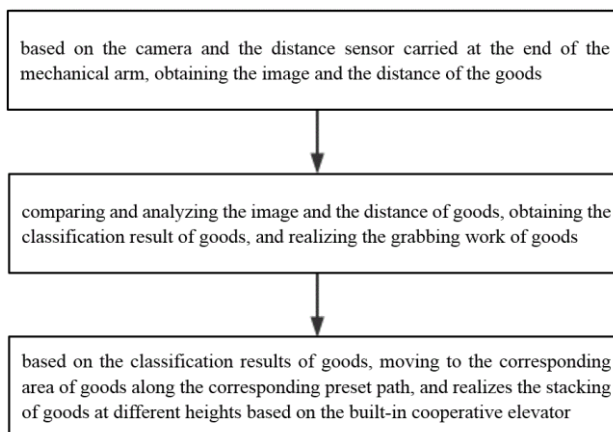
00: -
The invention discloses a method for preparing active toxin from fermentation broth of *Bacillus thuringiensis*. The method comprises the following steps: firstly, centrifuging the fermentation broth of *Bacillus thuringiensis* to remove the supernatant, suspending the precipitate with water and then adding alkali, or directly preparing a suspension with dilute alkali liquor to directly obtain a suspension containing active toxins, and then performing centrifugation, ultrafiltration, isoelectric point precipitation, washing, freeze-drying and other operations to prepare dry powder of active toxins. The method of the invention is simple, low in cost, short in extraction period and large in extraction amount compared with common methods. At the same time, the limitation of the solid content of fermentation broth in the operation of separating parasporal crystals from spores is overcome, and a large number of spore-crystal mixtures can be alkali-

dissolved, and the extraction amount is obviously improved.

21: 2022/12480. 22: 2022/11/16. 43: 2023/01/11
51: B65G

71: TANGSHAN UNIVERSITY
72: TIAN Lixin, DAI Yan, YUAN Na
54: MOBILE INTELLIGENT HANDLING AND PALLETIZING ROBOT DEVICE AND APPLICATION METHOD THEREOF

00: -
The invention discloses a mobile intelligent handling and palletizing robot device and application method thereof, which comprises the following steps: based on the camera and the distance sensor carried at the end of the mechanical arm, obtaining the image and the distance of the goods; comparing and analyzing the image and the distance of goods, obtaining the classification result of goods, and realizing the grabbing work of goods; based on the classification results of goods, moving to the corresponding area of goods along the corresponding preset path, and realizes the stacking of goods at different heights based on the built-in cooperative elevator. According to the invention, the palletizing robot replaces people to work in a harsh and dangerous environment, thus reducing labor intensity, improving labor productivity and reducing labor cost.

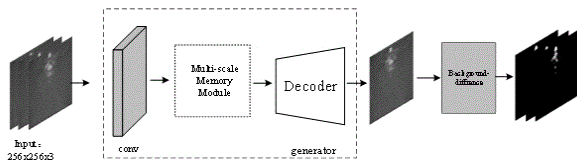


21: 2022/12481. 22: 2022/11/16. 43: 2023/01/11
51: G06K

71: SOUTHWEST PETROLEUM UNIVERSITY
72: LEI Jin, GU Yaxiong, ZHONG Wen
54: ABNORMAL DETECTION METHOD OF SWIMMING POOL DROWNING BEHAVIOR BASED ON IMPROVED GAN

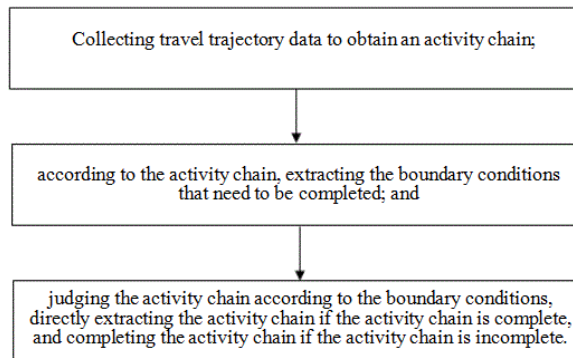
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The invention discloses a swimming pool drowning behavior abnormality detection method based on improved GAN, which comprises the following steps: constructing a confrontation network and a multi-scale memory module, and introducing the multi-scale memory module into the confrontation network; Introducing a background difference method to the confrontation network to filter background information; designing a loss function for the filtered countermeasure network to generate a drowning detection model; carrying out abnormal evaluation on the drowning detection model; Identifying drowning behavior based on the drowning detection model after abnormal evaluation. The accuracy of the algorithm of the invention is better than other algorithms, and it can still obtain the accuracy higher than other algorithms even if the positive and negative samples of the data set are unbalanced, which is of great significance for safety officers to make real-time and effective rescue.



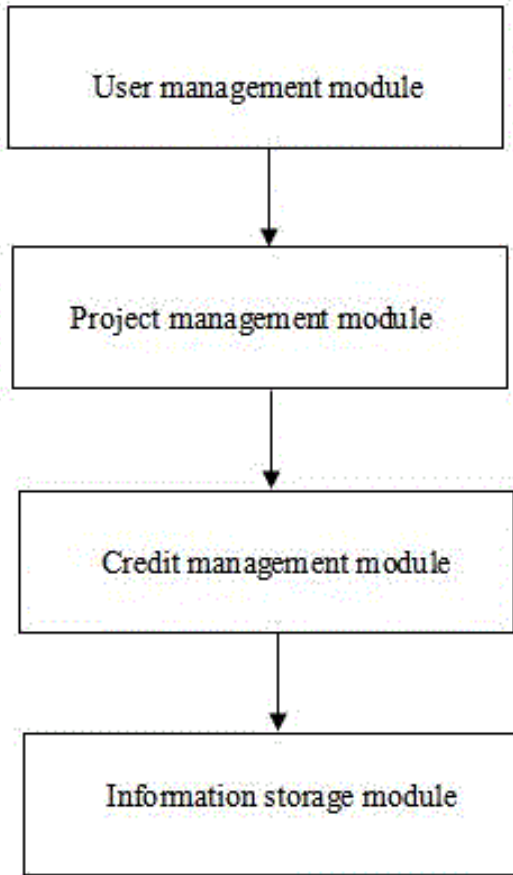
21: 2022/12484. 22: 2022/11/16. 43: 2023/01/11
 51: G06Q
 71: Shanghai Maritime University
 72: XIAO Guangnian, XIAO Yu, LU Qiongwen, OU Yuanshuai, WANG Tian, CHEN Liu
 33: CN 31: 202211196760.5 32: 2022-09-29
54: METHOD FOR EXTRACTING AND COMPLETING MULTI-DAY TRAVEL CHAIN
 00: -

The invention disclose a method for extracting and completing multi-day travel chain, which comprises that following steps: collecting travel trajectory data to obtain an activity chain; according to the activity chain, extracting the boundary conditions that need to be completed; and judging the activity chain according to the boundary conditions, directly extracting the activity chain if the activity chain is complete, and completing the activity chain if the activity chain is incomplete. The invention improves the accuracy of trajectory identification.

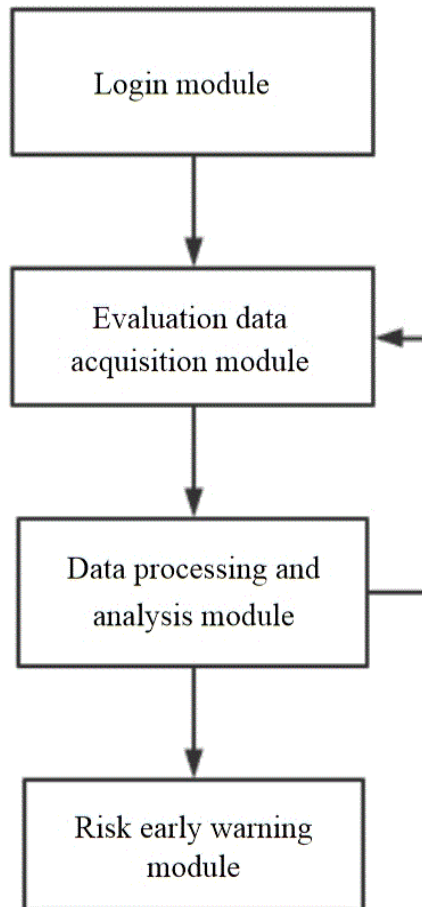


21: 2022/12492. 22: 2022/11/16. 43: 2023/01/11
 51: G06Q
 71: TANGSHAN UNIVERSITY
 72: MENG Qingying, SUN Liyan, ZHAO Nan
54: INFORMATION MANAGEMENT SYSTEM FOR COLLEGE STUDENTS' INNOVATION AND ENTREPRENEURSHIP
 00: -

The invention discloses an information management system for college students' innovation and entrepreneurship, which comprises a user management module, a project management module, a credit management module and an information storage module; the information storage module is connected with the user management module, the project management module and the credit management module; the user management module is used for user registration and login and querying, modifying and deleting user information; the project management module is used for managing user projects; the credit management module is used for managing user credits according to user project achievements; the information storage module is used for storing user information, project information and credit information. According to the invention, the user management module logs in, the project progress is recorded in time, the project progress update module updates the project progress according to the latest situation of the project, and project participants can query the project progress through the project information query module.



and a mental health risk early warning unit. The invention realizes the organic combination of multi-angle evaluation, avoids the interference of students' short-term emotions and answering psychology to the evaluation results, improves the reference and accuracy of evaluation, and facilitates the timely guidance of students with poor psychological status.



21: 2022/12493. 22: 2022/11/16. 43: 2023/01/11
 51: A61B
 71: TANGSHAN UNIVERSITY
 72: ZHAO Nan, MENG Qingying, SUN Liyan
54: EVALUATION SYSTEM OF MENTAL HEALTH FOR COLLEGE STUDENTS

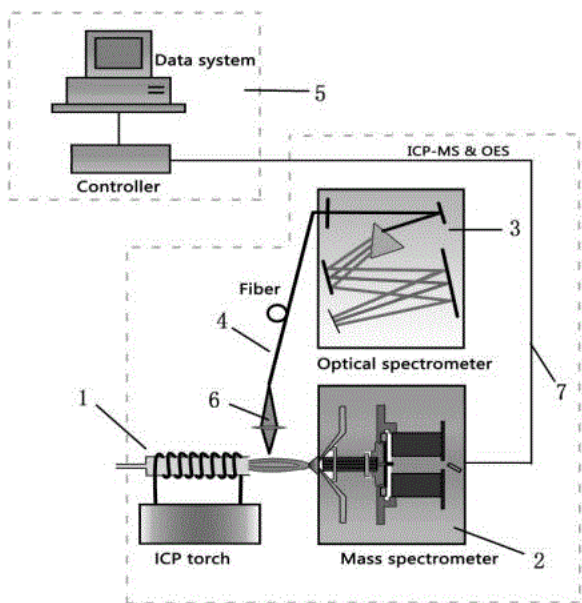
00: -
 Disclosed is an evaluation system of mental health for college students, including: an evaluation data acquisition module, a data processing and analysis module and a risk early warning module; the modules are connected in sequence, the evaluation data acquisition includes an evaluation scale unit, an inquiry unit and a teacher evaluation unit; the teacher evaluation unit is used for obtaining the scores of teachers on students' mental health state; the data processing and analysis module includes a scale data analysis unit, an image processing unit and a text processing unit; the evaluation scale unit is respectively connected with the inquiry unit and the scale data analysis unit in the data processing module, and the inquiry unit is also connected with the scale data analysis unit; and the risk early warning module includes a risk index calculation unit

21: 2022/12536. 22: 2022/11/17. 43: 2023/01/11
 51: G01N
 71: Guangzhou Institute of Geochemistry, Chinese Academy of Sciences
 72: GONG Gelian
54: DEVICE AND METHOD FOR ATOMIC EMISSION SPECTRUM AND MASS SPECTRUM ANALYSIS OF SHARED INDUCTIVELY COUPLED PLASMA LIGHT SOURCE

00: -
 The invention discloses a device and a method for atomic emission spectrum and mass spectrum analysis of a shared inductively coupled plasma light source. A mass spectrometer for receiving

fragmentation of ions in inductively coupled plasma is arranged in the axial direction of the inductively coupled plasma; there is an optical fiber probe for receiving atomic optical emissions in inductively coupled plasma is arranged in the radial direction of the inductively coupled plasma, wherein the inductively coupled plasma is generated along the inductively coupled plasma generator. The optical fiber probe is connected with one end of the optical fiber, the other end of the optical fiber is connected with the grating spectrometer, and the grating spectrometer and the mass spectrometer are controlled by the measurement system. As the grating spectrometer and the plasma mass spectrometer share the same ICP light source, the measurement accuracy of elements is improved, and the cost consumption is also reduced. The spectrum and mass spectrum measuring device of the shared inductively coupled plasma light source also has the characteristics of compact structure, convenient modular assembly and the like.

symmetrically and fixedly provided with annular tracks, and the inner side of the annular tracks is provided with a rotating mechanism which is fixedly connected with a plurality of groups of connecting pieces, the connecting pieces are slidably connected with the annular tracks, each group of connecting pieces is rotatably connected with a supporting rod, and one end of two supporting rods on the same side and the same height of the two groups of annular tracks far from the connecting pieces is hinged with a breeding board. According to the invention, the traditional fixed breeding rack is changed into a rotatable breeding rack, so that each breeding board can be turned over by 180 degrees in turn, and the breeding board can be retracted into the breeding rack to form a traditional longitudinal arrangement mode; when each breeding board spreads out and circulates, the plants, seedlings and the like inside each breeding board can be sufficiently illuminated; when the observer needs to observe the planting board at the high place or the low place, he only needs to circulate the breeding rack, which improves the practicability of the breeding rack and the convenience of operation.



21: 2022/12537. 22: 2022/11/17. 43: 2023/01/11

51: A01G

71: Jilin Agricultural Science and Technology University

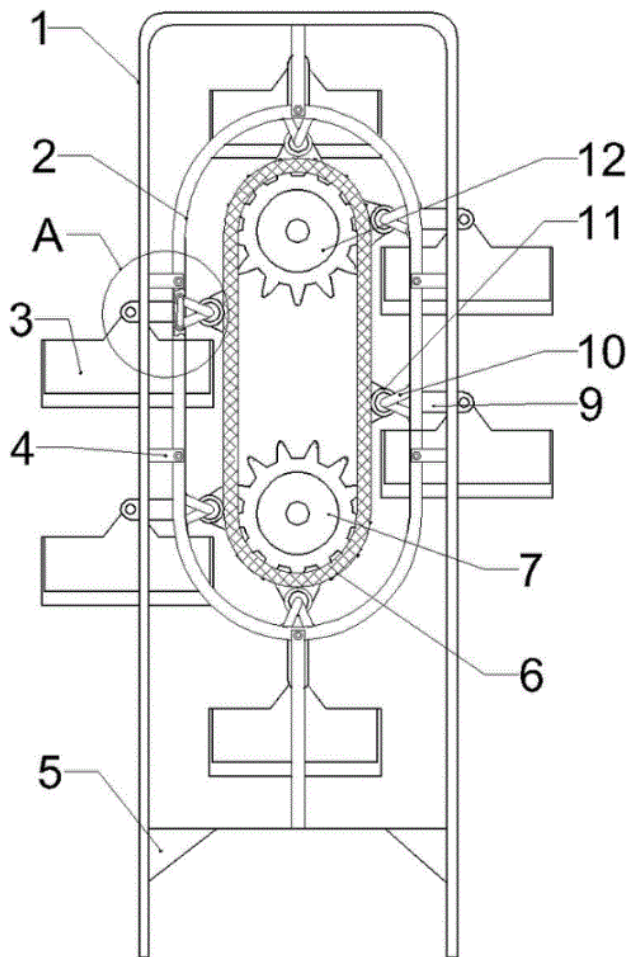
72: YANG Xiangbo, LIU Guangna

54: LAYERED RICE BREEDING RACK

00: -

The invention discloses a layered rice breeding rack.

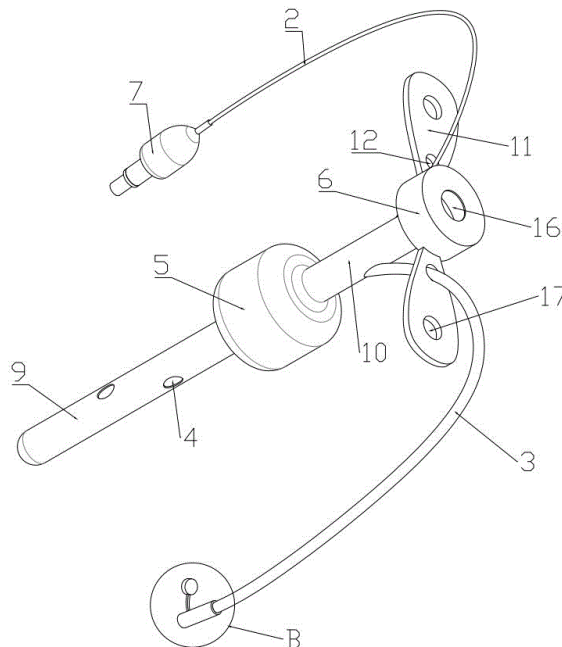
The inner walls of two sides of the rack are



21: 2022/12538. 22: 2022/11/17. 43: 2023/01/11
 51: A61B
 71: Gang Zhao
 72: Gang Zhao, Chengcheng Zhao, Niansheng Jiang, Yinglin Dai, Yi Liu
54: A DISPOSABLE MULTIFUNCTIONAL RECTAL HEMOSTATIC EXHAUST TUBE

00: -
 The invention discloses a disposable multifunctional rectal hemostatic exhaust tube, comprising a main tube, a gas tube and a liquid tube; the front side of the main tube is provided with side holes, the middle of the main tube is provided with an airbag surrounding the main tube, and the end of the main tube is provided with an exhaust valve; one end of the gas tube extends into the airbag, and the other end is provided with a push valve; one end of the liquid tube extends into the main tube, and the other end is provided with a perfusion switch. The invention combines the functions of hemostasis, perfusion flushing and exhaust into one device,

which facilitates the medical staff to use, with powerful functions and low cost; disposable use is clean and hygienic to prevent patient wound infection.



21: 2022/12539. 22: 2022/11/17. 43: 2023/01/11
 51: A61K
 71: Baofeng Xu
 72: Baofeng Xu

54: A COSMETOLOGY METHOD FOR FACIAL ANTI-AGING AND CONTOURING

00: -
 The invention discloses a cosmetology method for facial anti-aging and contouring, comprising facial anti-aging and facial contouring; the anti-aging method aims at solving aging problems of every layer based on the difference of skin layers, adopting combined therapy of different anti-aging instruments, targeting the multiple problems of customers; the facial contouring method takes the form of injection, injecting the product into contour deformities and facial depression. The advantages of the invention:
 1. For facial anti-aging, due to the combination of the superimposed targeted effects of each instrument, the role of each instrument can be fully utilized, which realizes solving the multi-layer aging problems, and plays a more significant and longer lasting curative effect; 2. For facial contouring, compared to existing hyaluronic acid filling products,

it avoids safety risks and achieves a softer and more natural effect, which is more realistic.

21: 2022/12548. 22: 2022/11/17. 43: 2023/01/11
51: G06F

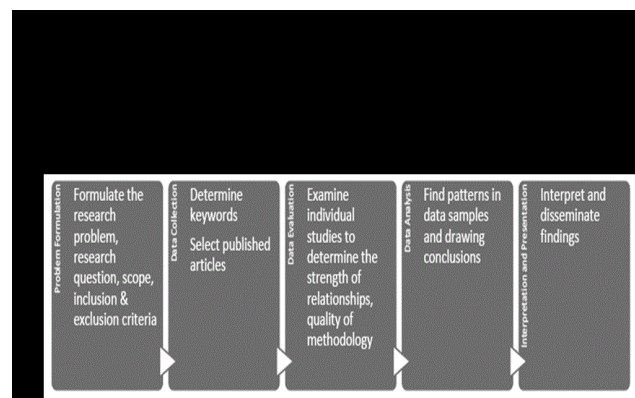
71: Dr. Prasanta Kumar Parida

72: Dr. Prasanta Kumar Parida

54: A METHOD FOR ANALYZING TECHNOLOGY ADOPTION IN SMALL-MEDIUM ENTERPRISES BASED ON A TECHNOLOGY ACCEPTANCE MODEL

00: -

The present invention relates to a method (100) for analyzing technology adoption in small-medium enterprises based on a technology acceptance model. The method (100) comprises a memory unit, a processor and a display unit. The method (100) involves review of articles on the adoption of technologies in SMEs, retrieved from popular databases using a mixture of keywords such as technology acceptance model (TAM), technology adoption, and technology adoption in SMEs. The analyzed data involved the review of TAM development from the original to the extended model, analysis of the significant and insignificant variables of TAM, identification of the most relevant variables in certain types of technology or business operation, as well as the provision of answers to the research questions.



21: 2022/12554. 22: 2022/11/17. 43: 2023/01/11
51: B63B

71: MENDEZ, Zarate Yuri

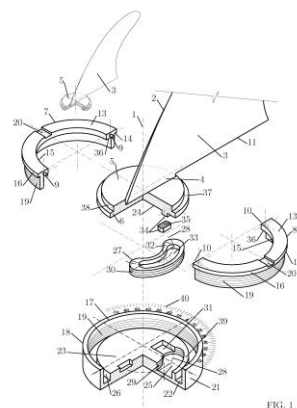
72: MENDEZ, Zarate Yuri

33: WO 31: PCT / CA2020 / 051751 32: 2020-12-18

54: DYNAMIC FIN ALIGNMENT SYSTEM

00: -

A watercraft end that ally dynamic keep a neutral alignment within the range of angles a user chooses to have and/or change in respond to the flow conditions so reducing drag. Hence, this invention is such to enable a fin to rotate within a range of angles via a rotary bearing and bearing housing which are to receive a fin having a journal base. The housing is to be fitted to a watercraft such as a surfboard, the housing having a changeable circular keyway to loosely receive a shear key at the underside of the journal base as to allow free circular motion of the shear key and correspondingly the journal base and the end within the limits of the selected circular length of the keyway.



21: 2022/12677. 22: 2022/11/22. 43: 2023/01/11
51: A23L

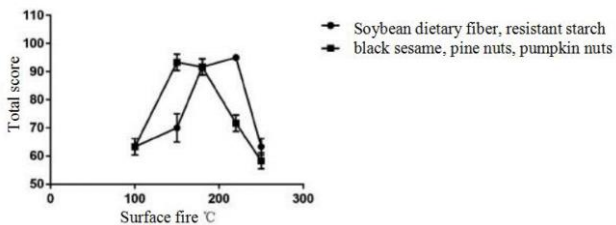
71: Jilin Agricultural University

72: YU Hansong, LYU Bo, YANG Huanhuan, JING Wendan, WANG Sainan, ZHANG Tian, FU Hongling, CHEN Xue

54: DIETARY FIBER GRANULE FOR LOWERING BLOOD SUGAR AND PREPARATION METHOD THEREOF

00: -

The invention discloses a hypoglycemic dietary fiber granule that comprises the following raw materials in parts by weight: 250-350 parts of soybean dietary fiber, 200-300 parts of resistant starch, 200-300 parts of xylitol, 20-40 parts of pine nuts, 30-40 parts of black sesame seeds, 30-40 parts of pumpkin seeds, 5-10 parts of beta-glucan, 5-10 parts of L-arabinose and 0.3-0.6 part of chromium-rich yeast, and discloses a preparation method of dietary fiber particles. The dietary fiber granule can regulate fasting blood glucose and glucose tolerance, improve glucose homeostasis, and are safe and convenient to use.

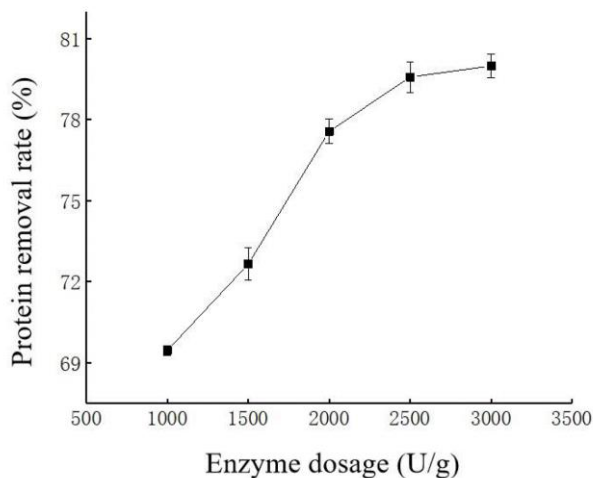


21: 2022/12678. 22: 2022/11/22. 43: 2023/01/11
51: A23L

71: Jilin Agricultural University
72: YU Hansong, GAO Junpeng, WANG Sainan, YANG Huanhuan, FU Hongling, DAI Weichang, LIU Junmei, WANG Yuhua, LYU Bo, JING Wendan

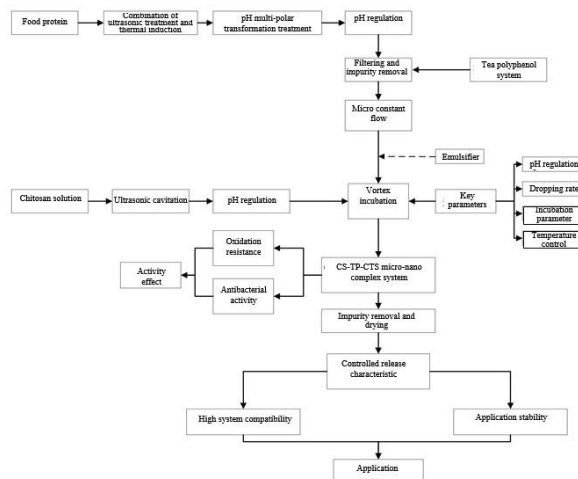
54: PREPARATION AND APPLICATION OF HIGH-PURITY INSOLUBLE FIBER FROM SOYBEAN DREGS (OKARA)

00: -
The invention discloses high-purity insoluble dietary fiber from soybean dregs (okara), which is prepared by the following methods: peeling and degreasing soybeans, and extracting protein isolate to obtain wet okara; extrusion combined with flash drying technology for dehydration; hydrolysis of starch; hydrolysis of protein, washing with water, filtering, and freeze-drying to obtain HPIDF. Through animal experiments, the results show that: 1) long-term intake of HPIDF can effectively prevent the weight gain of mice caused by HFD; 2) HPIDF has a positive preventive effect on the disorder of serum lipid metabolism caused by HFD; 3) HPIDF intervention reduced the accumulation of body fat; 4) HPIDF intervention regulated the expression levels of genes related to lipid metabolism.



21: 2022/12682. 22: 2022/11/22. 43: 2023/02/08
51: A23L; A61K
71: HANGZHOU TEA RESEARCH INSTITUTE, CHINA COOP
72: ZUO, Xiaobo, YANG, Xiufang, KONG, Junhao, SU, Xiaoqin, DIAO, Chunhua
54: PREPARATION METHOD AND APPLICATIONS OF TEA POLYPHENOL MICRO-NANO COMPLEX BASED ON PROTEIN CARRIER
00: -

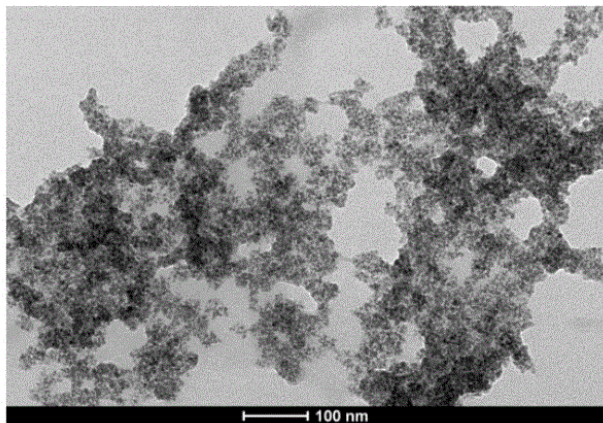
The present invention discloses a preparation method and applications of a tea polyphenol micro-nano complex based on a protein carrier. Tea polyphenol is encapsulated and carried under specified conditions by taking a food protein modified by multiple physical inductions as a carrier; and a ternary complex steady-state system is constructed in combination with chitosan, thereby further improving application stability and antioxidant and bacteriostatic activity effects of the tea polyphenol. Compared with existing related technologies, capacity and bacteriostatic activity of the polyphenol are greatly improved. The present invention can serve as an encapsulation, protection and delivery system of a polyphenol component for realizing efficient achievement and steady-state application of the tea polyphenol and even plant polyphenol components, and may be applied to multiple fields of food industry, household chemicals, medicine and health care and preservative and fresh-keeping.



21: 2022/12732. 22: 2022/11/23. 43: 2023/01/24
51: C09K
71: Shantou Polytechnic
72: Shen WANG, Qi CHEN

54: CADMIUM SULFIDE QUANTUM DOTS AND PREPARATION METHOD THEREOF

00: -
 The invention provides cadmium sulfide quantum dots and a preparation method thereof, which comprises the following steps: placing starch-containing plant tubers in a container, adding water, heating and leaching, cooling, and filtering to obtain a starch-containing plant leaching solution; then thioacetamide and cadmium sulfate are added, stirred, placed in an electronic steam pressure sterilization pot, reacted at 121 degree celsius and 102kPa, and cooled to obtain cadmium sulfide quantum dots. In this method, starch-containing plant leaching solution is used as stabilizer and modifier, and cadmium sulfide quantum dots are prepared in situ in a short reaction time at low temperature and low pressure.

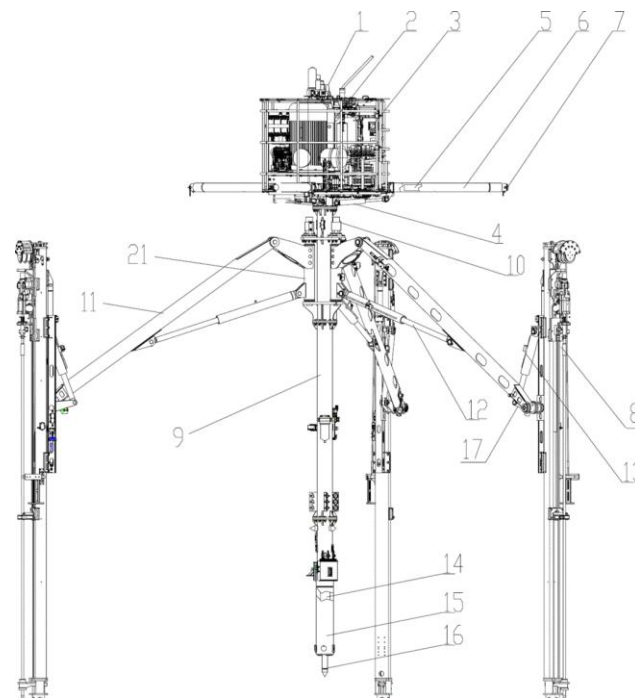


21: 2022/12733. 22: 2022/11/23. 43: 2023/01/24
 51: E21B
 71: China Coal No.3 Construction (Group) Co., Ltd, China Coal 71st Engineering Division Co., Ltd
 72: Lu Pengju, Zheng Yujian, Man Donghui, Zhang Huachun, Ye Jinghui, Cao Chuanguo, Zhang Peng, Liu Ning, Liu Linlin, Wang Zhen, Zhang Li, Zheng Changda

54: FULL HYDRAULIC INTELLIGENT VERTICAL SHAFT UMBRELLA DRILL

00: -
 The invention discloses a full hydraulic intelligent vertical shaft umbrella drill which comprises a telescopic supporting column and a sleeve, wherein the sleeve is arranged outside the supporting column, and is driven by an rotary oil cylinder to rotate around the axis of the supporting column;

main arms are distributed in the circumferential direction of the sleeve in a ring array; the main arms are hinged to the sleeve; sliding frames are hinged to the other ends of the main arms; the full hydraulic intelligent vertical shaft umbrella drill is also provided with a pitching oil cylinder and an overturning oil cylinder; and a supporting oil cylinder is controlled to ascend and descend and expand and retract by a control valve, when the device is adjusted to a proper position, three side supports are fully opened, are supported by the side wall of a shaft and are used for fixing the umbrella drill, and when three drill arms are enabled to be drilled downwards, the stability of the device meets the working requirement. The three drill arms adopt hydraulic control translation scheme. The lifting, pitching and left-right swinging of the drill arms and the propelling, rotating and impacting of a rock drill are controlled by a remote controller



21: 2022/12734. 22: 2022/11/23. 43: 2023/01/24
 51: A01N; A01P
 71: HENAN INSTITUTE OF SCIENCE AND TECHNOLOGY
 72: ZHANG, Zhiyong, LI, Lijie, JIA, Peipei, WU, Zhibin, ZHANG, Weixing, LIU, Runqiang, WANG, Sufang

54: SEED DRESSING AGENT FOR PROMOTING EARLY AND FAST GROWTH OF PEANUTS AND PREPARATION METHOD THEREOF

00: -

The present disclosure discloses a seed dressing agent for promoting early and fast growth of peanuts and a preparation method thereof, and belongs to the technical field of biological preparations. The seed dressing agent for promoting early and fast growth of peanuts disclosed herein comprises at least one of melatonin and gibberellin, and further comprises a bactericide and an adhesive. When the seed dressing agent of the present disclosure is used to treat the peanut seeds, the growth of peanut root systems is promoted, absorption of plants on nutrients and the biomass accumulation are increased, and finally the yield of peanuts is increased.

21: 2022/12735. 22: 2022/11/23. 43: 2023/01/24

51: B24B

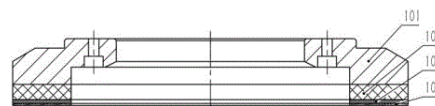
71: PINGLIANG VETERAN TECHNOLOGY RESEARCH AND DEVELOPMENT CO. LTD

72: WEN, Kang, ZHANG, Puji, CAO, Liping, ZHANG, Wancai

54: GRINDING WHEEL FOR GRINDING RECLAIMED WAFER

00: -

Disclosed is a grinding wheel for grinding a reclaimed wafer. A main structure of the grinding wheel includes a base, an elastic cushion, an adhesive layer and an abrasive layer. The base is generally made of aluminum alloy preferably and connected to a drive shaft and the elastic cushion. The elastic cushion layer is preferably made of a hard sponge material. The adhesive layer is generally made of a hook and loop fastener material preferably. The abrasive layer is generally made of a flocked sandpaper material preferably. After the flocked sandpaper loses grinding capacity, the flocked sandpaper can be directly torn off and replaced with new sandpaper. In use, the base, the elastic cushion and the adhesive layer are fixed on the drive shaft and are not removed generally, while the abrasive layer needs to be constantly replaced after losing the grinding capacity.



21: 2022/12736. 22: 2022/11/23. 43: 2023/01/24

51: E21D

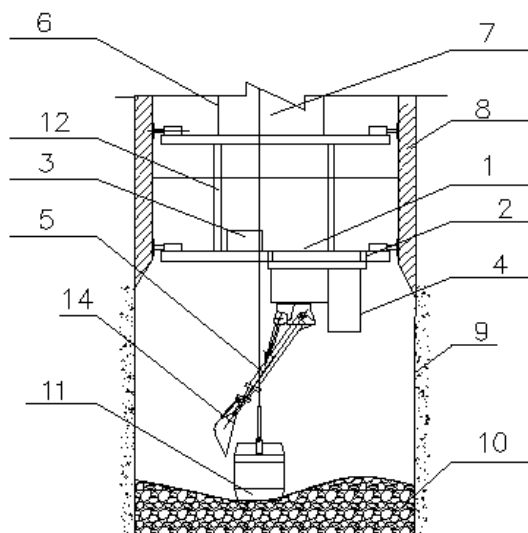
71: China Coal No.3 Construction (Group) Co., Ltd, China Coal 71st Engineering Division Co., Ltd

72: Lu Pengju, Zheng Yujian, Man Donghui, Zhang Huachun, Ye Jinghui, Cao Chuangguo, Zhang Peng, Liu Ning, Liu Linlin, Wang Zhen, Zhang Li, Zheng Changda

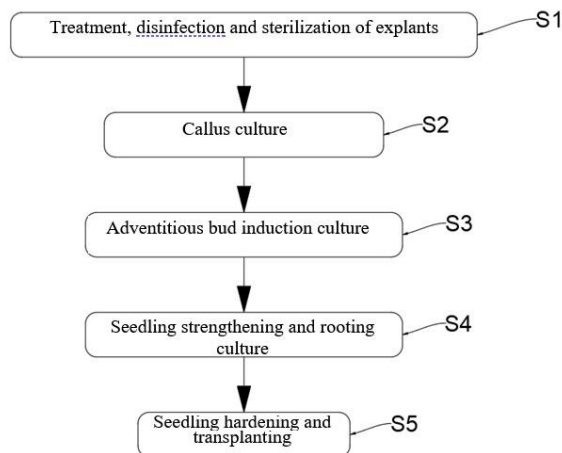
54: VERTICAL SHAFT FULL HYDRAULIC ROCK LOADER

00: -

The invention discloses a vertical shaft full hydraulic rock loader, and the rock loader comprises a hanging plate and fixing system, a rock loader rotating system, a hydraulic driving system, a rock loader controlling system and a hydraulic rock loading system; and the hanging plate and fixing system is centrally controlled by a ground stable vehicle and suspended in the shaft by a hanging plate suspension steel wire rope; the rock loader rotating system is installed on the hanging plate and the fixing system, and the hydraulic driving system is installed on the lower hanging plate; in addition, the hydraulic rock loading system and the rock loader controlling system are all installed on the main frame of the rock loader rotating system, and various hydraulic systems and power supply systems are connected with each system through high-pressure rubber hoses and cables. And the invention provides a brand-new full hydraulic intelligent rock loading equipment for vertical shafts, which can realize the safety, high efficiency, energy conservation and environmental protection of rock loading in vertical shafts, improve the construction speed of vertical shafts, and has wide popularization and application values.



strengthening and rooting culture; and S5: seedling hardening and transplanting.



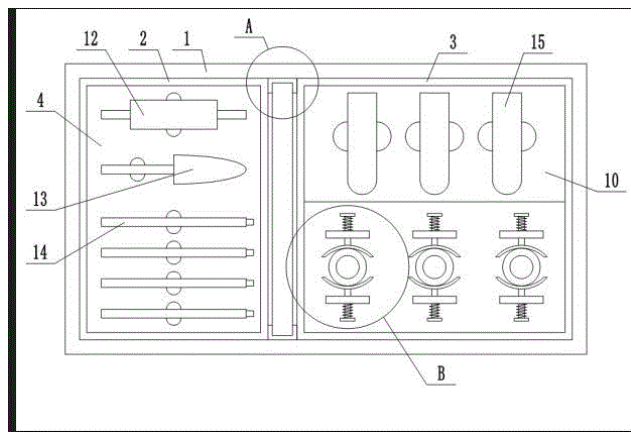
21: 2022/12737. 22: 2022/11/23. 43: 2023/02/08
 51: A01H; C12N
 71: GUIZHOU BOTANICAL GARDEN (GUIZHOU INSTITUTE OF HORTICULTURAL SCIENCE, GUIZHOU INSTITUTE OF BOTANY)
 72: REN, Qifei, OU, Mingzhu, ZUO, Zulun, TANG, Shenghu, MA, Jinghua, LIU, Fang, CHEN, Yunfei
 33: CN 31: 202211228225.3 32: 2022-10-08
54: TISSUE CULTURE AND RAPID PROPAGATION METHOD FOR THAMNOCHARIS ESQUIROLII

00: -
 Disclosed is a tissue culture and rapid propagation method for *Thamnocharis esquirolii* and relates to the related field of propagation of *Thamnocharis esquirolii*, for solving problems in the prior art that there is a relative lack of study on original Gesneriaceae plants, a specific tissue culture technology for rare or endangered species *Thamnocharis esquirolii* is absent, and the quantity of wild populations of the *Thamnocharis esquirolii* is extremely small. The method includes the following steps: S1, treatment, disinfection and sterilization of explants; S2, callus culture: inoculating sterilized leaves into a callus culture medium for conducting callus culture; S3: adventitious bud induction culture: inoculating the obtained callus into an adventitious bud culture medium for conducting adventitious bud induction culture; S4: seedling strengthening and rooting culture: inoculating the obtained adventitious buds into a seedling strengthening and rooting culture medium for conducting seedling

21: 2022/12739. 22: 2022/11/23. 43: 2023/01/30
 51: G01N
 71: GANSU ACADEMY OF ECO-ENVIRONMENTAL SCIENCES
 72: YANG, Bin, LIU, Peng, MA, Xiaozhou
54: TOOLBOX FOR SOIL ENVIRONMENTAL DAMAGE ASSESSMENT

00: -
 The invention discloses a toolbox for soil environmental damage assessment, which comprises a box body, wherein a table plate is detachably connected in the box body, one side of a box cover is hinged at the top of the box body, the other side of the box cover is fixedly connected with a connecting plate, the outer wall of the box body is fixedly connected with a plug-in assembly, and the plug-in assembly is connected with the connecting plate; the first storage part comprises a first storage box, the first storage box is located at one side of the table plate, the first storage box is placed in the box body, and a first tool storage assembly is fixedly connected in the first storage box; the second storage part comprises a second storage box, the second storage box is located at the other side of the table plate, the second storage box is placed in the box body, the second storage box is fixedly connected with a second tool storage assembly, one side of the second tool storage assembly is provided with a plurality of reagent storage assemblies, and the reagent storage assemblies are all installed at the bottom of the second storage box. The toolbox of

the application can quickly detect the pollutants in the soil exceeding the standard on the spot, which is very convenient and quick.



21: 2022/12740. 22: 2022/11/23. 43: 2023/01/24
51: C10J; F01N

71: North China University of Science and Technology

72: LIU, Yun, ZHANG, Yuan, TIAN, Yaqiang, LI, Haiying, CHEN, Liansheng

33: CN 31: 202211326374.3 32: 2022-10-27

54: BINARY METAL CATALYST BASED ON GASIFICATION ASH AND SLAG, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present disclosure belongs to the field of biomass solid waste utilization, and particularly relates to a binary metal catalyst based on gasification ash and slag, and a preparation method and application thereof. According to the present disclosure, gasification ash and slag serve as carriers, and alkali metal and alkaline earth metal in the gasification ash and slag have a higher catalytic activity, which improves the catalytic cracking ability of the gasification ash and slag for tar at medium and low temperature; nickel as an active component is introduced, and different auxiliaries are adopted for modification; and thus, the problem that a single active component is prone to deactivation in a catalytic process is solved, and the present disclosure has a potential of achieving full component utilization of gasification products. The binary metal catalyst may efficiently catalyze the tar to crack, and is high in recycling stability.

21: 2022/12742. 22: 2022/11/23. 43: 2023/01/24
51: A61B

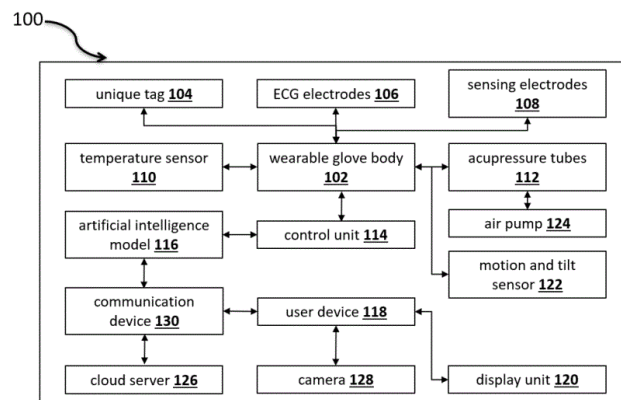
71: Dr. Yallanti Sowjanya Kumari, Dr. Jeyalakshmi Kaniyappan Sathiyavan, Dr. Subashini Balakrishnan, Dr. Jency Rubia Jebaraj, Dr. Rajesh Thipparaju, Dr. Sumagna Patnaik, Nancy Beaulah Rathinam, Dr. Lilly Raamesh, Sakthivel Venkatesan, Tarun Jaiswal

72: Dr. Yallanti Sowjanya Kumari, Dr. Jeyalakshmi Kaniyappan Sathiyavan, Dr. Subashini Balakrishnan, Dr. Jency Rubia Jebaraj, Dr. Rajesh Thipparaju, Dr. Sumagna Patnaik, Nancy Beaulah Rathinam, Dr. Lilly Raamesh, Sakthivel Venkatesan, Tarun Jaiswal

54: ARTIFICIAL INTELLIGENCE-BASED HEALTHCARE SYSTEM FOR CONTINUOUS HEALTH MONITORING AND PREDICTING DISEASES IN ITS EARLY PHASE

00: -

The artificial intelligence-based healthcare system comprises a wearable glove body having a unique tag containing user personal details; a plurality of ECG electrodes for detecting arrhythmias, and coronary heart disease; a pair of sensing electrodes for sensing the concentration of mineral in human sweat; a temperature sensor for sensing real time body temperature; a plurality of acupuncture tubes for generating acupuncture to a plurality of hand pressure points; a control unit for sending a set of data to a user computing device; and an artificial intelligence model installed on a user device for continuous health monitoring and predicting possible diseases in its early phase upon comparing values of the received set of data with a pre-stored data, wherein the monitored set of data and predicted diseases along with possible diseases in its early phase is displayed on a display unit coupled to the user computing device.



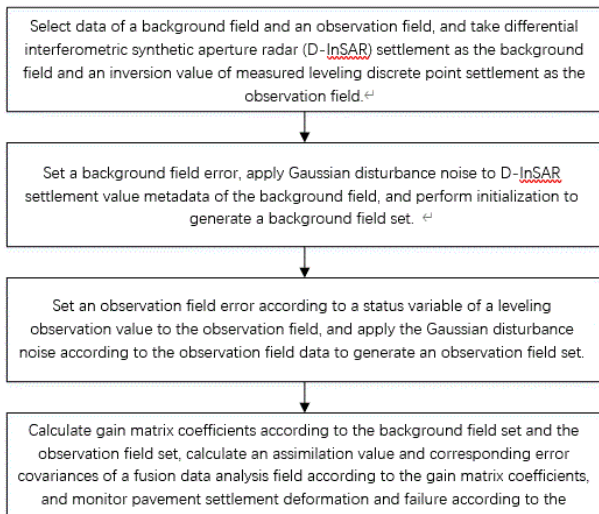
21: 2022/12745. 22: 2022/11/23. 43: 2023/01/24
51: G01C

71: Shandong Jiaotong University

72: Binchen Zhao

54: GROUND SURFACE DEFORMATION MONITORING METHOD AND SYSTEM BASED ON MULTI-SOURCE MONITORING DATA FUSION

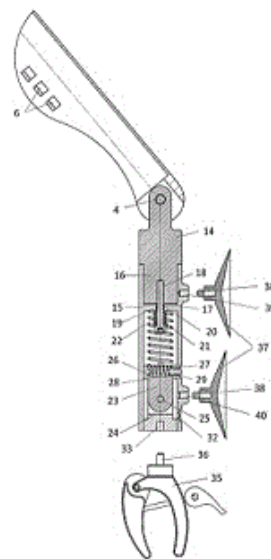
00: -
 The invention provides a ground surface deformation monitoring method and system based on multi-source monitoring data fusion. According to the invention, an ensemble Kalman filtering assimilation mode taking high-precision level settlement data as a main body is adopted; fusion of a radar image differential surface element settlement result of the mining subsidence area and discrete actual measurement level data is realized; high-precision monitoring of the mining area is realized; the high precision of the level inversion value in the center of the basin is maintained, and the D-InSAR differential data is fused, so that the superiority of the D-InSAR data in boundary monitoring is further retained; high-precision seamless subsidence monitoring of the whole mining area is realized, and the transitivity of the fused surface subsidence deformation data in space is more consistent with the actual mining area deformation area.



21: 2022/12753. 22: 2022/11/23. 43: 2022/12/14
 51: A45D
 71: ELENA IGOREVNA KAZANCEVA
 72: ELENA IGOREVNA KAZANCEVA

54: HAIRDRYER HOLDER
 00: -

The invention relates to the field of devices for holding hairdryers. The technical result is mobility and more reliable fastening of a hairdryer. A hairdryer holder comprises an elongate housing which has a U-shaped cross-section and is made of a resilient material; the flat lateral sides of the fastening end of the holder housing are provided with opposing holes for receiving a pivot pin for the holder housing, said pivot pin being detachably fastened from the outside of both lateral sides of the holder housing. One end of the holder housing pivot pin is threaded for connection with a locking screw designed for tightening or relaxing the lateral sides of the holder housing relative to one another. The holder housing is disposed on the holder housing pivot pin for rotation thereabout. Provided on the lateral sides of the opposite end of the holder housing are opposing holes for receiving the ends of a resilient band so that an opening is formed between the inside surface of the holder housing and the band for receiving the handle of a hairdryer. Fastened between the lateral sides of the holder housing on the pivot pin thereof is a stand that is rotatable about the holder housing pivot pin.



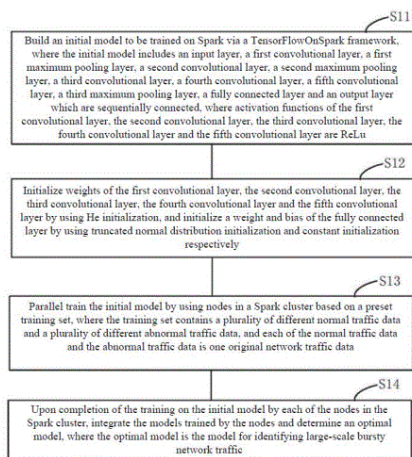
21: 2022/12781. 22: 2022/11/24. 43: 2023/01/24
 51: H04L
 71: Zhejiang University of Science and Technology

72: YUN, Bensheng, SUN, Yulu, FANG, Kebin, GAN, Xiaoya, GUO, Yuhan, QIAN, Yaguan, WU, Shuhui

54: MODEL AND METHOD FOR IDENTIFYING LARGE-SCALE BURSTY NETWORK TRAFFIC, AND TRAINING METHOD FOR MODEL

00: -

The present application provides a model and method for identifying large-scale bursty network traffic, and a training method for the model. The model is built on Spark via a TensorFlowOnSpark framework, and includes an input layer, a first convolutional layer, a first maximum pooling layer, a second convolutional layer, a second maximum pooling layer, a third convolutional layer, a fourth convolutional layer, a fifth convolutional layer, a third maximum pooling layer, a fully connected layer and an output layer which are sequentially connected.



21: 2022/12782. 22: 2022/11/24. 43: 2023/01/24
51: B66B

71: Anhui Technical College of Mechanical and Electrical Engineering

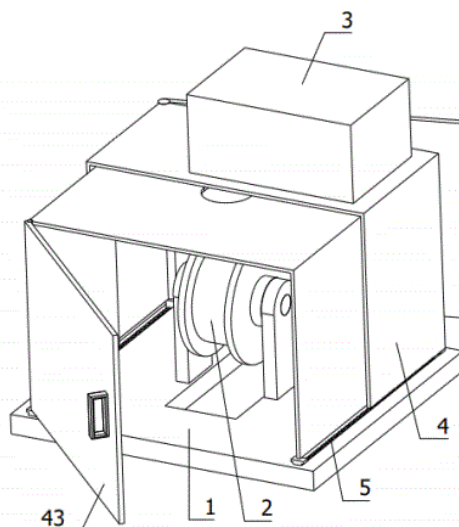
72: NI, Jinting, JIANG, Nenghui

54: PROTECTIVE COVER FOR ELEVATOR PULLEYS

00: -

The present invention provides a protective cover for elevator pulleys, including a base, a pulley mechanism, a dust collection mechanism, a protection mechanism and a moving mechanism, where the base is arranged horizontally, the moving mechanism is arranged at the top of the base, the protection mechanism is arranged onto the moving

mechanism, the pulley mechanism is arranged at the top of the base and located inside the protection mechanism, and the dust collection mechanism is arranged on the top of the protection mechanism. The present invention collects dust particles on the surface of elevator pulleys and ropes through a dust collection mechanism, it is thus unnecessary for the staff to remove the entire protective cover due to mutual cooperation between the moving mechanism and the protection mechanism, making the operation more convenient.



21: 2022/12784. 22: 2022/11/24. 43: 2023/01/24
51: C12G

71: Gansu Shangji Health Products Co., Ltd.

72: Gao yuhan, Ding shuying, Ji hang

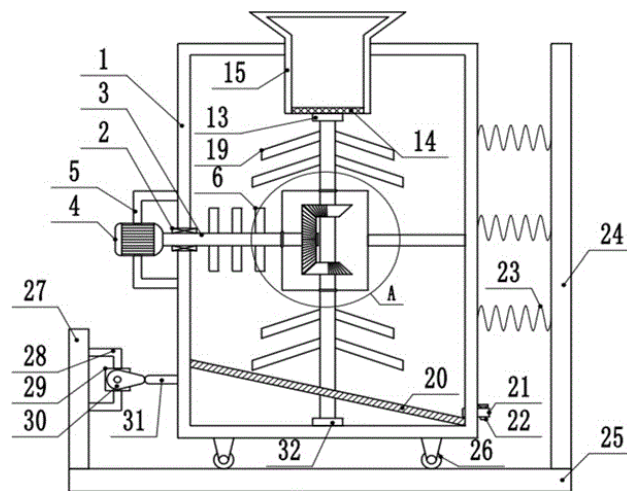
54: A KIND OF MULBERRY WINE AND ITS PRODUCTION METHOD

00: -

A kind of mulberry wine and its production method, is a fruit wine made from mulberry and grape fermentation together, its brewing method is: 1, take the specific gravity of 85-93% fresh mulberry, honey 4-7%, yeast 3-8% for a group. The mulberry is pounded into juice, put into honey and yeast and stir well, fermented for 5-10 days, kept at 30-35°C. 2. 60-70% specific gravity of fresh grapes, 4-8% of wolfberry, 2-6% of heshouwu, 2-5% of astragalus, 2-6% of liquorice, 0.3-0.5% of chrysalis, 10-15% of sugar and 3-8% of yeast. Mash fresh grapes into juice, pound He Shou Wu, Astragalus, Licorice and Chrysanthemum into powder respectively, add sugar and yeast, stir well, and close the fermentation for 10-15 days, maintaining a temperature of about

30°C. 3. Mix the fermentation solution of both evenly and age at a temperature of 18-25°C for 3 months, filter and clear the residue and put it into a high temperature environment of 80°C to sterilize. It is a kind of high nutrition fruit wine that combines the nutrition of mulberry and grape in one, with the efficacy of preventing vascular sclerosis, strengthening the spleen and stomach, helping digestion, supplementing nutrition, hair and beauty, preventing cancer and fighting cancer; the invention not only improves the nutritional value of fruit wine, and avoids the poor liquidity of mulberry fruit pulp, which brings difficulties to fermentation and even the danger of souring into vinegar, and makes rational use of resources; and the colour is beautiful, the aroma is rich, and the taste is rich It has a beautiful colour, rich aroma and a rich, smooth taste.

greatly improving the mixing effect of the waterproof coating, ensuring its mixing quality.



21: 2022/12785. 22: 2022/11/24. 43: 2023/01/24
51: B01F

71: Zhangye Zhicheng Architectural Decoration Engineering Co., Ltd.

72: Qiao xingde, Guo yugui, Huang haifeng

54: A MIXING AND STIRRING DEVICE FOR WATERPROOF COATINGS FOR BUILDING CONSTRUCTION

00: -

The present invention discloses a waterproof coating mixing and stirring device for building construction, relates to the field of building construction, including a mixing and stirring box, the left side of the mixing box is internally fixed connected with bearings, the bearing is connected horizontally and internally connected with a first rotating rod, the left end of the first rotary rod is installed with a first motor, the upper and lower surfaces of the upper and lower sides of the right side of the first rotating rod are fixed connected with a first mixing blade, the outer surface of the right end of the first rotary rod is fixed connected with bevel gears, and the upper and lower sides of the right end of the bevel gear are meshed and connected with incomplete bevel gears, The number of incomplete bevel gears is two, the tooth parts of the two incomplete bevel gears are staggered with each other, and the two incomplete bevel gears are internally fixed in the vertical direction with a second rotating rod. The present invention can fully mix the waterproof coating,

21: 2022/12786. 22: 2022/11/24. 43: 2023/01/24
51: C12G

71: Gansu Shangji Health Products Co., Ltd.

72: Liang xinran, Liang shunan, Kong li

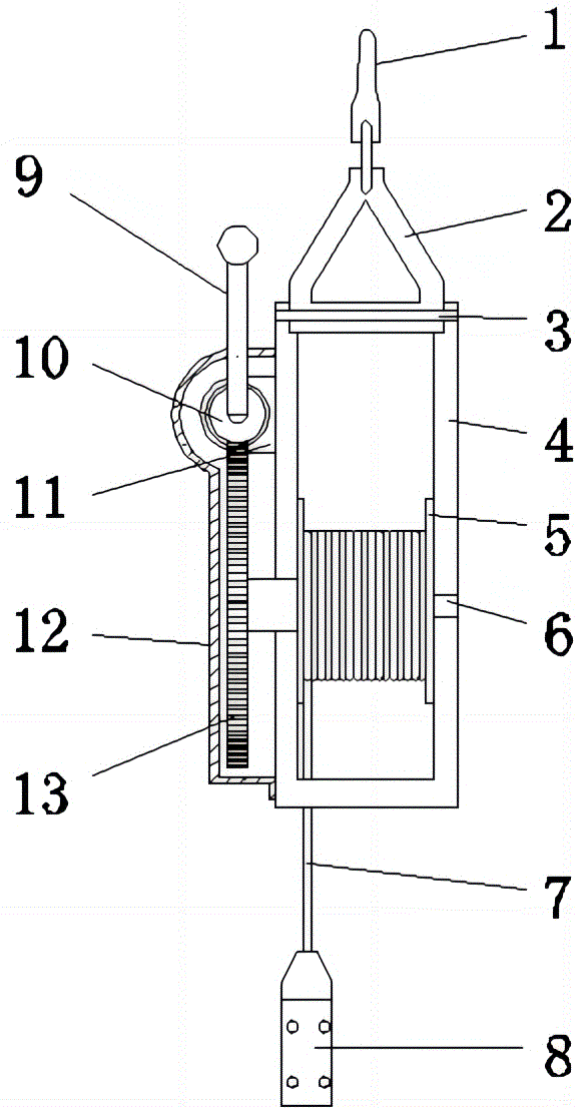
54: A QUINOA WINE AND ITS PREPARATION METHOD

00: -

The present invention discloses a quinoa wine and its preparation method, comprising quinoa, barley, peas, sorghum, and daguerreotype, said quinoa, barley, peas, sorghum, and daguerreotype being composed according to the following weight parts: 20- 30 parts of quinoa, 10-18 parts of barley, 10-18 parts of peas, 5-10 parts of sorghum, and 6-12 parts of daguerreotype. The preparation of quinoa wine includes the steps of cleaning, soaking, crushing and mixing, steaming, cooling, fermentation, filtering, and blending. The invention uses raw material brewing is relatively simple compared to clinker brewing, only need to crush the cleaned raw material, directly add water, add big bend and mix evenly sealed fermentation and distillation can be done, after fermentation is completed, using fast and high yield distillation equipment, you can get pure high quality white wine and high protein saccharine feed, make the wine effectively retain the nutrients and fragrance of quinoa, and operable, suitable for industrial production It is highly workable and suitable for industrial production.

21: 2022/12787. 22: 2022/11/24. 43: 2023/01/24
 51: H02G
 71: Anhui Lutai Electric Technology Co., Ltd, West Anhui University
 72: Zhang Lei, Lu Chengling, Zhang Yanxue
54: A LABOR-SAVING CABLE TIGHTENER
 00: -

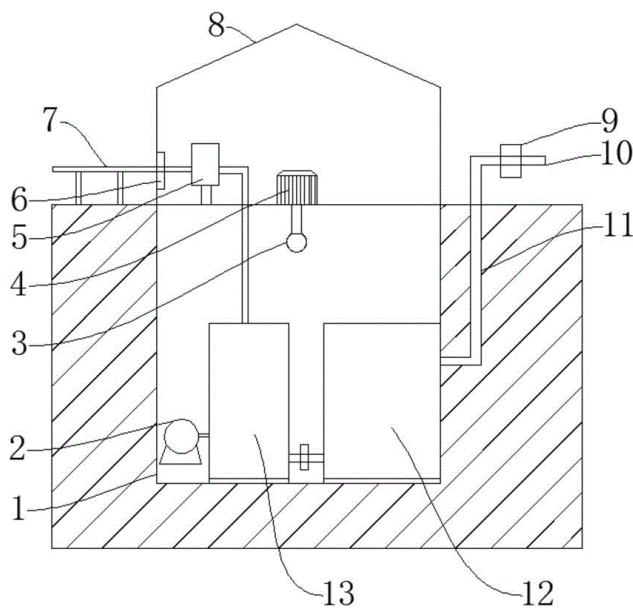
The invention discloses a labor-saving cable tightener, which comprises a rack, wherein the upper part of the rack is movably connected with a pull rod through a traction rotating shaft, the upper end of the pull rod is movably provided with a hook, the middle part of the rack is movably provided with a main shaft, the right part of the main shaft is fixedly connected with a winding disc, The left part of the main shaft is fixedly provided with a worm wheel through a positioning pin, the upper part of the worm wheel is movably connected with a worm, and the front part of the worm is fixedly provided with an operating handle. The invention has simple structure, is convenient and practical, is suitable for tensioning cables at different distances, has strong universality, and can conveniently and quickly realize wire tensioning; in high-altitude wire tensioning, an operator only needs to perform tensioning and connection work at high altitude, and the operation can be completed by one person; and the danger of high-altitude operation is reduced to a certain extent.



21: 2022/12788. 22: 2022/11/24. 43: 2023/01/24
 51: A01F
 71: Shandan Sanyang Agriculture and Animal Husbandry Development Co., Ltd.
 72: Gao zicheng, Tang tianyuan, Wu chunxian
54: A CELLAR FOR ENSILAGE
 00: -

The present invention discloses A cellar for ensilage, comprising a cellar body, a servo-inverter motor, a rain baffle and a second ensilage cell, said feed lifting pump installed above said cellar body, said feed grinder installed above said servo-inverter motor, said ensilage transport belt installed above said ensilage entry port, said said rain shield is attached above said ensilage transport belt, said rain shield is fitted with a flow control valve below said

flow control valve, said flow control valve is fitted with an ensilage outlet below said ensilage outlet, said feed transport pipe is connected below said feed transport pipe, said feed transport pipe is fitted with a second ensilage tank below said second ensilage tank, said second ensilage tank is fitted with a said first ensilage pond, said first ensilage pond is fitted with a moisture-proof bottom plate, said servo-inverter motor is fitted with a motor noise reducer. The beneficial effect is that the cellar is well sealed, the amount of ensilage stored is large, it is easy to use and the problem of water accumulation in the cellar during the rainy season is effectively solved.



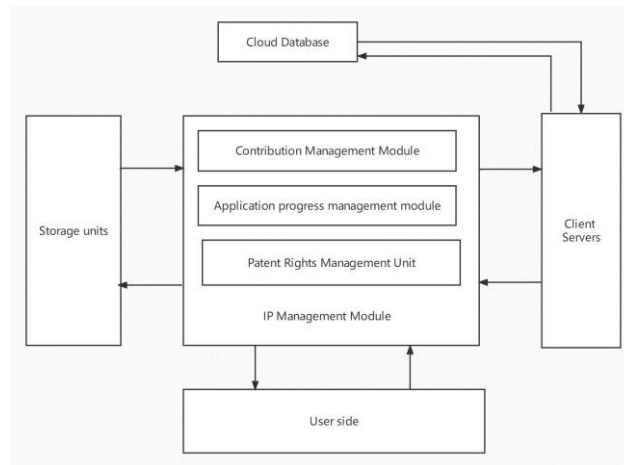
21: 2022/12789. 22: 2022/11/24. 43: 2023/01/24
51: G06F

71: Gansu Aoyu Technology Service Co., Ltd.
72: Qiao xingde, He xia, Feng zhiping

54: A CLOUD DATABASE BASED IP MANAGEMENT SYSTEM

00: -
The present invention discloses an intellectual property management system based on a cloud database, which belongs to the field of intellectual property technology and comprises: a cloud database, an intellectual property management unit, a client server, a storage unit and a user side; said intellectual property management unit comprises: a fee management unit, an application progress management unit and a patent right management unit; said cloud database and said intellectual

property management unit are respectively connected to said cloud database and said IP management unit are respectively connected to said client server, said storage unit and said user side are respectively connected to the IP management unit; beneficial effect of the present invention: simple operation, management of IP-related information through the cloud database, convenient for the user side to keep abreast of IP-related processes and make timely emergency handling.



21: 2022/12790. 22: 2022/11/24. 43: 2023/01/24
51: G01K

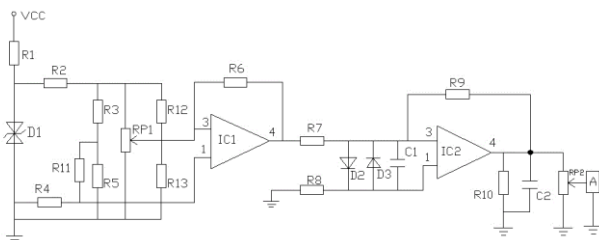
71: West Anhui University, Lu'an Jianghuai Motor Co., Ltd

72: Lu Chengling, Xu Yubao, Zhang Gang, Liu Ziqing

54: CIRCUIT FOR TESTE TEMPERATURES

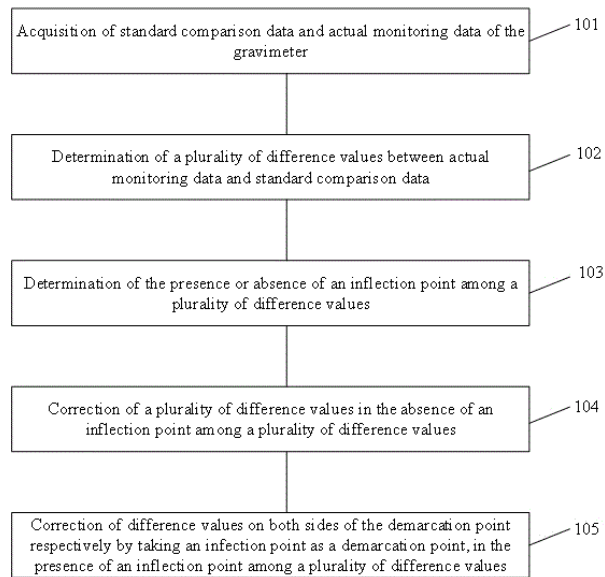
00: -
The invention discloses a temperature test circuit which comprises a resistor R1, a resistor R2, a transient voltage suppression diode D1 and a chip IC1, wherein one end of the resistor R1 is connected with a power supply VCC, and the other end of the resistor R1 is connected with the resistor R2 and the transient voltage suppression diode D1; The other end of the TVS diode D1 is connected to the resistor R4, the resistor R5, the resistor R13, and one fixed end of the potentiometer RP1, and is grounded. The other end of the resistor R2 is connected to the resistor R3, a resistor R12, and the other fixed end of a potentiometer RP1. The temperature test circuit provided by the invention uses the simple and low-cost resistors to form the unbalanced bridge as the temperature test module, so that the manufacturing cost is greatly reduced; moreover, the peak pulse in

the power supply is suppressed by using the working characteristics of the transient voltage suppressor, so that the influence of the power supply on the measurement result is reduced; and therefore, the temperature test circuit has the advantages of simple structure, low manufacturing cost and accurate measurement.



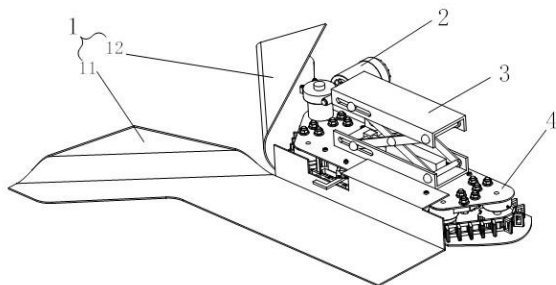
21: 2022/12791. 22: 2022/11/24. 43: 2023/01/24
 51: G01V
 71: Beihai Offshore Engineering Survey Institute, SOA, Zhang Wang
 72: Zhang Wang, Shi Xiaowei, Bu Ruyuan, Wang Hongchao, Cao Kai xiang, Liu Yaming
 33: CN 31: 202211305944.0 32: 2022-10-24
54: A GRAVIMETER ZERO-DRIFT CORRECTION METHOD, APPARATUS AND ELECTRONIC DEVICE

00: -
 The present application discloses a gravimeter zero-drift correction method, apparatus and electronic device, which belongs to the field of gravimeter correction. The gravimeter zero-drift correction method includes: acquiring standard comparison data and actual monitoring data of the gravimeter; determining a plurality of difference values between the actual monitoring data and the standard comparison data; determining the presence or absence of an inflection point among a plurality of difference values; correcting a plurality of difference values in the absence of inflection point among a plurality of difference values; correcting difference values on both sides of a demarcation point respectively by taking an inflection point as a demarcation point, in the presence of an inflection point among a plurality of difference values.



21: 2022/12820. 22: 2022/11/25. 43: 2023/02/08
 51: A01G
 71: NORTHWEST A&F UNIVERSITY, SHAANXI BRANCH OF CHINA NATIONAL TOBACCO CORPORATION
 72: LI, Wei, LI, Longfei, HE, Xin, XIAO, Yumeng, DU, Xinghua, JIAO, Taowei
54: SCRAPER TYPE TOBACCO TOPPING DEVICE

00: -
 Disclosed is a scraper type tobacco topping device, comprising a guide vane plate, a motor, a lifting module, an execution module. The execution module comprises a supporting plate, a cutter module and a rotating module which is fixed below the supporting plate; the motor drives the cutter modules and rotating module which includes scrapers; when in rotation, a notch rectangular plate of each scraper and a left guide vane plate form a supporting and pushing region; the cutter is matched with the rotating module to perform topping operation for tobaccos in a supporting and pushing region. The device is suitable for automatic topping operation for the tobaccos. By supporting and pushing, the deformation of tobacco plants is limited, and the topping operation is performed orderly, so as to facilitate precise spraying operation for a bud inhibitor; a separation path of tobacco flowers after being topped is clear, thereby facilitating collection.



21: 2022/12884. 22: 2022/11/28. 43: 2023/01/30
51: F01N

71: Zhengzhou University of Industrial Technology,
Zheng Zhou Research Institute of Mechanical
Engineering CO.,LTD.

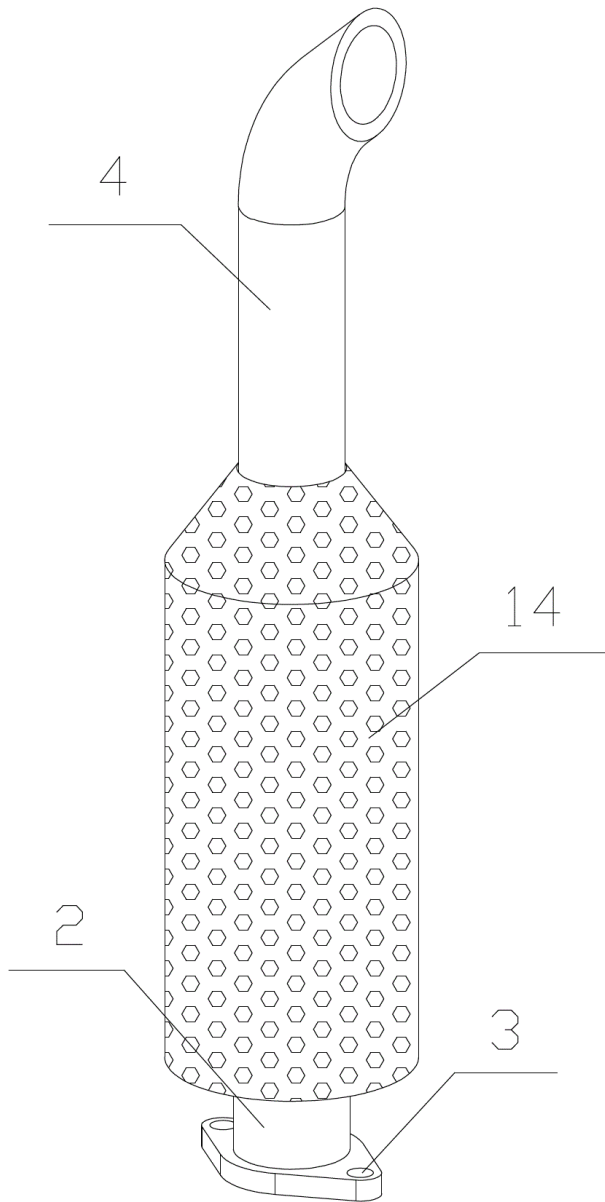
72: Hongen,Niu, Cuicui,Wei, Guohu,Wang,
Shidang,Yan

33: CN 31: 202211357151.3 32: 2022-11-01

54: A TRACTOR MUFFLER

00: -

Disclosed in the present invention is a tractor muffler, comprising a mounting pipe mounted at a smoke exhaust port of a tractor, wherein a smoke guide pipe and a noise elimination pipe are configured in the mounting pipe, the axes of the mounting pipe, the smoke guide pipe and the noise elimination pipe coincide, and the smoke guide pipe and the noise elimination pipe are successively arranged along the movement direction of the smoke, an outlet end of the smoke guide pipe extends into an inlet end of the noise elimination pipe, and a noise elimination member is configured in the noise elimination pipe, and the outlet end of the noise elimination pipe is connected to the smoke exhaust pipe. The present invention improves the sound attenuation effect without affecting the smoke evacuation effect. The present invention is applicable to the field of tractor mufflers.



21: 2022/12885. 22: 2022/11/28. 43: 2023/01/30
51: A61K

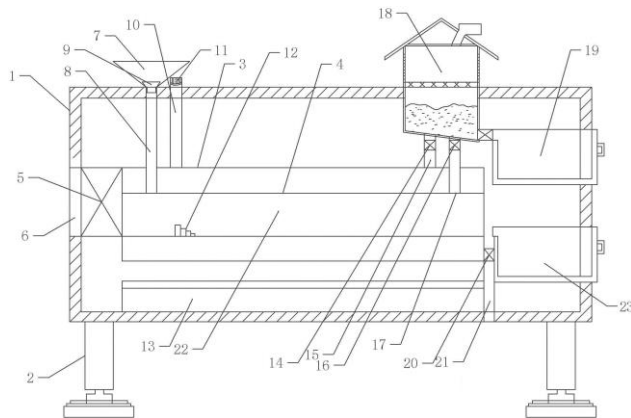
71: Inner Mongolia Minzu University
72: WU Lan, E Erdunduleng, LI Huifang, LI Xin

54: MONGOLIAN MEDICINE MERCURY PROCESSING DEVICE

00: -

The invention discloses a Mongolian medicine mercury processing device, which comprises a box body, a processing mechanism is fixedly arranged in the box body, one end of the processing mechanism is provided with a pressurizing part, the pressurizing part is communicated with the outside, the other end of the processing mechanism is communicated with

a finished product collection chamber, and the top of one end of the processing mechanism provided with the pressurizing part is communicated with a charging part, the top of one end of the processing mechanism communicating with the finished product collection chamber is communicated with a recycling tank, the bottom of the side wall of the recycling tank is communicated with a collecting box, the bottom wall of the box body is provided with a heater, the side wall of the box body is provided with an observation part and a display controller, and the pressurizing part is electrically connected with the display controller. The device of the invention has simple structure and high efficiency, and does not harm people or pollute the environment.

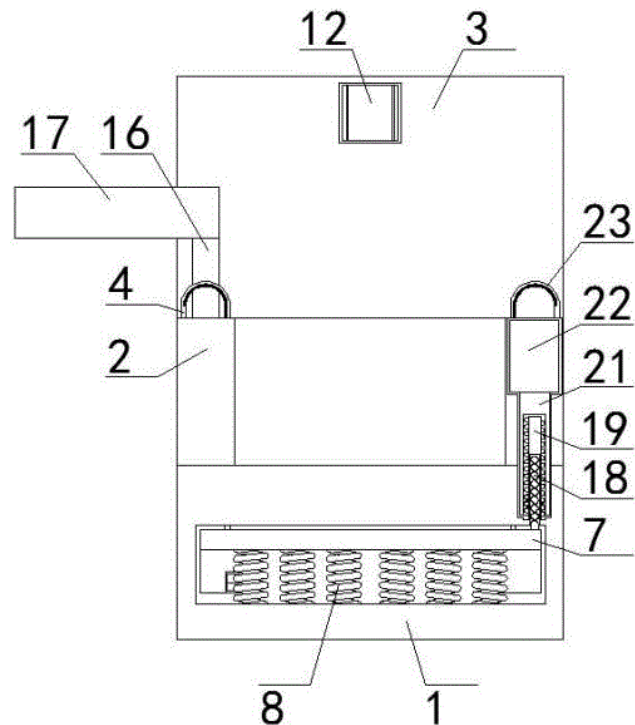


21: 2022/12889. 22: 2022/11/28. 43: 2023/02/02
51: A61B

71: Anhui Science and Technology University
72: CHENG Bin, CAI Weiqing
33: CN 31: 2021114511229 32: 2021-12-01
54: PSYCHOLOGICAL QUALITY EVALUATION DEVICE FOR INNOVATION AND ENTREPRENEURSHIP EDUCATION CAPABLE OF QUICKLY FITTING WRIST DETECTION

00: -
Disclosed is a psychological quality evaluation device for innovation and entrepreneurship education capable of quickly fitting wrist detection, including: a base, wherein the base is a main riding structure of the evaluation device, and a top of the base is fixedly provided with armrests; the armrests are symmetrically distributed along a longitudinal center line of the base; a backrest, wherein the backrest is fixedly arranged on a top surface of the base; and a binding pressure belt, wherein one end of the binding pressure belt is fixedly arranged on a top surface of each armrest, and an electronic heart

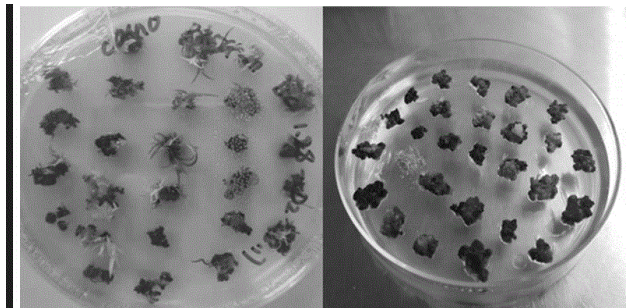
rate meter is fixedly arranged on an inner surface of the binding pressure belt. In the psychological quality evaluation device for innovation and entrepreneurship education capable of quickly fitting wrist detection, when the tester is stepping on the pedal, the pedal pulls the return spring through the supporting block, so that the return spring pulls the binding pressure belt to quickly fit the wrist, and the electronic heart rate meter detects the heart rate. Meanwhile, through the elastic force of the return spring, the binding pressure belt is not tied too tightly after fitting the wrist, and the return spring is continuously stretched, expanded and charged for buffering, so that the device is not only fit quickly, but also prevents the binding from being too tight.



21: 2022/12890. 22: 2022/11/28. 43: 2023/01/30
51: A01G; A01H; C12N

71: FUJIAN AGRICULTURE AND FORESTRY UNIVERSITY, SUGARCANE RESEARCH INSTITUTE, YUNNAN ACADEMY OF AGRICULTURAL SCIENCES
72: LI, Chunjia, CHEN, Rukai, LIU, Xinlong, LI, Xujuan, TIAN, Chunyan, HU, Xin, WU, Zhuandi, QIN, Wei
54: IMPROVED AGROBACTERIUM TUMEFACIENS- MEDIATED GENETIC TRANSFORMATION METHOD OF SUGARCANE CALLI

00: - Disclosed is an improved *Agrobacterium tumefaciens*-mediated genetic transformation method of sugarcane calli, and relates to the technical field of tissue culture. The application greatly increases the occurrence frequency of transgenic events by enhancing the inoculation and activity of Vir gene of *Agrobacterium tumefaciens* and the bacterial suspension inoculation strength of sugarcane calli; in the subsequent cultures, an antioxidant is added to inhibit callus browning caused by enhanced *Agrobacterium* inoculation. The antioxidant obviously improves the survival and differentiation of the calli after inoculation. In the transgenic event selection stage, EGFP markers are used for a visualized selection for transgenic calli, and Bar marker resistance is used to select transgenic differentiated shoots. The dual selection improves the accuracy of transgenic event selection. Using the method of the present application, the efficiency of *Agrobacterium tumefaciens*-mediated genetic transformation of sugarcane callus reaches up to 14 percent or more, much higher than the conventional 2-5 percent.



21: 2022/12893. 22: 2022/11/28. 43: 2023/01/30
51: A61L

71: North China University of Science and Technology

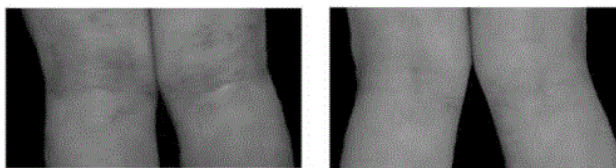
72: Dayong Zheng, Lixun Lv, Chunteng Zhang, Tongtong Zhang, Han Yan, Jiaxuan Bai, Menghui Hou

33: CN 31: 202111527687.0 32: 2021-12-14

54: MEDICAL LIQUID DRESSING AND PREPARATION METHOD AND APPLICATION THEREOF

00: - The invention belongs to the medical technical field, and relates to a medical liquid dressing and its preparation method and application, in particular to a medical liquid dressing containing linoleic acid,

linolenic acid and part of amino acids and its application in preparing a medical dressing for repairing the skin injury caused by infantile eczema. The liquid dressing of the invention is a liquid dressing with polymeric fatty acids and amino acids as the main components. The polymer fatty acid is oleic acid, linoleic acid, linolenic acid, docosahexaenoic acid of two or more kinds; The amino acid is glycine, proline, lysine, leucine, alanine, arginine, hydroxyproline, hydroxylysine several; The mass ratio of polymer fatty acid to amino acid was 0.6-1.2:1, the mass ratio of linoleic acid to linolenic acid is 1.5-2.0:1. The medical liquid dressing of the invention is used for the treatment and nursing of skin damage caused by dermatitis, eczema and ulcers, especially the skin damage caused by infant eczema.



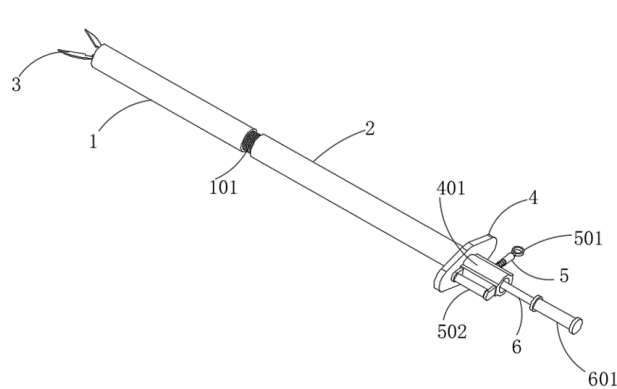
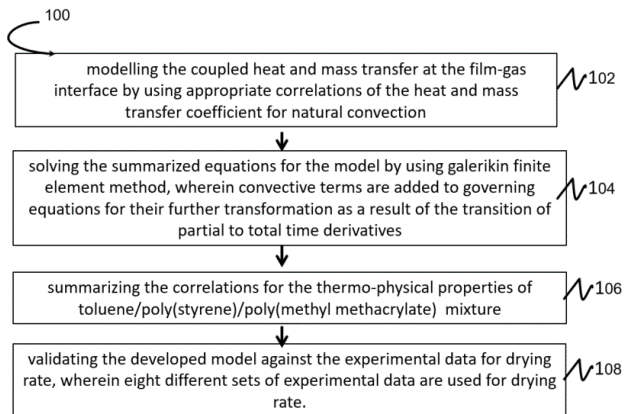
21: 2022/12894. 22: 2022/11/28. 43: 2023/01/30
51: G06N

71: Dr. Raj Kumar Arya, Dr. George D. Verros

72: Dr. Raj Kumar Arya, Dr. George D. Verros

54: A METHOD FOR PERFORMING MATHEMATICAL MODELING AND VALIDATION OF POLYMER-POLYMER-SOLVENT COATING

00: - The present disclosure relates to a method for performing mathematical modeling and validation of polymer-polymer-solvent coating. In the present disclosure, a method is proposed for performing mathematical modelling and validation of the system toluene/PS/PMMA. The models equations are summarized and then the proposed model is validated against experimental data for drying rate, wherein eight different sets of experimental data for drying rate are employed. While mathematical modelling, it is assumed that it is possible to successfully mimic the toluene evaporation from its binary cast film with poly(styrene), cast on steel support, as a one-dimensional, simultaneous heat and mass problem with a moving boundary.



21: 2022/12896. 22: 2022/11/28. 43: 2023/01/13
51: A61B

71: SUINING CENTRAL HOSPITAL
72: YANG, Li, YANG, Ling, HU, Haiyang, LI, Donglin, YU, Li, LIU, Tao, ZHOU, Haining, TANG, Shoujun, TANG, Shengjie

54: PERCUTANEOUS LUNG PUNCTURE FORCEPS CLIP BIOPSY DEVICE

00: -
The present invention discloses a percutaneous lung puncture forceps clip biopsy device, which relates to a technical field of medical devices, comprising a first puncture barrel and a second puncture barrel, the first puncture barrel is detachably and fixedly connected to the second puncture barrel, an end part of the first puncture barrel is provided with clip forceps in relative rotation; a puncture tube is insertedly provided in the first puncture barrel and the second puncture barrel, the puncture tube adjusts an angle through the driving mechanism driving the clip forceps on both sides; wherein, an end part of the second puncture barrel is provided with a positioning plate, one side of the positioning plate away from the second puncture barrel is provided with a positioning barrel, the wall of the positioning barrel is pluggedly provided with a positioning rod, the positioning rod is provided with a return spring, which adjusting the angle of the clip forceps on both sides through the driving mechanism, and a pull ring is loosened after the adjustment, and driven by an elastic force of the return spring, a support rod drives the positioning rod to plug into positioning holes of the puncture tube to achieve positioning and fixation of the puncture tube, so that medical staff do not need to keep the state all the time, and operation is easier and more convenient.

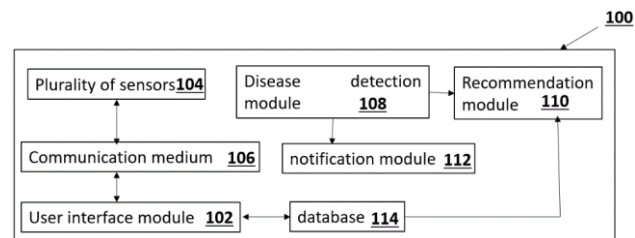
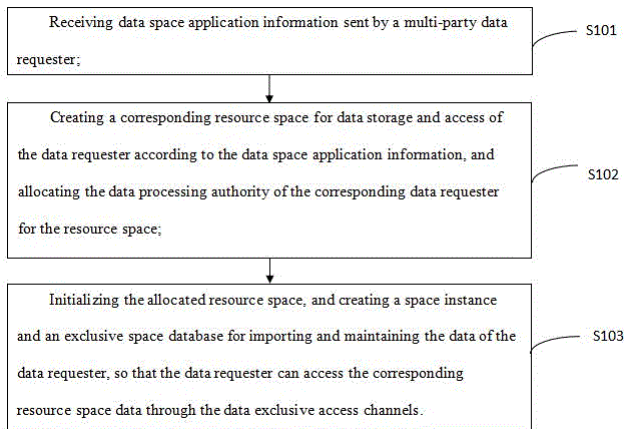
21: 2022/12897. 22: 2022/11/28. 43: 2023/01/30
51: G06F

71: Shanghai Fenge Information Technology Co., Ltd, Zhengzhou Sanyou Software Technology Co., Ltd

72: Ji ZheYang, Xing Yan, Wu Yi, Wang HaoXue, Wang Zhaoshen, Ma XiaoYu

54: METHOD AND SYSTEM FOR REALIZING SAFE OPERATION SPACE OF BIG DATA FOR DATA SHARING SERVICE

00: -
The invention belongs to the technical field of data sharing security, and in particular relates to a method and a system for realizing the safe operation space of big data oriented to data sharing services. Accord to that data space application information, a corresponding resource space for data storage and access of the data requester is create and allocated, and the data processing authority of the corresponding data requester is allocated for the resource space; Initialize the allocated resource space, and create a space instance and an exclusive space database for importing and maintaining the data of the data requester, so that the data requester can access the corresponding resource space data through their respective data exclusive access channels. According to the invention, resource flow direction can be controlled, data value mining, safe use and flow direction can be realized, and data monitoring in data sharing, use and other links can be realized while ensuring the normal isolation of each user's data, so that data use safety can be improved, and the invention has good application value.



21: 2022/12898. 22: 2022/11/28. 43: 2023/01/30
51: A61F

71: Mansi Kishor Tikhile, Payal Rajkumar Ghanmode, Akhilesh Mahadev Deshmukh, Gaurav Dnyaneshwar Ate, Rahul Somalwar, Ruikar Jayesh Deoaro, Shreyash Satish Astonkar

72: Rahul Somalwar, Ruikar Jayesh Deoaro, Mansi Kishor Tikhile, Payal Rajkumar Ghanmode, Akhilesh Mahadev Deshmukh, Gaurav Dnyaneshwar Ate, Shreyash Satish Astonkar

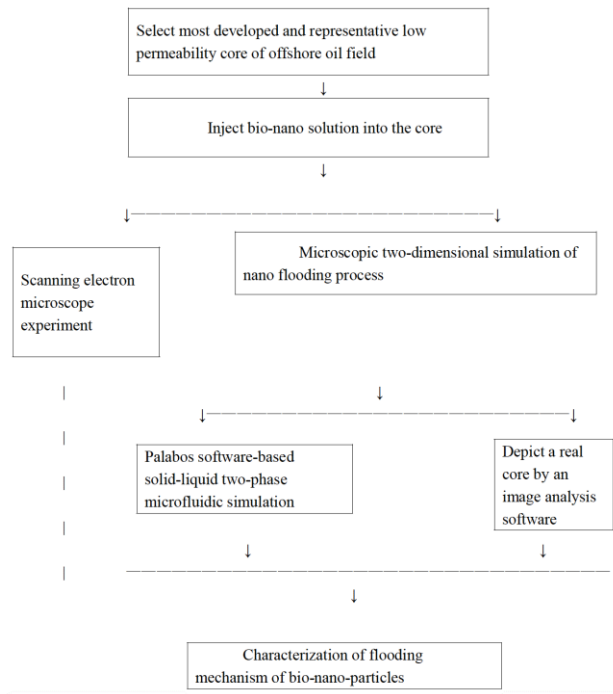
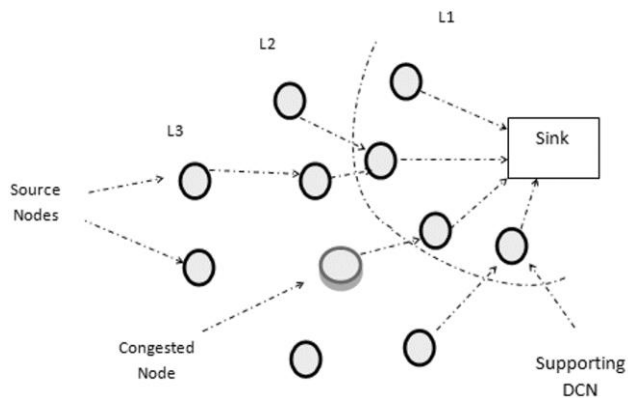
54: A WEARABLE DEVICE TO MONITOR HUMAN HEALTH CONDITION AND RECOMMEND REMEDIES FOR IMPROVING UNHEALTHY CONDITION

00: -
A wearable device (100) to monitor human health condition and recommend remedies for improving unhealthy condition, comprises of: a user interface module (102) for acquiring a plurality of input credentials from a user to successfully register the user; a plurality of sensors (104) to measure a plurality of physiological parameters upon successful registration for monitoring human health condition; a disease detection module (108) for detecting a disease based on the measured plurality of parameters to determine a real-time health condition of the user, wherein at least a health condition is detected if any of the plurality of physiological parameter deviates from a predefined threshold value; and a recommendation module (110) for recommending yoga asanas and diet based on the detected health condition of the user.

21: 2022/12899. 22: 2022/11/28. 43: 2023/01/30
51: H04W

71: WAGHOLE, Dattatray, AJALKAR, Deepika Amol, CHAUDHARI, Archana Kedar, PULUJKAR, Mosami Pradip, DESHPANDE, Vivek, JADHAV, Makarand
72: WAGHOLE, Dattatray, AJALKAR, Deepika Amol, CHAUDHARI, Archana Kedar, PULUJKAR, Mosami Pradip, DESHPANDE, Vivek, JADHAV, Makarand
54: SYSTEM FOR CONGESTION CONTROL USING CONGESTION LOCATION INDICATOR AND SUPPORTING DATA COLLECTOR NODES IN WSN'S USING ML

00: -
The present invention relates to a data collection system for wireless sensor networks. The goal of this research is to improve the Quality of Services (QoS) in wireless sensor networks by using a congestion location indicator to reduce the possibility of node level congestion by sensor nodes. The nodes in the network are distributed at random. One sink node collects data from the source node. Level one node will function similarly to a Supporting Data Collector Node (SDCN). To transmit data packets to the destination node, common nodes are deployed at random. As a result, each node will detect the current buffer usage status and determine whether or not the buffer is full for congestion detection. Congestion location indicator (CLI) will be used by congested node to send node index or id to SDCN nodes for fast data collection from congested node. This technique will aid in the achievement of network QoS parameters such as packet delivery ratio, loss ratio, throughput, reliability, delay, and energy efficiency. This paper demonstrates the best technique for data dissemination in wireless sensor networks in order to achieve maximum QoS. For effective network QoS enhancement, we will use existing machine learning techniques such as regression. This has the potential to improve network performance.



21: 2022/12943. 22: 2022/11/29. 43: 2023/01/30
51: B01D

71: China Oilfield Services Limited
72: FENG, Qing, LI, Shengsheng, LI, Xiaonan, GONG, Ruxiang, SUN, Yanni, ZHANG, Fan, SHE, Yuehui

54: TWO-DIMENSIONAL SIMULATION METHOD OF BIO-NANO FLOODING PROCESS IN MICROCHANNEL OF LOW PERMEABILITY RESERVOIR

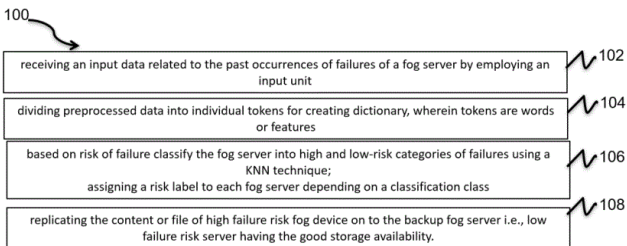
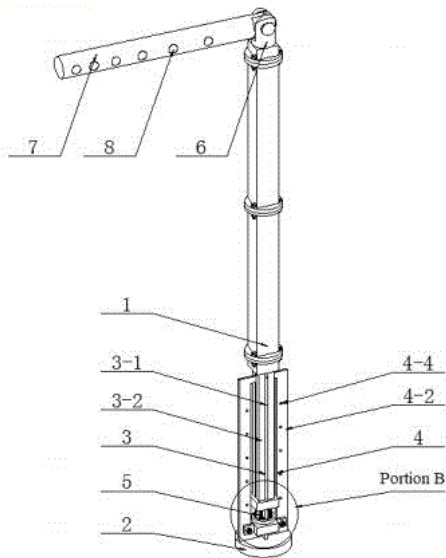
00: -
A two-dimensional simulation method of a bio-nano flooding process in a microchannel of a low permeability reservoir is provided, the method comprising the steps of: injecting a bio-nano solution into a selected low permeability core of an offshore oil field; and observing a pore throat structure of a core section and distribution features of bio-nano-particles in rock.

21: 2022/12944. 22: 2022/11/29. 43: 2023/01/30
51: A01G

71: Zhejiang Academy of Agricultural Sciences
72: WEI, Lingzhu, WU, Jiang, CHENG, Jianhui, ZHENG, Ting, XIANG, Jiang

54: COMBINED GRAPE TRELLIS APPLICABLE TO MULTIPLE ENVIRONMENTS

00: -
Provided is a combined grape trellis applicable to multiple environments. Several supporting rods and wing plates are arranged, a base is arranged below the supporting rods, and a supporting assembly is arranged on the base; and a lifting assembly is arranged on the supporting assembly, and a fine adjustment assembly is arranged on the lifting assembly. According to the combined grape trellis, an existing lead screw type lifting structure is reserved, but a stroke of the lead screw structure is shortened, moreover, a liftable moving structure is additionally arranged, and supporting rod structures capable of being spliced in series are additionally arranged, such that the grape trellis becomes a three-section adjustable structure, thereby achieving adjustment of the grape trellis by setting the number of the supporting rods, performing rough positioning by means of the positioning holes and performing fine adjustment by means of the lead screw structure.



21: 2022/12954. 22: 2022/11/29. 43: 2023/01/30
51: H04L

71: Dr. Priti Kumari, Prof. (Dr.) Vandana Dubey
72: Prof. (Dr.) Vandana Dubey, Dr. Priti Kumari

54: A METHOD FOR FAULT TOLERANCE IN FOG COMPUTING NETWORK USING CLASSIFICATION AND REPLICATION

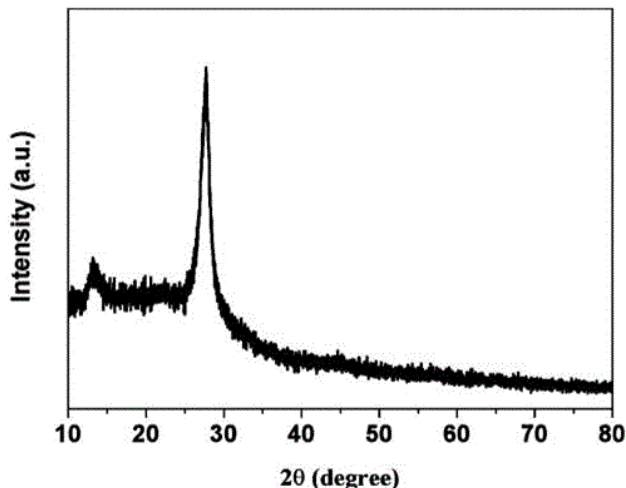
00: -
The present invention generally relates to a method for fault tolerance in fog computing network using classification and replication. The method comprises receiving an input data related to the past occurrences of failures of a fog server by employing an input unit; extracting a set of features regarding a fog server's failure via a feature extraction unit; classifying a device based on risk of failure using a KNN technique to classify the fog server into high and low-risk categories of failures; assigning a risk label to each server depending on a classification class; and replicating the content or file of high failure risk fog device on to the backup fog device including low failure risk fog device having the good storage availability upon applying a replication fault tolerance method.

21: 2022/12956. 22: 2022/11/29. 43: 2023/01/30
51: H01L

71: China Three Gorges University
72: Xiaowei Lv, Xiaohua Sun, Niu Huang, Panpan Sun, Doudou Zhang

54: PREPARATION METHOD OF GRAPHITIC CARBON NITRIDE THIN FILM ELECTRODE

00: -
The invention provides a preparation method for a graphitic carbon nitride thin film electrode. The preparation method comprises the steps of mixing and uniformly grinding melamine, dicyandiamide or cyanamide raw material and cyanuric acid as a precursor, and uniformly laying the precursor at the bottom of a thermal-resistant carrier; Then, directly laying a substrate on the precursor, and wrapping the thermal-resistant carrier with a material such as tin paper, and placing the thermal-resistant carrier in a heating device; and rising a temperature of the heating device to 500-600 degree under the protection of atmosphere, and cooling to a room temperature after maintaining for 10 minutes to 5 hours, thereby obtaining the graphitic carbon nitride thin film electrode. The graphitic carbon nitride thin film prepared by the method has the advantages of good uniformity, good repeatability, thickness controllability and the like.



21: 2022/12993. 22: 2022/11/30. 43: 2023/01/30
51: E04H

71: GUIZHOU UNIVERSITY, GUIZHOU
EXTENSION STATION OF GRASSLAND
TECHNOLOGY, GUIZHOU VOCATIONAL
COLLEGE OF AGRICULTURE

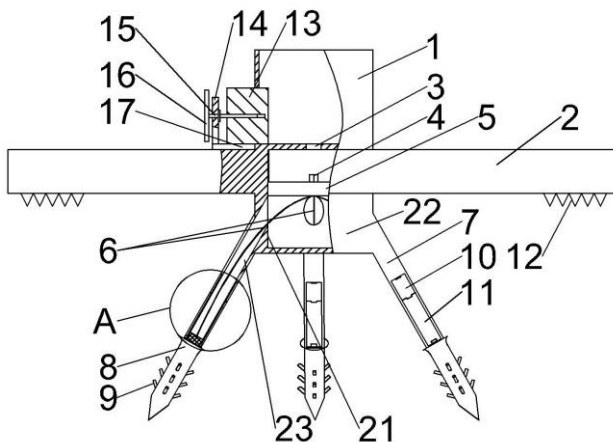
72: YANG, Xuedong, LI, Li, LUO, Bin, DAI,
Xinghong, WANG, Shunying, LIU, Jiming, CHEN,
Xiuhua, SU, Shaoyuan, WANG, Puchang, WANG,
Zhiwei

54: FENCE PILE PRE-EMBEDDER

00: -

The invention belongs to the field of fence fixing devices, and provides a fence pile pre-embedder, which comprises a supporting plate; the top of the supporting plate is provided with a pile clamping part; the bottom of the supporting plate is provided with an embedded fastening unit; the bottom of the column clamping part is provided with a through hole; a driving assembly is detachably connected in the pile clamping part; the driving component passes through the via hole and is correspondingly arranged with the embedded fastening unit; the embedded fastening unit comprises a connecting cylinder; the top of the connecting cylinder is fixedly connected with the bottom of the supporting plate; the side wall of the connecting cylinder is fixedly connected with one end of the trunk leg at equal intervals; a plurality of support legs are obliquely arranged below the supporting plate; the lower ends of the legs are respectively provided with ground grasping parts; outer supporting parts are arranged between a plurality of supporting legs and the connecting cylinder; the outer supporting part is correspondingly arranged with the driving assembly through the

through hole. The invention can provide a good reinforcement effect for fence piles in environments with weak soil strength such as wetlands or shallow soil areas, and ensure the smooth construction of fences.



21: 2022/12996. 22: 2022/11/30. 43: 2023/01/24
51: B01D

71: Xianbo HU

72: Xianbo HU

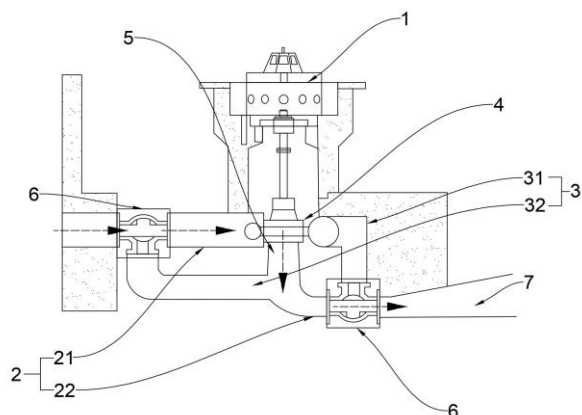
33: CN 31: 202211044739.3 32: 2022-08-23

54: PUMPED STORAGE UNIT

00: -

The invention discloses a pumped storage unit, comprising a unit, a water discharge and power generation channel, and a pumped storage channel. In the invention, under the working conditions of water pumping and power generation, the flow direction of the working medium in the common section and the pump turbine remains unchanged, and the direction of rotation of the turbine remains unchanged. Therefore, there is no need for frequency conversion starting device SFC or starting water turbine, and there is no need for high-current reversing switch and current-carrying equipment outside the motor, which reduces investment and operation costs and reduces the amount of operation. The invention does not need air inflation and drainage and water injection to create pressure when switching working conditions, and the unit has no vibration, blade cavitation, pipeline water hammer and other problems, which can effectively reduce the equipment failure rate and improve equipment safety and life. In addition, the invention can also maintain high-efficiency streamlines, reduce hydraulic loss,

slow down the wear rate of the blade surface and prolong the service life of the blades.

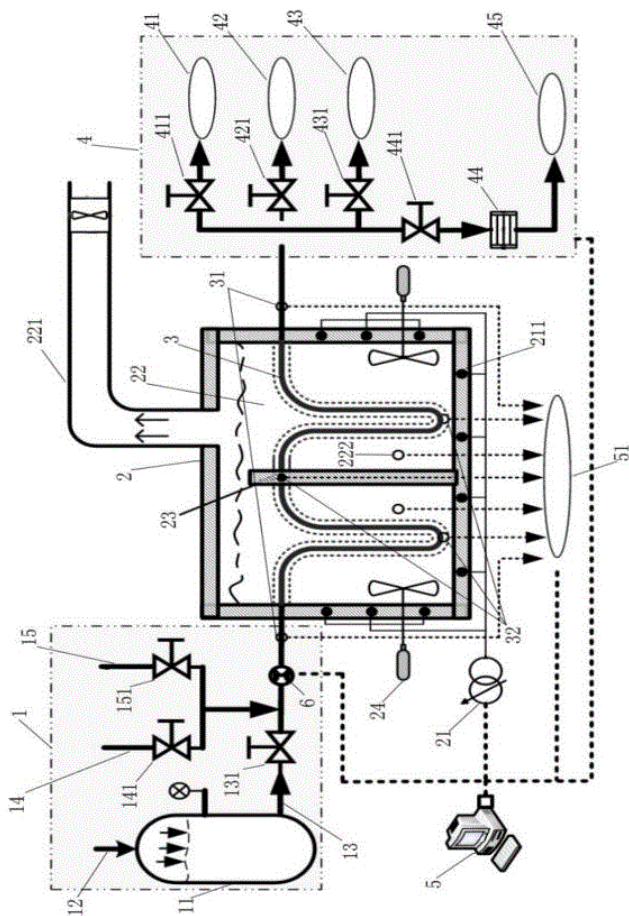


21: 2022/12997. 22: 2022/11/30. 43: 2023/01/30
 51: C07H
 71: HEZHOU UNIVERSITY
 72: KANG, Chao, LIU, Fengting
54: METHOD FOR EXTRACTING AND PURIFYING MANGIFERIN FROM MANGO KERNEL

00: -
 The invention discloses a method for extracting and purifying mangiferin from mango kernel, belonging to the field of food technology and biotechnology. The method comprises the following steps: firstly, drying and crushing mango kernels to obtain mango kernel powder, then extracting with methanol to obtain extract, concentrating or further drying the extract to obtain extract A, dissolving the extract A with water or ethanol to remove insoluble substances, adsorbing with macroporous adsorption resin, and eluting with 40-70% ethanol solution by volume to obtain eluent containing mangiferin; the eluent is concentrated under reduced pressure or further vacuum freeze-dried to obtain extract B, which is dissolved in water or ethanol to remove insoluble substances, and then subjected to silica gel column chromatography to obtain fractions containing mangiferin, and then subjected to solvent removal, concentration or further drying to obtain mangiferin extract containing mangiferin. The mango kernel mangiferin extract of the invention has remarkable antibacterial, antioxidant, anti-inflammatory and other effects, and can be further researched and developed as antibacterial or antioxidant active products.

21: 2022/12998. 22: 2022/11/30. 43: 2023/01/24
 51: C10G; G01N
 71: Hunan Institute Of Traffic Engineering
 72: Wenxiong XI, Sha PAN, Xincal LI, Zhijian LUO
54: SALT-BATH KEROSENE HEATING AND CRACKING SIMULATION TEST METHOD

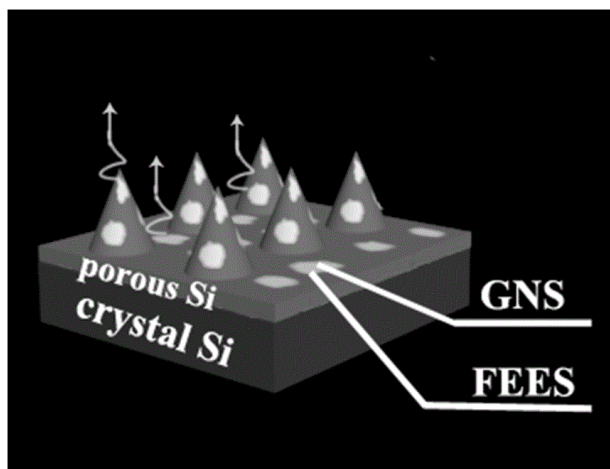
00: -
 The present invention discloses a salt-bath paraffin heating and cracking simulation test method, comprising the following steps: (1) opening the vacuum valve of the vacuum pump set of the heated paraffin treatment system, and evacuating the residual air in the pipeline; (2) after the air is evacuated, turning on the adjustable power supply heating system to preheat and melt the molten salt in the salt bath; (3) after the temperature in the salt bath is stabilized, opening the paraffin valve of the paraffin storage tank of the cold paraffin supply system to continuously inject paraffin into the kerosene heat exchange channel test piece; (4) after the paraffin in the paraffin heat exchange channel test piece is stabilized and flows, forming a high temperature flow reactor, the paraffin in the kerosene heat exchange channel test piece for heat exchange and cracking reaction; (5) In the above process the data acquisition and control terminal is used to collect flow data, temperature data, pressure data from different collection points in the pipeline channel and temperature data from different collection points in the salt bath, which are equipped with flow meters, temperature and pressure sensors respectively.



21: 2022/13004. 22: 2022/11/30. 43: 2023/01/24
 51: C04B; C08K
 71: Zhengzhou University of Aeronautics
 72: TANG, Zhaojun, TANG, Shengquan, ZENG, Fanguang
54: GRAPHENE-BASED COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION

00: -
 The present disclosure belongs to the technical field of graphene materials, and discloses a preparation method of a graphene-based composite material, which including the following steps: providing a Si nanoporous column array; depositing a Ni nanocrystal catalyst on the Si nanoporous column array; and by using the Si nanoporous column array with the deposited nickel nanocrystals as a substrate, methane as a carbon source, a mixed gas of argon gas and hydrogen as a carrier gas, carrying out a chemical vapor deposition method to obtain the graphene-based composite material, wherein graphene in the composite material grows parallel to the substrate. The advantages of the present

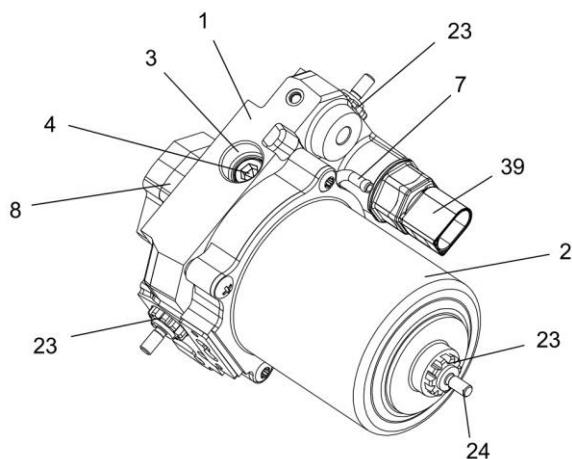
invention are: by depositing a Ni nanocrystal catalyst on the Si nanoporous column array and growing graphene nanosheets parallel to the substrate, the instability of the structure with graphene vertical to the substrate can be overcome through the structure with graphene parallel to the substrate. Compared with the structure with graphene vertical to the substrate, the structure with graphene parallel to the substrate is greatly enhanced in the emission stability during the electron emission process.



21: 2022/13005. 22: 2022/11/30. 43: 2023/01/24
 51: F02M
 71: Sichuan Aerospace Shiyuan Technology Co.,Ltd.
 72: Wang Guocheng, Liu Lin, Pu Yi, Chen Lianshan, Yang Bo, Duan Shengqiu
54: AN INTEGRATED HIGH-PRESSURE OIL PUMP

00: -
 The present invention discloses an integrated high-pressure oil pump, including an oil pump structure, an oil circuit plate, an actuator and a return valve, the oil pump structure is fixed on the oil circuit plate, the drive part is fixed on the oil circuit plate and used to drive the oil pump structure to work, and the sealing structure is provided between the drive part and the oil circuit plate, there are mounting holes in the oil circuit plate, and the return valve is fixed in the mounting holes through the sealing plug, the bottom of the installation hole is provided with an oil inlet channel, the oil inlet channel is connected with the inlet seal of the oil pump structure, the oil return channel is provided on the open side of the installation hole, the oil return channel is connected with the oil outlet seal of the oil pump structure, and

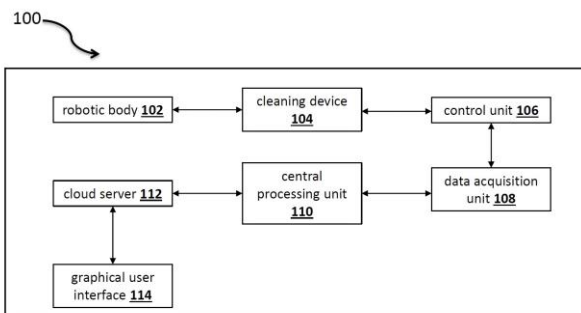
the middle of the mounting hole is provided with an petroleum channel. The high-pressure oil pump can be driven electrically to achieve the characteristics of low energy consumption and low noise, and integrated pressure sensor, itself to achieve the pressure monitoring function, through into the return valve to achieve the high-pressure oil pump oil delivery channel to achieve high pressure oil output and accept the role of high-pressure oil return pressure relief, the structure is highly integrated.



21: 2022/13006. 22: 2022/11/30. 43: 2023/01/24
 51: A47L
 71: Dr. S. Balakrishnan, Dr. J. Janet, Dr. P. Kavitha Rani, Dr. S. Venkata Lakshmi, Dr. L. Prabhu, Dr. G. Vijaya, Dr. P. Mohan Kumar, Dr. S. Vinodhkumar, ETB Samuel Jigme Harrison, Dr. Ravi Kumar Poluru
 72: Dr. S. Balakrishnan, Dr. J. Janet, Dr. P. Kavitha Rani, Dr. S. Venkata Lakshmi, Dr. L. Prabhu, Dr. G. Vijaya, Dr. P. Mohan Kumar, Dr. S. Vinodhkumar, ETB Samuel Jigme Harrison, Dr. Ravi Kumar Poluru
54: AN INTERNET OF THINGS-BASED DRAINAGE PIPES CLEANING ROBOT SYSTEM
 00: -

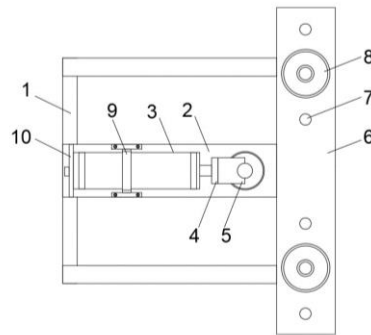
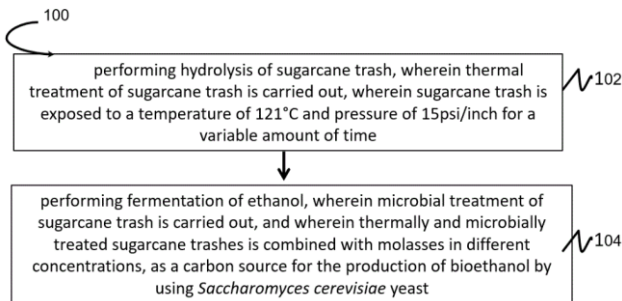
The drainage pipes cleaning robot system comprises a robotic body having a plurality of extendible arms for crawling through a drainage pipes, wherein the robotic body comprising: a cleaning device for cleaning the drainage pipes; a control unit for adjusting a moving direction and a moving speed of the cleaning arm; a data acquisition unit for receiving one or more working parameters during movement of the robotic body and cleaning device; a central processing unit for transmitting one or more moving-control instruction to the control unit for controlling the robotic body to move or stop according to the

moving-control instruction and transmitting one or more cleaning-control instruction to the cleaning device for cleaning the drainage pipes; a cloud server for storing the working parameter during the movement of the robotic body; and a graphical user interface for controlling the robotic body and the cleaning arm remotely.



21: 2022/13007. 22: 2022/11/30. 43: 2023/01/24
 51: C12P
 71: Somnath Dattatray Vibhute, Prin. Dr. Mohan Martand Rajmane, Dr. Abulkalam Usman Sutar, Dr. Satish Gundu Parte, Dr. Abhijeet Ganpatrao Mulik
 72: Somnath Dattatray Vibhute, Prin. Dr. Mohan Martand Rajmane, Dr. Abulkalam Usman Sutar, Dr. Satish Gundu Parte, Dr. Abhijeet Ganpatrao Mulik
54: A METHOD FOR PRODUCING BIOETHANOL USING SUGARCANE TRASH AS CHEAP CARBON SOURCE WITH MOLASSES
 00: -

The present disclosure relates to a method for producing bioethanol using sugarcane trash as cheap carbon source with molasses. The present disclosure provides a Method for Hydrolyzing Agricultural Waste Higher Polysaccharides into Usable Carbon Sugars for Bioethanol Production. In the present disclosure, the first stage includes thermal treatment of sugarcane trashes and then in the second stage includes microbial treatment. After complete thermal and microbial treatment of these materials, amount of total sugars were calculated. In the present disclosure, thermally and microbially treated trashes with molasses in different combinations are prepared, as a carbon source for the production of Bioethanol by using *Saccharomyces cerevisiae*. The results from the present disclosure shows that productive use of sugarcane waste in ethanol production could increase its application in commercial ethanol production.



21: 2022/13008. 22: 2022/11/30. 43: 2023/01/24
51: B21D

71: Xuzhou College of Industrial Technology
72: Zhang Chaoyan, Zhang Lixia

54: A TUBE BENDING DEVICE FOR PROCESSING TUBULAR METAL MATERIALS

00: -

The patent relates to the field of pipe bending device, discloses a pipe bending device for processing tubular metal materials, including a fixed plate, said fixed plate is provided with a hydraulic cylinder on the upper surface, said hydraulic cylinder output end is fixedly connected with a top moving seat, said top moving seat front end is rotatingly connected with a pipe bending wheel, said fixed plate front end is fixedly connected with an adjustment plate, said adjusting plate has a plurality of adjusting screw holes evenly spaced on both sides of the upper face of said adjusting plate, said adjusting plate has a limit wheel on both sides of the upper face of said adjusting plate, said limit wheel includes a connecting shaft, said connecting shaft has a turning wheel rotatingly connected to the upper end of said connecting shaft, said turning wheel is provided with an annular groove on the inner side. The patent of the invention proposes a pipe bending device for processing tubular metal materials, which is more convenient to use on site, can be adjusted to match different bending needs and has a wide range of application, and is provided with an annular recess on the inner side of the turning wheel, which prevents the pipe from jamming with the wheel.

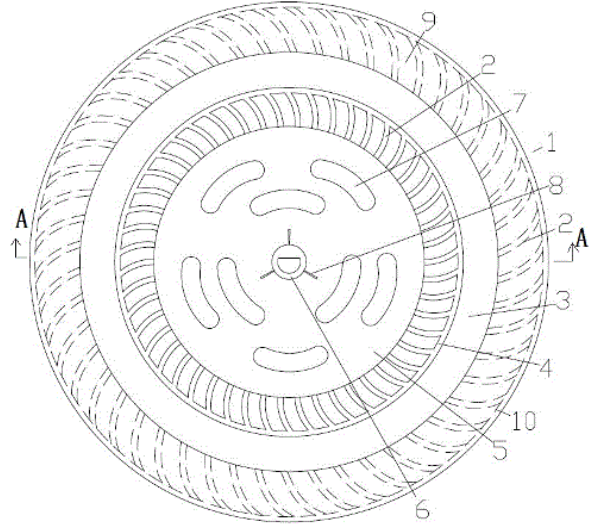
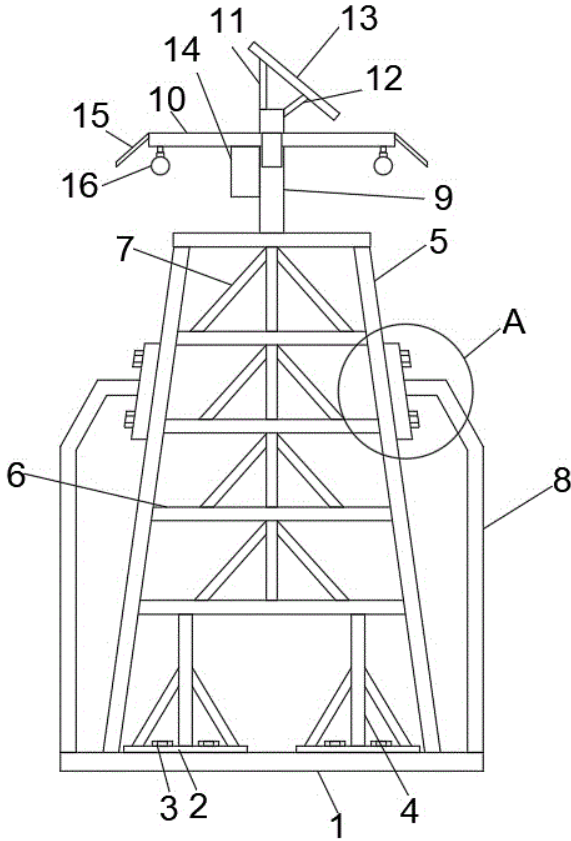
21: 2022/13009. 22: 2022/11/30. 43: 2023/01/24
51: B63B

71: Zhejiang International Maritime College
72: Zhang Yijiu, Hao Yongzhi, Yang Qilei, Li Yongguang, Chen Jianliang, Xu Chao

54: AN AUXILIARY MARKING DEVICE FOR WATERWAYS

00: -

The patent of the present invention relates to the technical field of fairway marking and discloses an auxiliary marking device for fairways, said support plate has a first mounting plate fixed on both sides by a first bolt, both said first mounting plates have a first tripod fixed on the upper end, said support plate has a support bracket fixed on the upper end, said support bracket has a plurality of base plates fixedly connected between, a second tripod is fixed at the upper end of each of said base plates, a support column is fixed in the middle of said upper end of said support column, a first connecting rod is fixed at the upper end of said support column, and a second connecting rod is fixed against the upper end of one side wall of said support column, said first connecting rod and second connecting rod are jointly fixedly connected to the solar panel on the side away from the support column. In the patent of the invention, the auxiliary marking device for a waterway has the effect of being stable in itself, at the same time the auxiliary marking device for a waterway has a good night marking function.



21: 2022/13016. 22: 2022/11/30. 43: 2023/01/24
51: F04D

71: LIU, Fangping

72: LIU, Fangping

33: CN 31: 202022623342.2 32: 2020-11-13

54: SYNCHRONOUS WIND WHEEL WITH MULTIPLE ROWS OF TURBINE FAN

00: -

The present invention relates to a synchronous wind wheel with multiple rows of turbine fan, wherein comprises at least two circles of blade rings which are arranged coaxially from the inside to the outside, and the blade ring include a number of fan blades which are uniformly distributed around the circumference, and the adjacent blade rings are connected as a whole through a bracket. The synchronous wind wheel with multiple rows of turbine fan has a simple structure, and at least two circles of blade rings rotate synchronously, common wind suction, wind pressure and air volume increase, high efficiency of wind extraction, the whole can be made thinner so that the volume is smaller.

21: 2022/13032. 22: 2022/12/01. 43: 2023/01/24
51: G01V

71: Huating Coal Industry Group Co., Ltd., Xuzhou Hongyi Technology Development Co., Ltd.

72: XUE Zaijun, LI Shoufeng, WANYAN Xiaoliang, QU Ying, GUO Minjie, LIN Fei, YANG Haitao, WANG Juanjuan, GONG Siyuan, GE Qing, TANG Lei, DONG Yiwu

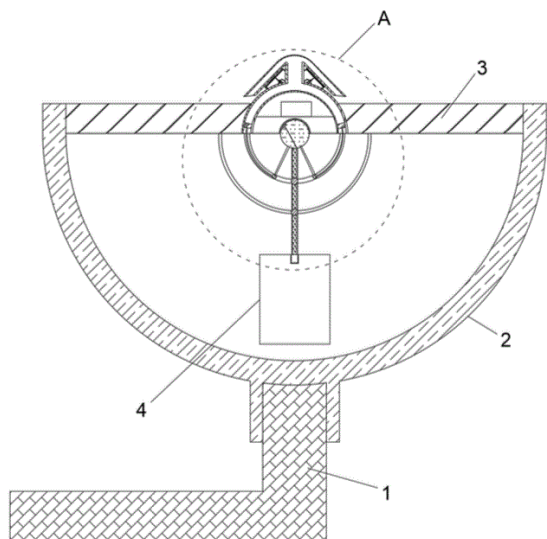
33: CN 31: 202211188531.9 32: 2022-09-28

54: IN-MINE-SHAFT SEISMIC MONITORING DEVICE

00: -

The present invention relates to the technical field of seismic monitoring equipment and discloses an in-mine-shaft seismic monitoring device, which comprises an L-shaped screw rod, wherein the L-shaped screw rod is fixedly mounted at a center of a bottom of a protective lower shell through a threaded hole, the protective lower shell is hollow inside, threads are formed in an inner side wall of an upper end of the protective lower shell and used for fixedly mounting a protective cover, a seismic sensor is mounted in a middle of the protective cover, and a first sliding rail and a second sliding rail are fixedly mounted on a bottom surface of the protective cover. According to the present invention, the protective shell and the protective cover are arranged to realize quick replacement of the sensor, the sensor is separated from the external high-temperature and high-humidity environment, and the flexible pipeline is arranged on the protective cover, so that when the whole device is in an inclined state, as the universal ball can rotate, the flexible pipeline can automatically adjust the sensor to be vertical to the ground under

the force of gravity, thereby realizing the leveling effect.



21: 2022/13033. 22: 2022/12/01. 43: 2023/01/24
51: C07C

71: China University of Petroleum (East China),
Dongying Wanghao Chemical Co., LTD

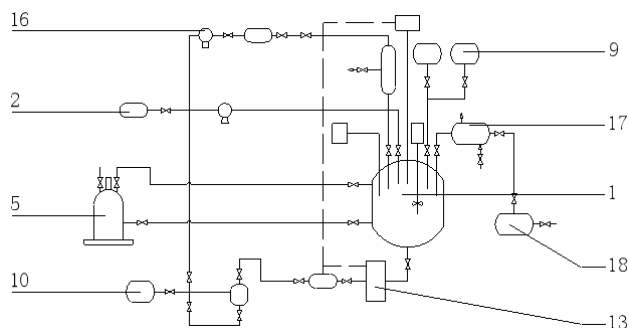
72: LIN Aiguo, YUAN Haifeng, FU Lingzi, WU
Chunfeng, YUAN Yufeng, MENG Xianlong

**54: ENVIRONMENT-FRIENDLY PREPARATION
METHOD OF CHLOROACETALDEHYDE**

00: -

The invention relates to the technical field of chloroacetaldehyde preparation, and discloses an environment-friendly preparation method of chloroacetaldehyde, which comprises the following steps: the initial medium of the preparation system is an aqueous solution of H₂O₂ with a mass concentration of 25-30 percent and a pH of 6.0-7.0. When H₂O₂ with a concentration of 20-30 percent is added into the jacketed low-pressure reaction kettle by a metering pump at one time to about 2/3 of the volume of the jacketed low-pressure reaction kettle, the magnetic stirrer is started, and the steam generated by the steam boiler is introduced into the jacket of the jacketed low-pressure reaction kettle through a steam pipe for heat treatment, and the temperature is maintained at 40-60 degree Celsius by a temperature control device. The yield of chloroacetaldehyde prepared by the invention is more than or equal to 90 percent; the chloroacetaldehyde content prepared by the invention is more than or equal to 40 percent, and

the clarity is colorless or light yellow transparent oily liquid; the chloroacetaldehyde prepared by the invention can be directly used for the preparation of 2,5-dihydroxy-1,4-dithiane, a crude drug for treating AIDS, and can also be used for the organic synthesis of other sulfathiazoles and fungicides.



21: 2022/13034. 22: 2022/12/01. 43: 2023/01/24
51: C02F; E02B; E21B

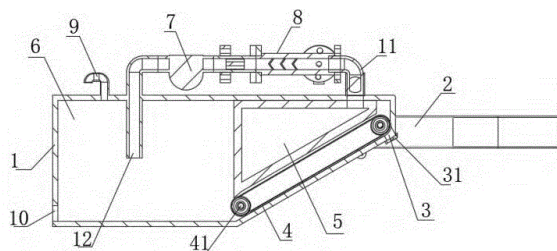
71: Anhui University of Technology

72: SHI, Fangzhi, WU, Jinlong, ZHANG, Chenyang,
YAO, Zhijie, LIU, Yuntao, CHEN, Xiaoyu, HONG,
Wenyan

**54: WORKING ASSEMBLY FOR OFFSHORE OIL
POLLUTION TREATMENT DEVICE**

00: -

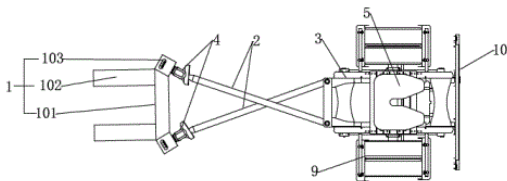
The present disclosure discloses a working assembly for an offshore oil pollution treatment device. Oil spills on the sea surface can be conveniently guided and gathered and subjected to oil-water separation, so as to obtain enriched mixed liquid with a high oil phase content to be stored and collected in a centralized manner, complex flow of the oil pollution treatment process is avoided, and the objectives of oil-water treatment integration and the high oil content of the obtained fluid are achieved, so that the working assembly is worthy of being used and popularized.



21: 2022/13035. 22: 2022/12/01. 43: 2023/01/24

51: B60P
 71: Jiangsu Zhengjin Special Vehicle Manufacturing Co., Ltd.
 72: Houdong Sun, Yang Sun
 33: CN 31: 202210783502.0 32: 2022-06-27
54: A DOUBLE-TRACTION TRANSFER VEHICLE
 00: -

The invention relates to a double-traction transfer vehicle used for trailers, comprising a front traction mechanism, two traction bars arranged in a cross, and a transfer frame connected with the trailer and provided with a running device, one end of each traction bar near the front traction mechanism is connected to the front traction mechanism by the retractor, and one end of each traction bar near the transfer frame is hinged to the transfer frame, the top of the transfer frame is provided with a saddle for connection to the trailer. The invention can meet the transportation requirements of one tractor pulling multiple trailers, greatly reduce the cost of equipment for vehicle purchase and labor costs, alleviate the road blockage pressure caused by the operation of multiple tractors wherein each tractor only pull one trailer at the same time, and improve the efficiency of the vehicle for transporting goods.



21: 2022/13036. 22: 2022/12/01. 43: 2023/01/24
 51: A01G
 71: Shanghai Academy of Agricultural Sciences
 72: Wenzong ZHOU, Xiaolin SUN, Quan YUAN, Weiwei LV, Weiwei HUANG, Xiao WANG, Yaqin LIU
54: METHOD FOR INTEGRATED FARMING OF RICE, RICE FIELD EEL, RED SWAMP CRAYFISH AND CHINESE SOFT-SHELLED TURTLE
 00: -

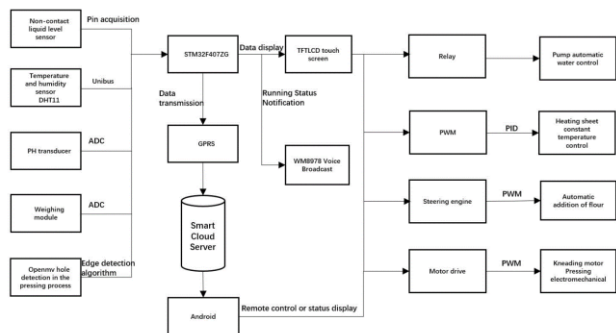
The present invention discloses a method for integrated farming of rice, rice field eel, red swamp crayfish and Chinese soft-shelled turtle, including the following steps: placing parrot feather watermilfoil (*Myriophyllum aquaticum*) in an annular ditch in a paddy field, releasing red swamp crayfish (*Procambarus clarkii*) seeds in April or August, releasing Chinese soft-shelled turtle (*Pelodiscus sinensis*) seeds and Chinese mystery snails

(*Cipangopaludina chinensis*) in May, releasing rice field eel (*Monopterus albus* Zuiew) fry from late June to early July, supplying a feed, catching the red swamp crayfishes in early June or early October, and catching the rice field eels and the Chinese soft-shelled turtles from November to December. The method for integrated farming of rice, meets the demand of rice field eels and Chinese soft-shelled turtles for live baits, and has the advantages of high biodiversity, convenience for catching, abundant supply of live baits, stable farming output, high economic benefits, etc.

21: 2022/13037. 22: 2022/12/01. 43: 2023/01/24
 51: G01F
 71: Hunan Agricultural University, SHEN JING BO
 72: SHEN JING BO

54: IMPROVEMENT OF PRODUCTION EFFICIENCY OF LARGE PASTA MACHINE BY KALMAN FILTER OPTIMIZATION ALGORITHM
 00: -

The invention discloses a Kalman filter optimization algorithm for improving the production efficiency of a large-scale pressure surface machine. The STM32F407ZGT6 development board is used as a lower computer to realize the data acquisition of the sensor. The Kalman filter algorithm uses a linear system state equation to optimally estimate the system state through the system input and output observation data. Due to the influence of noise and interference in the system in the collected data, the optimal estimation has a good filtering effect. The PID algorithm is used to achieve precise temperature control. Compared with other products, the product of this project realizes the integration of constant temperature, automatic water addition, automatic surface addition and surface pressure surface, and uses the Internet of Things technology to realize large-scale mechanical connection to the Internet. The mobile phone APP can achieve good control and status notification, so it has strong market competitiveness.



21: 2022/13042. 22: 2022/12/01. 43: 2023/01/24
 51: A01G; G06Q
 71: Sorghum Research Institute, Shanxi Agricultural University

72: YANG Bin, ZHOU Fuping, ZHANG Haiyan, YAN Fengxia, ZHAO Weijun, WANG Rui, ZHANG Yizhong

54: METHOD FOR SCREENING AND IDENTIFYING SORGHUM SALT-TOLERANT MATERIALS

00: -
 The invention provides a method for screening and identifying sorghum salt-tolerant materials, and relates to the technical field of screening and identifying salt-tolerant materials. The method includes: 1) seed treatment: selecting full, neat and undamaged sorghum seeds, putting them in a culture medium with three layers of filter paper, adding water, alternately culturing them in light and dark at room temperature, and keeping them for later use after the seeds expose white; 2) planting substrate: mixing fine sand, soil and sodium chloride solution as planting substrate; 3) salt stress: planting white sorghum seeds in the planting substrate for salt stress; and 4) screening and identification of salt tolerance: carrying out screening and identification of salt tolerance according to seed germination rate, seedling height and fresh weight of single plant. The method for screening and identifying sorghum salt-tolerant materials provided by the invention has accurate identification results and small errors. The method identifies the salt tolerance of sweet sorghum both at germination stage and at seedling stage.

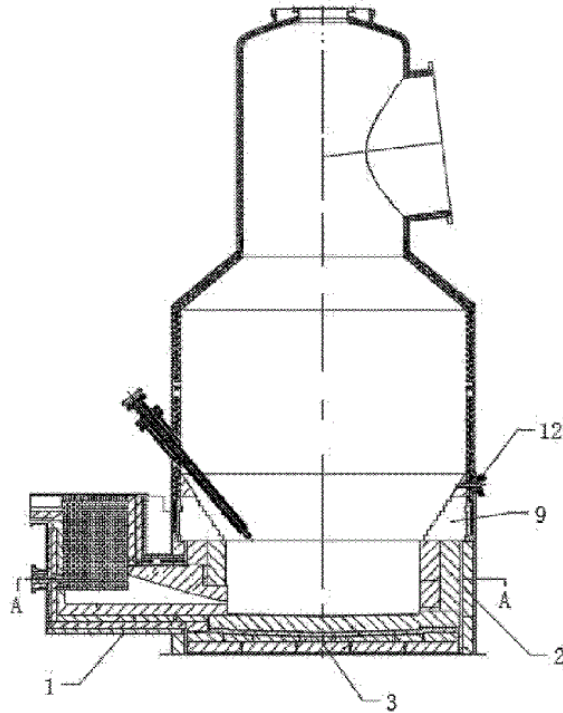
21: 2022/13056. 22: 2022/12/01. 43: 2023/01/24
 51: C21B
 71: SHANDONG MOLONG PETROLEUM MACHINERY CO., LTD

72: ZHANG, Guanqi, WANG, Jinxia, ZHANG, Xiaofeng, CHEN, Qingmeng, HAN, Junyi
 33: CN 31: 202010877489.6 32: 2020-08-27
54: METHOD OF PRODUCING ULTRA-HIGH-PURITY PIG IRON BY IRON BATH SMELTING REDUCTION PROCESS

00: -
 This application relates to a method of producing ultra-high-purity pig iron by an iron bath smelting reduction process. The method of producing ultra-high-purity pig iron comprises the following steps: screening raw materials to be fed into a vessel, wherein the raw materials to be fed into a vessel comprise ore powder, pulverised coal, magnesium-containing flux and limestone powder; preheating and preoxidising the ore powder to remove sulfur and arsenic in the ore powder; blowing the preheated and preoxidised ore powder and the magnesium-containing flux into the smelting reduction vessel by an ore powder injection system; blowing the pulverised coal and the limestone powder into the smelting reduction vessel by a pulverised coal injection system; preparing initial molten iron by controlling the production conditions in the smelting reduction vessel; and desulfurising the initial molten iron outside the vessel to prepare ultra-high-purity pig iron. In this method, ore powder with lower grade is pre-oxidised before being fed into the smelting reduction vessel, so as to achieve a desulfurisation rate of 50-80% and an arsenic removal rate of 30-40%, and then the production conditions in the smelting reduction vessel are controlled and desulphurisation outside the vessel is performed to produce ultra-high-purity pig iron. Through this method, the problem of excessive dependence on high-quality raw materials in domestic production of ultra-high-purity pig iron is solved.

21: 2022/13057. 22: 2022/12/01. 43: 2023/01/24
 51: C21B; F27D
 71: SHANDONG MOLONG PETROLEUM MACHINERY CO., LTD
 72: ZHANG, Guanqi, ZHANG, Xiaofeng, ZHANG, Guanglei, WANG, Jinxia, WEI, Zhaoqiang
 33: CN 31: 202010858082.9 32: 2020-08-24
54: METHOD FOR LAYING REFRACTORIES OF SMELTING REDUCTION VESSEL
 00: -

The invention provides a method for laying refractories of a smelting reduction vessel, comprising casting of permanent lining of the smelting reduction vessel, laying of bottom lining of the smelting reduction vessel, laying of a siphon tapping furnace, laying of working lining of a vessel bottom and a side wall, and casting of a slag zone and a coal gas chamber of the smelting reduction vessel. The invention develops a laying method combining integral casting with layered laying forming for the smelting reduction vessel, in which integral casting forming is adopted for permanent lining, and step-by-step multi-layer laying is adopted for vessel bottom lining, working lining and other parts to meet the high temperature and high pressure environment requirements of the smelting process, thus minimising the corrosion of slag to the vessel lining, ensuring that the vessel lining has good corrosion resistance and thermal shock resistance, adapting to the corrosion of high FeO slag to refractories, and maintaining high mechanical properties and corrosion resistance. In addition, the smelting reduction vessel laid by the method has three levels of safety protection measures, which greatly improves the safety of the smelting reduction vessel in the extremely high intensity smelting environment and ensures the safety of personnel and equipment.



21: 2022/13058. 22: 2022/12/01. 43: 2023/01/24
51: C21B

71: SHANDONG MOLONG PETROLEUM MACHINERY CO., LTD

72: ZHANG, Guanqi, WANG, Jinxia, CHEN, Qingmeng, HAN, Junyi, ZHANG, Guanglei

33: CN 31: 202010877523.X 32: 2020-08-27

54: METHOD AND DEVICE FOR CONTROLLING FOAMED SLAG FURNACE CONDITIONS IN IRON BATH SMELTING REDUCTION

00: -

The invention provides a method and device for controlling foamed slag furnace conditions in iron bath smelting reduction, which comprises the following steps:(1) judging whether foamed slag is generated according to the change of the following indexes in iron bath smelting reduction production: the secondary combustion rate of coal gas, the calorific value of coal gas, semi-coke amount of flue gas, the total heat load of water-cooled wall, the carbon content of molten iron, the semi-coke content of slag, the density of slag and the FeO content of slag; and(2) controlling the quaternary basicity of slag to be 0.70-1.10 by increasing the ratio of the coal injection amount to the ore injection amount based on the original production parameters, to enable the furnace conditions to resume normal production if foamed slag is generated; and

continuing the production according to the original production parameters if foamed slag is not generated. The control method of the invention realizes the accurate judgment of the foamed slag and by the change of the various indexes, the rapid resumption of the normal production is realized and the production efficiency is improved. The control method of the present invention quantifies the judgment bases of the furnace conditions of the foamed slag and the resumption method in iron bath smelting reduction and fills the gap in the current production technology in the art.



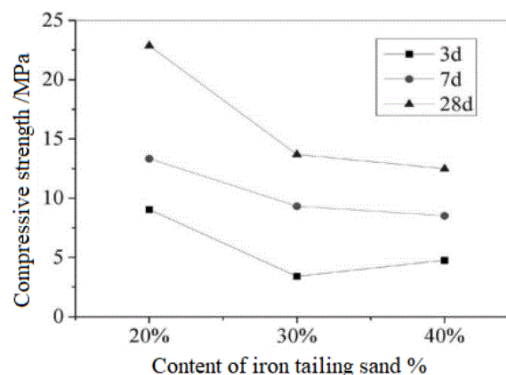
21: 2022/13071. 22: 2022/12/02. 43: 2023/01/24
51: C04B

71: Anhui Masteel Jiahua New Building Materials Co., Ltd., Anhui University of Technology
72: GUO, Weidong, YU, Feng, YAO, Chi, CHEN, Zhonghua, FANG, Yuan, YANG, Yun, LENG, Dezhi
54: METHOD FOR PREPARING COMPOSITE CEMENTITIOUS MATERIAL BY USING IRON TAILING POWDER, FINE SLAG POWDER AND DESULFURIZATION ASH

00: -
Provided is a method for preparing composite cementitious material by using iron tailing powder, fine slag powder and desulfurization ash, comprising 0-42 parts of iron tailing powder, 41-80 parts of fine slag powder, 9-28 parts of quicklime, 3-13 parts of desulfurization ash and 4-17 parts of gypsum by weight. The preparation method includes: all materials are added into a container with good tightness, and the container is shook and turned over after sealing, and then stood for 15 minutes, the operation is repeated for 3-4 times, and the composite cementitious material which is well stood is stored in a dry environment to obtain a composite cementitious material prepared from iron tailing powder, fine slag powder and desulfurization ash. The present invention overcomes the problem of insufficient cementitious activity of iron tailing powder itself and significantly improves the utilization rate of iron tailing powder, fine slag powder and desulfurization ash.

21: 2022/13072. 22: 2022/12/02. 43: 2023/01/24
51: C04B
71: Anhui Masteel Jiahua New Building Materials Co., Ltd., Anhui University of Technology
72: WANG, Zongsen, YAO, Chi, YU, Feng, WANG, Liang, FANG, Yuan, WANG, Xianshuang, HOU, Fei
54: NOVEL CLINKER-FREE HIGH-PERFORMANCE LOW-COST COMPOSITE CEMENTITIOUS MATERIAL

00: -
Provided is a novel clinker-free high-performance low-cost composite cementitious material, which comprises 10-25 percent of quicklime, 5-20 percent of desulfurization ash, 0-11 percent of modified material and 50-95 percent of composite admixtures. Composite admixtures comprise iron tailing sand and fine slag powder, which account for 20-45 percent and 30-50 percent of the total raw material mass percentage of cementitious material, respectively. Through a relatively suitable mixing proportion, the present invention realizes the activation of cementitious activity of iron tailing sand by using the low-cost quicklime and desulfurization ash, and a small quantity of the salt of strong alkali and weak acid. The present invention adopts cheap industrial raw materials and industrial wastes as raw materials, without need for high-temperature roasting, grinding and other processes, thereby significantly simplifying the preparation process and construction difficulty.



21: 2022/13073. 22: 2022/12/02. 43: 2023/01/24
51: C04B

71: Anhui University of Technology
72: YU, Feng, YIN, Longlong, FANG, Yuan, WU, Ping

54: METHOD FOR PREPARING EFFICIENT ANTI-BLOCKING SELF-PURIFICATION STEEL SLAG MICROBIAL PERVIOUS CONCRETE

00: -

The present invention provides a method for preparing efficient anti-blocking self-purification steel slag microbial pervious concrete. The concrete is prepared by layered pouring of a bottom layer and a surface layer; the bottom layer is prepared from the following raw materials in percentage by weight: 55-65 percent of steel slag, 7-10 percent of biological filter material ceramsite, 0.2-0.6 percent of thermoplastic starch plastic, 12-20 percent of ordinary Portland cement, 1.2-2 percent of silica fume, 0.5-1 percent of styrene-acrylic emulsion, 0.2-0.4 percent of water reducer and a remaining amount of water; the surface layer is prepared from the following raw materials in percentage by weight: 70-75 percent of steel slag, 14-21 percent of ordinary Portland cement, 1.4-2.1 percent of silica fume, 0.6-1.2 percent of styrene-acrylic emulsion, 0.3-0.5 percent of water reducer and a remaining amount of water. Metallurgical steel slag waste is fully utilized, and the engineering cost is obviously reduced.

21: 2022/13074. 22: 2022/12/02. 43: 2023/01/24

51: A24B; B01J

71: Kunming University of Science and Technology, Yunnan Tobacco leaf Co., Ltd

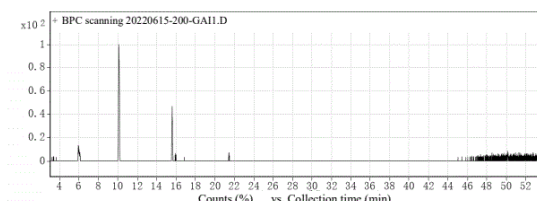
72: GU, Lili, LI, Zengliang, LI, Ruidong, HUANG, Wenyong, YAO, Wen, JING, Lianpeng, TANG, Xuyu, PENG, Jian, WANG, Xianyou, YANG, Zehui

54: METHOD FOR CATCHING NICOTINE FROM TOBACCO REDRIED FLUE GAS BY USING MOLECULARLY IMPRINTED POLYMER

00: -

The present disclosure provides a method for catching nicotine from a tobacco redried flue gas by using a molecularly imprinted polymer, and belongs to the technical field of waste gas recovery. The method for catching the nicotine from the tobacco redried flue gas by using the molecularly imprinted polymer in present disclosure includes the following steps: providing a nicotine molecularly imprinted polymer; redrying originally flue-cured tobacco to obtain a redried flue gas; loading the redried flue gas into a packed column containing the nicotine molecularly imprinted polymer by a carrier gas to obtain a molecularly imprinted polymer with nicotine

adsorbed; and eluting the molecularly imprinted polymer with the nicotine adsorbed with a polar organic solvent to obtain a nicotine catch. The results of embodiments show that relative content of the nicotine in nicotine catch obtained in present disclosure ranges from 66.32 percent to 82.33 percent.



21: 2022/13075. 22: 2022/12/02. 43: 2023/01/24

51: B01J

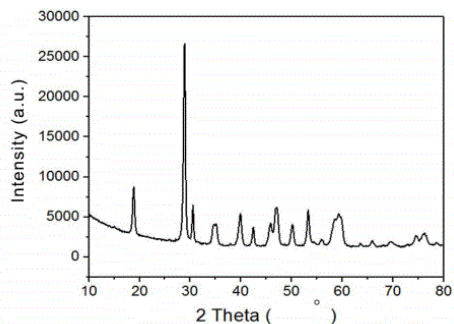
71: Shanghai Polytechnic University

72: ZHU, Luping, WEI, Jiangan, MAO, Yuqin, WU, Yuxin

54: VISIBLE LIGHT-RESPONSIVE PEANUT-SHAPED BISMUTH VANADATE AND PREPARATION METHOD THEREOF

00: -

A visible light-responsive peanut-shaped bismuth vanadate and a preparation method thereof are provided. In the present invention, the peanut-shaped bismuth vanadate is prepared by using a trivalent bismuth salt and a metavanadate as raw materials and a mixed solution of ethylene glycol (EG) and deionized water as a solvent via a hydrothermal method in case of no template. The present invention achieves desired peanut-shaped bismuth vanadate by adjusting the volume ratio of ethylene glycol (EG) to deionized water; the preparation method involved in the present invention is simple in process, low in cost and good in repeatability. The prepared bismuth vanadate has the advantages of high purity, good crystallinity, controllable morphology, monodispersity, size uniformity and visible light response, and thus can be used as a visible light-responsive semiconductor photocatalyst.



21: 2022/13076. 22: 2022/12/02. 43: 2023/01/24
51: A23L

71: Yongxing Zheng

72: Yongxing Zheng

54: A SHRIMP CHILI SAUCE AND A PREPARATION METHOD THEREOF

00: -

The invention discloses a shrimp chili sauce and a preparation method thereof, the raw materials comprising: 30-50 parts of shrimp, 25-45 parts of chilli and 15-25 parts of seasoning. The invention has reasonable ratio of shrimp and chilli, high shrimp content, can balance the ratio between shrimp and chilli, and provides good taste when chewing. The invention has unique flavor, rich mouthfeel and high nutritional value, can promote people's appetite, and make people have great appetites.

21: 2022/13077. 22: 2022/12/02. 43: 2023/01/24
51: A63B; B62H; B62K; B62L; F03G; F04D

71: Zhenfu Zou

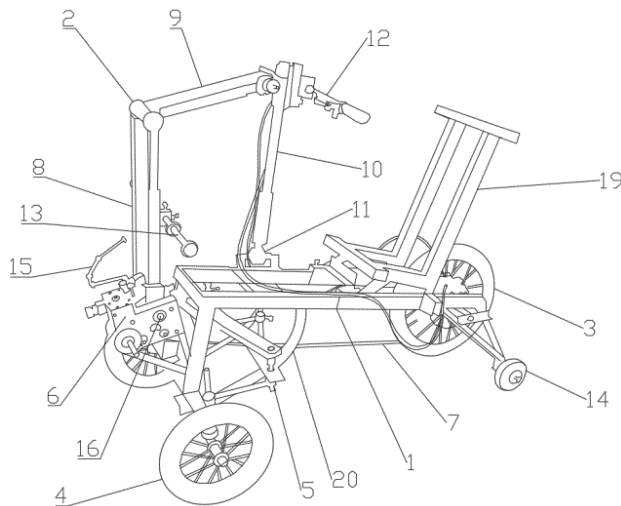
72: Zhenfu Zou

54: MULTIFUNCTIONAL SPORTS EQUIPMENT

00: -

The invention discloses a multifunctional sports equipment, comprising a spinning bicycle body, wherein the spinning bicycle body comprises a vehicle structure and an operating structure provided at the front of the vehicle structure; the vehicle structure is rotatably connected to the operating structure; the rear end of the vehicle structure is provided with a driving rear wheel, and the front end of the vehicle structure is symmetrically provided with two driven front wheels; the lower part of the vehicle structure close to the driven front wheels is provided with an auxiliary control lever, and the auxiliary control lever controls the direction of the two driven front wheels; the middle part of the front end of the vehicle structure is provided with a gear

transmission part, and the gear transmission part is connected to the driving rear wheel through a chain; the operating structure comprises a gear connection rod, a pushing rod, and a supporting rod; the lower end of the gear connecting rod is rotatably connected to the gear transmission part, and the upper end of the gear connecting rod is rotatably connected to the pushing rod; the rear end of the pushing rod is rotatably connected to the supporting rod; the supporting rod is rotatably connected to the vehicle structure through a torsion structure on the horizontal plane and the vertical plane; the lower end of the supporting rod is rotatably connected to the auxiliary control rod, and the upper end of the supporting rod is rotated with a handle bar.



21: 2022/13106. 22: 2022/12/02. 43: 2023/02/08
51: A24B

71: HEBEI RUILONG BIOTECHNOLOGY CO., LTD
72: LI, Weijia, LI, Ang, HE, Aimin, FU, Linan, SUN, Boyan, ZHENG, Jingmei

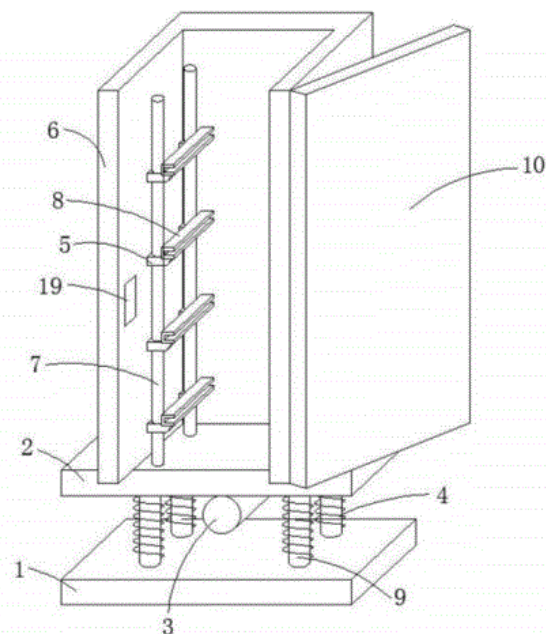
33: CN 31: 202010381944.3 32: 2020-05-08

54: FLAVOR ADDITIVE FOR CIGARETTES AND PREPARATION METHOD THEREFOR

00: -

A flavor additive for cigarettes is composed of the following components in parts by weight: 30~35 parts of poplar flower extract, 20~30 parts of propylene glycol, 10~20 parts of arabinose, and 10~50 parts of water. The preparation method for the poplar flower extract comprises the following steps: step A, washing poplar flowers, freeze-drying and crushing the poplar flowers to obtain a poplar flower powder; step B, mixing petroleum ether, propyl isobutyrate, and glycerol in a mass ratio of

5:2:(3~8) to obtain a mixed solvent; soaking the poplar flower powder in the mixed solvent to obtain a soaking liquid; step C, performing continuous circulating extraction on the soaking liquid using a supercritical carbon dioxide fluid to obtain an extract liquid; and step D, separating the extract liquid, collecting a product obtained by separation, and drying same to obtain the poplar flower extract. The technical solutions solves the problem of low extraction rate of poplar flower extracts in the prior art.



21: 2022/13113. 22: 2022/12/05. 43: 2023/02/08

51: B07B; G01G; G10K

71: Ma'anshan No. 8 Middle School

72: YU, Ziyou

54: LAYERED EXTRACTABLE HIGH-PRECISION FREQUENCY ADJUSTMENT SIEVE SHAKER

00: -

The present invention provides a layered extractable high-precision frequency adjustment sieve shaker and relates to the mechanical field. The layered extractable high-precision frequency adjustment sieve shaker comprises a permanent seat and a sieve. A chassis is installed above the permanent seat, the permanent seat and the chassis are connected by means of four supporting rods perpendicular to one another, a frame wall is fixedly connected with a top of the chassis, four holding rods are further arranged at the top of the chassis, a U-shaped elongated slot is formed in an inner side of each of the holding rods, the sieve basins are arranged at a top of a collecting basin, and a screen cover is installed above the sieve basins.

21: 2022/13114. 22: 2022/12/05. 43: 2023/02/08

51: C04B

71: Anhui Masteel Jiahua New Building Materials Co., Ltd., Anhui University of Technology

72: ZHAO, Luqing, YU, Feng, CHEN, Taiyao, FANG, Yuan, WU, Ping, XU, Shinan, YANG, Lei

54: MINE UNDERGROUND FILLING MORTAR

00: -

The present invention belongs to the technical field of building materials, and particularly relates to mine underground filling mortar. The mortar comprises a cementing material, water and a fine aggregate at a mass ratio of 1 (2.0-2.6): (4-10). The cementing material comprises the following components in parts by weight: 14-27 parts of an iron tailings powder, 45-62 parts of a slag micropowder, 12-24 parts of quick lime and 3-12 parts of desulfurization ash. The fine aggregate is all-iron tailing sand, and grain diameters of the all-iron tailing sand are 0.15 mm-2.36 mm. Strong coagulability and hardness are realized by means of activities and "potential hydraulicity" of the iron tailings powder and the slag micropowder, and acid thin layers and irregular chemical chain structures on the surface of the slag can be damaged by means of an alkaline environment provided by the quick lime where the slag is hydrolyzed.

21: 2022/13115. 22: 2022/12/05. 43: 2023/02/08

51: A01N; A01P

71: Nanjing Institute of Environmental Sciences,
Ministry of Ecology and Environment72: HU, Yaping, WANG, Le, WANG, Yifei, TIAN,
Jing, DING, Hui**54: MACROFUNGI PROTECTANT AND APPLICATION THEREOF**

00: -

The present disclosure provides a macrofungi protectant and an application thereof, belonging to the technical field of specimen preparation. The macrofungi protectant of the present disclosure comprises the following components in parts by weight: 1-5 parts of γ -polyglutamic acid, 3-8 parts of citric acid, 2-6 parts of ascorbic acid, 3-8 parts of licorice extract, 5-10 parts of grape seed extract, 5-10 parts of rosemary extract, and 20-40 parts of water. The components of the protectant of the present disclosure have a synergistic effect, and interact with each other to perform multiple inhibitions and enhance the oxidation resistance, thereby obviously stabilizing the pigment and achieving the effect of color protection. The experimental result indicates that when being used for making the macrofungi specimen, the protectant can effectively prevent the browning phenomenon of the macrofungi in the drying process and prevent the macrofungi specimen from darkening.

21: 2022/13116. 22: 2022/12/05. 43: 2023/02/08

51: C08L

71: Taiyuan University of Technology, Shanxi-Zheda
Institute of Advanced Materials and Chemical
Engineering72: Fuyong LIU, Wenwen YU, Fengbo ZHU,
Hongwei HE, Qiang ZHENG**54: A MODIFIED STYRENE BUTADIENE RUBBER, ITS PREPARATION METHOD AND APPLICATION, A COVERING RUBBER, ITS PREPARATION METHOD AND APPLICATION**

00: -

The invention provides a modified styrene butadiene rubber, its preparation method and application, and a covering rubber, its preparation method and application, belonging to the technical field of rubber materials. The covering rubber provided by the invention has a very high thermal conductivity, and can rapidly transfer local heat to the whole conveyor belt when it is heated locally. Secondly, the covering rubber uses the trans -1, 4-polyisoprene with crystallization function as the rubber matrix. The

trans -1, 4-polyisoprene still has some residual crystallization in the vulcanized state. The residual crystallization part of this part will crystallize and melt when heated above 60 degrees celsius, thus absorbing a large amount of heat and reducing the temperature of the whole conveyor belt. It protects the rubber from being aged by hot oxygen.

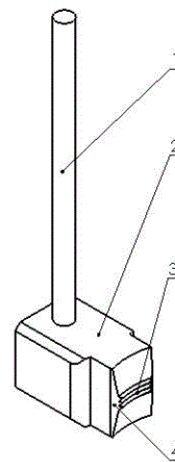
21: 2022/13117. 22: 2022/12/05. 43: 2023/02/08

51: H01R

71: Zhejiang Kav Carbon Material Co., Ltd., Zhejiang
Industry And Trade Vocational College72: LIU, Taotao, GAO, Yao, DUAN, Kaige, MA,
Jialun**54: CONVEX-SHAPED CARBON BRUSH OF AUTOMOBILE RIPPLE MOTOR AND PREPARATION METHOD THEREOF**

00: -

A preparation method for a convex-shaped carbon brush of an automobile ripple motor is provided, falling within the field of carbon brushes for automobiles, where the carbon brush is made of a graphite-copper-nano silver composite material by one-time molding with sintering and processing technology, so as to achieve a purpose of promoting electrical conductivity of the material. In addition, the unique convex-shaped configuration increases contact pressure of the contact surface of the carbon brush, and reduces a ratio of carbon brush width to a commutator slot, making current waveform generated by contact between the carbon brush and the commutator more stable.

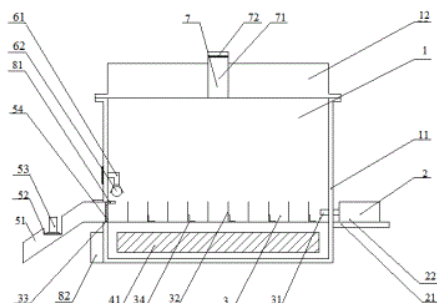


21: 2022/13122. 22: 2022/12/05. 43: 2023/02/08

51: B01D; G01N

71: Taiyuan University of Technology
 72: PANG, Xinyu, WANG, Yuewei, GUAN, Chongyang, FAN, Yachen, ZHAO, Peng
 33: CN 31: 202210529348.4 32: 2022-05-16
54: CONTINUOUS ULTRASONIC AUTOMATIC DEFOAMING DEVICE AND METHOD

00: -
 The present invention discloses a continuous ultrasonic automatic defoaming device and method, and relates to the technical field of oil fluid defoaming. The device comprises a shell, an oil fluid input unit, an oil way unit, an ultrasonic defoaming unit, a bubble collecting unit, a thermal radiation defoaming unit, an exhaust unit and a control unit. The oil fluid input unit is connected with the oil way unit, and an oil fluid enters the oil way unit by means of the oil fluid input unit; the bubble collecting unit is installed at a tail end of the oil way unit and is configured to collect bubbles generated by the oil fluid; the ultrasonic defoaming unit is installed right below the oil way unit and is configured to separate the bubbles in the oil fluid to a surface of the oil fluid.



21: 2022/13123. 22: 2022/12/05. 43: 2023/02/08
 51: C12N
 71: Zhejiang Academy of Agricultural Sciences, Huzhou Agricultural Science and Technology Development Center
 72: HUA, Shuijin, LIU, Han, LIN, Baogang, REN, Yun, HAO, Pengfei, HU, Hao, LOU, Weidong
54: METHOD FOR OBTAINING HIGH OLEIC ACID OILSEED RAPE BASED ON DOUBLE-LOCUS GENOME EDITING

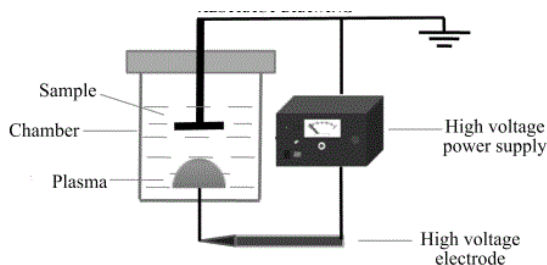
00: -
 The present disclosure provides a method for obtaining a high oleic acid oilseed rape based on double-locus genome editing. The method includes the following steps: selecting target loci T1, T2 and T3 capable of simultaneously acting on both A5 FAD2 and C5 FAD2; assembling a gRNA expression cassette; completing the construction of an A5

FAD2/C5 FAD2 double-locus editing vector; transferring into GV3101 Agrobacterium Electrocompetent Cells; and transforming an oilseed rape, and screening to obtain transgenic plants with both A5 FAD2 and C5 FAD2 mutations. In the present disclosure, through a CRISPR/Cas9 system, a semi-winter material Brassica napus cv. B57 with high oil content is used as a recipient, and FAD2 genes at A5 and C5 were simultaneously edited to obtain high oleic acid oilseed rape materials with double-locus mutation in the A5 FAD2 and the C5 FAD2, where the oleic acid content thereof is between 86.4 percent and 89.6 percent.

21: 2022/13124. 22: 2022/12/05. 43: 2023/02/08
 51: G01N
 71: SHANGHAI ACADEMY OF AGRICULTURAL SCIENCES
 72: YANG, Xianli, ZHAO, Zhiyong, WANG, Jianhua, YANG, Junhua, CHEN, Shanshan, ZHOU, Jiaxin, ZHOU, Changyan

54: METHOD FOR PLASMA DEGRADATION OF DEOXYNIVALENOL IN AQUEOUS SOLUTION

00: -
 The present disclosure provides a method for plasma degradation of deoxynivalenol (DON) in an aqueous solution, and belongs to the technical field of mycotoxin reduction. The method includes the following steps: step 1, mixing the DON with water to obtain a sample solution; and step 2, degrading the sample solution by plasma treatment, where a voltage of the plasma is set at 15-40 kV in step 2, and the treatment is conducted for 15-125 min. The method for plasma degradation of DON in an aqueous solution provided by the present disclosure is easy to operate, free of secondary pollution, and high in degradation rate.



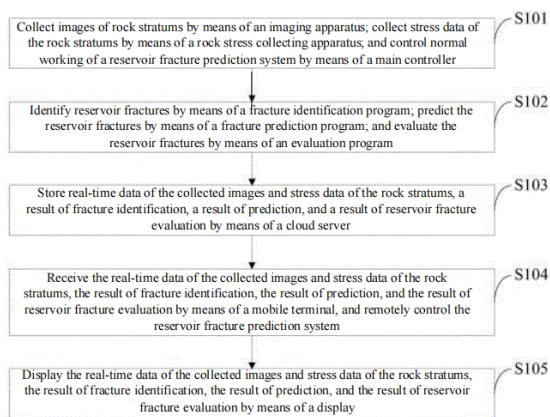
21: 2022/13125. 22: 2022/12/05. 43: 2023/02/08
 51: G01V
 71: Northeast Petroleum University

72: ZHANG, Meiling, LIU, Yunxin, YI, Xiaodong, LI, Fei, MU, Guangshan, XIU, Ouyang

54: FRACTURE IDENTIFICATION METHOD USING RESERVOIR STRESS DATA

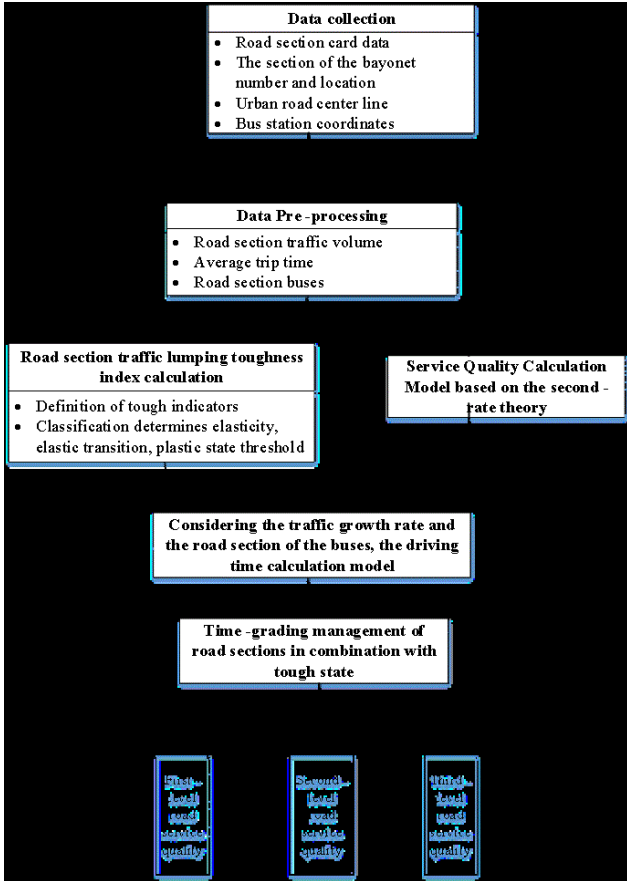
00: - Disclosed is a stress release based method for predicting reservoir fractures. The method includes: collecting images and stress data of rock stratum; identifying the reservoir fractures, and predicting the identified reservoir fractures by means of a prediction program; evaluating a result of prediction of the reservoir fractures by means of an evaluation program; and remotely controlling a reservoir fracture prediction system by means of a mobile terminal, and finally storing and displaying data. The present invention can effectively reduce cost by means of a fracture identification module,; and moreover, centering studies, logging interpretation and geology modeling are sequentially carried out by means of a fracture evaluation module, to analyze conditions of fracture development all around, such that an analysis degree becomes difficult from an easy degree and becomes fine from a rough degree, and the shale reservoir fractures are comprehensively and accurately evaluated and analyzed.

acquisition; The operating state of the traffic flow of the road section is divided into plastic state, elastic transition state and elastic state; Determination of the operating state threshold: the data set of the resilience value is divided into different categories, and the clustering centers of each category are sorted from small to large, and the average value of the clustering centers of adjacent categories is the threshold of each state; Considering the influence of traffic flow growth and bus arrival on traffic flow, a calculation model based on the second-rate model of time-sharing average driving time and road service quality coefficient of road sections is established. Finally, through cluster analysis, the service quality evaluation criteria of each road section are obtained, and the external management measures are determined for the service quality and resilience status of each level. The present invention is convenient and fast, improving the level of road traffic services; Effectively tap the resilience of traffic flow itself and save the cost of external management measures.



21: 2022/13127. 22: 2022/12/05. 43: 2023/02/08
 51: G08G
 71: Tongji University
 72: Wang Yuejiao, Ye Xin
54: METHOD AND DEVICE FOR HIERARCHICAL CONTROL METHOD OF URBAN ROAD SECTION BASED ON TRAFFIC FLOW RESILIENCE

00: - The invention discloses a hierarchical control method for urban sections based on traffic flow resilience, comprising road section bayonet data



21: 2022/13128. 22: 2022/12/05. 43: 2023/02/08

51: G01N

71: Yancheng Institute of Technology, Wina Seiko (Suzhou) CO., LTD.

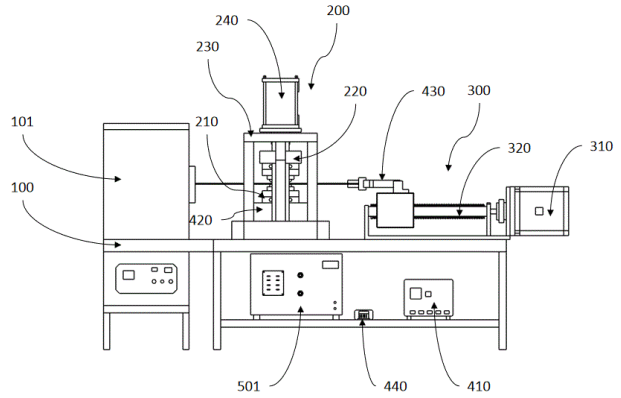
72: Shasha Dou, Shaohua Zhu, Jiansheng Xia, Banghua Ye

54: A TESTING MACHINE FOR DETERMINING THE COEFFICIENT OF FRICTION

00: -

The invention discloses a testing machine for measuring the friction coefficient. It is involved in the field of friction experimental equipment technology. Including a workbench, the workbench is provided with an electric furnace to heat the work-piece to be measured, and also includes a temperature detection device for measuring the work-piece temperature, pressure system for measuring the work-piece pressure, pulling system for measuring the work-piece tension, control system for collecting data and performing operations, cooling system for the upper and lower moving module components cooling and cooling. According to the ratio of pressure and tension, the friction coefficient of the work-piece to be measured at a certain temperature

can be measured. And the testing machine can simulate the process of heating the work-piece and cooling and quenching, which is consistent with the hot stamping process and ensures that the measured friction coefficient is more accurate.



21: 2022/13133. 22: 2022/12/05. 43: 2023/02/08

51: B63B; E02B; H04M; H04N

71: Zhejiang International Maritime College

72: Feijun Guo, Mingwei Xu, Minchao Xu, Yiming Wang, Zhenhang Zhong, Jialing Jiang, Haixia Zhu

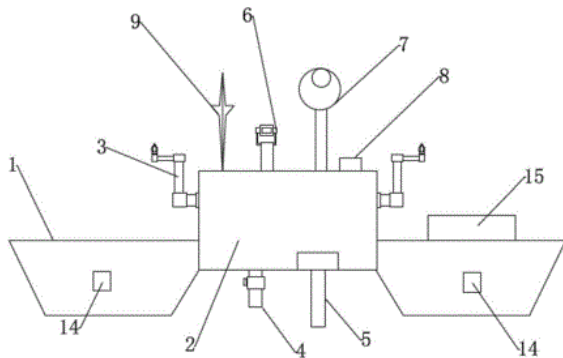
33: CN 31: 202111478030.X 32: 2021-12-06

54: A WATER SURFACE CLEANING ROBOT

00: -

The invention relates to the technical field of water surface garbage disposal, in particular to a water surface cleaning robot, comprising two hulls, and a storage box is arranged between the two hulls, the two sides of the storage box are provided with mechanical arms, the bottom of the storage box is provided with a drain pipe and a sonar detector, and the top of the storage box is arranged with a number of searchlights, a number of cameras, a GPS positioning device and a remote control antenna, the storage box is provided with a garbage bin, the garbage bin is provided with a garbage filter screen, the bottom of the garbage bin is provided with a drain pipe extending out of the storage box, the hull is provided with an electronically controlled rudder that controls the steering of the hull and an electronically controlled propeller that provides power for the hull to walk, and the hull is provided with a number of proximity sensors. The invention has reasonable design, high degree of automation, is suitable for small water areas, has strong flexibility, can replace manual work to complete automatic cleaning of various types of water areas,

reduces labor costs, makes up for the vacancy of products in the small water area market, and has good industrial application prospects.



21: 2022/13134. 22: 2022/12/05. 43: 2023/02/08
51: B25J

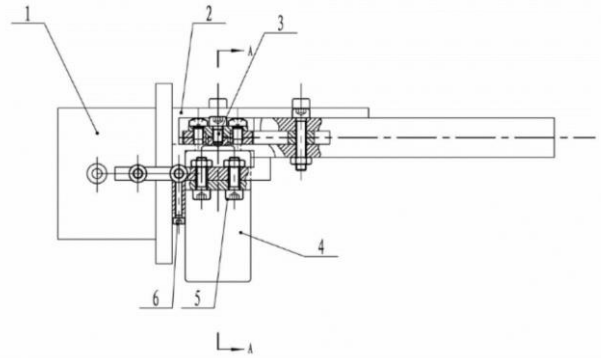
71: ZHEJIANG INSTITUTE OF MECHANICAL & ELECTRICAL ENGINEERING

72: Chen Xiaohong, Gu Qijun, Qiu Jiafei

54: MECHANICAL CLAW

00: -

The utility model relates to a mechanical claw, and it comprises a clamp turntable, a clamp support frame, a steering gear and a locking hook, wherein the steering gear is fixed below the clamp support frame through the second hexagon socket head cap screw; and the clamp turntable is located on the left side of the clamp support frame and is fixed by the third hexagon socket head cap screw; and locking hook is fixed on both sides of the clamp support frame through the fifth hexagon socket head cap screw; the clamp turntable is located in the locking hook; further, the hook groove of the locking hook is connected with the first deep groove ball bearing through the sixth hexagon socket head cap screw, and the first deep groove ball bearing is in contact with the clamp turntable. And the mechanical fingers on both sides can be closed at the same time by adopting the clamping principle of the parallelogram mechanical claw and the synchronicity of the parallelogram, so that it is easier to clamp objects. In addition, the mechanical claw can stably clamp a square object, and the clamping position does not need to be adjusted when operating the cylinder, which is convenient and quick.



21: 2022/13135. 22: 2022/12/05. 43: 2023/02/08
51: B60W

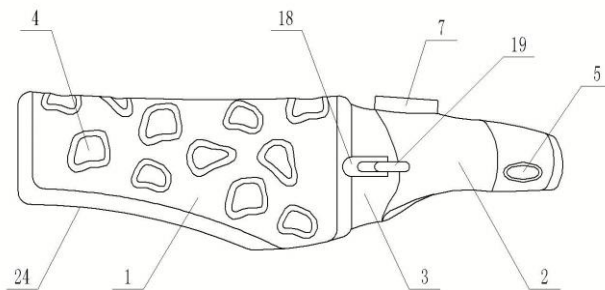
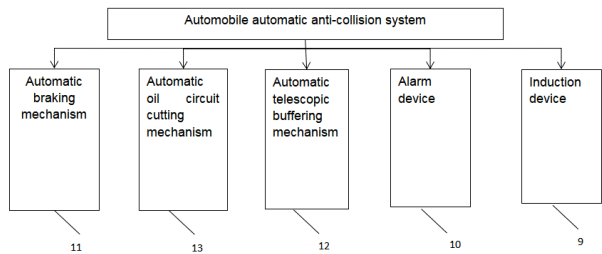
71: ZHEJIANG INSTITUTE OF MECHANICAL & ELECTRICAL ENGINEERING

72: Chen Xiaohong, Tao Yong, Chen Junming

54: AUTOMOBILE AUTOMATIC ANTI-COLLISION SYSTEM

00: -

The utility model discloses the automobile automatic anti-collision system, which comprises an induction device, an alarm device, an automatic braking mechanism, an automatic telescopic buffering mechanism and an automatic oil circuit cutting mechanism, and the induction device, the alarm device, the automatic braking mechanism, the automatic telescopic buffering mechanism and the automatic oil circuit cutting mechanism are communicated with each other through electrical signals. And the utility model has the beneficial effects that when the automobile is 30cm away from the front automobile, the warning light of the automobile alarm device will automatically flash, and at the same time, an alarm sound will be issued to remind the driver of the automobile to take safety measures, and at the same time, the rear automobile will be warned to take deceleration measures. Then, the braking mechanism automatically brakes, and at the same time, the oil circuit is cut off, and the buffering mechanism automatically extends to prevent collision with the front automobile, so that there will be no crash under normal circumstances; Even if the crash occurs, the buffering mechanism effectively reduces the severity of the disaster; Measures are effective and safe, and the program design is scientific and reasonable.



21: 2022/13136. 22: 2022/12/05. 43: 2023/01/30
51: B25J
71: PUFENG SUO INDUSTRY (SHANGHAI) CO., LTD.

72: WANG, Xiyuan, SHI, Hao, FU, Yuli, PANG, Xueyan, DOS SANTOS ANTÓNIO, Nelson José
54: INTELLIGENT EXOSKELETON ARM FOR INFORMATION RECOGNITION

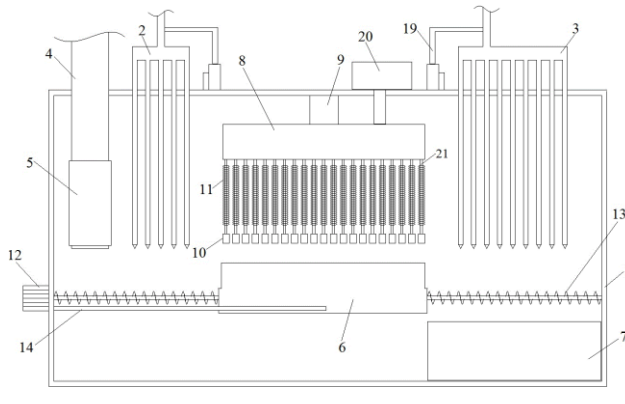
00: -
Disclosed is an intelligent exoskeleton arm for information recognition, including an arm section and a palm section; the arm section is connected with the palm section through an elastic connecting cylinder; the arm section and the palm section are both formed by 3D printing; a plurality of telescopic connecting mechanisms arranged circumferentially are arranged between the arm section and the palm section; the arm section and the palm section are respectively provided with a plurality of first air holes and a plurality of second air holes; an outer wall of the palm section is provided with an equipment box; a control processing mechanism, an intelligent identification mechanism and a voice announcer are installed in the equipment box; the voice announcer and the intelligent identification mechanism are electrically connected with the control processing mechanism; the intelligent identification mechanism is used for identifying road information, and body temperature ECG information. The invention is used for providing road navigation and physical condition monitoring for visually impaired people, providing more in-depth information collection and broadcasting functions for users, having multiple functions, being comfortable to wear, and improving the use feeling of users and the service life of exoskeleton arms.

21: 2022/13137. 22: 2022/12/05. 43: 2023/02/08
51: B29C
71: Suqian University

72: Zhang Jun, Li Shuyong, Chen Yegao, Sun Xiaoxia, Pan Haicheng
33: CN 31: 202210375592.X 32: 2022-04-11
54: A THIN-WALLED MULTI-CAVITY MOULD RAPID PROTOTYPING EQUIPMENT

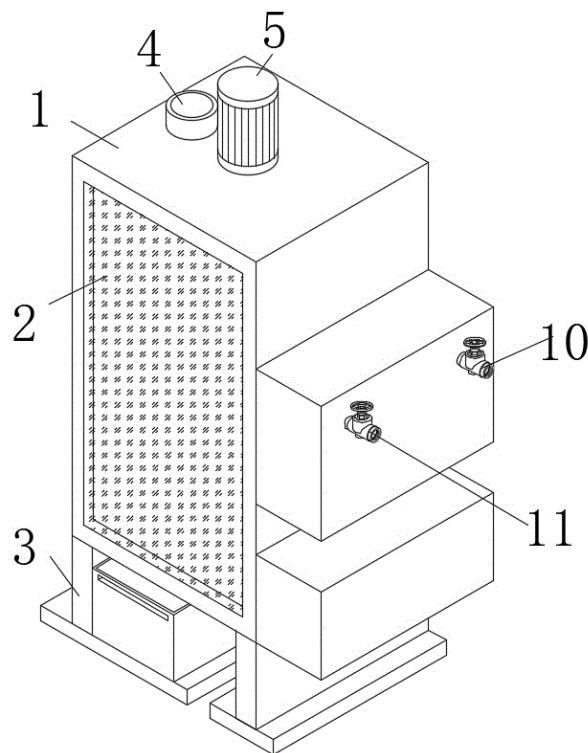
00: -
The present invention relates to the technical field of mould equipment, specifically a thin-walled multi-cavity mould rapid forming equipment, comprising a forming box, a hot stamping member for forming a thin-walled multi-cavity mould is provided on the top wall of the forming box, a hot air pipe and a cold air pipe are provided through the forming box on both sides of the hot stamping member, a discharge pipe is also provided on the forming box, a heating table is provided on the discharge pipe for melting the molten gel into a molten-plastic form, a hot air pipe is provided between the discharge pipe and the hot stamping member; a mounting base is slidingly provided inside the forming box, a forming member corresponding to the hot stamping member is provided on the mounting base, and a forming member is located on the mounting base. A heating table is provided on the discharge pipe for melting the molten colloid into a molten shape, and the hot gas pipe is provided between the discharge pipe and the hot stamping part; a mounting base is slidingly provided inside the forming box, and a forming part corresponding to the hot stamping part is provided on the mounting base, and the forming part is located below the hot gas pipe, the cold gas pipe, the discharge pipe and the hot stamping part; a collection box is provided inside the forming box and below the mounting base. The present invention not only realises temperature regulation of thin-walled multi-cavity moulds in the production process, but

also avoids the technical defect of reheating the moulds and facilitates the demoulding process.



21: 2022/13138. 22: 2022/12/05. 43: 2023/02/08
 51: B30B
 71: Gansu Institute of Animal Husbandry and Veterinary medicine
 72: Guo Hailong, Yang Junxiang, Zhang Pengyue, He Maochang, Gao Ziyue, Gu Lingrong
54: AN ENVIRONMENTALLY FRIENDLY ANIMAL MANURE TREATMENT DEVICE

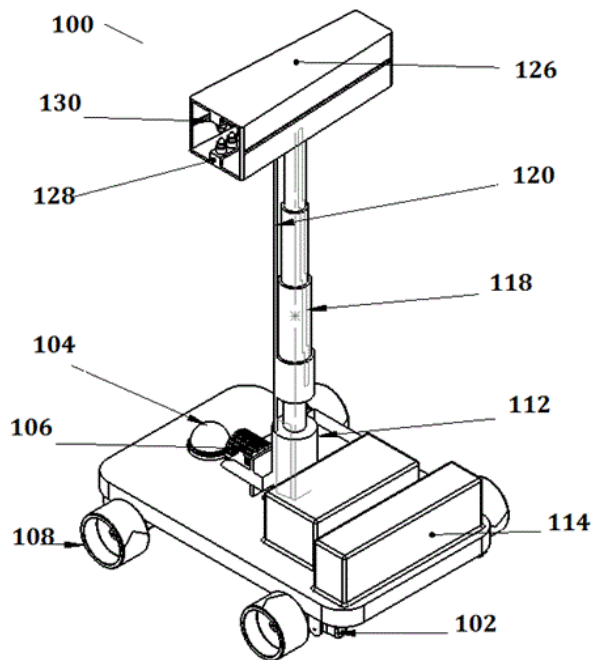
00: -
 The patent of the invention relates to the field of manure treatment device, discloses an environmentally friendly animal manure treatment device, comprising a main box body, said main box body on the upper surface of one side of the fixed connection of the inlet, said main box body on the upper surface of the central fixed connection of a servo motor, said servo motor output end fixed connection of a connecting rod, said main box body on the side of the outer wall fixed connection of a water storage tank, said water storage tank on the outer wall of the fixed connection of the water valve and water valve respectively. said water inlet valve and water outlet valve are fixedly connected, and said water pump is fixedly connected to one side of the upper surface of the main box body. In the patent of the invention, by pouring animal manure from the inlet into the interior of the main box, starting the heating wire to heat it, and then driving the rotation of the stirring mesh plate through the servo motor, dewatering the manure, heating and drying the interior, killing the bacteria and viruses in the solid manure through high temperature, avoiding pollution of the environment, thus achieving the purpose of environmental protection, and improving the efficiency of the device.



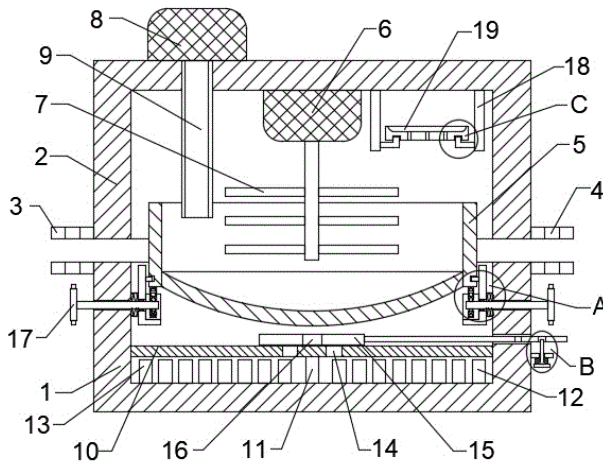
21: 2022/13141. 22: 2022/12/05. 43: 2023/02/08
 51: B08B
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: Dr Srinivasan Devaraju, Bhuvanendran Dhandapani, Ragul Pushparaj, Kaarthick Kathiravan, Ramakrishnan Hariharan, Albert Francis Arockiya Raj
54: AN AUTOMATED CEILING FAN BLADE CLEANING MACHINE

00: -
 The present invention discloses an automated cleaning machine 100 for ceiling fan blades to remove the dust and impurities from the blades. The automated machine comprises a driving unit, connecting unit and a cleaning unit. The driving unit 110 is operable by a processor configured to identify the ceiling fan location through the camera source. The processor 106 controls the wheel movements. The connecting unit adjusts the vertical and rotational movement of the connecting arm configured to identify the cleaning position of the blades. The cleaning unit 124 comprises an upper and lower plate nozzles are spraying the necessary amount of liquid from a pump to clean the ceiling fan blades. The flexible pipe 122 transfers the sprayed water from the cleaning unit into base via the converged hole. The automated cleaning machine

will remove the dust and impurities from the ceiling fan blades in an effective manner.



The invention can better complete the composting operation of biological food waste, make the installation and dismantling of the storage cylinder faster, reduce the working time, the overall operation is simple and practical.



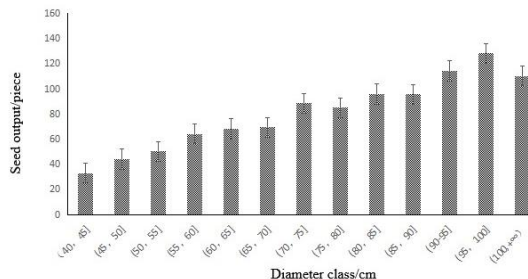
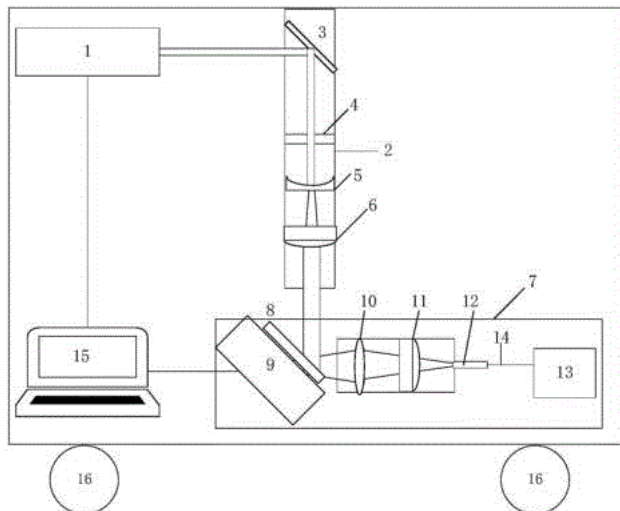
21: 2022/13142. 22: 2022/12/05. 43: 2023/02/08
 51: C05F
 71: Suzhou University
 72: Zhang Dongjing, Gao Fengwei
 33: CN 31: 202210197231.0 32: 2022-03-01
54: A BIO-FOOD WASTE PROCESSING DEVICE
 00: -

The present invention discloses a biological food waste processing device, comprising an upper lid and a lower lid, said upper lid is located on the upper side of the lower lid and the lower lid is provided in matching correspondence, said upper lid and lower lid are both fixed with the same connection ring on the outer side, said connection ring is provided with corresponding connection holes, said lower lid is provided with a storage cylinder inside, said lower lid is provided with a storage cylinder snap-in fixing device, said storage cylinder is provided through the lower lid, said storage cylinder is provided through the lower lid. said upper lid is fixedly connected with a motor on the lower side, said output shaft of the motor is set through the storage cylinder, said output shaft of the motor is fixedly connected with a plurality of stirring rods, said outer upper side of the upper lid is fixedly connected with a blower, said lower side of the blower is fixedly connected with an air inlet pipe.

21: 2022/13143. 22: 2022/12/05. 43: 2023/02/08
 51: G01N
 71: Huainan Normal University
 72: Meng Deshuo, Wang Shouya, Zhang Ke, Yu Haijun

54: LASER INDUCED FLUORESCENCE SYSTEM FOR RAPID IN SITU DETECTION OF PETROLEUM HYDROCARBON CONTAMINANTS IN SOIL

00: -
 The present invention discloses a laser induced fluorescence system for rapid in situ detection of petroleum hydrocarbon contaminants in soil, comprising an excitation light source, a laser collimation system, a sample detection system and a control system, after simple treatment of the soil sample, the Nd:YAG laser at 266nm is used to excite the petroleum hydrocarbon contaminants in the sample and release fluorescence with material characteristics. The intensity and wavelength of the fluorescence are detected by the sample detection system and transmitted to the data processing system to complete the identification and quantification of the petroleum hydrocarbon contamination components. The detection system of the present invention is compact, stable and easy to move, and can perform rapid on-site detection of petroleum hydrocarbon contaminants in soil.



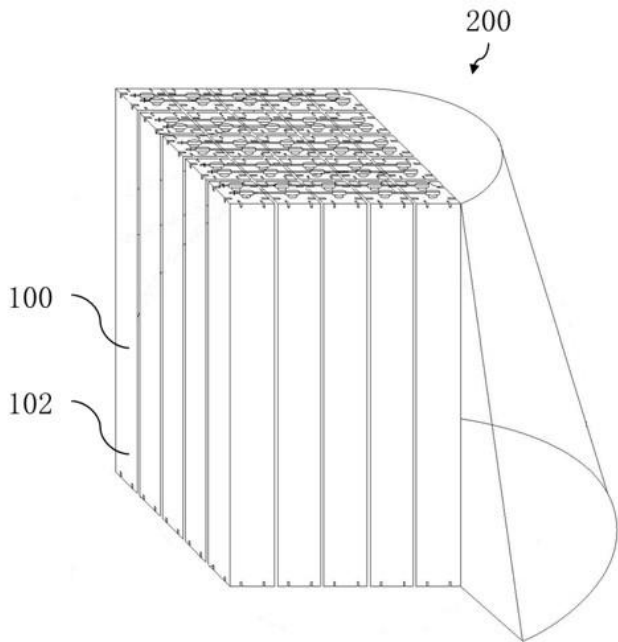
21: 2022/13144. 22: 2022/12/05. 43: 2023/02/08
 51: A01G
 71: JILIN PROVINCIAL ACADEMY OF FORESTRY SCIENCES
 72: WANG, Fang, YANG, Yuchun, LU, Zhimin, WANG, Jun, WANG, Yuanxing, LUO, Ye, YU, Haiyang, ZHANG, Yanming, LI, Guoquan
54: SELECTION METHOD OF SEED TREES WITH EXCELLENT FRUITING CHARACTERS IN NATURAL FOREST PINUS KORAIENSIS SIBE.ET ZUCC

00: -
 The invention discloses a selection method of seed trees with excellent fruiting characters in natural forest Pinus Koraiensis Sibe.et Zucc and belongs to the technical field of selection of seed trees. The method comprises the following steps: carrying out statistical analysis on seed outputs of Pinus Koraiensis Sibe.et Zucc with different diameter classes in seed tree forests of natural forest Pinus Koraiensis Sibe.et Zucc; calculating average seed outputs of individual plants with different diameter classes and standard deviations; and using the average seed outputs of individual plants + 1 time of the standard deviations as a selection standard of seed trees with excellent fruiting characters. Compared with the prior art, the present invention achieves the following beneficial effects: firstly, fewer investigation indexes are used, with high working efficiency; and secondly, the method is not limited by a forest age, tree species composition (uneven-aged forest and mixed forest) and site conditions.

21: 2022/13202. 22: 2022/12/06. 43: 2023/01/30
 51: F28D
 71: ZHEJIANG UNIVERSITY OF WATER RESOURCES AND ELECTRIC POWER
 72: SU, Shuran, ZHU, Chuanhui, MEI, Congli, ZHOU, Enhao, YANG, Yaqi, LIN, Tianze, GAO, Yubo
 33: CN 31: CN 202222911782.7 32: 2022-11-02
54: PHASE-CHANGE HEAT-STORAGE HEAT EXCHANGER FEATURING CONVENIENT DISASSEMBLY AND COMBINING PHOTOVOLTAIC HEATING AND HOT WATER HEATING

00: -
 An aspect of the present invention is to provide a phase-change heat-storage heat exchanger that features convenient disassembly and combines photovoltaic heating and hot water heating. The phase-change heat-storage heat exchanger includes at least one phase-change energy-storage heat exchange casing and a solar panel assembly. The phase-change energy-storage heat exchange casing includes a casing shell, a heat-collecting tube, a heat-radiating tube and a phase-change material, the heat-collecting tube and the heat-radiating tube being arranged inside the casing shell, and the phase-change material being arranged between the heat-collecting tube and heat-radiating tube and the casing shell. The solar panel assembly includes at least one solar panel and a solar heat-collecting tube arranged inside each solar panel. The phase-change heat-storage heat exchanger further includes a heat-collecting water intake pipeline, a heat-collecting water discharge pipeline, a heat-radiating water intake pipeline and a heat-radiating water discharge pipeline. The phase-change heat-storage heat exchanger adopts a modular design and is flexible and convenient for disassembly. The combination of solar heating and hot water heating not only achieves the heat collection effect but also meets

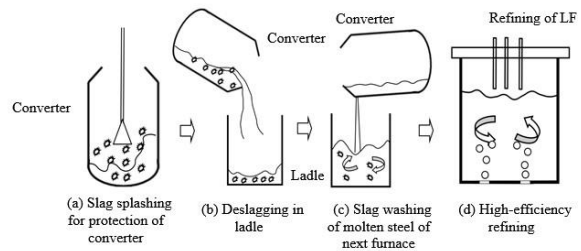
the heat exchange requirements, which provides a technical scheme for further developing and utilizing environmentally-friendly energy and increasing the energy efficiency.



21: 2022/13235. 22: 2022/12/07. 43: 2023/02/09
 51: C21C
 71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: XUE, Yuekai, LI, Yang, TIAN, Peng, KONG, Chao, GAO, Jianguo, FANG, Ming, WANG, Shuhuan, ZHAO, Dingguo, WANG, Dan
54: HIGH-EFFICIENCY AND ENERGY-SAVING SMELTING METHOD FOR FAST SLAG MELTING OF LF

00: -
 Disclosed is a method for slag melting of a Ladle Furnace (LF), comprising: deslagging during carbon pulling in smelting of a converter, carrying out an operation of slag splashing for protection of the converter after tapping is completed, adding a modifier during splashing, to obtain modified slag; pouring the modified slag in the converter into a baked ladle; after the smelting of the next furnace of the converter, adding molten steel into the ladle for carrying out a slag washing operation; at 1/3 of tapping, deoxidizing the molten steel by adding a deoxidizing agent; at 1/2 of tapping, adding CaO and Al₂O₃; after tapping is complete, bottom blowing argon, and stirring the molten steel; driving the ladle to the working position of the LF; adding a

deoxidizing agent, CaO and CaF₂ and heating until slag charge is molten; refining, desulphurization and subsequent operations after white slag is formed.



21: 2022/13289. 22: 2022/12/08. 43: 2023/02/08
 51: C04B

71: Xinxiang City Runfeng Zeyu Environmental Material Technology Co.

72: Yuwei ZHANG, Xinran ZHANG

54: A PENETRATION CRYSTALLIZATION INTERNAL DOPING TYPE TRIPLE COMPOUND IMPERMEABLE AGENT PREPARATION METHOD AND APPLICATION

00: -

The present invention discloses a permeation crystallization internal doping type triple composite anti-seepage agent, preparation method and application, including complexing agent LA, complexing agent MD and complexing agent NE. complexing agent LA includes: 50%-60% polyethylene glycol monomethyl ether, 20%-30% sodium p-toluenesulfonate, 8%-10% hydroxymethylacrylamide. The complexing additive MD includes: 0.1%-0.3% low temperature activated aluminum sulfate, 1.5%-3.5% sodium oleate, %-3% sodium rosinate, 1%-1.5% sodium citrate, 0.8%-1.2% ammonia. Complexation auxiliaries NE include: 1.5%-2% surfactant, 1%-2% maleic anhydride. The percentage by mass of anti-seepage agent is 0.25%-1% per cubic meter of concrete material. The present invention uses the above-mentioned permeation crystallization internally blended triple compound impermeable agent, preparation method and application to produce water-insoluble crystals by using active chemicals to permeate into the concrete interior to plug capillary pores, improve concrete denseness and provide water resistance.

21: 2022/13291. 22: 2022/12/08. 43: 2023/02/08
 51: B63B

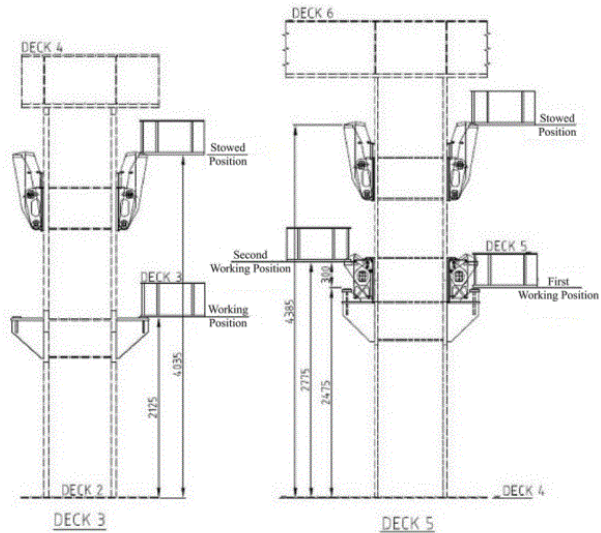
71: Zhejiang International Maritime College

72: Yan Lin, Zailiang Liu, Yishan Li

54: METHOD FOR INSTALLING A MOVABLE DECK

00: -

The invention relates to a method for installing a movable deck. The method comprises the steps that step 1, a supporting seat is welded; step 2, guide bars are arranged vertically with a vertical column panel and are fixed by welding; step 3, large closure of side sections and vertical columns in a dock are carried out independently; step 4, the vertical columns are welded; step 5, after the movable deck is hoisted and fixed to the fixed supporting seat at the normal working position, and whether the net height of the movable deck under different working positions meets the requirements or not is checked; and step 6, a guide block is arranged on the deck surface on which the movable deck is matched with the guide bars, and form a clamping-type connection mechanism which can move up and down with the guide bars. According to the method for installing the movable deck, the vertical columns and a hull structure are separated, namely, the vertical columns are not installed in the construction of hull segments, and the vertical columns are hoisted separately during the large closure, so that construction errors of the hull segments affecting the accuracy of structural correspondence and verticality of the vertical column installation is avoided, a lot of repairing work is avoided, and the installation period of the movable deck is shortened.



21: 2022/13295. 22: 2022/12/08. 43: 2023/01/17

51: G06F

71: MOUTAI INSTITUTE

72: LIU YUN, ZHANG LEILEI, TIAN PENG, LI LANG, YAN GENGLONG

33: CN 31: 202211315945.3 32: 2022-10-26

54: ATTENTION PRE-TRAINING BASED PICTURE QUESTION ANSWERING METHOD

00: -

Disclosed is an attention pre-training based picture question answering method, comprising a width attention module, a depth attention module and an attention pre-training module, wherein the width attention module is configured to model feature correlations between a question sentence and picture features of different levels, thereby exploring cross-modal feature interaction from different perspectives; the depth attention module is configured to repeat attention computing many times to gradually refine important question-related picture regions, thereby deeply understanding association information between the picture and the question; the attention pre-training module is configured to take an annotated attention distribution map as prior knowledge to carry out supervised learning on width attention and depth attention, thereby performing weight initialization on the width attention and the depth attention. According to the method, the manually annotated attention distribution map is used as the prior knowledge to guide the width and depth attention learning, and corresponding attention models are initialized through the pre-training, thereby significantly improving the convergence

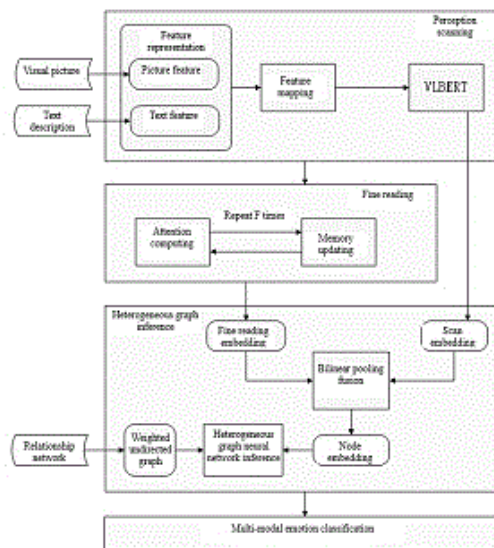
speed of the models and the accuracy of answer prediction.



21: 2022/13296. 22: 2022/12/08. 43: 2023/01/18
 51: G06F
 71: MOUTAI INSTITUTE
 72: LIU YUN, TIAN PENG, LI LANG, ZHANG LEILEI, SHEN SHIXUN
 33: CN 31: 202211315981.X 32: 2022-10-26
54: PROGRESSIVE NEURAL NETWORK BASED MULTI-MODAL EMOTION CLASSIFICATION METHOD

00: -
 Disclosed is a progressive neural network based multi-modal emotion classification method, comprising three modules: a perception scanning module, a fine reading module and a heterogeneous graph inference module, wherein the perception scanning module is configured to perform feature representation on a visual picture and a corresponding text description, and roughly perceive content information of the picture and the text by using a VL-BERT; the fine reading module uses a memory attention network to focus on important features of the picture and the text, and models fine-grained complementary information between the picture and the text; and the heterogeneous graph inference module constructs a multi-modal heterogeneous graph by using a social relationship network among pictures, fuses scan embedding and fine reading embedding generated in the previous two stages into graph node embedding, and

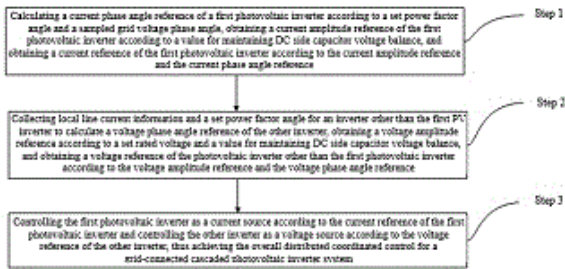
performs multi-modal emotion polarity inference by using a graph convolutional neural network. The invention comprehensively utilizes feature representation, cross-modal attention mechanism, graph neural network and other technologies to infer feature correlation and complementary information between multimodalities, and has a significant effect on improving the accuracy of multi-modal emotion classification.



21: 2022/13297. 22: 2022/12/08. 43: 2023/01/18
 51: H02J
 71: MOUTAI INSTITUTE
 72: LI LANG, SHEN SHIXUN, LIU YUN, TIAN PENG, ZHANG LEILEI, YAN GENGLONG
 33: CN 31: 202211315975.4 32: 2022-10-26
54: MPPT-BASED DISTRIBUTED CONTROL METHOD AND DEVICE FOR GRID-CONNECTED CASCADED PHOTOVOLTAIC INVERTERS

00: -
 Disclosed is an MPPT-based distributed control method for grid-connected cascaded photovoltaic inverters. The method comprises: calculating a current phase angle reference of a first photovoltaic inverter according to a power factor angle and a grid voltage phase angle, obtaining a current amplitude reference of the first photovoltaic inverter according to a value for maintaining DC side capacitor voltage balance, and obtaining a current reference of the first photovoltaic inverter according to the current amplitude reference and the current phase angle reference; collecting local line current information and a set power factor angle for another inverter to

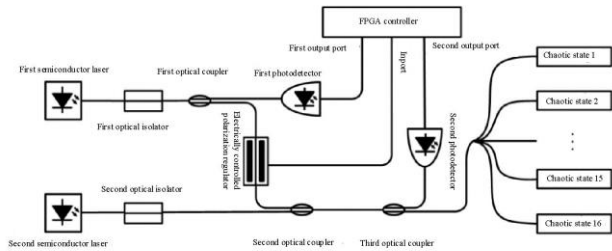
calculate a voltage phase angle reference of the other inverter, obtaining a voltage amplitude reference according to a set rated voltage and the value for maintaining the DC side capacitor voltage balance, and obtaining a voltage reference of the other photovoltaic inverter according to the voltage amplitude reference and the voltage phase angle reference; and controlling the first photovoltaic inverter and the other inverter as a current source and voltage source respectively according to the current reference and the voltage reference. The invention can reduce the dependence of system operation on communication and improve the system reliability.



21: 2022/13334. 22: 2022/12/09. 43: 2023/02/02
 51: G01S
 71: SOUTHWEST UNIVERSITY
 72: WU Jiagui, YANG Junbo, CHENG Hao
 33: CN 31: 2021115177288 32: 2021-12-10
54: CONTROLLED AGILE LASER CHAOTIC SIGNAL GENERATOR AND POLYMORPHIC CHAOTIC AGILE LIDAR
 00: -

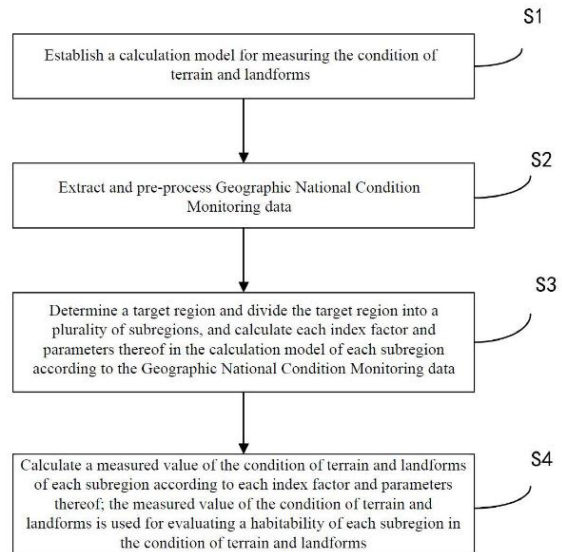
The invention provides a controlled agile laser chaotic signal generator and a polymorphic chaotic agile LiDAR, belonging to the field of remote sensing ranging signals. The controlled agile laser chaotic signal generator comprises a first semiconductor laser, a second semiconductor laser, a first optical isolator, a second optical isolator, a first optical coupler, a first photodetector, an electrically controlled polarization regulator, a second optical coupler, a third optical coupler, a second photodetector, a first output port, a second output port, an input port and an FPGA controller; the controlled agile laser chaotic signal generator of the invention adopts the method of optical injection into semiconductor laser to obtain GHz level high bandwidth laser chaotic signal, which has

outstanding ultra-wideband property and excellent anti-interference performance; the invention can be extended to a multi-laser optical injection method to generate chaotic signals with higher bandwidth; According to the invention, the fast switching between chaotic states is realized, so that chaotic signals have agile properties, and the anti-interference ability is enhanced.



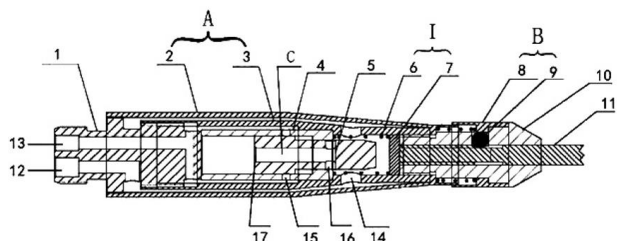
21: 2022/13340. 22: 2022/12/09. 43: 2023/02/02
 51: G06F; G06T; G06Q
 71: Chinese Academy of Surveying and Mapping
 72: QIAO, Qinghua, LIU, Jia, ZHAI, Liang, HOU, Wei
 33: CN 31: 202111517473.5 32: 2021-12-13
54: METHOD AND DEVICE FOR MEASURING CONDITION OF TERRAIN AND LANDFORMS
 00: -

A method and a device for measuring condition of terrain and landforms are provided. The method includes: establishing a calculation model for measuring condition of terrain and landforms; extracting and pre-processing Geographic National Condition Monitoring data; determining a target region and dividing the target region into a plurality of subregions, and calculating each index factor and parameters thereof in the calculation model of each subregion according to the Geographic National Condition Monitoring data; calculating a measured value of the condition of terrain and landforms of each subregion according to each index factor and parameters thereof, wherein the measured value of the condition of terrain and landforms is used for evaluating a habitability of each subregion in the condition of terrain and landforms. This method can make full use of the existing data.



21: 2022/13373. 22: 2022/12/09. 43: 2023/01/13
 51: A61C
 71: HEBEI RUNYUE MEDICAL DEVICE CO., LTD
 72: XING, Shuzhe, XING, Yunfei
 33: CN 31: CN202020951050.9 32: 2020-05-29
54: PNEUMATIC HANDLE AND DENTAL ELEVATOR

00: -
 A pneumatic handle and a dental elevator which relates to the technical field of medical equipment. The pneumatic handle is configured to assembly with a shank to form a dental elevator and it includes a sleeve, a locking assembly, a pneumatic assembly and an elastic control assembly. An end of the shank is installed inside of a head end of the sleeve. The locking assembly is configured to perform a position limiting on the shank. The pneumatic assembly is configured to drive the shank to telescope within the sleeve. The elastic control assembly is configured to control a strike force and a strike frequency of the shank driven by the pneumatic assembly.



21: 2022/13403. 22: 2022/12/12. 43: 2023/02/09
 51: A01G
 71: GUANGXI SUBTROPICAL CROPS RESEARCH INSTITUTE, HUNG LOC AGRICULTURAL RESEARCH CENTER
 72: LUO, Yanchun, WEI, Yundong, LI, Jun, FU, Haitian, PAN, Huan, SHI, Lanrong, SU, Wenpan, ZHAO, Ying, XU, Chuan, HUANG, Jianqi, ZHOU, Shiyi, SONG, Enliang, WEN, Feng, CHEN, Ruirui, CHEN, Jiongyu, ZHAO, Xinxin, PHAM, Thi Nhan, ZHENG, Hua, YU, Benchu, WEI, Lijun, LU, Saiqing, PAN, Zhengliang, NGUYEN, Ba Tung, VO, Van Tuan, TRUONG, Minh Hoa, ZENG, Xinhua
54: GREEN, COST-SAVING AND EFFICIENT PREVENTION AND CONTROL METHOD FOR TETRANYCHUS CINNABARINUS OF MANIHOT ESCULENTA CRANTZ

00: -
 The present invention relates to the technical field of Manihot esculenta Crantz planting, in particular to a green, cost-saving and efficient prevention and

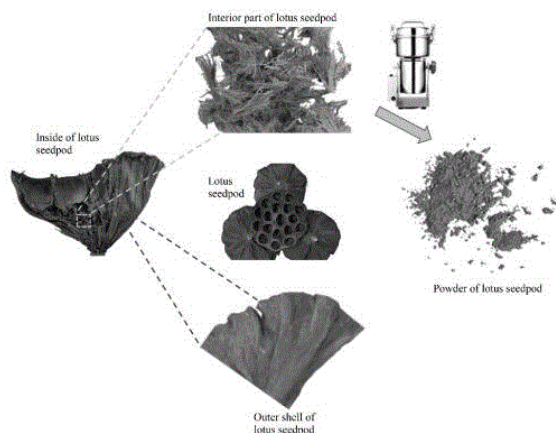
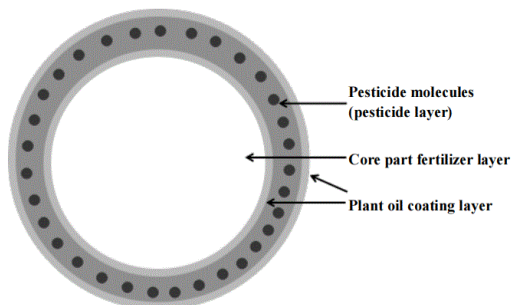
control method for Tetranychus cinnabarinus of Manihot esculenta Crantz. The method comprises the following steps: selecting a flat or relatively gentle slope with common soil fertility to ensure that the slope is located in a zone with enough sunlight; during land preparation, carrying out full tillage, deep plowing and harrowing for crushing as required, with the depth of deep plowing being 24-32 cm; and after leveling, digging planting ditches.



21: 2022/13574. 22: 2022/12/15. 43: 2023/02/09
 51: C05G
 71: Zhanjiang Research Center, Institute of Nanfan and Seed Industry, Guangdong Academy of Sciences
 72: XIE, Jiangjiang, LUO, Qingwen
 33: CN 31: 202210903323.6 32: 2022-07-29
54: COATED CONTROLLED-RELEASE PESTICIDE FERTILIZER AND PREPARATION METHOD AND APPLICATION THEREOF

00: -
 The present disclosure relates to the technical field of pesticides and fertilizers, in particular to coated controlled-release pesticide fertilizer, preparation method and application thereof. The pesticide fertilizer includes core fertilizer layer, first and second coating layers, and pesticide layer. It is of four-layer structure consisting of core fertilizer layer, first and second coating layers, and pesticide layer to separate pesticide from fertilizer without direct contact, thereby preventing fertilizer pesticide effects from being reduced by mutual reactions and improving fertilizer and pesticide effects; release rate of pesticide molecules is controlled by changing

coating material thickness of second coating layer, the quantity of micropores of the coating layers is adjusted with adjustment in use amount of pore-forming agent to control release rate of pesticide molecules to achieve precise controlled-release effect, increase utilization rate, save the use amount and achieve double reduction and efficiency improvement.



21: 2022/13576. 22: 2022/12/15. 43: 2023/02/09
 51: A61Q
 71: Anhui Polytechnic University
 72: LIANG, Ying, XU, Maodong, ZHAO, Chuang, ZHU, Zimei, WU, Fei, MA, Xingtao
54: EMULSION STABILIZED BY PURE NATURAL PARTICLE EMULSIFIER AND PREPARATION METHOD THEREFOR

00: -
 Discloses arean emulsion stabilized by a pure natural particle emulsifier and a preparation method therefor. The preparation method includes: S1, taking a dried interior part of a lotus seedpod, and smashing the dried interior part of the lotus seedpod at a high speed and screening the smashed interior part of the lotus seedpod to obtain powder particles; S2, weighing and putting the powder particles in a beaker, adding deionized water into the beaker to prepare an aqueous solution with the mass fraction of 0.5wt%, performing ultrasonic treatment on the aqueous solution, and then leaving the beaker still; and S3, putting a supernate in the beaker after still standing in a sample bottle to serve as a mother solution, mixing an oil phase with the mother solution, and then performing high speed shearing and homogenizing on the mixture with a dispersion machine to finally obtain the oil-in-water Pickering emulsion.

21: 2022/13582. 22: 2022/12/15. 43: 2023/02/09
 51: D02G
 71: Yuzhu Zhang
 72: Yuzhu Zhang

54: A PREPARATION OF VISCOSE YARN
 00: -

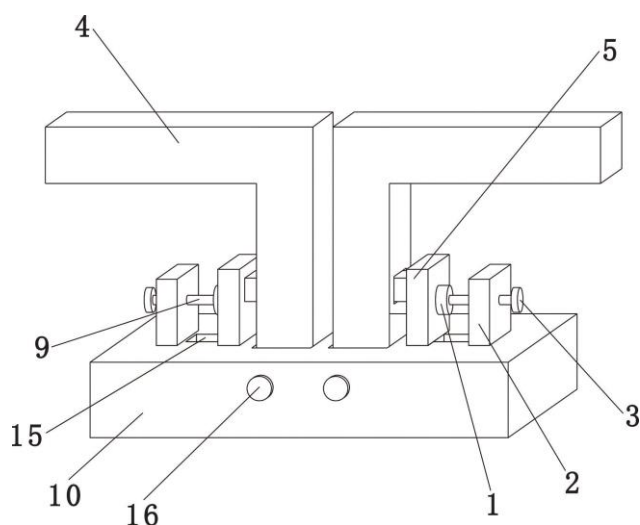
A preparation of viscose yarn is processed by the step of spinning, stitching, unhairing, spooling and dyeing respectively. The prepared viscose yarn with excellent performance provides excellent mechanical properties, especially strong tensile strength, and facilitates coloring with high color fastness, allowing dyeing with vivid dyes to achieve viscose yarn with abundant colors in conjunction with improved glossiness and vividness.

21: 2022/13583. 22: 2022/12/15. 43: 2023/02/09
 51: E04B
 71: China Railway Seventh Group CO., LTD., China Railway Seventh Engineering Bureau Group Guangzhou Engineering CO., LTD.
 72: Dandan Han, Shujian Lu, Lei Peng, Hengwei Wang, Dongyang Guo, Zhengkai Jiang
 33: CN 31: 202222589617.4 32: 2022-09-29

54: A RIGID-FRAMEWORK SUPPORT CONNECTING FRAME

00: -
 A rigid-framework support connecting frame relates to the rigid-framework field. Each end of two rigid-framework supports (4) is inserted into two slots (12) respectively, a moving plate (5) is provided between two fixed plates (2) and two rigid-framework supports (4), and a guiding groove (15) is provided on the top of the bottom plate (10) between two fixed plates (2) and two rigid-framework supports (4). The top of the

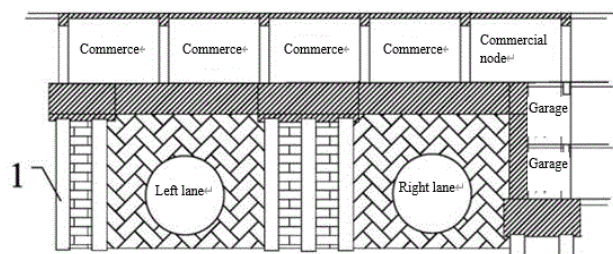
two sets of sleeve ring (14) and the bottom of the two moving plates (5) are fixed, and the two bulge block (7) are located in the two slot positions (6); The invention can connect two rigid-framework supports through two slots on the surface of the bottom plate, and then control the activity of the moving plate through the fixing plate, the knob, the rotating sleeve, the rotating disk and the rotating screw, and then connect and fix the rigid-framework supports through the clamping slot and the bulge block, so as to solve the problem of unstable connection and achieve the purpose of improving the firmness of connection.



21: 2022/13591. 22: 2022/12/15. 43: 2023/02/09
 51: A23K
 71: Tianshui animal husbandry technology popularizing station
 72: Lin MengMeng, Liu Yu, Ma Ping, Zheng AiHua, He ZhenGang, Liu XiaoLi, Zhang YanLi, Zhang Tao
54: LOW-PROTEIN RATION AS FEED FOR PIGS AND PREPARATION METHOD THEREOF
 00: -
 The invention provides a low-protein ration as feed for pigs, which comprises the following components in percentage by weight: 40-45 percent of fermented product of hybrid *Broussonetia papyrifera*, 45-50 percent of corn, 5-6 percent of soybean meal, 2-9 percent of bran and 1 percent of molasses. The invention also provides a preparation method and application of the feed. The feed of the invention can improve the quality of pork and the immunity of pigs; meanwhile, the preparation method of the feed of the invention is simple, and the raw materials are cheap and easily available.

21: 2022/13592. 22: 2022/12/15. 43: 2023/02/09
 51: E21D
 71: China Railway Eighteen Bureau Group Co., Ltd., The Third Engineering Co., Ltd. of China Railway Eighteen Bureau Group, CRCC Huanghe Investment and Construction Co., Ltd.
 72: Faqing Wen, Liya Yan, Songtao Liu, Qingbin Li, Zhaohui Wang, Jun Hu, Baojun Zhou
54: REINFORCEMENT METHOD OF SHALLOW OVERBURDEN SHIELD TUNNEL BASED ON WEAK STRATUM

00: -
 The invention discloses a reinforcement method for shallow overburden shield tunnel based on weak stratum, which comprises the following steps: S1. The stratum is reinforced by the triple-pipe high-pressure rotary jet grouting pile, and the reinforcement range is 2m above and below the tunnel section and 2m on the left and right sides. S2. In the tunnel reinforcement, the shield tunneling adopts the segment with increased grouting hole in the shallow overburden stratum, and the shield tunneling mode adopts the soil pressure balance tunneling and ensures sufficient synchronous grouting. After the segment comes out of the shield tail, double slurry is injected twice in time to further improve the stability of the segment. In the equipment bridge section or the position after the segment comes out of the shield tail, the hollow grouting bolt is used to reinforce the tunnel by deep hole grouting along the hoisting hole or grouting hole. The invention adopts the reinforcement method of shallow overburden shield tunnel based on weak stratum, which can solve the floating problem of formed shield tunnel in weak shallow overburden stratum, and provide guarantee for the safe operation of subway train.



21: 2022/13597. 22: 2022/12/15. 43: 2023/02/09
 51: A01N; C07D; A01P
 71: NANTONG UNIVERSITY

72: DAI, Hong, ZHENG, Dandan, MIAO, Heyi
33: CN 31: 202010622844.5 32: 2020-07-01

54: PREPARATION METHOD FOR AND APPLICATION OF PYRAZOLE ACYLHYDRAZONE CONTAINING TRIFLUOROMETHYL THIADIAZOLE UNIT

00: -

The present invention relates to the technical field of chemical pesticides, and provides a preparation method for and an application of pyrazole acylhydrazone containing a trifluoromethyl thiadiazole unit. The pyrazole acylhydrazone containing a trifluoromethyl thiadiazole unit provided by the present invention is obtained by condensation of trifluoromethyl thiadiazole hydrazide and pyrazole aldehyde. The pyrazole acylhydrazone containing a trifluoromethyl thiadiazole unit has excellent control effect on plant pathogenic bacteria, and the compound can be used for preparing bactericides in the fields of agriculture, horticulture, and the like.

21: 2022/13786. 22: 2022/12/20. 43: 2023/02/09
51: A47G; E05G

71: BROWN, Troger Johnny Malcolm

72: BROWN, Troger Johnny Malcolm

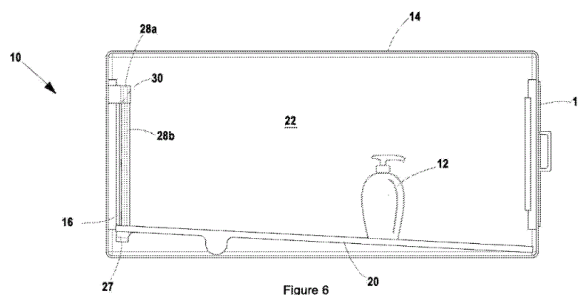
33: ZA 31: 2020/03736 32: 2020-06-22

54: CONTAINER FOR RECEIVING DELIVERIES

00: -

Container (10) for receiving deliveries includes: a housing (14); a first door (16); a floor panel (20) within the chamber (22); and a lock. The housing (14) defines: a chamber (22); an inlet (24) to the chamber (22); and an outlet (26) to the chamber (22). The first door (16) is hingedly connected to the housing (14), to regulate access to the housing chamber (22) via the inlet (24). The floor panel (20) is hingedly connected to the housing (14) so as to be angularly displaceable relative to the housing (14) between: a first condition towards which the floor panel (20) is biased; and a second condition. The lock locks the first door (16) in a closed condition, wherein the door (16) inhibits access to the housing chamber (22) via the inlet (24). The lock includes: a first component (28a) that is disposed on the first door (16); and a second component (28b) that is associated with the floor panel (20) such that the second component (28b) moves in sympathy with the floor panel (20). The second component (28b) of the lock engages the first component (28a) of the lock to retain the first door (16) in the closed

condition when the floor panel (20) is in the second condition, and the second component (28b) of the lock disengages the first component (28a) of the lock to permit movement of the first door (16) from the closed condition towards an open condition wherein the door (16) permits access to the chamber (22) via the inlet (24), when the panel (20) is in the first condition.



21: 2022/13804. 22: 2022/12/21. 43: 2023/02/10
51: B01D

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

72: SONG, Zhongxian, HUANG, Zhenzhen, MAO, Yanli, ZHANG, Jinhui, LI, Ka, ZHU, Xinfeng, YAN, Xiaole, WANG, Kai, JIANG, Libin, GENG, Hongchao, KANG, Haiyan, LIU, Biao, YAN, Xu, GU, Deming, ZHANG, Xia, PANG, Dandan, LI, Jiebing, FU, Yongmei, LIU, Pan, GUO, Yifei, ZHAI, Daning, HUANG, Qiaoyang, DONG, Danyan, QU, Zhichao

54: HETEROPOLYACID/CEO₂-BASED CATALYST FOR LOW-TEMPERATURE DENITRATION AND REMOVAL OF Hg⁰ AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention discloses a preparation method for a heteropolyacid/CeO₂-based catalyst for low-temperature denitration and removal of Hg⁰. The preparation method comprises the following steps: (1) dissolving 1-10 mmol of cerium salt and 0.1-1.0 mmol of heteropolyacid in 10-100 mL of a solution, and stirring uniformly to obtain a heteropolyacid modified cerium salt precursor solution; (2) transferring the heteropolyacid modified cerium salt precursor solution into a hydrothermal reactor for hydrothermal reaction; (3) washing, filtering and drying the product obtained after the hydrothermal reaction in the step (2); and (4) putting the dried solid in a muffle furnace for high-

temperature calcination to obtain the heteropolyacid/CeO₂-based catalyst.

21: 2022/13804. 22: 2022/12/21. 43: 2023/02/10
51: B01D

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

72: SONG, Zhongxian, HUANG, Zhenzhen, MAO, Yanli, ZHANG, Jinhui, LI, Ka, ZHU, Xinfeng, YAN, Xiaole, WANG, Kai, JIANG, Libin, GENG, Hongchao, KANG, Haiyan, LIU, Biao, YAN, Xu, GU, Deming, ZHANG, Xia, PANG, Dandan, LI, Jiebing, FU, Yongmei, LIU, Pan, GUO, Yifei, ZHAI, Daning, HUANG, Qiaoyang, DONG, Danyan, QU, Zhichao

54: HETEROPOLYACID/CEO₂-BASED CATALYST FOR LOW-TEMPERATURE DENITRATION AND REMOVAL OF HgO AND PREPARATION METHOD AND APPLICATION THEREOF

00: -
The present invention discloses a preparation method for a heteropolyacid/CeO₂-based catalyst for low-temperature denitration and removal of HgO. The preparation method comprises the following steps: (1) dissolving 1-10 mmol of cerium salt and 0.1-1.0 mmol of heteropolyacid in 10-100 mL of a solution, and stirring uniformly to obtain a heteropolyacid modified cerium salt precursor solution; (2) transferring the heteropolyacid modified cerium salt precursor solution into a hydrothermal reactor for hydrothermal reaction; (3) washing, filtering and drying the product obtained after the hydrothermal reaction in the step (2); and (4) putting the dried solid in a muffle furnace for high-temperature calcination to obtain the heteropolyacid/CeO₂-based catalyst.

21: 2022/13832. 22: 2022/12/21. 43: 2023/02/10
51: E04B

71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

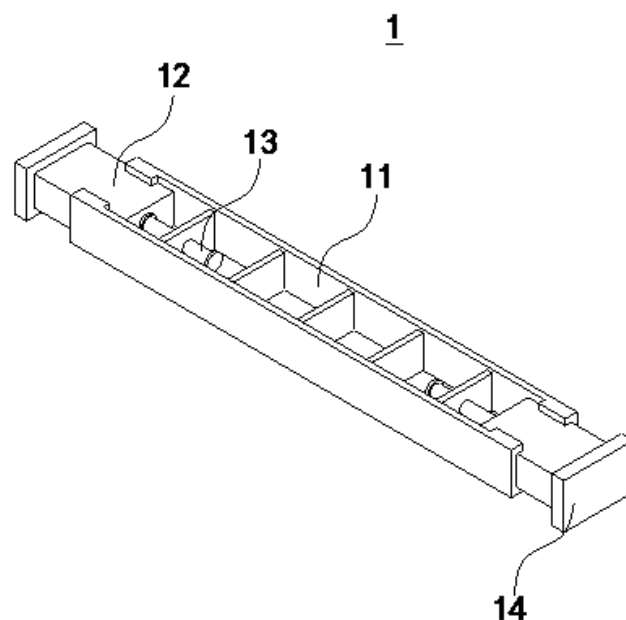
72: Guipeng LIN, Yugui LI, Xiaosheng LUO, Weiyi ZHANG

33: CN 31: 202210730842.7 32: 2022-06-24

54: A CONSTRUCTION METHOD FOR COMPLEX FOUNDATION PIT SUPPORT

00: -

Aspects of the disclosure provide a construction method for complex foundation pit support. The method comprises the following steps: constructing steel sheet piles, wherein Larsen steel sheet piles are inserted by vibrating and beating, and the Larsen steel sheet piles are closely interlocked to ensure the smooth closing thereof; constructing crown beams to fix the crown beams on the inner side of the completed Larsen steel sheet piles; constructing support piles, wherein a support pile includes a main beam and a length adjustment beam arranged at one end of the main beam, the support piles are hoisted between the crown beams, and the overall length of the support pile is adjusted through the length adjustment beam until the support pile is capable of fully supporting the crown beams; disassembling the support piles, wherein the length adjustment beam is adjusted to shorten the overall length of the support piles, and the removal of the support piles is completed; removing the crown beams; and pulling out the steel sheet piles by using a vibratory hammer, to complete the pile pulling of the Larsen steel sheet piles.

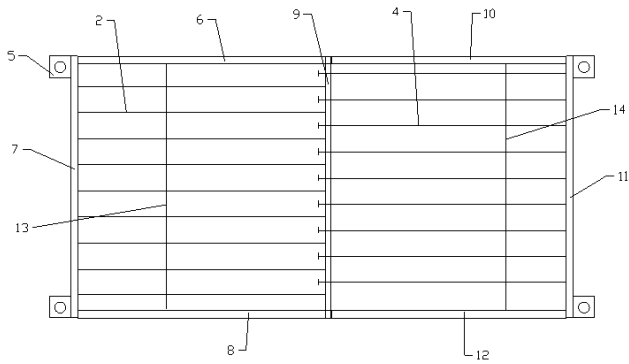


21: 2022/13833. 22: 2022/12/21. 43: 2023/02/09
51: E04B

71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA

CONSTRUCTION SECOND ENGINEERING BUREAU
 72: Zhongshu GONG, Xiaoyan LIU, Juncheng LI, Yunrui JIANG, Xiaoya JIANG, Jiaxing LU, Mingsheng JIA
 33: CN 31: 202210443523.8 32: 2022-04-25
54: A PROTECTIVE DEVICE AND ASSEMBLING METHOD

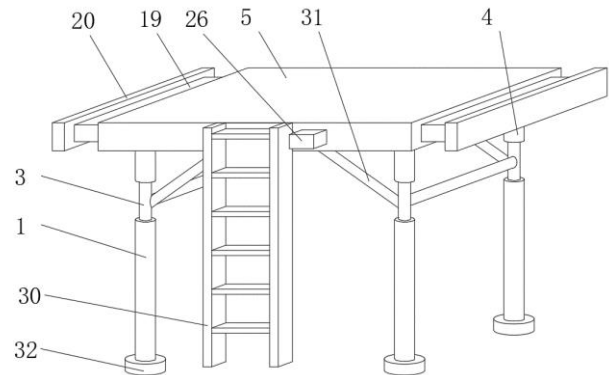
00: -
 Aspects of the disclosure provide a protective device which comprises a main frame provided with a plurality of first beams at intervals a height direction, and the main frame respectively comprises a first side surface and a second side surface on two axial sides of the first beams; a subframe, arranged on the second side surface of the main frame, and the subframe slidably arranged on the main frame in the axial direction of the first beam; a second beam, with one end of the second beam passing through the second side surface along its own axis direction, and the other end of the second beam fixed to the subframe connection; and at least two sets of installation assemblies, wherein one set of installation assemblies set on the first side surface of the main frame, and the other set of installation assemblies set on the side of the subframe away from the main frame.



21: 2022/13834. 22: 2022/12/21. 43: 2023/02/10
 51: E04B
 71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
 72: Minghe XUE, Lihuan WANG, Xiaosheng LUO, Yu YANG, Jindeng LIAO
 33: CN 31: 202221509081.4 32: 2022-06-15

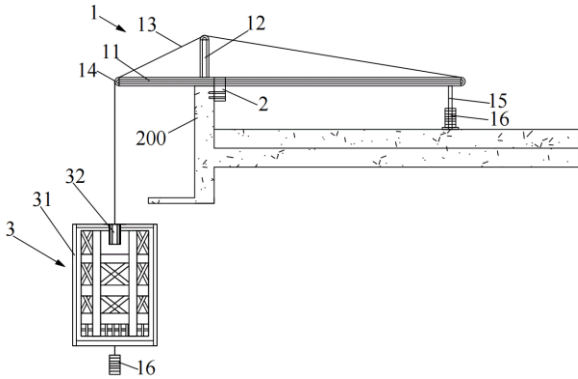
54: A HEIGHT-ADJUSTABLE CONSTRUCTION SUPPORTING FRAME

00: -
 Aspects of the disclosure provide a height-adjustable construction supporting frame. The height-adjustable construction supporting frame comprises four vertical blocks, the top of the vertical block is provided with an adjustment groove, a lifting block is slidably installed inside the adjustment groove, and the top of the lifting block extends to the outside of the adjustment groove, and a connecting block is fixedly installed on the top of the lifting block. The top of the connecting block is fixedly installed with the same supporting platform, and the lifting block is provided with an adjustment mechanism.



21: 2022/13835. 22: 2022/12/21. 43: 2023/02/10
 51: E04B
 71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
 72: Xiaosheng LUO, Jing LI, Ce WANG, Ye LI, Jiawei GU
 33: CN 31: 202221344752.6 32: 2022-05-30
54: A HANGING BASKET FOR BUILDING CONSTRUCTION

00: -
 Aspects of the disclosure provide a hanging basket for building construction, which is used to be installed on a parapet wall. The hanging basket includes: a supporting assembly arranged above the parapet; a connecting assembly, wherein two ends of the connecting assembly are respectively fixedly connected to the supporting assembly and the parapet; and a construction platform connected with the supporting assembly.

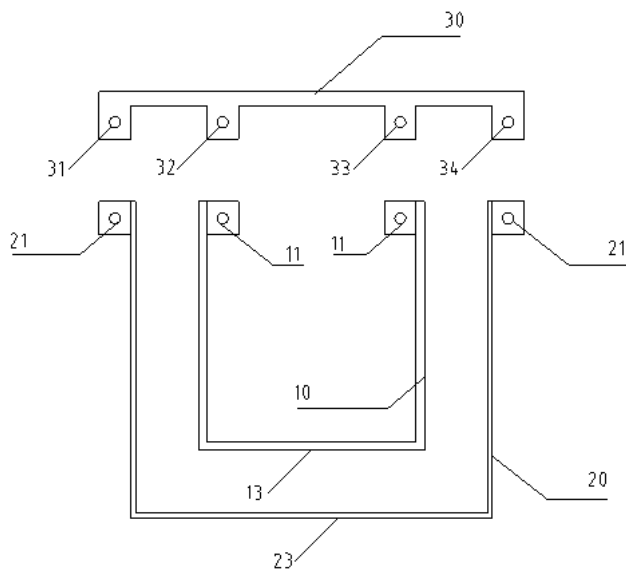


21: 2022/13836. 22: 2022/12/21. 43: 2023/02/10
 51: E04B
 71: China Construction Second Engineering Bureau
 Shenzhen Construction Investment Development
 Co., Ltd., THE FIRST CONSTRUCTION
 ENGINEERING COMPANY LTD. OF CHINA
 CONSTRUCTION SECOND ENGINEERING
 BUREAU

72: Weiguang SHI, Li AN, Xiaosheng LUO, Quan
 QUAN, Qilei ZHOU, Jianghan WANG, Ruixing SHI,
 Chao DU, Kunpeng ZHOU
 33: CN 31: 202221045383.0 32: 2022-04-29

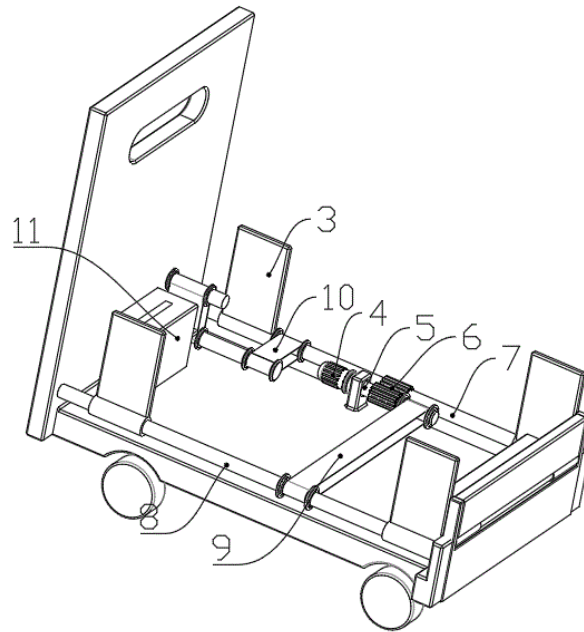
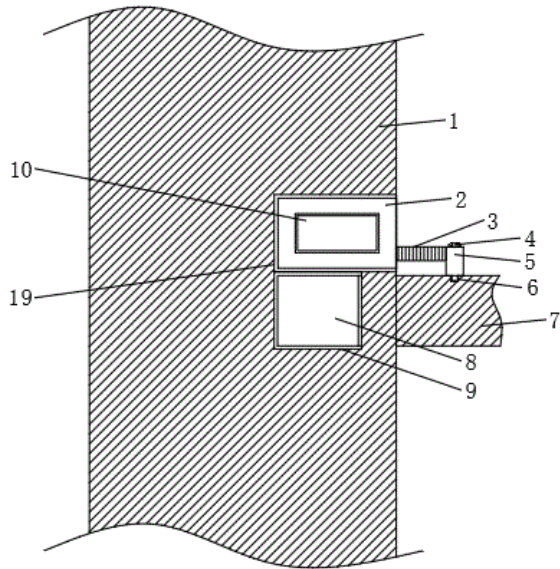
54: A PIPE NETWORK INSPECTION WELL MOLD
 00: -

Aspects of the disclosure provide a pipe network
 inspection well mold, comprising: an inner well mold,
 an outer well mold and a connecting hanging rod,
 the inner well mold is suspended in the outer well
 mold; both the inner well mold and the outer well
 mold are connected to the connecting rod and fixed
 by the connecting rod.



21: 2022/13837. 22: 2022/12/21. 43: 2023/02/10
 51: E04B
 71: China Construction Second Engineering Bureau
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 Co., Ltd., THE FIRST CONSTRUCTION
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 BUREAU
 72: Sheng ZHAN, Yaxun GOU, Xiaoyan LIU, Bo LV,
 Qiming ZENG
 33: CN 31: 202210905860.4 32: 2022-07-29
54: A FABRICATED MEMBER FOR BUILDINGS
 00: -

Aspects of the disclosure provide a fabricated
 member. The fabricated member comprises a
 prefabricated wall (1), a right end face of the
 prefabricated wall (1) is provided with a first
 rectangular slot (19), the inner wall of the first
 rectangular slot (19) is symmetrically provided with a
 limit slot (20), the inner bottom wall of the first
 rectangular slot (19) is provided with an installation
 slot (9) and a second rectangular slot (21), and the
 interior of the installation slot (9) is provided with an
 adaptive installation block (8), the right end face of
 the installation block (8) is fixedly connected with a
 prefabricated beam (7), the interior of the first
 rectangular slot (19) is provided with a fixed box (2),
 the interior of the fixed box (2) is rotationally
 connected with a rotating rod (17), the exterior of the
 rotating rod (17) is fixedly connected with a gear
 (13), and the left and right sides of the gear (13) are
 respectively provided with a third rack plate (14) and
 a second rack plate (12).



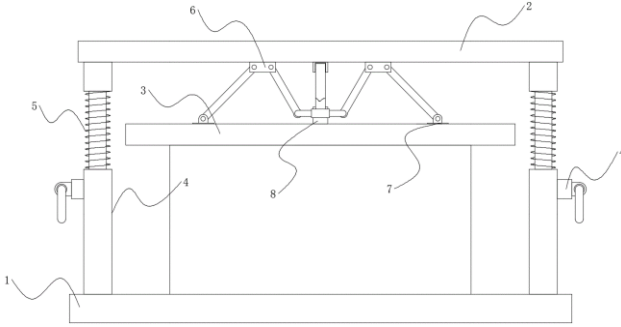
21: 2022/13838. 22: 2022/12/21. 43: 2023/02/10
 51: E04B
 71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
 72: Junhong HE, Han ZHANG, Qingsong OU, Jing LI, Pengfei LI, Liying SHANG, Zhongmao WU, Chao CHEN

33: CN 31: 202221652389.4 32: 2022-06-28
54: A TRANSPORTATION DEVICE USED IN A HOSPITAL BUILDING CONSTRUCTION SITE
 00: -
 Aspects of the disclosure provide a transportation device used in a hospital building construction site, comprising: a support structure for walking on; a transport box, arranged on the support structure and being capable of rotating relative to the support structure; a lifting mechanism, arranged on the support structure, comprising at least one movable support and a lifting assembly arranged in linkage; a driving member connected with the movable support and the lifting assembly, being used to drive the movable support to rotate and contact the ground, so that the support structure is separated from ground. The lifting assembly drives the transport box to rotate when the movable support moves.

21: 2022/13840. 22: 2022/12/21. 43: 2023/02/10
 51: E04B
 71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
 72: Xiaosheng LUO, Jing LI, Ce WANG, Ye LI, Jiawei GU

33: CN 31: 202221232335.2 32: 2022-05-19
54: A SUPPORT DEVICE WITH A BUFFER PROTECTION MECHANISM
 00: -
 Aspects of the disclosure provide a support device with a buffer protection mechanism. The support device comprises a base, a support plate and a bottom plate. The bottom plate is fixedly connected to the base, and the support plate is connected with the base through an adjustment mechanism. The support device also includes: a buffer protection mechanism connected with the base and the support plate, and is used for buffering and supporting the support plate, the buffer protection mechanism includes a support frame, a push assembly and a buffer assembly, the support frame is screwed to the column fixedly connected to the bottom plate. The push assembly includes a support rod B, a hinge seat, a slider B and a support rod C, both the support rod B and the support rod C are rotatably connected to the hinge seat, the support rod C is

rotatably connected to the support frame, and the hinge seat is fixedly connected with the slider B, and the slider B is slidingly matched with a slot A on the support plate, and the support rod B is connected with the bottom plate through the buffer assembly.



21: 2022/13841. 22: 2022/12/21. 43: 2023/02/10
51: E04B

71: China Construction Second Engineering Bureau
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CONSTRUCTION SECOND ENGINEERING
BUREAU

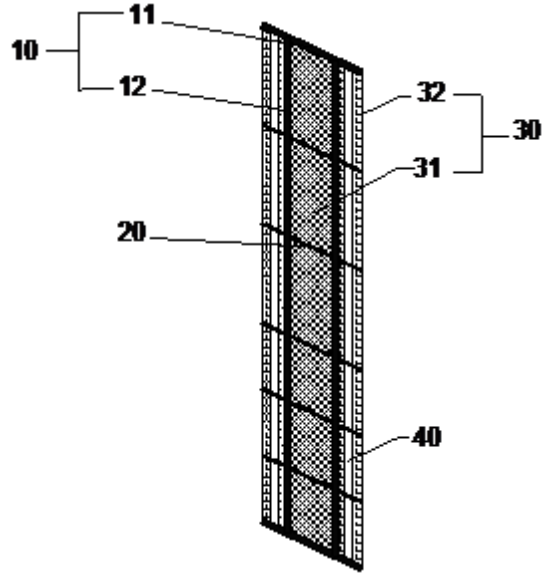
72: Lin LIU, Liu YAN, Ruifu Meng, Jing LI

33: CN 31: 202221039009.X 32: 2022-04-28

54: AN INTERCEPTING DEVICE FOR CONCRETE WITH HIGH AND LOW MARKINGS

00: -

Aspects of the disclosure provide an intercepting device for concrete with high and low markings applied in a pouring system of walls. The intercepting device for concrete with high and low markings comprises: a main keel device, a secondary keel device and an intercepting net device; the main keel device comprises a transverse main keel device and a longitudinal main keel device; the transverse main keel device is respectively connected with the longitudinal main keel device and the intercepting net device; the secondary keel device is respectively connected with the longitudinal main keel device and the intercepting net, and is parallel to the main keel device. Wherein the length of the transverse main keel device and the secondary keel device is the same as the width of the wall, and the height of the longitudinal main keel device is the same as that of the wall.



21: 2022/13842. 22: 2022/12/21. 43: 2023/02/10
51: E04B

71: China Construction Second Engineering Bureau
Shenzhen Construction Investment Development
Co., Ltd., THE FIRST CONSTRUCTION
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BUREAU

72: Zhen LIU, Quanbing HUANG, Jing LI, Cong XIA,
Xiaoya JIANG

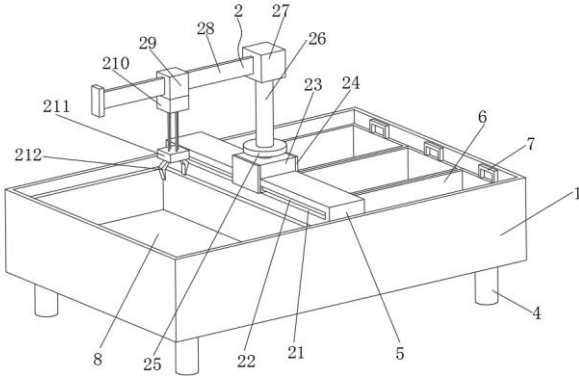
33: CN 31: 202221345277.4 32: 2022-05-31

54: A SORTING DEVICE FOR CONSTRUCTION WASTE

00: -

Aspects of the disclosure provide a sorting device for construction waste. The sorting device comprises a device main body (1). A bottom of the device main body (1) is fixedly connected with a support leg (4), the inside of the device main body (1) is fixedly connected to a middle plate (5), and the top of the middle plate (5) is provided with a movable sorting device (2). A sieve (8) is installed inside the device main body (1), the bottom of the sieve (8) is provided with a vibrating device (3), a waste sorting box (6) is movably installed inside the device main body (1), and the top of the waste sorting box (6) is fixedly connected with a hoisting ring (7). The movable sorting device (2) includes a moving block (23), an L-shaped block (24) is fixedly connected to both sides of the moving block (23), and the top of the L-shaped block (24) is movably connected to a rotating plate (25), the top of the rotating plate (25) is

fixedly connected with a support rod (26), the top of the support rod (26) is fixedly connected with a rotating block (27), both sides of the middle plate (5) are provided with a chute (21), and the inside of the chute (21) is movably connected with a threaded rod (22).



21: 2022/13843. 22: 2022/12/21. 43: 2023/02/10
51: E04B
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.

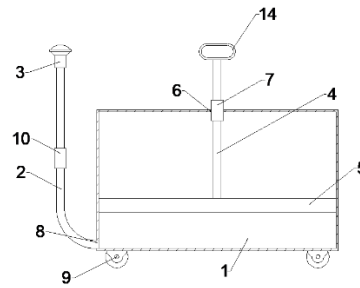
72: Peng LI, Mingyang LI, Xiaosheng LUO, Baihui SU, Xingmei CHEN, Jiawei CHENG, Jie LU, Peng ZHANG, Dongqiang HUANG

33: CN 31: 202220958804.2 32: 2022-04-24

54: A DEVICE FOR SPRAYING DUST AND REDUCING TEMPERATURE ON A CONSTRUCTION WORK SURFACE

00: -

Aspects of the disclosure provide a device for spraying dust and reducing temperature on a construction work surface, characterized in that the device includes a liquid storage tank (1), a water spray pipe (2), a spray head (3), a push rod (4) and a piston (5), one end of the water spray pipe (2) communicates with the liquid storage tank (1), the spray head (3) is detachably connected with the other end of the water spray pipe (2), and the piston (5) is set in the liquid storage tank (1), the push rod (4) extends from the outside of the liquid storage tank (1) to the inside and is connected to the piston (5).



21: 2022/13844. 22: 2022/12/21. 43: 2023/02/10
51: E04B

71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: Panyin TIAN, Xiaoyan LIU, Jing LI, Xin LI, Yajun ZHAO, Haolin RONG, Yujin ZHENG

33: CN 31: 202211156974.X 32: 2022-09-21

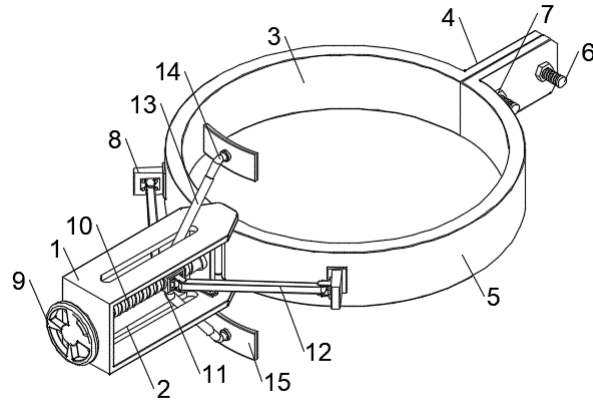
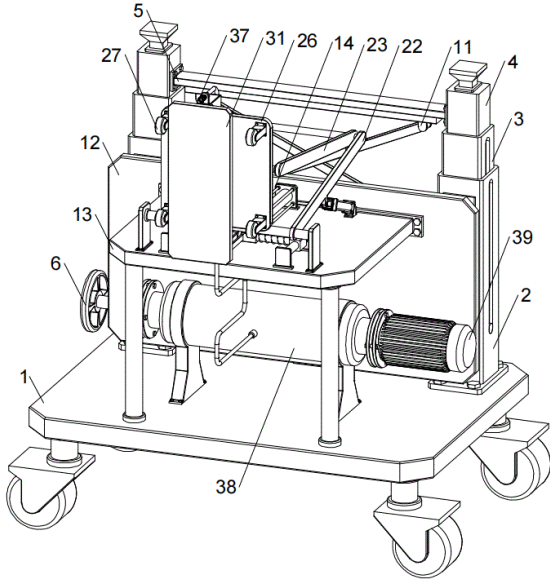
54: A METHOD FOR CONSTRUCTING JOINTED DRAINPIPES ON PREFABRICATED EXTERIOR WALLS OF PREFABRICATED CONCRETE BUILDINGS

00: -

Aspects of the disclosure provide a method for constructing jointed drainpipes on prefabricated exterior walls of prefabricated concrete buildings. The method includes the following steps: step 1: confirming flatness of the wall and clean up a seam to prevent scrap residues in the gaps from causing the waterproof effect to deteriorate; step 2: filling the seam with cushioning materials, and pasting masking paper on the walls on both sides of the seam, wherein the cushioning materials at the bottom are arranged in an inclined and inverted L shape, and cushioning materials at the top are vertically shaped setting, at least one guide pipe required for drainage is placed in the gap between the cushioning materials, and closely attached to the cushioning materials; step 3: placing glue in a glue distribution device, and use the glue distribution device to glue the seam from bottom to top, and during the glue distribution process, the glue distribution device is capable of carrying out the glue smoothing process until the glue distribution is

completed; step 4: tearing off the masking paper and cleaning the wall after the glue being hardened.

the clamping plate to move via the support assembly.



21: 2022/13845. 22: 2022/12/21. 43: 2023/02/10
51: E04B
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: Weihao YAO, Delin ZHOU, Xiaoyan LIU, Jing LI, Junyan CHEN, Qiang YUAN, Kun GAO, Mingsheng JIA, Xin LIU, Yueyu JIANG, Jiayu WANG
33: CN 31: 202222747354.5 32: 2022-10-18
54: A LARGE-DIAMETER CIRCULAR COLUMN HOOP OF A TOWER CRANE
00: -

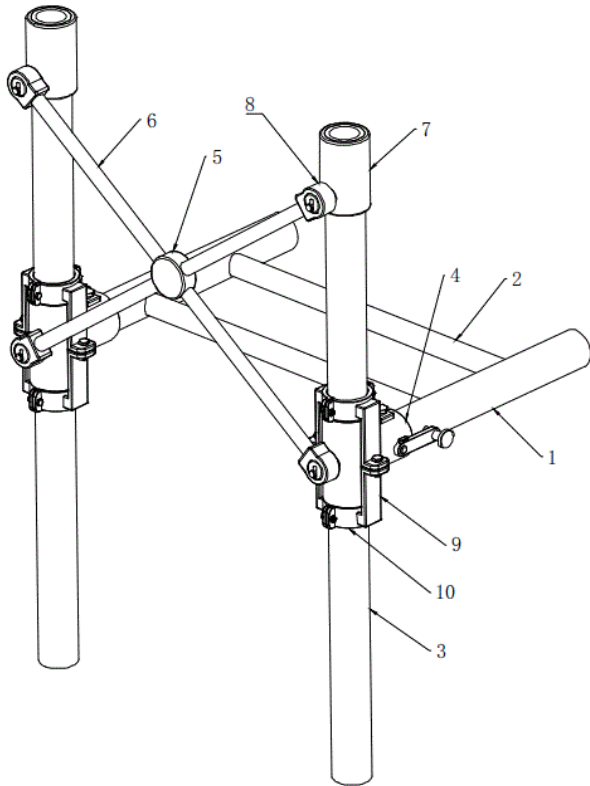
Aspects of the disclosure provide a large-diameter circular column hoop of a tower crane. The hoop comprises: a support plate provided with a through groove; a buckle mechanism and an adjustment mechanism connected to the buckle mechanism being provided on the support plate, wherein the buckle mechanism is movable when the adjustment mechanism is moved, and capable of fastening a desired object; a support mechanism, provided on the support plate and connected to the adjustment mechanism, wherein the support mechanism includes a support assembly and a clamping plate, and the adjustment mechanism capable of driving

21: 2022/13846. 22: 2022/12/21. 43: 2023/02/10
51: E04B

71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: Weihao YAO, Delin ZHOU, Xiaoyan LIU, Jing LI, Junyan CHEN, Qiang YUAN, Kun GAO, Mingsheng JIA, Xin LIU, Yueyu JIANG, Jiayu WANG
33: CN 31: 202211275832.5 32: 2022-10-18
54: A REINFORCEMENT DEVICE USED IN A CANTILEVERED SCAFFOLD
00: -

Aspects of the disclosure provide a reinforcement device used in a cantilevered scaffold. The reinforcement device includes: multiple horizontal pipes, and multiple connecting tubes fixedly installed between each two adjacent horizontal pipes, and a plurality of vertical pipes provided on one side of the horizontal pipes). Two of the vertical pipes are arranged oppositely, and one side of the horizontal pipe is fixedly installed with a fixing assembly for fixing the two vertical pipes, through which the two vertical pipes are prevented from swaying back and forth. A stretching assembly is installed on the horizontal pipe, through which the fixing assembly on one side thereof is stretched thereby, so that the fixing assembly is fixed on the horizontal pipe. A sleeve is sleeved on the vertical pipe, and a cross-stabilization assembly is installed between the

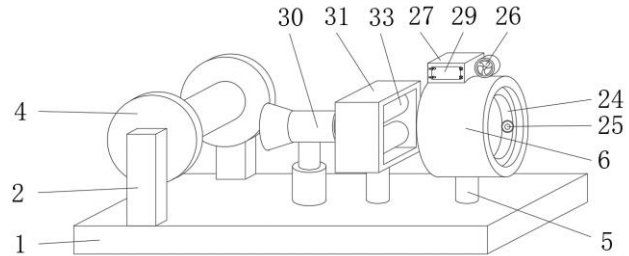
sleeve and the fixing assembly, through which the two vertical pipes stay unshaking from side to side.



21: 2022/13847. 22: 2022/12/21. 43: 2023/02/10
 51: E04B
 71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
 72: He HUANG, Yanbo FENG, Jing LI, Yanxin JIAN, Fengxiang LIU, Nianduo SONG, Zheng XU, Wei ZHU, Lei YANG, Chuangdong MA
 33: CN 31: 202221380066.4 32: 2022-06-02
54: A THREADING CONSTRUCTION DEVICE FOR ELECTRICAL ENGINEERING

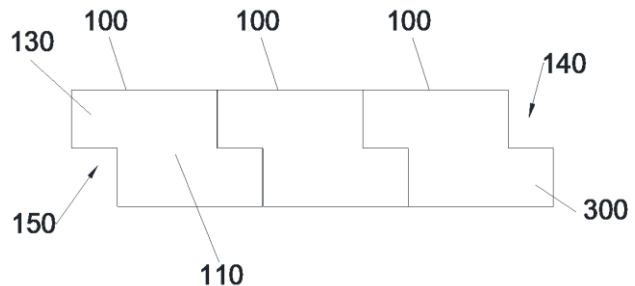
00: -
 Aspects of the disclosure provide a threading construction device for electrical engineering, including a placing base (1), characterized in that two mounting plates (2) are fixedly installed on the top of the placing base (1), a first rotating shaft (3) is rotatably installed between the two mounting plates (2), a winding roller (4) is fixedly installed on the first

rotating shaft (3), a pole (5) is fixedly installed on the top of the placing base (1), a ring block (6) is fixed on the top of the pole (5), and four cleaning mechanisms are arranged on the ring block (6).



21: 2022/13848. 22: 2022/12/21. 43: 2023/02/10
 51: E04B
 71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
 72: Yanbo FENG, Bohan YANG, Zhengkai XU, Jing LI, Heng WANG, Xiangxing ZHANG, Xiang WU, Xuanlang TANG
 33: CN 31: 202221012222.1 32: 2022-04-27
54: A SPLICING GUIDE WALL

00: -
 Aspects of the disclosure provide a spliced guide wall, which comprises a plurality of splicing pieces arranged in sequence. Each splicing piece includes a main body, a first connecting portion and a second connecting portion. Wherein, starting from the second splicing piece, the second connecting portion of the former splicing piece is detachably connected to the first connecting portion of the latter splicing piece.



21: 2022/13920. 22: 2022/12/22. 43: 2023/02/10
 51: A01K
 71: INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NORTHEAST INSTITUTE OF

GEOGRAPHY AND AGROECOLOGY, CHINESE ACADEMY OF SCIENCES

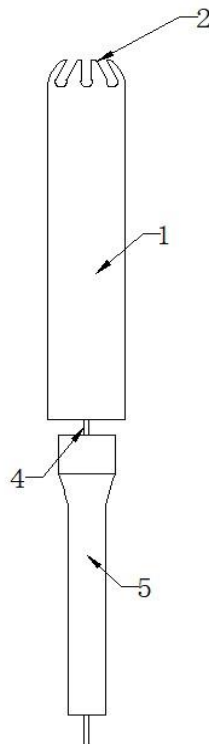
72: LI, ZHONGQIU, LIU, CHUNLONG, SUN, JINYAN, WU, XIN, ZHOU, KAI, BAO, TONGTONG, ZHANG, DONGJIE, PENG, FUGANG, HE, XINMIAO, WANG, WENTAO, WU, SAIHUI, TIAN, MING, LI, MIAO, LIU, DI

54: METHOD FOR INCREASING ARG CONTENT IN SERUM OF WEANED PIGLETS

00: -

The present invention provides a method for increasing Arg content in serum of weaned piglets and relates to a feeding method. The purpose of the present invention is to solve the problem that the Arg content in the serum of the weaned piglets is decreased during feeding, which leads to the reduction of production performance. Under the condition that piglet feedstuff is prepared with reference to NRC (1998) Nutrient Requirements of Swine, feeding density of the weaned piglets is reasonably adjusted, so that the amino acid utilization efficiency in the nitrogen-containing feedstuff for the weaned piglets is increased; the Arg content in the serum is increased; fighting times and occurrence of a diarrhea rate of the weaned piglets are reduced; and the production performance is improved.

penetrates through the cavity and extends to a lower end of the push rod. The apparatus is small in size, hygienic, and can be wrapped individually. When the apparatus is arranged in bodies of sheep flock, the operation is simple, and no sore irritation may be caused.



21: 2023/00175. 22: 2023/01/03. 43: 2023/01/25
51: A61D

71: INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, LIU YUFENG

72: LIU YUFENG

54: INTRAVAGINAL COTTON TAMPON APPARATUS FOR OESTRUS SYNCHRONIZATION OF SHEEP AND PREPARATION PROCESS

00: -

The present invention belongs to the technical field of animal husbandry, and specifically relates to an intravaginal cotton tampon apparatus for oestrus synchronization of sheep and preparation process. The apparatus includes an outer plastic casing pipe; an upper side wall of the outer plastic casing pipe is provided with a pattern through hole; a cotton core is slidably arranged inside the outer plastic casing pipe; a rear side wall of the core is fixedly provided with a cotton thread; a push rod is slidably arranged inside the outer plastic casing pipe; a cavity is arranged inside the push rod; and the cotton thread

21: 2023/00178. 22: 2023/01/03. 43: 2023/01/25
51: A23K

71: SOUTH CHINA AGRICULTURAL UNIVERSITY
72: LI, Yuanyou, MA, Yongcai, XIE, Dizhi, XU, Chao

54: COMPOUND FEED FOR YOUNG FISH OF TRACHINOTUS OVATUS CAPABLE OF EFFICIENTLY SUBSTITUTING FISH MEAL BY ANIMAL AND PLANT COMPOUND PROTEIN

00: -

A compound feed for young fish of *Trachinotus ovatus* capable of efficiently substituting fish meal by animal and plant compound protein is composed of fish meal, animal and plant compound protein, fat, tapioca starch, soybean lecithin, choline chloride, a vitamin premix, a mineral premix, ethoxyquin, calcium dihydrogen phosphate, betaine, microcrystalline cellulose, L-lysine, DL-methionine and DL-arginine. The animal and plant compound protein is composed of at least two of chicken powder, soybean protein concentrate, corn protein

powder, fermented soybean meal, peanut meal and meat and bone meal, at least one of animal protein and at least one of plant protein; weight percentages of the feed are: 16-20% fish meal, 44-48% animal and plant compound protein, 8-12% fat, 7-11% tapioca starch, 0.2-1% soybean lecithin, 0.2-1% choline chloride, 1-2% vitamin premix, 1-2% mineral premix, 0.02-0.04% ethoxyquin, 0.2-0.4% calcium dihydrogen phosphate, 0.2-0.4% betaine, 7.05-17% microcrystalline cellulose, 0.2-0.5% L-lysine, 0.2-0.5% DL-methionine and 0.2-0.5% DL-arginine

21: 2023/00179. 22: 2023/01/03. 43: 2023/01/25

51: A23K

71: SOUTH CHINA AGRICULTURAL UNIVERSITY

72: LI, Yuanyou, XIE, Dizhi, MA, Yongcai, ZHANG, Guanrong

54: FEED ADDITIVE CAPABLE OF EFFECTIVELY IMPROVING SUBSTITUTION RATIO OF FISH MEAL IN COMPOUND FEED OF TRACHINOTUS OVATUS

00: -

The present invention discloses a feed additive capable of effectively improving a substitution ratio of fish meal in compound feed of *Trachinotus ovatus*, and is composed of L-lysine, DL-methionine, DL-arginine, taurine and microcrystalline cellulose. Weight percentages of the additive are: 15-20% of L-lysine, 15-20% of DL-methionine, 15-20% of DL-arginine, 15-30% of taurine and 10-40% of microcrystalline cellulose. Weight percentages of the low-fish-meal compound feed are: 6% of fish meal, 68.66% of animal and plant compound protein, 15% of fat, 5% of high-gluten flour, 0.25% of choline chloride, 1% of a vitamin premix, 1% of a mineral premix, 0.25% of calcium dihydrogen phosphate and 1.84% of an additive. After 1.84% of feed additive of the present invention is added to 6% of fish meal feed, young fish of *Trachinotus ovatus* are bred for 70 days with the feed.

21: 2023/00198. 22: 2023/01/04. 43: 2023/01/25

51: G01N

71: SHANXI VOCATIONAL UNIVERSITY OF ENGINEERING SCIENCE AND TECHNOLOGY

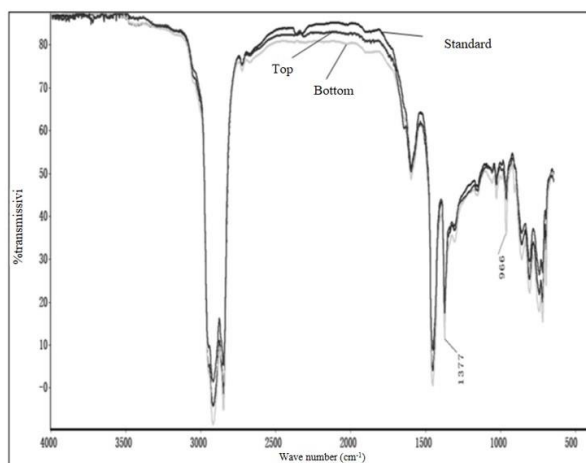
72: YANG, Xiyang, MA, Guofeng, DUAN, Guiming, QI, Xiuting, ZHAO, Hua, LU, Dawei

54: METHOD FOR MEASURING THERMAL STORAGE STABILITY OF SBS POLYMER

MODIFIED BITUMEN BASED ON INFRARED SPECTRUM TECHNOLOGY

00: -

Disclosed a method for measuring thermal storage stability of SBS polymer modified bitumen based on an infrared spectrum technology. Characteristic peak areas of a modifier at 966 cm^{-1} and matrix bitumen at 1377 cm^{-1} are determined by obtaining a standard infrared spectrum of SBS modified bitumen with a known dosage of the modifier; a ratio of both is taken as a standard A value of the modified bitumen. The method comprises: performing a 48h thermal storage test on SBS polymer modified bitumen, taking one third of the top and the bottom of a cooled sample to collect an infrared spectrum of the bitumen sample, determining A1 and A2 values of the infrared spectrum of the samples, calculating contents of an SBS modifier at the top and bottom of the sample, judging thermal storage stability of the SBS polymer modified bitumen according to a difference of the contents of the modifier.



21: 2023/00204. 22: 2023/01/03. 43: 2023/01/25

51: A01G

71: INSTITUTE OF PLANT NUTRITION AGRICULTURAL RESOURCES AND ENVIRONMENTAL SCIENCE, HENAN ACADEMY OF AGRICULTURAL SCIENCES

72: KONG, Weiwei, KANG, Yuanchun, YUAN, Ruiqi, SONG, Zhibo, ZHANG, Yuting

33: WO 31: PCT/CN2022/134874 32: 2022-11-29

33: CN 31: 202210634174.8 32: 2022-06-06

54: INDUSTRIALIZED PRODUCTION SYSTEM FOR PLEUROTUS OSTREATUS

00: -

An industrialized production system for *Pleurotus ostreatus* including: raw material warehouse,

material mixing-, bagging-, and sterilization areas, precooling-, strain making and culturing-, first spawn running-, first mushroom fruiting- and first refrigeration chambers which are sequentially arranged in a Y-axis direction, wherein a mushroom dreg treatment area is arranged on one side of the raw material warehouse, the material mixing area and the bagging area in an X-axis direction; buffer area, forced cooling-, sterile inoculation-, second spawn running-, second mushroom fruiting- and a second refrigeration chambers are sequentially arranged on one side of the mushroom dreg treatment area in the Y-axis direction; the buffer area corresponds to the sterilization area; the cooling chamber corresponds to the precooling chamber; sterile inoculation chamber corresponds to strain making and culturing chamber; second and first spawn running chambers, second and first mushroom producing chambers; and second and first refrigeration chambers corresponding to each other.

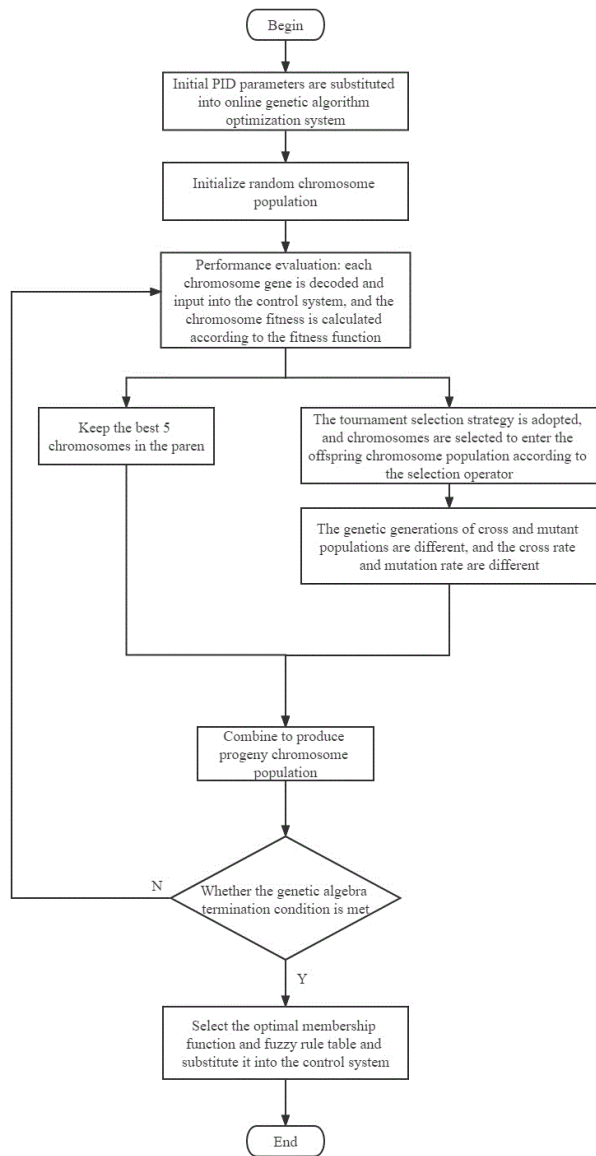
21: 2023/00238. 22: 2023/01/05. 43: 2023/01/25
 51: A01G
 71: ZHANGYE ACADEMY OF AGRICULTURAL SCIENCES
 72: WANG, Tuohe, LI, Wenwei, MAO, Tao, MIAO, Chunqing, BAI, Jing, HE, Shuping, WANG, Juan, LI, Jiali, JIA, Gaixiu
54: METHOD FOR CONTROLLING DEHISCENT TOMATOES

00: -
 Embodiments of the present application provide a method for controlling dehiscent tomatoes, and belong to the technical field of agricultural planting. The method comprises: in a seedling stage of tomatoes, adding attapulgate to a tomato seedling substrate, fully stirring and mixing with the tomato seedling substrate, and conducting seedling in the mixed tomato seedling substrate; and before harvesting the tomatoes, mixing the attapulgate, monocalcium phosphate, sugar alcohol boron and manniol-calcium, and mixing a mixture with water to form a first mixed solution, wherein the first mixed solution is applied to tomato leaf surfaces. The method may reduce the probability of occurrence of the dehiscent tomatoes.

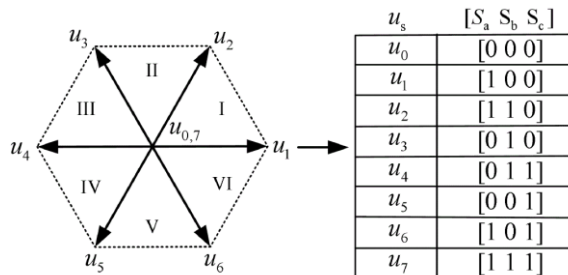
21: 2023/00287. 22: 2023/01/06. 43: 2023/01/19

51: G05B
 71: Shanghai Polytechnic University
 72: WANG Zhifeng, REN Ming, XU Jie
 33: CN 31: 2022116216725 32: 2022-12-16
54: OPTIMIZATION METHOD OF FUZZY CONTROL SYSTEM IN REACTOR BASED ON GENETIC ALGORITHM

00: -
 The application discloses an optimization method of a fuzzy control system in a reactor based on genetic algorithm, which comprises the following steps: obtaining the initial value of a PID control system to obtain the optimal PID control parameters after genetic optimization; The optimal PID control parameters are input into the fuzzy PID control system as initial values, and the optimal membership function and fuzzy rules of fuzzy PID control are determined. Genetic algorithm is used to optimize the membership function and fuzzy rule parameters in fuzzy PID controller, and the optimal chromosome gene is obtained. The optimal chromosome gene is implanted into the fuzzy PID controller to complete the optimization. The application optimizes the selection of membership function and fuzzy rules in fuzzy controller by genetic algorithm, which effectively improves the adaptability of PID control parameter increment output by fuzzy controller to the current system. The application provides a control method for a high-precision temperature control system, so that the temperature control system has better robustness, response speed and anti-interference.



correction of polygonal stator flux linkage trajectory through the flux linkage self-control, realizes synchronous and symmetrical voltage pulse by applying only the zero vector of corresponding time at the space position obtained by looking up the table, and improves the dynamic response speed through the torque error judgment link. At the same time of suppressing current harmonics, the control strategy controls the flux linkage and torque separately, achieving a high sampling frequency, and ensuring the performance of the flux linkage observer; the invention uses the flux linkage position angle to judge the start time of the zero vector, simplifying the judgment of the zero vector position, and the control process is simple.



21: 2023/00292. 22: 2023/01/06. 43: 2023/01/25
51: C02F

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

72: GU, DEMING, MAO, YANLI, KANG, HAIYAN, HE, YALI, SONG, ZHONGXIAN, HAN, SHUAIQI, YAN, XIAOLE, LI, SONGYA, ZHANG, XIA, YAN, XU, ZHOU, JINGBO, HAO, XUERU

54: MULTIFUNCTIONAL MICROWATER WETLAND TREATMENT APPARATUS

00: -

The present invention belongs to the technical field of sewage treatment, and discloses a multifunctional microwater wetland treatment apparatus, which includes a septic tank. An output end of the septic tank is connected with a treating cylinder; the treating cylinder is matched with a cylinder cover; the treating cylinder is provided with a water distribution pipe connected with the output end of the septic tank; output ends of the water distribution pipe are distributed at the upper inner side of the treating cylinder; an aeration pipe is installed in the water distribution pipe; three circles of hanging rings are installed inside the treating cylinder; the two circles at the upper side are symmetrically provided with

21: 2023/00288. 22: 2023/01/06. 43: 2023/01/12
51: H02P

71: ZHEJIANG INTERNATIONAL MARITIME COLLEGE

72: CHEN Zaifa

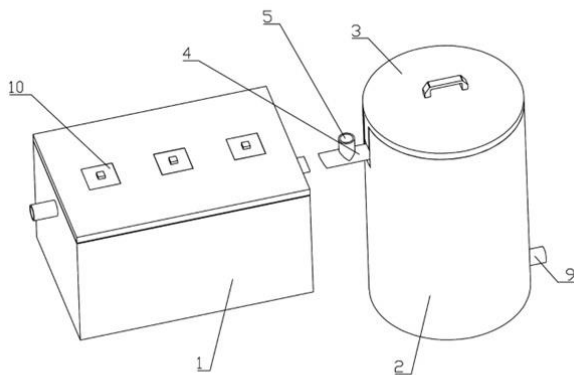
33: CN 31: 202211353133.8 32: 2022-10-28

54: HARMONIC SUPPRESSION SYSTEM BASED ON STATOR FLUX LINKAGE TRACKING

00: -

Disclosed is a harmonic suppression system based on stator flux linkage tracking, the invention stores the flux linkage shape and zero vector distribution information corresponding to the optimized voltage pulse in the off-line table and calls them in real time in each sampling cycle, realizes the deviation

two notches respectively; the three circles are respectively provided with a filler hopper which is integrally connected with a hanging ear plate; cobblestones, pellets and gravels are respectively arranged inside the three filler hoppers.



21: 2023/00293. 22: 2023/01/06. 43: 2023/01/25
51: A23F

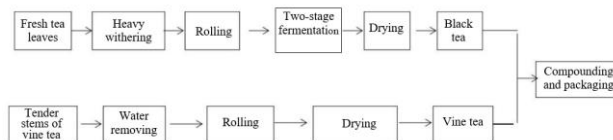
71: TEA RESEARCH INSTITUTE OF HUNAN PROVINCE

72: YIN, XIA, ZHANG, SHUGUANG, XIAO, YANGBO, WU, WENLIANG, HUANG, JING, LIU, SHUJUAN

54: METHOD FOR PREPARING COMPOUND BLACK TEA CAPABLE OF IMPROVING ANTIOXIDANT ACTIVITY AND AFTERTASTE

00: -

The present invention discloses a method for preparing compound black tea capable of improving antioxidant activity and aftertaste. The method includes: firstly, carrying out heavy withering, rolling, two-stage fermentation and drying on fresh tea leaves to prepare black tea; then carrying out water removing, rolling and drying on tender stems of vine tea to prepare vine tea; and finally, compounding the vine tea and the black tea to obtain the compound black tea. In technology, the technologies of heavy withering and two-stage fermentation are sufficiently adopted to improve the sweet and mellow degree of the black tea and neutralize the bitter taste of the vine tea, and the aftertaste is exerted, so that the flavors of the black tea and the vine tea are improved and the effect that 1+1>2 is realized; and the health-care effect of the antioxidant activity is also accumulated.



21: 2023/00336. 22: 2023/01/09. 43: 2023/01/19
51: A01K

71: Shanghai Polytechnic University

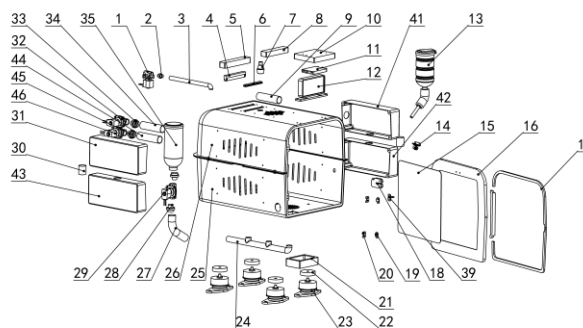
72: XU Jie, CUI Yingchao, WANG Zhifeng

33: CN 31: 2022104060082 32: 2022-04-18

54: INTELLIGENT PET TRANSPORT BOX

00: -

The invention relates to an intelligent pet transport box, including a box main body shell, wherein the box main body shell includes an upper box body and a lower box body. Both sides of the shell are provided with transparent sealing boxes, and the tail parts of the transparent sealing boxes on both sides are provided with air inlet and exhaust pipes. Above the box body, there are LED lamp tubes, ultraviolet lamp tubes, cleaning nozzles, three-in-one sensors and touch screen. The left side of the box body is provided with an automatic feeder, and the right side is provided with an automatic water feeder. The front of the box is provided with a door frame, a transparent sealing plate, a sealing strip and an external camera. A control PCB circuit is arranged at the rear of the box body, a pet excrement discharge pipeline and four buffer blocks and buffers are arranged below the box body. The invention effectively solves the problems of health monitoring, automatic feeding, temperature regulation, excrement treatment, video tracing, disinfection and sterilization of pets during transportation, and improves the cleanliness and comfort of pets during transportation.

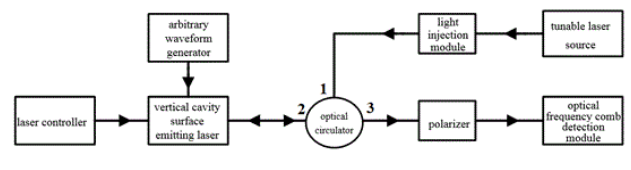


21: 2023/00463. 22: 2023/01/11. 43: 2023/02/02

51: G02F
 71: SOUTHWEST UNIVERSITY
 72: FAN Li, LUO Yang, DING Zhuyu, GOU Chenhao, GAO Ziye, DENG Tao, LIN Xiaodong, TANG Xi, ZHU Peipei

33: CN 31: 2022229568380 32: 2022-11-07
54: DEVICE AND METHOD FOR GENERATING BROADBAND OPTICAL FREQUENCY COMB BASED ON ARBITRARY WAVEFORM GENERATOR

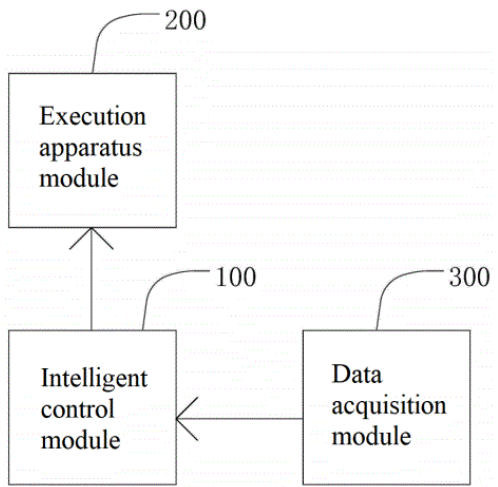
00: -
 The invention discloses a device and a method for generating a broadband optical frequency comb based on an arbitrary waveform generator, and relates to the technical field of optical technology. The device of the invention generates modulation signals based on an arbitrary waveform generator with two operation modes: function mode and AWG mode. The function mode is provided with sine, triangular wave and square wave, and AWG mode can realize arbitrary waveform through self-defined coding, and the frequency and width of the waveform are both adjustable. The modulation signal provided by the arbitrary waveform generator modulates the current of the vertical cavity surface emitting laser, making the vertical cavity surface emitting laser output a gain-switching state, and then the continuous optical signal output by the tunable laser source is unidirectionally injected into the modulated vertical cavity surface emitting laser through a light injection module and an optical circulator, so that the vertical cavity surface emitting laser outputs a broadband optical frequency comb. At the same time, the polarizer is used to adjust the polarization direction of the broadband optical frequency comb signal, and the optical frequency comb with adjustable polarization direction can be obtained. The invention is applicable to the fields of Surveying, spectroscopy, photo-communication and the like.



21: 2023/00512. 22: 2023/01/12. 43: 2023/02/03
 51: G05D
 71: Heyuan Polytechnic
 72: CHEN, Yanfang, FENG, Youqiang, LONG, Shupin, QIU, Yuankai, TIAN, Jingfu

33: CN 31: 202210093444 .9 32: 2022-01-26
54: INTELLIGENT GREENHOUSE CONTROL SYSTEM AND METHOD

00: -
 Disclosed is an intelligent greenhouse control system and method. The system includes a data acquisition module, an intelligent control module and an execution apparatus module, where the data acquisition module includes various sensors, and can acquire multiple in-greenhouse environment data that affect plant growth and transmit the data to the intelligent control module, and the intelligent control module performs analysis, comparison and processing by means of preloaded parameters, and outputs a control signal to the execution apparatus module for environmental adjustment and control. Further, the system includes a plurality of auxiliary modules, and function of the system can be further expanded by adding peripheral apparatuses. The system automatically monitors and controls factors such as temperature, humidity, illumination and carbon dioxide in an intelligent greenhouse, and realizes intelligent and informationalized control of the intelligent greenhouse, and an operation interface of the system is simple, which facilitates operation by ordinary farmers.

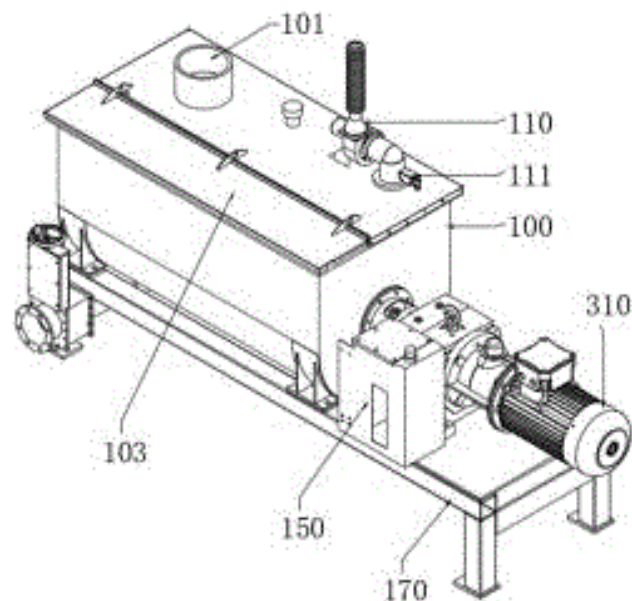


21: 2023/00640. 22: 2023/01/16. 43: 2023/02/02
 51: C05F
 71: Anhui Science and Technology University
 72: REN Lantian, QIAO Cece, HAO Bing, WU Wenge, CHEN Gang, ZHANG Congjun, SHAO Qingqin, WANG Shimei
 33: CN 31: 2022107082628 32: 2022-06-21

54: ORGANIC FERTILIZER COMPOSTING TREATMENT BOX AND INTELLIGENT COMPOSTING SYSTEM THEREOF

00: -

The application provides an organic fertilizer composting treatment box and an intelligent composting system thereof, and relates to the technical field of environmental protection. The organic fertilizer composting treatment box includes a box body and a pile turning device; a top of the box body is provided with a feed inlet, and a bottom of the box body is provided with a discharge outlet; the pile turning device includes a pile turning motor, a material turning plate and a shaftless auger, wherein the shaftless auger is rotatably installed in the box body, the material turning plate is fixedly connected with the shaftless auger, the pile turning motor is fixed outside the box body, and a driving shaft of the pile turning motor is in transmission connection with the shaftless auger. According to the organic fertilizer composting treatment box of this application, under the mutual cooperation, the shaftless auger and the material turning plate turn over the materials, and the whole process is controlled by electrical equipment, so that multiple or continuous turning over operations are realized, thus not only reducing the labor input, but also improving the composting efficiency, and avoiding excessive anaerobic odor output caused by incomplete turning over; the application has simple structure and strong applicability.



21: 2023/00644. 22: 2023/01/16. 43: 2023/01/26
51: C02F

71: Anhui Science and Technology University
72: YANG Ruimin, ZHANG Zhenning, ZHENG Tenglong, CHENG Xiyang

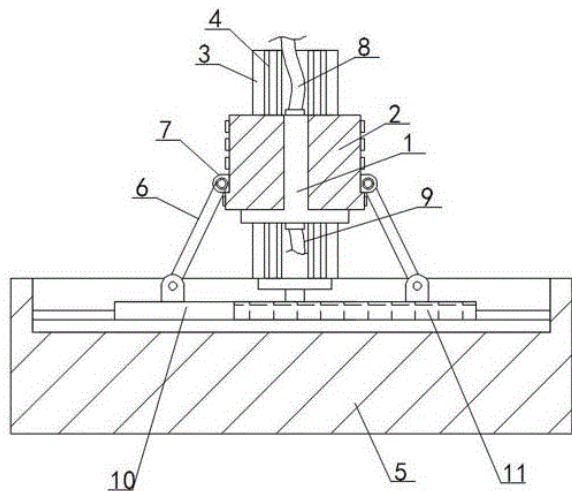
33: CN 31: 2022107875244 32: 2022-07-06

54: DEVICE AND METHOD FOR TREATING ACID WASTEWATER FROM COAL MINES BY USING COAL GANGUE

00: -

The invention discloses a device and a method for treating acid wastewater from coal mines by using coal gangue, which comprises a treatment tank, which is the main mechanism for treating coal mine acid wastewater. The inside of the treatment tank is sequentially provided with an alkali lime layer, a hydrated lime layer, a calcium carbonate layer, a blast furnace slag layer, a dolomite layer and a lime milk layer from top to bottom. The upper and lower ends of the treatment tank are respectively provided with a wastewater inlet pipe and a wastewater discharge pipe, and the wastewater inlet pipe is located at the upper end of the wastewater discharge pipe; the mounting frame is located on the outer surface of the treatment tank, and the mounting frame is connected with the treatment tank in a sliding way. The device and method for treating acid wastewater from coal mines by using coal gangue can control the shaking of the treatment tank and the mounting frame by using the inertia of vertical lifting and emergency stop, and make the material layer in the treatment tank impact up and

down by using rapid shaking, and mix the material powder and wastewater for purification, so that the material layer can be volatilized only when shaking, thus realizing the self-treatment effect.

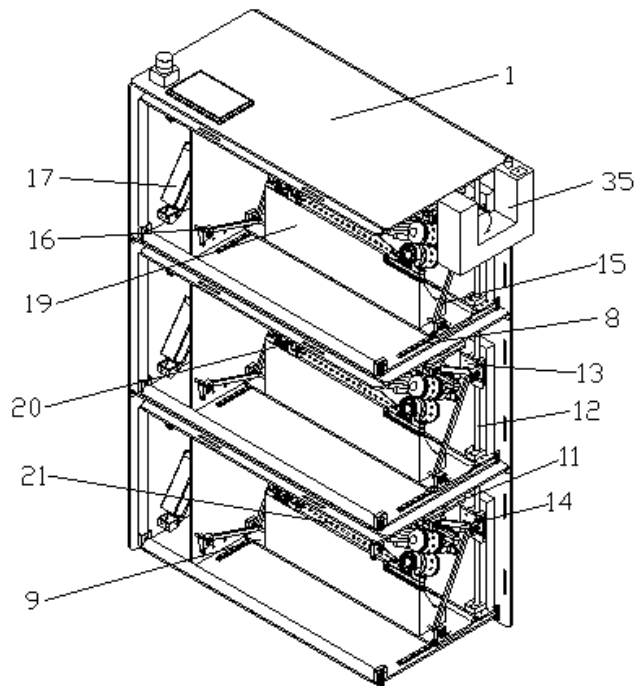


21: 2023/00702. 22: 2023/01/17. 43: 2023/02/02
 51: B08B
 71: Xi'an University of Technology
 72: SUN Shuaihui, WU Pengbo, GUO Pengcheng,
 WANG Zhe, LI Lin, ZHAO Yanxin, WEI Tingrui, MA
 Chenxiao, REN Zhaobo

33: CN 31: 2022100532544 32: 2022-01-18
**54: CABINET-TYPE MULTI-MODEL TEST TUBE
 MOISTENING AND WASHING MACHINE**

00: -
 The invention discloses a cabinet-type multi-model test tube moistening and washing machine, which comprises a cabinet, wherein the front of the cabinet is provided with a cabinet door which rotates up and down; the rear wall of the cabinet is provided with a longitudinal distribution plate; the front side of the distribution plate is provided with a brush group whose front end inclines upward along the width direction of the cabinet; the upper and lower sides of the brush group are respectively provided with a belt driving mechanism; the two belt driving mechanisms are jointly connected with a clutch mechanism which is rotationally connected to the inner wall of the cabinet door; the above of the brush group is correspondingly provided with a spray thrower; and the spray thrower and the distribution plate are jointly communicated with a water supply system and an air supply system. According to the invention, the inner wall and the outer wall of the test tube to be cleaned can be cleaned by high-pressure air and

water in batches; at the same time, the test tube rotates and brush scrubs when driven by a belt driving mechanism; after the cleaning is finished, the test tube continues to rotate to throw out residual water stains; and then the inner and outer walls of the test tube are completely dried and disinfected by an air supply system, so that the purpose of cleaning, dehydration, drying and disinfection of test tubes in batches is achieved, and the working efficiency is effectively improved.



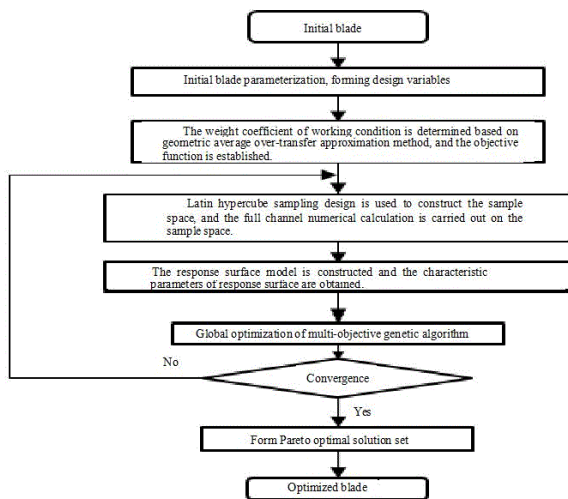
21: 2023/00715. 22: 2023/01/17. 43: 2023/02/02
 51: G06F
 71: Xi'an University of Technology, Xi'an Thermal
 Power Research Institute Co.,Ltd
 72: ZHAO Yaping, ZHENG Xiaobo, LI Zhihua, QIN
 Dige, GUO Pengcheng
 33: CN 31: 2022101015761 32: 2022-01-27

**54: MULTI-WORKING CONDITION OPTIMIZATION
 DESIGN METHOD OF TURBINE RUNNER UNDER
 MULTI-ENERGY COMPLEMENTARY CONDITION**

00: -
 The invention provides a multi-working condition optimization design method of a water turbine runner under the condition of multi-energy complementation, which comprises the following steps: firstly, establishing a three-dimensional model of an initial blade, making a Bézier curve express the geometric distribution characteristics of the setting angle of the model, modeling the obtained

optimization design variables, constraining the variation range of the inlet and outlet setting angles of the obtained model, and then constructing a sample space for optimization design according to the optimization design variables and constraint variables, Numerical calculation of hydraulic performance of each Francis turbine runner model is carried out to obtain their operating efficiency under ultra-low load, low load and rated load conditions, and an optimization objective function is established. Then, a response surface model between constraint variables and the optimization objective function is constructed, and the response surface model is globally optimized to obtain the optimal solution set. From the optimal solution set, the solution set with improved weighted average efficiency of the turbine and its runner blades is selected, that is, the optimized turbine runner under multiple working conditions under the condition of multi-energy complementation.

neurodegenerative disease and cognitive decline and/or in the prognosis of Alzheimer's disease at different stages and/or of neurodegenerative disease in a biological sample. The invention also provides for a 1) diagnostic method based on a highly accurate mass spectrometry analysis for the diagnosis of neurodegenerative disease, including Mild Cognitive Impairment (MCI), Alzheimer's disease (AD), fronto-temporal dementia (FTD), Lewi's Body (LB), and vascular dementia (VD) in a subject, by evaluating the PTMs to the said p53 linear sequence protein and possible cut of its full sequence specifically in human plasma of patients; and 2) prognosis of AD in CU and MCI patients.



21: 2023/01286. 22: 2023/01/31. 43: 2023/02/03
 51: G01N
 71: DIADEM S.p.A.
 72: PICCIRELLA, Simona, UBERTI, Daniela Letizia
 33: IT 31: 102020000018544 32: 2020-07-20
54: P53 POST-TRANSLATIONAL MODIFICATIONS AS MARKERS IN THE DIAGNOSIS AND PROGNOSIS OF A NEURODEGENERATIVE DISEASE
 00: -
 The present invention refers to p53 sequence and post translational modifications (PTMs) and to their use as biomarkers in the diagnosis of

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES**ADVERTISEMENT OF AN AMENDMENT APPLICATION MADE BY ASTELLAS PHARMA INC. DURING PENDING PROCEEDINGS BEFORE THE COURT OF THE COMMISSIONER OF PATENTS**

Medpro Pharmaceutica (Pty) Limited instituted patent revocation proceedings against Astellas Pharma Inc. ("the patentee") of 2-5-1, Nihonbashi-Honcho Chuo-ku, Tokyo 103-8411, Japan in respect of South African Patent No. 2005/03510 entitled "*Remedy for Overactive Bladder comprising Acetic Acid Anilide Derivative as the Active Ingredient*" ("the patent").

The patentee has applied to the Court of the Commissioner of Patents to amend the patent in terms of Section 51(9) of the Patents Act No. 57 of 1978 and, as part of the same application, brought an application for interim relief prohibiting infringement of the patent pending the outcome of the revocation proceedings and the patent infringement proceedings to be instituted against Medpro Pharmaceutica (Pty) Limited, Cipla Medpro (Pty) Ltd and Cipla Life Sciences (Pty) Ltd in respect of the patent.

The application for amendment is open for inspection at the Patent Office, Block F Entfufukweni, 77 Meintjies Street, Sunnyside, Pretoria. Copies can also be obtained on request from the Patent Attorneys for the patentee whose address is set out below.

Any interested person wishing to oppose the application for amendment may join in the amendment proceedings by filing a Notice of Intention to oppose the application for amendment on or before 6 March 2023. The further proceedings are to be governed by the provisions of Rule 6 of the Uniform Rules of Court.

Address for Service in the Republic:

Adams & Adams Attorneys, Lynwood Bridge, 4 Daventry Street, Lynnwood Manor, Pretoria, Reference: PL2330ZA00 A Apostolidis. Email: Alexis.Apostolidis@adams.africa.



the dtic
Department:
Trade, Industry and Competition
REPUBLIC OF SOUTH AFRICA

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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 2023.

1. Dr Mpumelelo Nkomo
2. Mr Pieter Daniel Meiring

Dr Thandanani Cwele
Chairperson
Patent Examination Board
.21. February 2023

Chairperson : Dr Thandanani Cwele
Members : Ms Sandra Clelland, Ms Shanaaz Mahomed, Mr Paul Sibisi, Mr Johnny Fiandeiro & MsThandiwe Khumalo
Secretariat : Ms Sheperd Khanyisa Chauke

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 2023/01/23 -

A2023/00091 - S.I.P.A. Societa' Industrializzazione Progettazione e Automazione S.p.A. Class 9. BOTTLES

A2023/00090 - S.I.P.A. Societa' Industrializzazione Progettazione e Automazione S.p.A. Class 9. BOTTLES

F2023/00088 - Polyoak Packaging (Pty) Ltd Class 09. CAP

A2023/00092 - ABEL ZAKHELE HLUMBANE Class 03. HIDE SISTER HIDE FOLDABLE STAND

A2023/00087 - Polyoak Packaging (Pty) Ltd Class 09. CAP

A2023/00089 - S.I.P.A. Societa' Industrializzazione Progettazione e Automazione S.p.A. Class 9. BOTTLES

- APPLIED ON 2023/01/24 -

A2023/00096 - AGI SURETRACK LLC Class 10. SENSOR

A2023/00095 - AGI SURETRACK LLC Class 10. SENSOR

A2023/00097 - AGI SURETRACK LLC Class 10. SENSOR

F2023/00094 - KELLY CHRISTINE VAN STADEN Class 02. A DEVICE FOR ASSISTING THE RETENTION OF A HEARING AID APPARATUS

A2023/00093 - KELLY CHRISTINE VAN STADEN Class 02. A DEVICE FOR ASSISTING THE RETENTION OF A HEARING AID APPARATUS

- APPLIED ON 2023/01/25 -

F2023/00099 - OLIVIER, Magdelena Elizabeth Class 19. LABEL POCKET

F2023/00098 - Adrian Viljoen Class 13. STARTBRID-40

A2023/00114 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00113 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. CONTROLLER FOR ELECTRONIC DEVICE

A2023/00112 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER

A2023/00111 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. CONTROLLER FOR ELECTRONIC DEVICE

A2023/00110 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. UNIT FOR THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00109 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00106 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER

A2023/00105 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00101 - SONY INTERACTIVE ENTERTAINMENT INC. Class 13. CONNECTOR

A2023/00108 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. CONTROLLER FOR ELECTRONIC DEVICE

A2023/00107 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00104 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00103 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00102 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. UNIT FOR THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00100 - JAN DANIEL CILLIERS Class 7. GEL EXTRACTOR

. - APPLIED ON 2023/01/26 -

A2023/00120 - CROWN PACKAGING TECHNOLOGY, INC. Class 09. FULL APERTURE BEVERAGE CAN END

A2023/00117 - FULL FORTUNE INTELLECTUAL LIMITED Class 2. OUTSOLE

F2023/00116 - WSR IP (PTY) LTD. Class 13. LOW VOLTAGE CONNECTOR PANELS

F2023/00122 - Daphne Water Solutions Limited Class 23. WATER FILTRATION DEVICE

A2023/00119 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 8. KEYS

A2023/00118 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 12. AUTOMOBILES

A2023/00115 - WSR IP (PTY) LTD. Class 13. LOW VOLTAGE CONNECTOR PANELS

F2023/00121 - SolvPac (Pty) Ltd Class 9. CONTAINER LIDS

. - APPLIED ON 2023/01/27 -

F2023/00124 - Polyoak Packaging (Pty) Ltd Class 09. BOTTLE

A2023/00123 - Polyoak Packaging (Pty) Ltd Class 09. BOTTLE

A2023/00125 - Polyoak Packaging (Pty) Ltd Class 09. PULL TAB

F2023/00126 - Polyoak Packaging (Pty) Ltd Class 09. PULL TAB

. - APPLIED ON 2023/01/30 -

F2023/00134 - LOCKSECURE (PTY) LTD Class 8. CAM SPRING

A2023/00137 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 12. AUTOMOBILES

A2023/00139 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 12. AUTOMOBILES

F2023/00133 - LOCKSECURE (PTY) LTD Class 8. PADLOCK SLEEVE

F2023/00135 - LOCKSECURE (PTY) LTD Class 8. ACTUATOR BAR

F2023/00132 - LOCKSECURE (PTY) LTD Class 8. CAM FOR PADLOCK

A2023/00127 - Kvp Trading Class 02. CALVIN WESTLEIGH PILLAY

F2023/00131 - LOCKSECURE (PTY) LTD Class 8. PADLOCK BODY

A2023/00128 - Monicafernsolutions Class 11. DESIGN

A2023/00129 - Monicafernsolutions Class 11. DESIGN 34

A2023/00130 - Monicafernsolutions Class 11. DESIGN 12

A2023/00138 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 21. CARS

A2023/00136 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 21. CARS

. - APPLIED ON 2023/01/31 -

A2023/00140 - WATERARC SOLUTIONS (PTY) LTD. Class 25. A FILTER CAGE

. - APPLIED ON 2023/02/01 -

A2023/00143 - Crocs, Inc. Class 2. FOOTWEAR

A2023/00141 - Chwayita Xozwa Class 32. THE PHOENIX BIRD IN PREVILLAGED LIFESTYLE

F2023/00145 - Wireman Pty Limited Class 25. A RURAL FENCE PICKET

A2023/00146 - themba ntombana Class 32. STREET INTELLIGENCE

F2023/00142 - MICHAEL ZIBONELE KHUMALO Class 19. NUMERICAL CALENDAR

A2023/00144 - Crocs, Inc. Class 2. FOOTWEAR

. - APPLIED ON 2023/02/02 -

F2023/00149 - Austin Engineering Limited Class 12. TRUCK BODIES

A2023/00152 - REGENERON PHARMACEUTICALS, INC. Class 9. PACKAGING

A2023/00153 - REGENERON PHARMACEUTICALS, INC. Class 9. PACKAGING

F2023/00154 - WIREMAN PTY LIMITED Class 25. A POST JOINING SLEEVE ASSEMBLY

A2023/00150 - REGENERON PHARMACEUTICALS, INC. Class 9. PACKAGING

F2023/00148 - Austin Engineering Limited Class 12. TRUCK BODIES

A2023/00147 - Austin Engineering Limited Class 12. TRUCK BODIES

A2023/00151 - REGENERON PHARMACEUTICALS, INC. Class 9. PACKAGING

. - APPLIED ON 2023/02/03 -

F2023/00155 - SMT SCHARF AFRICA (PTY) LTD Class 12. LOW PROFILE - ELECTRICALLY POWERED TRANSPORTATION MINING VEHICLE

A2023/00159 - Castrol Limited Class 9. CONTAINERS

A2023/00156 - SMT SCHARF AFRICA (PTY) LTD Class 12. LOW PROFILE - ELECTRICALLY POWERED TRANSPORTATION MINING VEHICLE

F2023/00170 - WIREMAN PTY LIMITED Class 25. A FENCE COMPONENT OF INDEFINITE LENGTH

A2023/00158 - Caterpillar Inc. Class 15. PUMPS

A2023/00157 - Caterpillar Inc. Class 15. PUMPS

A2023/00160 - Castrol Limited Class 9. CONTAINERS

. - APPLIED ON 2023/02/06 -

A2023/00161 - MPact Plastic Containers Proprietary Limited Class 9. CRATES

F2023/00164 - MPact Plastic Containers Proprietary Limited Class 9. CRATES

F2023/00162 - MPact Plastic Containers Proprietary Limited Class 9. CRATES

A2023/00163 - MPact Plastic Containers Proprietary Limited Class 9. CRATES

. - APPLIED ON 2023/02/08 -

A2023/00169 - SODASTREAM INDUSTRIES LTD. Class 31. DOMESTIC SODA-WATER PREPARING DEVICE

F2023/00168 - GIDEON HITCHCOCK Class 07. BRAAI GRID LOCK

. - APPLIED ON 2023/02/09 -

A2023/00171 - Manelisi sibonakaliso Shabalala Class 12. SEAT BELT DETECTOR SYSTEM

A2023/00172 - DAIO PAPER CORPORATION Class 2. DISPOSABLE DIAPER

F2023/00174 - Izzy Izzy Scooters (Pty) Ltd Class 12. RAMP

F2023/00176 - 18 TEN ACCESSORIES CC Class 07. A COOKING APPARATUS

F2023/00178 - 18 TEN ACCESSORIES CC Class 07. A COOKING ACCESSORY

A2023/00173 - Pakavi Pty Ltd Class 09. TOY FOOD PACKAGING

A2023/00177 - 18 TEN ACCESSORIES CC Class 07. A COOKING ACCESSORY

A2023/00175 - 18 TEN ACCESSORIES CC Class 07. A COOKING APPARATUS

. - APPLIED ON 2023/02/10 -

F2023/00179 - Vuyisile Aaron Ramafikeng Class 08. GMR GB HOE

. - APPLIED ON 2023/02/13 -

A2023/00183 - SIR FRUIT (PTY) LTD Class 09. A BOTTLE

F2023/00184 - FIKAGEAR B.V. Class 25. ENCLOSURES FOR A HOCKEY FIELD

A2023/00187 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00188 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00191 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00194 - CEPHEID Class 24. DIAGNOSTIC ASSAY SYSTEM

A2023/00180 - RETAIL ASSOCIATES (PTY) LTD Class 21. EXERCISING APPARATUS

F2023/00181 - RETAIL ASSOCIATES (PTY) LTD Class 21. EXERCISING APPARATUS

A2023/00185 - SIR FRUIT (PTY) LTD Class 09. A BOTTLE

A2023/00192 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

F2023/00182 - FIKAGEAR B.V. Class 25. ENCLOSURES FOR A HOCKEY FIELD

A2023/00186 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00189 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00190 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00193 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

F2023/00195 - iCutter Industries Australia Pty Ltd Class 08. A DRILL BIT

. - APPLIED ON 2023/02/14 -

F2023/00197 - Aloma Annelene Grobler Class 29. BUGGY WHIP

F2023/00196 - Daphne Water Solutions Limited Class 23. WATER FILTRATION DEVICE

F2023/00198 - EJAT Lerm Class 30. NECTAR FEEDER

. - APPLIED ON 2023/02/15 -

A2023/00200 - FORTIS X (PTY) LTD Class 09. CONTAINER B

A2023/00199 - FORTIS X (PTY) LTD Class 09. CONTAINER A

- APPLIED ON 2023/02/16 -

F2023/00203 - GERALD JOSEPH DESIGN CC Class 26. COMPONENT FOR A LIGHT FITTING

A2023/00202 - GERALD JOSEPH DESIGN CC Class 26. COMPONENT FOR A LIGHT FITTING

A2023/00201 - Crocs, Inc. Class 2. FOOTWEAR

- APPLIED ON 2023/02/17 -

A2023/00205 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE

A2023/00217 - INSTANT BRANDS HOLDINGS INC. Class 7. BEVERAGE KETTLE

F2023/00204 - Kabelo Sehlati Class 02. PESET TK1

A2023/00208 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE

A2023/00209 - INSTANT BRANDS HOLDINGS INC. Class 7. AIR FRYER

A2023/00210 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE USER INTERFACE

A2023/00213 - INSTANT BRANDS HOLDINGS INC. Class 7. POT FOR A COOKING APPLIANCE

A2023/00207 - INSTANT BRANDS HOLDINGS INC. Class 7. BREWING DEVICE

A2023/00206 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE HOUSING

A2023/00212 - INSTANT BRANDS HOLDINGS INC. Class 7. HANDLES FOR A COOKING APPLIANCE

A2023/00215 - INSTANT BRANDS HOLDINGS INC. Class 7. BEVERAGE FROTHER

A2023/00216 - INSTANT BRANDS HOLDINGS INC. Class 7. TOASTER

A2023/00214 - INSTANT BRANDS HOLDINGS INC. Class 7. BREWING DEVICE

A2023/00211 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE HANDLE

CHANGE OF NAME IN TERMS OF REGULATION 24

No records available

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

Notice is hereby given that: **BRIDGESTONE EUROPE NV/SA Kleine Kloosterstraat 10, ZAVENTEM B-1932, BELGIUM** has made application for the restoration of the design registered to the said: **BRIDGESTONE EUROPE NV/SA** for the Design: **TYRE TREADS** application number: **A2018/01476** date: **26/09/2018** which become void on **29/03/2021** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

No records available

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (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: A2019/01599 22: 2019-10-25 23:
43: 2022-12-05
52: Class 31. 24: Part A
71: ARÇELIK ANONIM SIRKETI
33: EM 31: 006777611 32: 2019-08-27

54: Blender

57: The design relates to a blender. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/01278 22: 2020-09-23 23:
43: 2022-12-08

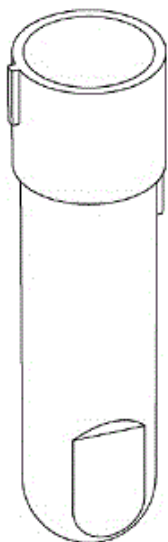
52: Class 24. 24: Part A

71: HITACHI HIGH-TECH CORPORATION

33: JP 31: 2020-005602 32: 2020-03-24

54: Cuvette

57: The design relates to a cuvette. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: A2020/01281 22: 2020-09-23 23:
43: 2022-12-08

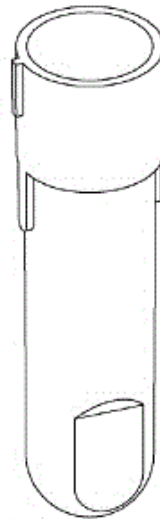
52: Class 24. 24: Part A

71: HITACHI HIGH-TECH CORPORATION

33: JP 31: 2020-005603 32: 2020-03-24

54: Cuvette

57: The design relates to a cuvette. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: A2020/01333 22: 2020-10-06 23:
43: 2020-04-07

52: Class 9 24: Part A

71: Oji Fibre Solutions (NZ) Limited

33: NZ 31: 427356 32: 2020-04-07

54: LIDDED CONTAINERS

57: The design is applied to a lidded container comprising a container part and a lid part. The container part comprises a base, a pair of opposite end panels and opposite side panels extending peripherally upwardly from the base. Each of the side panels define a pair of vertically arranged, oblong minor openings positioned proximate the lower corners thereof, and a pair of vertically arranged, oblong larger openings situated at a top portion thereof. Each of the end panels comprises a horizontally arranged, oblong opening situated proximate an outer edge thereof, and a pair of oblong, vertically arranged, minor openings positioned at the lower corners thereof. The lid part comprises truncated openings provided on the top portion of the side panels thereof. Upon assembly, excluding the truncated openings, the openings on the lid and container parts are arranged to be in register.

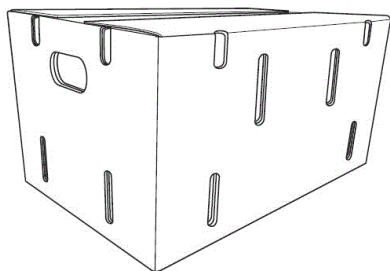


Figure 1

Three-dimensional view of a container with a lid

21: A2020/01503 22: 2020-11-20 23:
43: 2020-05-22
52: Class 29 24: Part F
71: Metal Heart Group of Companies
33: US 31: 29/735,684 32: 2020-05-22

54: MASKS

57: The design is for a mask and comprises a generally teardrop-shaped body that defines a cavity at a rear surface. A front surface is convexly curved and includes a pair of spaced apart circular filters at each side of a lower portion of the mask. Each filter has a spiderweb design comprising concentric circles with four spaced-apart diameter lines that cross each other at a centre of the filter. The filters extend from the front surface into the cavity. Two pairs of isosceles trapezium-shaped members, each defining a recess, are positioned at edges of a mid-section and the lower portion of the mask. A rear surface of the mask includes a peripherally extending lip portion.



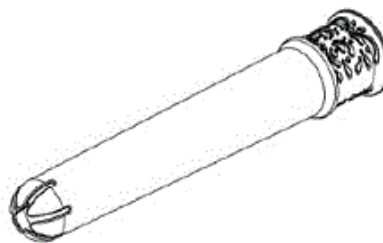
Figure 1

Three-dimensional view

21: A2020/01564 22: 2020-11-30 23:
43: 2022-12-08
52: Class 24. 24: Part A
71: BAYER CONSUMER CARE AG
33: EM 31: 008050900-0001 32: 2020-07-22

54: Vaginal applicator

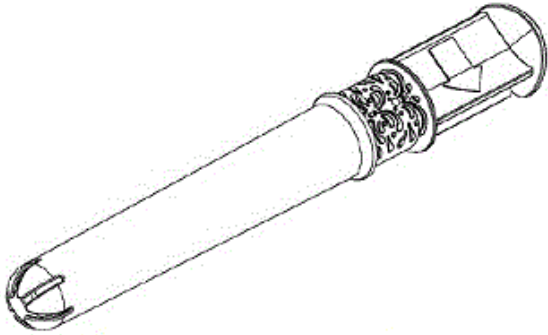
57: The design relates to a vaginal applicator. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FIRST PERSPECTIVE VIEW

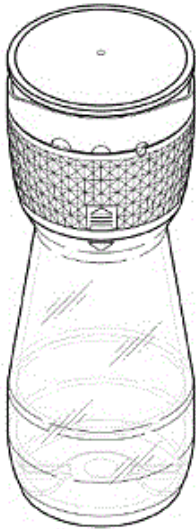
21: A2020/01565 22: 2020-11-30 23:
43: 2022-12-06
52: Class 24. 24: Part A

71: BAYER CONSUMER CARE AG
 33: EM 31: 008050900-0002 32: 2020-07-22
54: Vaginal applicator
 57: The design relates to a vaginal applicator. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FIRST PERSPECTIVE VIEW

21: A2021/00484 22: 2021-05-06 23:
 43: 2022-12-08
 52: Class 7. 24: Part A
 71: MCCORMICK & COMPANY, INCORPORATED
 33: IB 31: DM/213459 32: 2021-02-25
 33: IB 31: DM/213460 32: 2021-02-25
54: Bottle and a Cap
 57: The design relates to a bottle and a cap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT AND TOP PERSPECTIVE VIEW

21: A2021/01129 22: 2021-09-21 23:
 43: 2022-12-06
 52: Class 25 24: Part A
 71: STRUKSOL ENGINEERING (PTY) LTD
54: MESH SUPPORT BLANK
 57: The design is applied to a mesh support blank. 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 mesh support blank, substantially as illustrated in the accompanying representation.

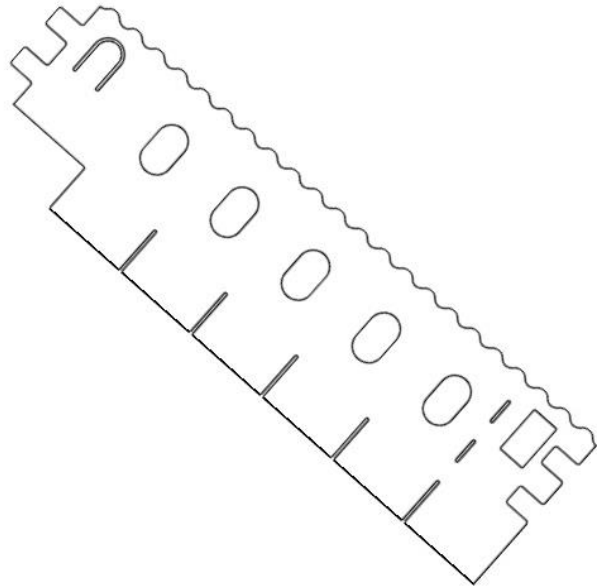
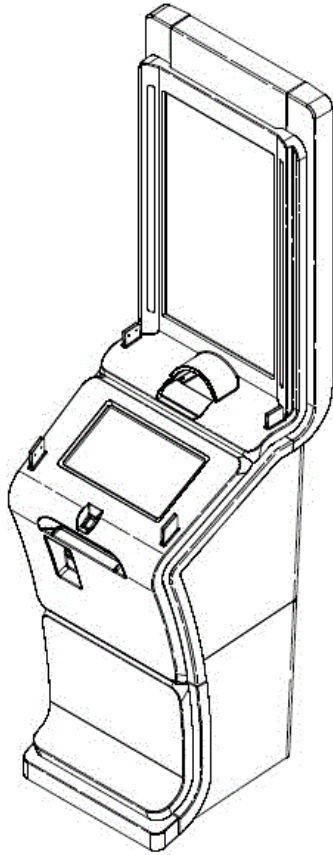
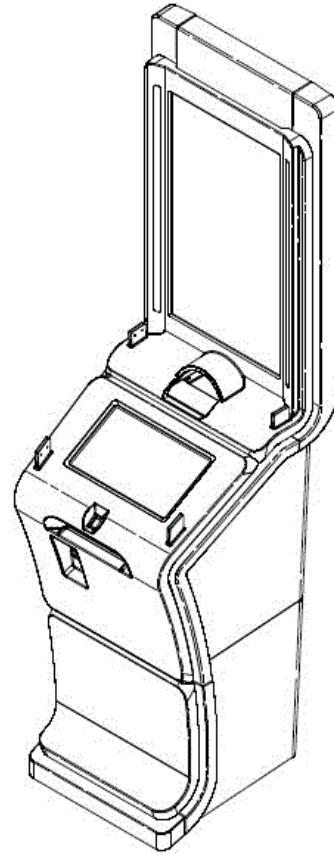


FIGURE 1:
 FRONT VIEW OF A MESH SUPPORT BLANK

21: A2021/01393 22: 2021-11-08 23:
 43: 2021-11-08
 52: Class 14 24: Part A
 71: TYME PTE. LIMITED
54: SELF-SERVICE FINANCIAL KIOSKS
 57: The design is applied to a self-service financial kiosk substantially as illustrated in the accompanying representations.



Three-dimensional view



Three-dimensional view

21: A2021/01394 22: 2021-11-08 23:
43: 2021-11-08
52: Class 20 24: Part A
71: TYME PTE. LIMITED
54: SELF-SERVICE FINANCIAL KIOSKS
57: The design is applied to a self-service financial kiosk substantially as illustrated in the accompanying representations.

21: A2021/01399 22: 2021-11-10 23:
43: 2023-01-12
52: Class 09 24: Part A
71: Polyoak Packaging (Pty) Ltd
54: CONTAINER
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00054 22: 2022-01-18 23:
43: 2022-12-06
52: Class 12. 24: Part A

71: HONDA MOTOR CO., LTD.
 33: JP 31: 2021-016030 32: 2021-07-21

54: Automobile

57: The design relates to automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2022/00057 22: 2022-01-20 23:
 43: 2021-07-20
 52: Class 9 24: Part A
 71: Alpro, commanditaire vennootschap op aandelen
 33: EM(BE) 31: 008625339-0001 32: 2021-07-20

54: PACKAGING

57: The design is for packaging comprising a rectangular body having a base, a top wall, front and rear walls and a pair of extending-upwardly side walls. The top wall is rearwardly upwardly inclined with a round cap with a gripping formation along an outer periphery. The top wall includes a folded surface extending downwardly as triangular folds. The front wall includes “SHHH...THIS IS NOT MLK” with “SHHH...” above “THIS IS” in the same size and font, “NOT” and “MLK” in larger size, the letter “M” followed by a milk drop graphic. The rear wall includes three icons and an arrangement of lines. A first side wall includes graphics of a milk drop, a milk carton, a branch of leaves and oat florets. A second side wall includes text in capital letters showing “THIS IS NOT MLK” with a graphics of a milk drop next to the letter “M”, a glass of milk, four smaller images and oat florets.

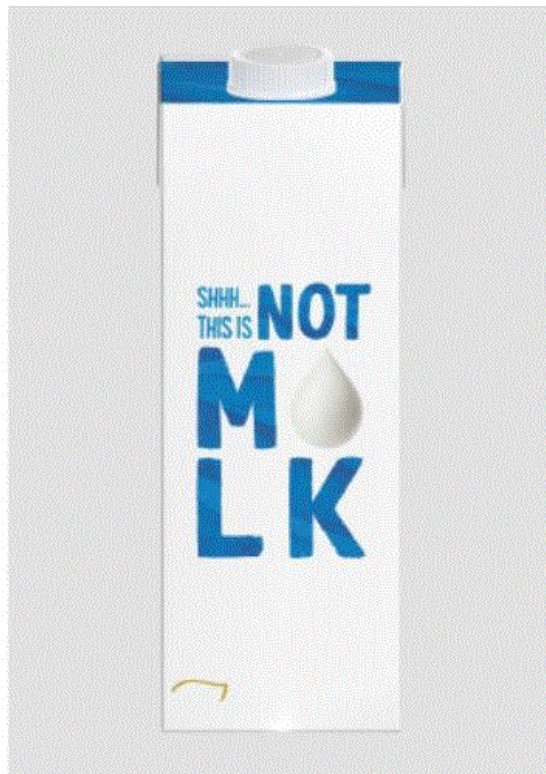
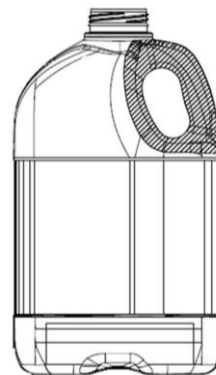


Figure 1
 Front view

21: A2022/00120 22: 2022-02-07 23:
 43: 2023-01-12
 52: Class 09 24: Part A
 71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00278 22: 2022-03-22 23:
 43: 2021-10-15

52: Class 15 24: Part A
 71: Precision Valve Corporation
 33: US 31: 29/811,683 32: 2021-10-15

54: ACTUATORS

57: The design is for an actuator comprising a circular cylindrical body having a lower portion of a greater diameter than an upper portion, the upper portion having a height at least twice that of the lower portion. A top surface of the upper portion defines a bowl-shaped recess with a rear portion inclining downwardly and a front portion defining a semi-circular recess extending to a wide triangular channel. A side wall of the upper portion includes a plurality of parallel, finger-like indentations extending from the top surface, the indentations at a front having a longer length than the indentations from a middle to a rear of the side wall, forming a wave-like pattern. A front face of the upper portion is concavely curved and defines an oval opening defined by rearwardly inclined side walls and an upwardly inclined bottom wall. An orifice is provided in the opening which includes a triangular element surrounding a rectangular element surrounding a circular member.



21: A2022/00311 22: 2022-03-25 23:
 43: 2021-09-28
 52: Class 14 24: Part A
 71: Sky CP Limited
 33: GB 31: 6165985 32: 2021-09-28

54: ELECTRONIC DEVICES

57: The design is for an electronic device, in particular a peripheral camera for a smart tv. The electronic device comprises a rectangular cuboid body comprising a substantially flat front and rear face, top face, bottom face and side faces. A rectangular shaped base protrudes centrally from the bottom face. A rectangular formation is provided on the base. The rear face defines a central rectangular opening at a top portion thereof which accommodates a connection port. A series of laterally spaced apart, vertically arranged openings are provided on either side of the rectangular opening, which vertically arranged openings span a major part of the height of the rear face. A top face is provided with a circular, raised button that is disposed proximate a right, rear corner.

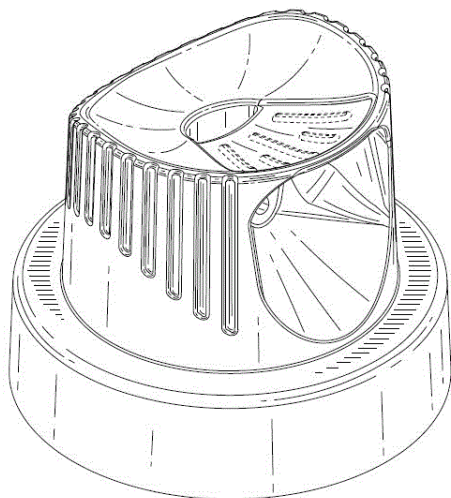


Figure 1
 Three-dimensional view

21: A2022/00287 22: 2022-03-24 23:
 43: 2022-10-07
 52: Class 23 24: Part A
 71: HANS GROHE SE
 33: EU 31: 008707889-0001 32: 2021-09-27

54: FAUCET

57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.

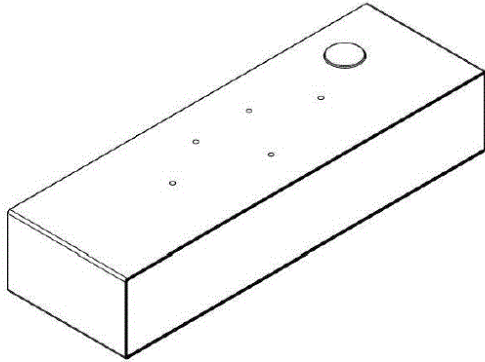


Figure 1
Three-dimensional view



Figure 1
Three-dimensional view

21: A2022/00324 22: 2022-03-28 23:
43: 2021-09-29

52: Class 12 24: Part A

71: Chery Automobile Co., Ltd.

33: CN 31: 202130648844.8 32: 2021-09-29

54: CARS

57: The design is for a car and particularly a sports utility vehicle. A front face includes an hourglass-shaped grille area with a rectangular license plate holder. A pair of headlights with sharply angular ends flank the grille, extending from the grille and curving rearwardly along each side of the car. A thin light strip connects the front headlights. A pair of pentagonal air-intake grilles flank a bottom of the grille. A waistline runs along each side of the car below each window. Each rear door includes a waistline that connects to a taillight. A protruding line and a decorative strip extend across a bottom of the doors. A rear face includes a pair of taillights with sharply angular ends curving rearwardly along each side and across a tailgate to a thin rear light strip. A pair of rectangular exhaust outlets flank a trapezoidal panel below the tailgate. A rear spoiler incorporates a horizontal light strip.

21: A2022/00345 22: 2022-04-01 23:
43: 2021-10-04

52: Class 24 24: Part A

71: Verb Surgical Inc.

33: US 31: 29/810,313 32: 2021-10-04

54: DEVICES

57: The design is for a device that has a rectangular shaped body, embodying a computing structure. The body is wide, having a rectangular base connected via a bevelled, convex interface to front and rear major walls and minor side walls. Similarly, a top of the body is rectangular and connected to the front, rear, and side walls via a bevelled, convex structure. Upright edges of the body are curved. A cradle is provided on the top of the body to support a display panel at an inclined orientation. The cradle is elongate with curved ends that wrap around a front.

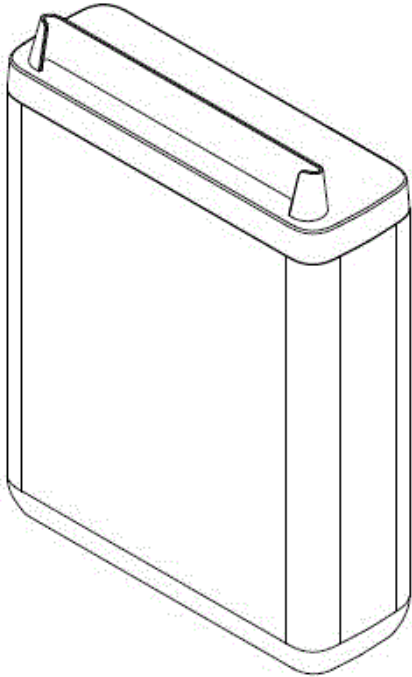


Figure 1
Three-dimensional view

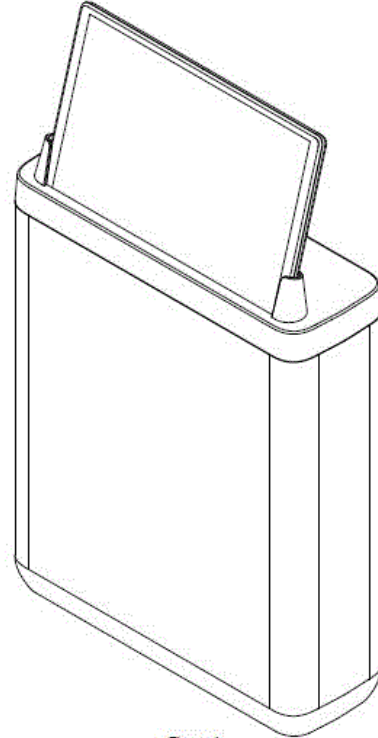


Figure 1
Three-dimensional view

21: A2022/00346 22: 2022-04-01 23:
43: 2021-10-04
52: Class 24 24: Part A
71: Verb Surgical Inc.
33: US 31: 29/810,313 32: 2021-10-04

54: DEVICES

57: The design is for a device that has a rectangular shaped body, embodying a computing structure, and an upper display panel. The body is wide, having a rectangular base connected via a bevelled, convex interface to front and rear major walls and minor side walls. Similarly, a top of the body is rectangular and connected to the front, rear, and side walls via a bevelled, convex structure. Upright edges of the body are curved. A cradle is provided on the top of the body to support the display panel at an inclined orientation. The cradle is elongate with curved ends that wrap around a front. The display panel is separable from the body.

21: A2022/00347 22: 2022-04-01 23:
43: 2021-10-04
52: Class 24 24: Part A
71: Verb Surgical Inc.
33: US 31: 29/810,313 32: 2021-10-04

54: DEVICES

57: The design is for a device that has a rectangular shaped body, embodying a computing structure, and an upper display panel. The body is wide, having a rectangular base connected via a bevelled, convex interface to front and rear major walls and minor side walls. Similarly, a top of the body is rectangular and connected to the front, rear, and side walls via a bevelled, convex structure. Upright edges of the body are curved. A cradle is provided on the top of the body to support the display panel at an inclined orientation. The cradle is elongate with curved ends that wrap around a front. The display panel is separable from the body.

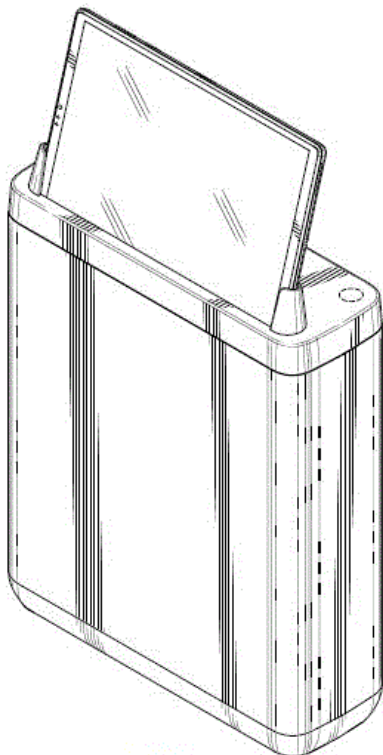


Figure 1
Three-dimensional view

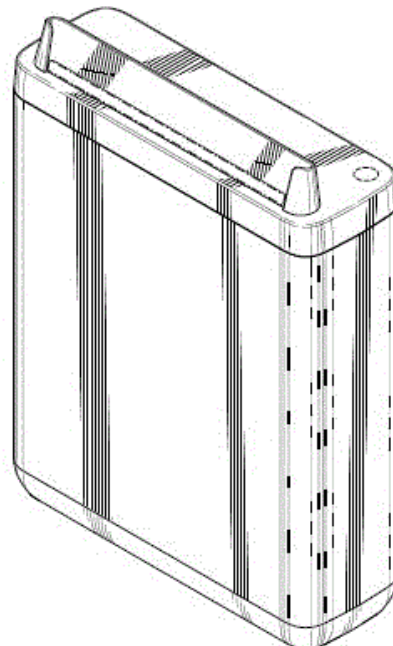


Figure 1
Three-dimensional view

21: A2022/00348 22: 2022-04-01 23:
43: 2021-10-04
52: Class 24 24: Part A
71: Verb Surgical Inc.
33: US 31: 29/810,313 32: 2021-10-04

54: DEVICES

57: The design is for a device that has a rectangular shaped body, embodying a computing structure. The body is wide, having a rectangular base connected via a bevelled, convex interface to front and rear major walls and minor side walls. Similarly, a top of the body is rectangular and connected to the front, rear, and side walls via a bevelled, convex structure. Upright edges of the body are curved. A cradle is provided on the top of the body to support a display panel at an inclined orientation. The cradle is elongate with curved ends that wrap around a front.

21: A2022/00349 22: 2022-04-04 23:
43: 2021-10-05
52: Class 28 24: Part A
71: Personnel Hygiene Services Limited
33: EM(IE) 31: 008718324-0001 32: 2021-10-05

54: AIR FRESHENERS

57: The design is for an air freshener which has a body that has an outwardly curved front part and a complementary rear part. The front and rear parts have matching curves and contours to provide a continuous surface but are separated by a connection interface which extends along the sides, a substantially flat top, and a generally convex bottom, of the body. The connection interface is rearwardly downwardly angled along a midsection of the sides and is substantially straight along the top and bottom. A pair of recessed contours extend forwardly from the bottom of the rear part across the interface and upwardly on the front part, terminating at a middle of the front part to define an inverted U-shape. A wide rectangular recess is provided above the U-shape and accommodates a central circular opening for outputting a fragrance and substantially square display screens on either side thereof. The substantially square display screens are recessed as a greater depth relative to the central circular opening. A rectangular display is provided above the wide recess.

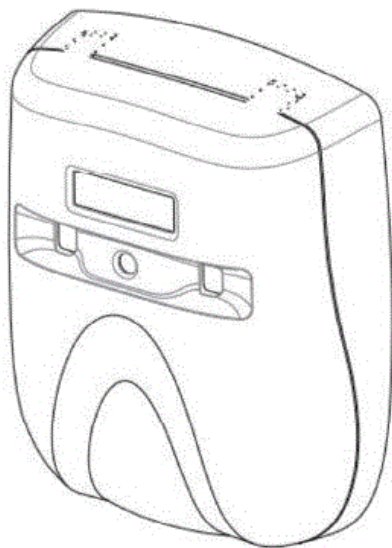


Figure 1

Three-dimensional view

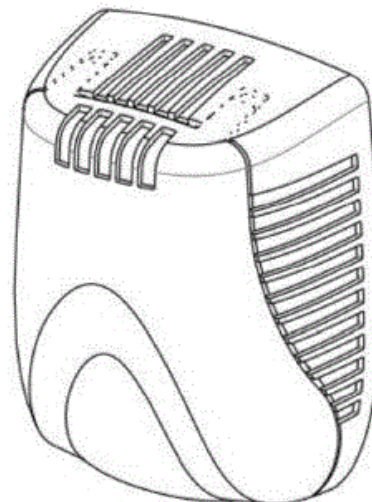


Figure 1

Three-dimensional view

21: A2022/00350 22: 2022-04-04 23:
43: 2021-10-05
52: Class 28 24: Part A
71: Personnel Hygiene Services Limited
33: EM(IE) 31: 008718324-0002 32: 2021-10-05

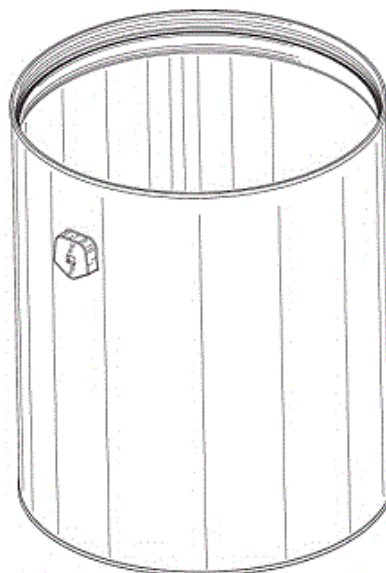
54: AIR FRESHENERS

57: The design is for an air freshener which has a body that has an outwardly curved front part and a complementary rear part. The front and rear parts have matching curves and contours to provide a continuous surface but are separated by a connection interface which extends along the sides, a substantially flat top, and a generally convex bottom, of the body. The connection interface is curved. A pair of recessed contours extend forwardly from the bottom of the rear part across the interface and upwardly on the front part, terminating at a middle of the front part to define an inverted U-shape. A series of elongate, spaced apart rectangular openings are defined on the sides of the rear part, the lengths of the openings gradually reducing in size to follow the connection interface. A series of spaced apart openings are also defined at the top and bottom. The openings allow for air flow to disperse a fragrance which can be inserted into the body.

21: A2022/00351 22: 2022-04-04 23:
43: 2022-12-06
52: Class 9. 24: Part A
71: BWAY CORPORATION
33: US 31: 29/789,609 32: 2021-10-04

54: Container

57: The design relates to a container. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2022/00379 22: 2022-04-08 23:
 43: 2021-12-16
 52: Class 16 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008800817-0001 32: 2021-12-16
54: CAMERAS

57: The design is for a thermal imaging camera. The camera comprises an elongate, substantially cylindrical body having a first end (an eye end) and a slightly wider second opposite end (an objective end). A pair of adjustment rings are provided at the objective end: a first, outer ring is cylindrical having dense knurling and a second, inner ring is shorter, about one third a length of the first ring, is outwardly rearwardly inclined, and has a sparser knurling. A curved eyecup is provided at the eye end. A top of the body has input elements, namely a series of small buttons and a prominent, central longitudinally mounted rotary dial within a transverse recess. A bottom of the body has a releasable cover and each side comprises a textured surface with diagonal grooves.



Figure 1
 Three-dimensional view

21: A2022/00380 22: 2022-04-08 23:
 43: 2021-12-16
 52: Class 16 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008800817-0002 32: 2021-12-16
54: CAMERAS

57: The design is for a thermal imaging camera. The camera comprises an elongate, substantially cylindrical body having a first end (an eye end) and a slightly wider second opposite end (an objective end). A pair of adjustment rings are provided at the objective end: a first, outer ring is cylindrical having dense knurling and a second, inner ring is shorter, about one third a length of the first ring, is outwardly

rearwardly inclined, and has a sparser knurling. A curved eyecup is provided at the eye end. A top of the body has input elements, namely a series of small buttons and a prominent, central longitudinally mounted rotary dial within a transverse recess. A bottom of the body has a releasable cover and each side comprises a textured surface with diagonal grooves.

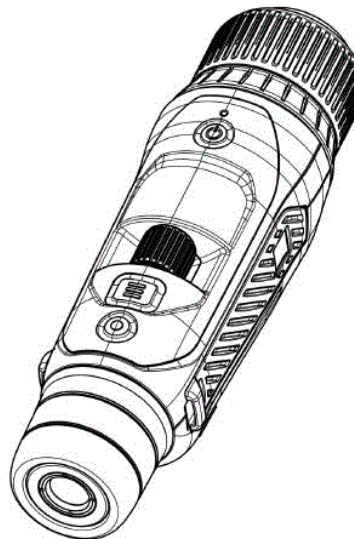


Figure 1
 Three-dimensional view

21: A2022/00381 22: 2022-04-08 23:
 43: 2021-12-16
 52: Class 16 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008800817-0003 32: 2021-12-16
54: CAMERAS

57: The design is for a thermal imaging camera. The camera comprises an elongate, substantially cylindrical body having a first end (an eye end) and a noticeably wider second opposite end (an objective end). A pair of adjustment rings are provided at the objective end: a first, outer ring is cylindrical having dense knurling and a second, inner ring is shorter, about one third a length of the first ring, is outwardly rearwardly inclined, and has a sparser knurling. A curved eyecup is provided at the eye end. A top of the body has input elements, namely a series of small buttons and a prominent, central longitudinally mounted rotary dial within a transverse recess. A bottom of the body has a releasable cover and each side comprises a textured surface with diagonal grooves.



Figure 1

Three-dimensional view

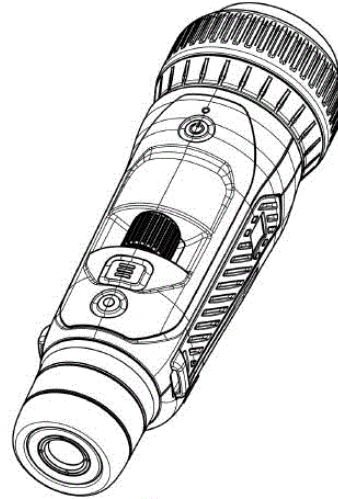


Figure 1

Three-dimensional view

21: A2022/00382 22: 2022-04-08 23:
43: 2021-12-16
52: Class 16 24: Part A
71: Carl Zeiss AG
33: EM(DE) 31: 008800817-0004 32: 2021-12-16

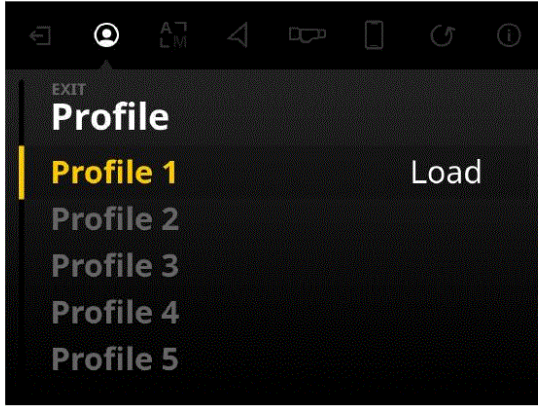
54: CAMERAS

57: The design is for a thermal imaging camera. The camera comprises an elongate, substantially cylindrical body having a first end (an eye end) and a noticeably wider second opposite end (an objective end). A pair of adjustment rings are provided at the objective end: a first, outer ring is cylindrical having dense knurling and a second, inner ring is shorter, about one third a length of the first ring, is outwardly rearwardly inclined, and has a sparser knurling. A curved eyecup is provided at the eye end. A top of the body has input elements, namely a series of small buttons and a prominent, central longitudinally mounted rotary dial within a transverse recess. A bottom of the body has a releasable cover and each side comprises a textured surface with diagonal grooves.

21: A2022/00407 22: 2022-04-19 23:
43: 2021-12-17
52: Class 14 24: Part A
71: Carl Zeiss AG
33: EM(DE) 31: 008802318-0001 32: 2021-12-17

54: USER INTERFACES

57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its upper portion which includes spaced apart menu icons. A "Profile" icon is highlighted, and the GUI displays a menu that has a large, printed heading "Profile" disposed below the word "Exit". The menu has five rows, respectively including text "Profile 1" to "Profile 5", having a smaller print size than the one in the heading. When one of the rows is selected, the selected row displays in a first colour which is different to a second colour of the unselected rows. The word "Load" appears on the right-hand side of the selected row.



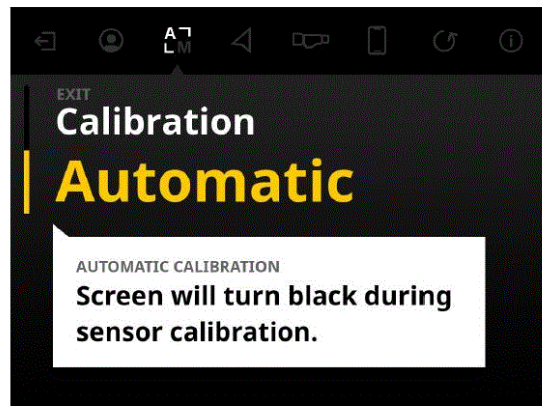
Single Figure
Face-on view



Single Figure
Face-on view

21: A2022/00408 22: 2022-04-19 23:
43: 2021-12-17
52: Class 14 24: Part A
71: Carl Zeiss AG
33: EM(DE) 31: 008802318-0002 32: 2021-12-17
54: USER INTERFACES
57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its upper portion which includes spaced apart menu icons. A "Device" icon is highlighted, and the GUI displays a menu that has a large, printed heading "Device" disposed below the word "Exit". The menu, albeit cut off, displays six rows, each row including a main descriptor on the lefthand side and options for the main descriptor on the righthand side. The descriptor of a highlighted row is a brighter colour, and the options of the highlighted row display in a different colour and include selection arrows on one or both sides. On the lefthand side of the page is provided a vertical scrollbar.

21: A2022/00409 22: 2022-04-19 23:
43: 2021-12-17
52: Class 14 24: Part A
71: Carl Zeiss AG
33: EM(DE) 31: 008802318-0003 32: 2021-12-17
54: USER INTERFACES
57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its upper portion which includes spaced apart menu icons. A "Calibration" icon is highlighted, and the GUI displays a menu that has a large, printed heading "Calibration" disposed below the word "Exit". A single menu option in the form of a larger printed "Automatic" is disposed below "Calibration". A message in a callout or text bubble is provided on the page beneath the menu option. On the lefthand side of the page is provided a vertical scrollbar.



Single Figure
Face-on view

21: A2022/00410 22: 2022-04-19 23:
43: 2021-12-17

52: Class 14 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008802318-0004 32: 2021-12-17

54: GRAPHICAL USER INTERFACES

57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its lower portion which includes spaced apart icons. A circular icon, with text above and outer semi-circles, is highlighted. In one mode, the text is “On” and an upper semi-circle is highlighted; in another mode, the text is “Off” and a lower semi-circle is highlighted. Deselected icons on either side are greyed out. The GUI displays a page/screen that has a camera icon on the top lefthand side and a zoom factor on the top righthand side. A rectangular frame is provided in between the camera icon and zoom factor.

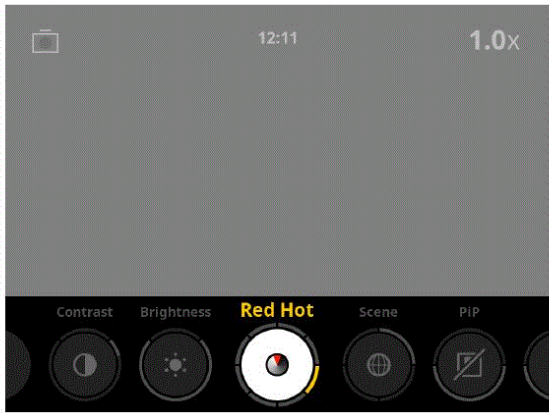


Figure 1
 Face-on view

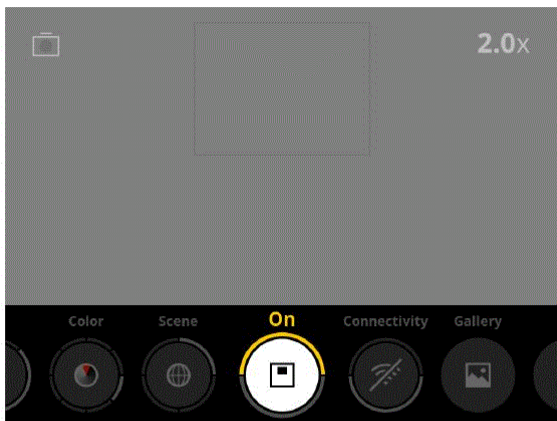


Figure 1
 Face-on view

21: A2022/00411 22: 2022-04-19 23:
 43: 2021-12-17
 52: Class 14 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008802318-0006 32: 2021-12-17

54: GRAPHICAL USER INTERFACES

57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its lower portion which includes spaced apart icons. A temperature circular icon, with mode text above, a mode image inside, and outer circular arcs, is highlighted. In one mode, the mode text is “Red Hot”, the mode icon includes a coloured sector, and a lower right circular arc (about 45°) is highlighted; in another mode, the mode text is “Black Hot”, the mode icon includes a gradient, and a right upper circular arc (about 45°) is highlighted. The GUI displays a page/screen that has a camera icon on the top lefthand side and a zoom factor on the top righthand side, with a digital time indicator provided in between the camera icon and zoom factor.

21: A2022/00412 22: 2022-04-19 23:
 43: 2021-12-17
 52: Class 14 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008802318-0005 32: 2021-12-17

54: GRAPHICAL USER INTERFACES

57: The design is for a graphic user interface (GUI) . The GUI has a horizontal bar at its lower portion which includes spaced apart icons. A “Brightness” circular icon, with the “Brightness” text above, large mode text inside, and outer circular arcs, is highlighted. In one mode, the mode text is “AUTO” and an upper circular arc (about 90°) is highlighted; in another mode, the mode text is “1” and an upper right circular arc (about 30°) is highlighted; in another mode, the mode text is “2” and a right circular arc (about 60°) is highlighted; in another mode, the mode text is “9” and a circular arc (about 270°) complementary to that of the AUTO mode is highlighted. The GUI displays a page/screen that has a camera icon on the top lefthand side and a zoom factor on the top righthand side thereof, with a digital time indicator provided in between the camera icon and zoom factor.

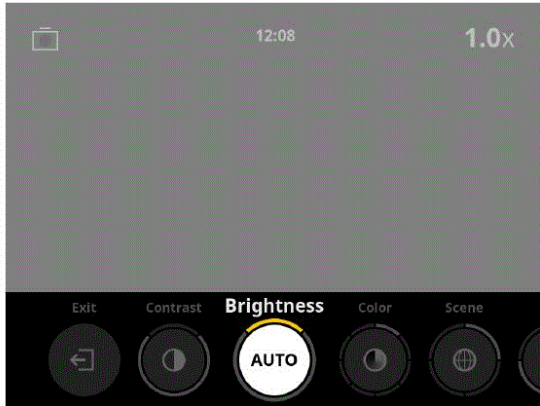
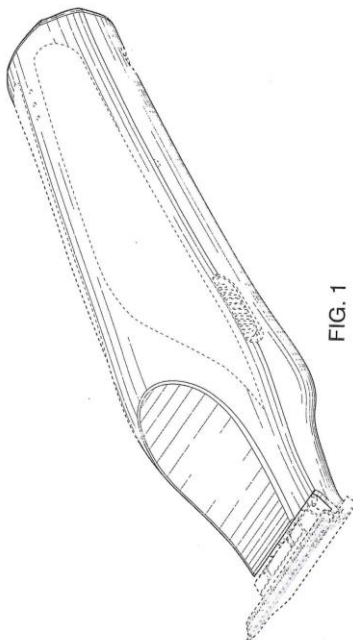


Figure 1
Face-on view

21: A2022/00415 22: 2022-04-20 23:
43: 2022-10-19
52: Class 28 24: Part A
71: WAHL CLIPPER CORPORATION
33: US 31: 29/790,232 32: 2021-11-12
54: HAIR TRIMMER

57: The novelty of the design resides in the shape or configuration of a hair trimmer substantially as shown in the attached representation. Structure shown in dotted outline does not form a part of the design.



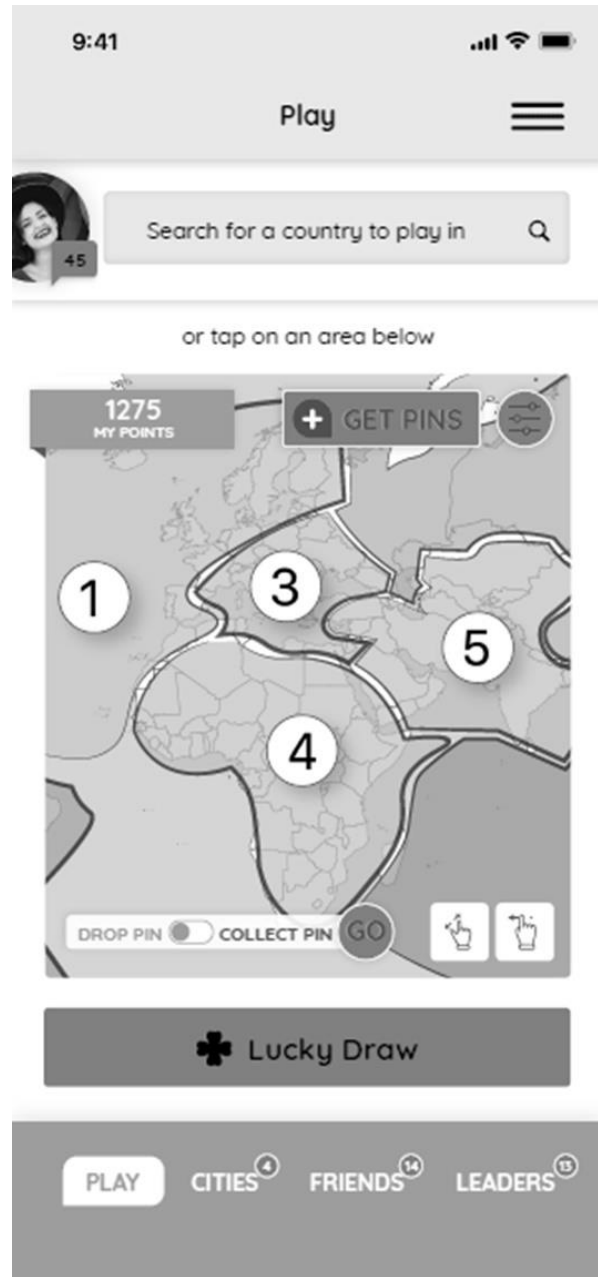
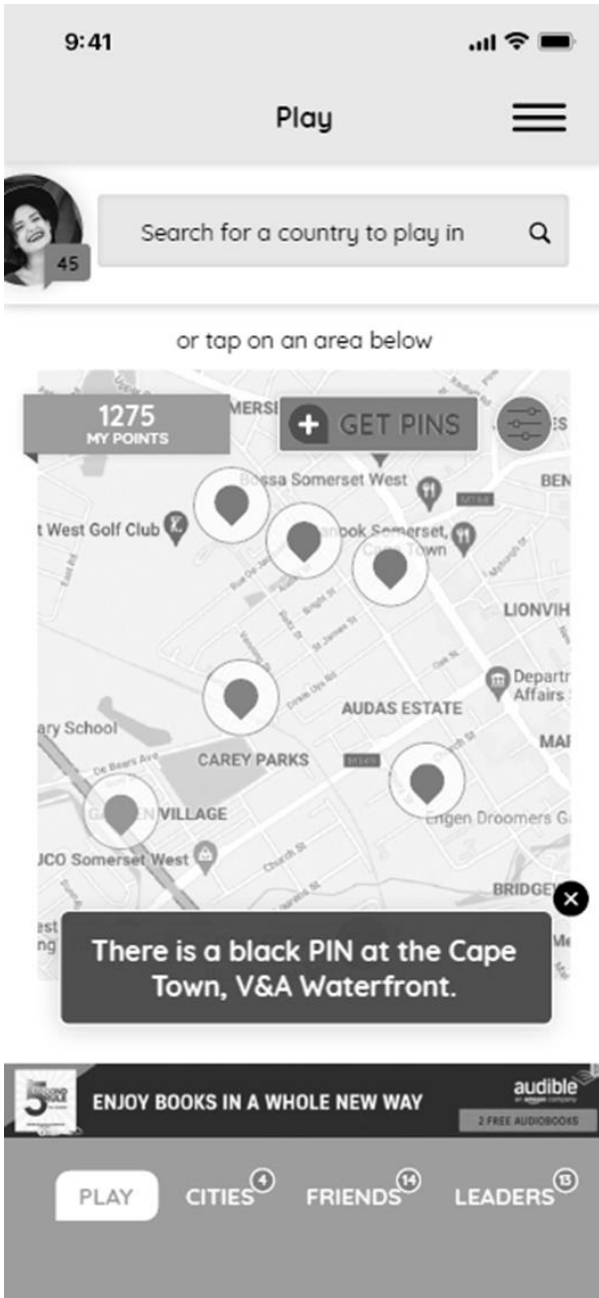
21: A2022/00426 22: 2022-04-21 23:
43: 2021-10-22
52: Class 10 24: Part A
71: LVMH Swiss Manufactures SA

33: HSIRID(CH) 31: DM/217041 32: 2021-10-22
54: CASES, DIALS AND ALL OTHER ACCESSORIES AND PARTS, FOR WATCHES
57: The design is for a case, dial and other accessories and parts of a watch, and in particular for a chronograph watch. The watch has a circular body which includes a circular bezel with peripherally spaced indentations, a middle case portion and a case back. Each of the top and bottom end of the case includes a pair of band attachment arms which are rearwardly inclined. The dial of the watch comprises three circular subdials. Large and small rectangular windows indicating the date are defined at a four o'clock position of the dial. A fluted crown is located in the middle case portion at a three o'clock position. A protruding button is located in the middle case portion at a two o'clock position and at a four o'clock position.



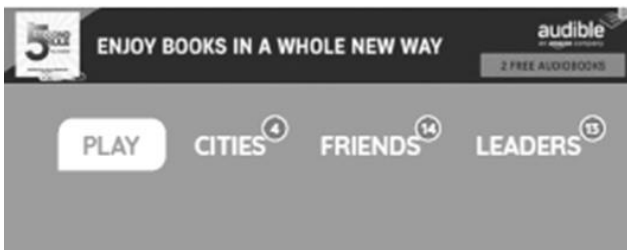
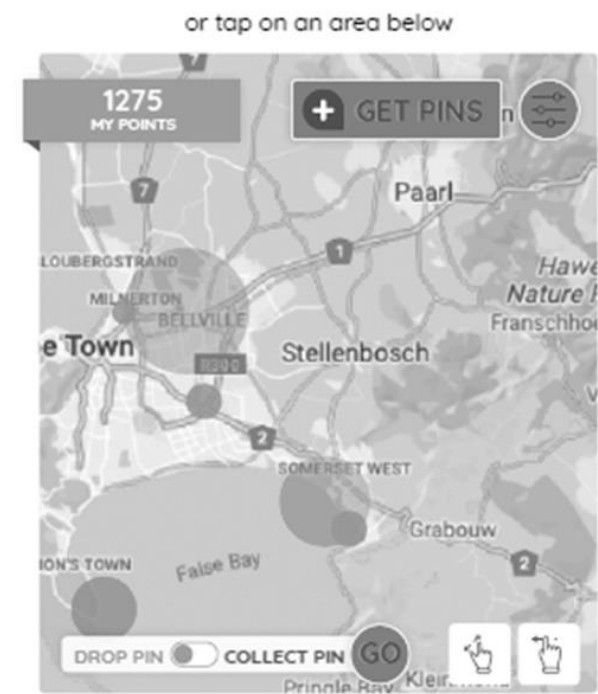
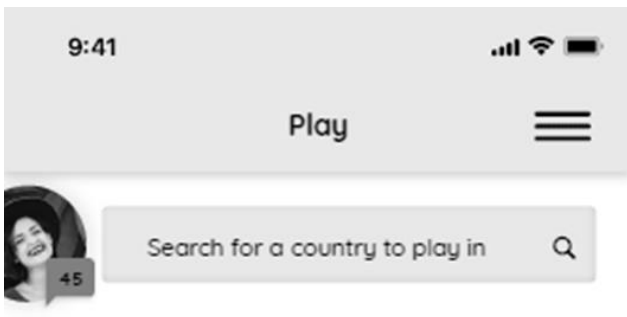
Figure 1
Three-dimensional view

21: A2022/00487 22: 2022-05-09 23:
43: 2022-11-14
52: Class 14 24: Part A
71: Passplane
54: GRAPHICAL USER INTERFACES
57: The design is applied to a graphical user interface. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a graphical user interface substantially as shown in the accompanying representation.

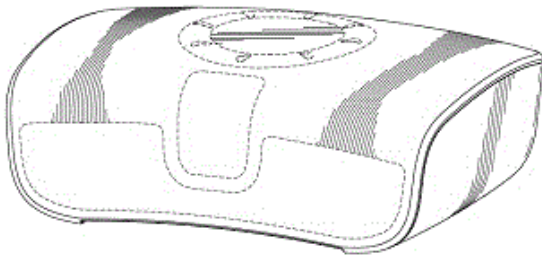


21: A2022/00492 22: 2022-05-09 23:
 43: 2022-11-14
 52: Class 14 24: Part A
 71: Passplane
54: GRAPHICAL USER INTERFACE
 57: The features of the design for which protection is claimed include the shape and/or configuration and/or ornamentation and/or pattern of a graphical user interface substantially as shown in the accompanying representation, and the color applied to the graphical user interface is disclaimed.

21: A2022/00493 22: 2022-05-09 23:
 43: 2022-11-14
 52: Class 14 24: Part A
 71: Passplane
54: GRAPHICAL USER INTERFACE
 57: The design is applied to a graphical user interface. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a graphical user interface substantially as shown in the accompanying representation.

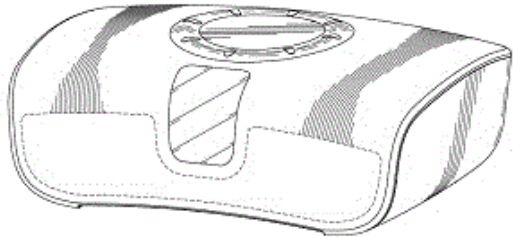


21: A2022/00531 22: 2022-05-16 23:
 43: 2022-12-06
 52: Class 24. 24: Part A
 71: REGENERON PHARMACEUTICALS, INC.
 33: US 31: 29/815,785 32: 2021-11-16
54: Wearable Autoinjector
 57: The design relates to a wearable autoinjector.
 The features of the design are those of shape and/or
 configuration and/or ornamentation.



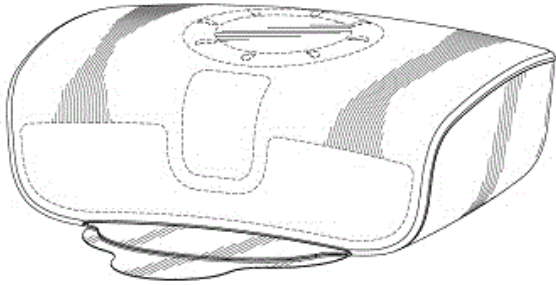
FRONT AND RIGHT SIDE PERSPECTIVE VIEW

21: A2022/00532 22: 2022-05-16 23:
 43: 2022-12-06
 52: Class 24. 24: Part A
 71: REGENERON PHARMACEUTICALS, INC.
 33: US 31: 29/815,785 32: 2021-11-16
54: Wearable Autoinjector
 57: The design relates to a wearable autoinjector.
 The features of the design are those of shape and/or
 configuration and/or pattern and/or ornamentation.



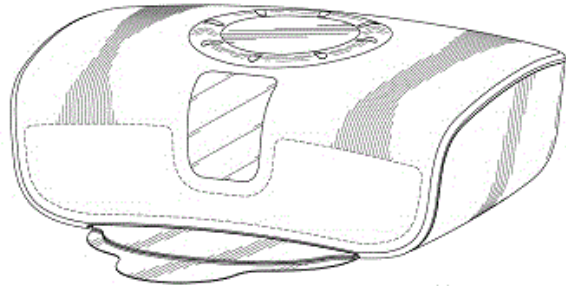
FRONT AND RIGHT SIDE PERSPECTIVE VIEW

21: A2022/00533 22: 2022-05-16 23:
 43: 2022-12-06
 52: Class 24. 24: Part A
 71: REGENERON PHARMACEUTICALS, INC.
 33: US 31: 29/815,785 32: 2021-11-16
54: Wearable Autoinjector
 57: The design relates to a wearable autoinjector.
 The features of the design are those of shape and/or
 configuration and/or ornamentation.



FRONT AND RIGHT SIDE PERSPECTIVE VIEW

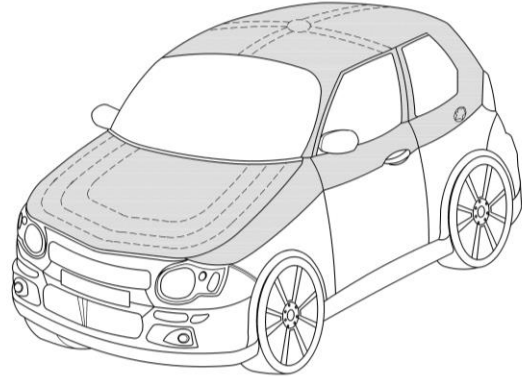
21: A2022/00534 22: 2022-05-16 23: 43: 2022-12-06
 52: Class 24. 24: Part A
 71: REGENERON PHARMACEUTICALS, INC.
 33: US 31: 29/815,785 32: 2021-11-16
54: Wearable Autoinjector
 57: The design relates to a wearable autoinjector. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



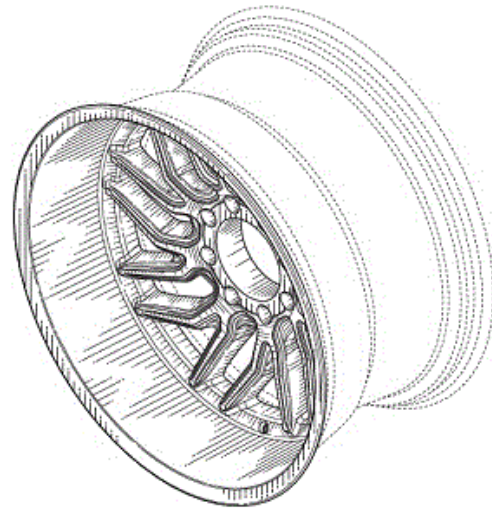
FRONT AND RIGHT SIDE PERSPECTIVE VIEW

21: A2022/00536 22: 2022-05-17 23: 43: 2022-05-17
 52: Class 12 24: Part A
 71: BUHALI, Thoko Nelsy
54: VEHICLES
 57: The design is for a three-door hatchback vehicle. A top portion of the vehicle, indicated by a shaded portion, is of different colouration. Furthermore, the shaded portion is shaped and configured to resemble the appearance of headgear in the form of a cap. Broken lines on the bonnet, roof and rear of the vehicle serve to resemble stitching or trim seen on a cap. A curved line runs along both sides of the vehicle from above a rear light cluster to a headlight cluster at the front of the vehicle. The line forms an

upward notch at an intersection of the door and the front wheel arch panel.

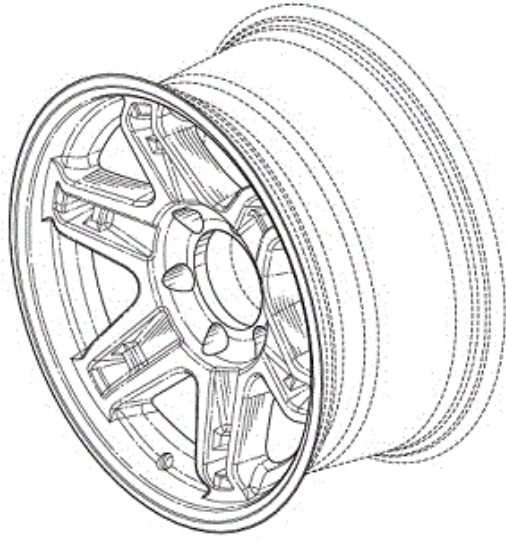


21: A2022/00539 22: 2022-05-19 23: 43: 2022-12-06
 52: Class 12. 24: Part A
 71: WHEEL PROS, LLC
 33: US 31: 29/822,702 32: 2022-01-11
54: Wheel
 57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

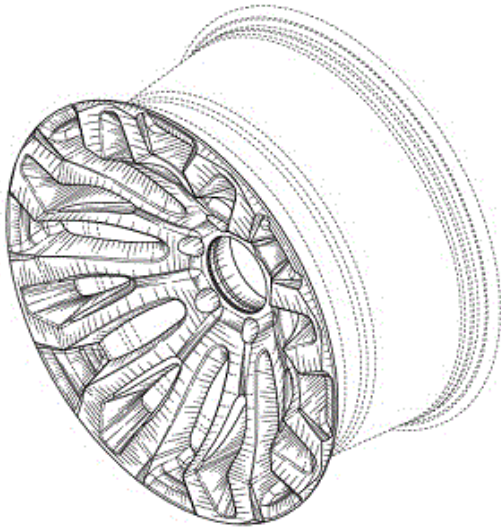
21: A2022/00540 22: 2022-05-19 23: 43: 2022-12-06
 52: Class 12. 24: Part A
 71: WHEEL PROS, LLC
 33: US 31: 29/822,544 32: 2022-01-10
54: Wheel
 57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00541 22: 2022-05-19 23:
43: 2022-12-06
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/822,549 32: 2022-01-10

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: A2022/00542 22: 2022-05-19 23:
43: 2022-12-06
52: Class 12. 24: Part A
71: WHEEL PROS, LLC

33: US 31: 29/823,172 32: 2022-01-14

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: A2022/00543 22: 2022-05-19 23:
43: 2022-12-06
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/823,851 32: 2022-01-20

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.

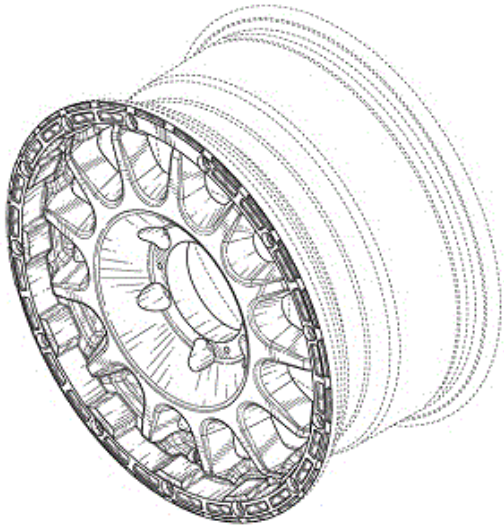


PERSPECTIVE VIEW

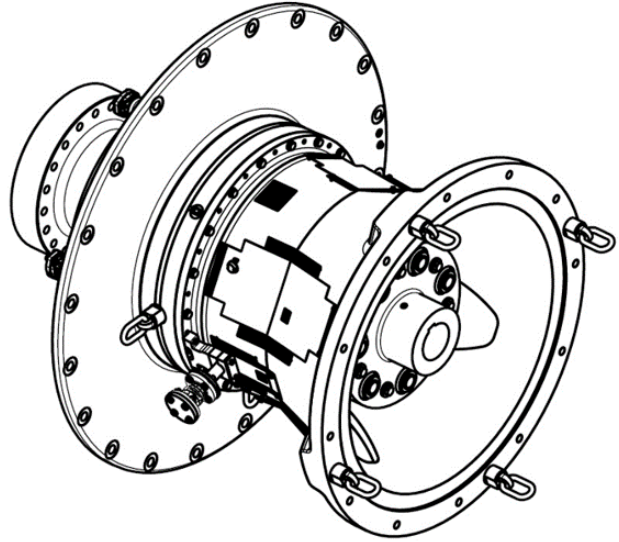
21: A2022/00545 22: 2022-05-19 23:
 43: 2022-12-06
 52: Class 12. 24: Part A
 71: WHEEL PROS, LLC
 33: US 31: 29/822,080 32: 2022-01-05

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: A2022/00552 22: 2022-05-20 23:
 43: 2022-12-06
 52: Class 12 24: Part A
 71: FLENDER GMBH
 33: EU 31: 008842314-0002 32: 2022-01-25

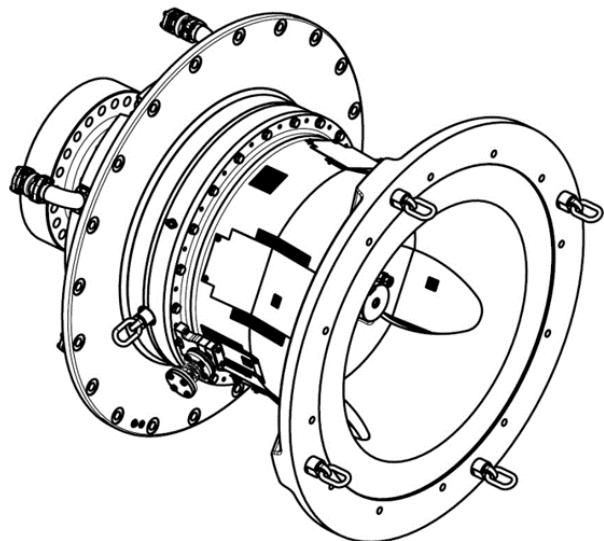
54: GEARBOX CASE COVER

57: The design is applied to a gearbox case cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gearbox case cover, substantially as illustrated in the accompanying representation.

21: A2022/00551 22: 2022-05-20 23:
 43: 2022-12-06
 52: Class 12 24: Part A
 71: FLENDER GMBH
 33: EU 31: 008842314-0001 32: 2022-01-25

54: GEARBOX CASE COVER

57: The design is applied to a gearbox case cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gearbox case cover, substantially as illustrated in the accompanying representation.

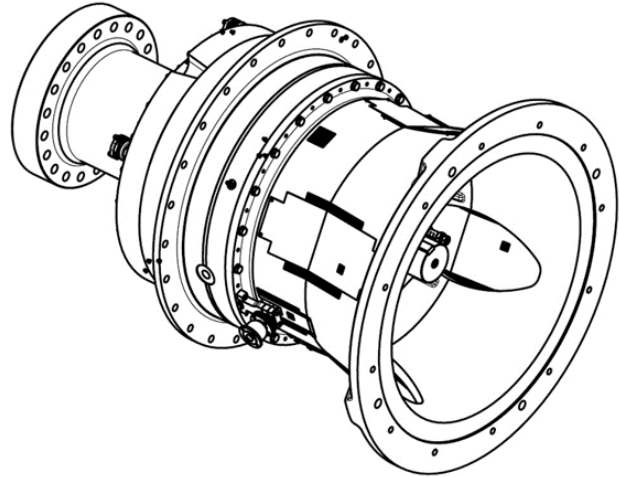
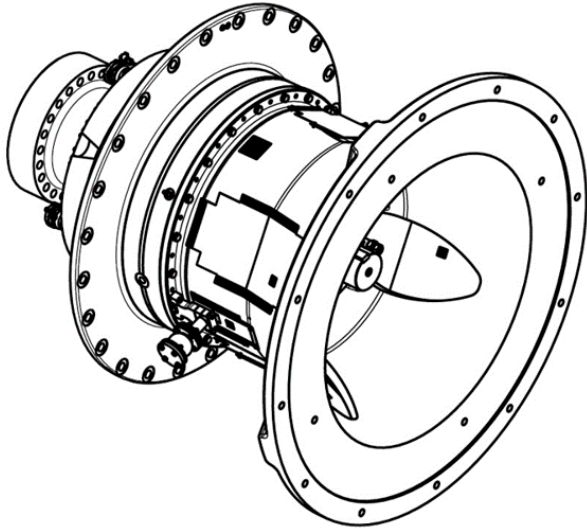


21: A2022/00553 22: 2022-05-20 23:
 43: 2022-12-06
 52: Class 12 24: Part A
 71: FLENDER GMBH

33: EP 31: 008842314-0003 32: 2022-01-25

54: GEARBOX CASE COVER

57: The design is applied to a gearbox case cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gearbox case cover, substantially as illustrated in the accompanying representation.



21: A2022/00554 22: 2022-05-20 23: 43: 2022-12-06

52: Class 12 24: Part A
71: FLENDER GMBH

33: EU 31: 008842314-0004 32: 2022-01-25

54: GEARBOX CASE COVER

57: The design is applied to a gearbox case cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gearbox case cover, substantially as illustrated in the accompanying representation.

21: A2022/00563 22: 2022-05-24 23: 43: 2022-01-13

52: Class 27 24: Part A
71: Mevol(HK)Limited

33: CN 31: 202230019965.0 32: 2022-01-13

54: ELECTRONIC CIGARETTES

57: The design is for an electronic cigarette having a streamlined shape tapered at upper and lower ends is adopted for the front surface to emphasize the feeling of the rapid response of the device; the side surfaces are designed with narrow bezels to make the whole product be visually lighter and thinner; the cigarette rod is made of multi-stage stamped aluminum alloy, with a wall thickness as low as 0.55 mm; and by utilizing a sandblasting anodizing process, the whole device feels delicate and silky. On the cartridge, a nozzle area and a hand-held area are distinguished through a contrast of glossy and matte, meanwhile, the tapered streamlined design style of the cigarette rod continues in the shape.

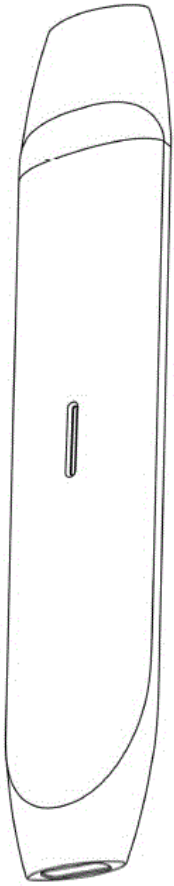
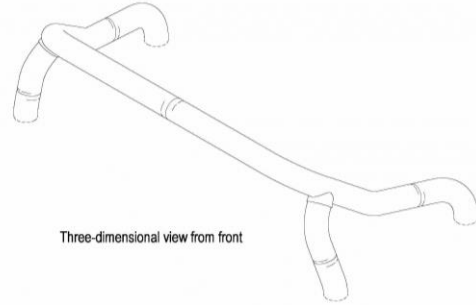


Figure 1
Three-dimensional view



Three-dimensional view from front

21: A2022/00565 22: 2022-05-24 23:
43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

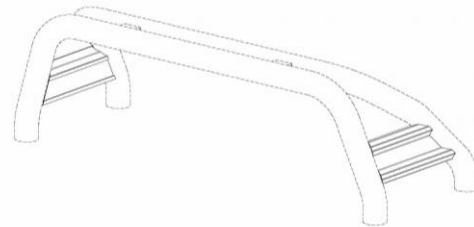
54: Sports Bars for Vehicles

57: The design is for sports bars for vehicles which comprise bins extending from cabs. The sports bar comprises first and second tubular beams. The first beam is U-shaped and comprises a horizontal portion and a pair of vertical portions extending obliquely from ends of the horizontal portion. The second beam is U-shaped and comprises a horizontal portion arranged in a parallel fashion to the horizontal portion of the first beam, and a pair of vertical portions extending obliquely from ends of the horizontal portion in a rearward fashion, away from the vertical portions of the first tubular beam. The sports bar further comprises a pair of cross-members, each extending between adjacent vertical portions of the first and second beams. Each cross-member has a generally trapezoidal profile and comprises at least two spaced apart parallel tracks. The parallel tracks are spaced apart by, and stand proud of, a connecting web.

21: A2022/00564 22: 2022-05-24 23:
43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

54: Sports Bars

57: The design is for sports bars for vehicles, particularly vehicles which comprise bins extending from cabs, substantially as depicted in the accompanying representations. The sports bars typically comprises a primary tubular bar having a horizontal portion and a pair of generally parallel vertical portions each sloping rearwardly in a transverse fashion from an end of the horizontal portion. A tubular short leg extends transversely from each of the vertical portions, adjacent the horizontal portion of the primary tubular bar. Each vertical portion has a slight kink along the length thereof before curving to a free end thereof, wherein the free ends of the vertical portions at attachable to a vehicle. Each short leg also defines a kink before terminating at a free end which is attachable to a vehicle.



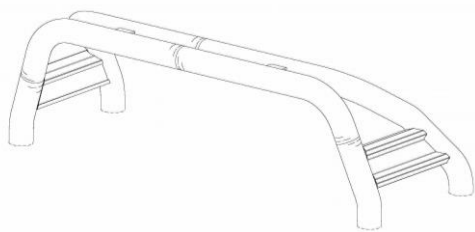
Three-dimensional view from front

21: A2022/00566 22: 2022-05-24 23:
43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

54: Sports Bars for Vehicles

57: The design is for sports bars for vehicles which comprise bins extending from cabs. The sports bar comprises first and second tubular beams. The first

beam is U-shaped and comprises a horizontal portion and a pair of vertical portions extending obliquely from ends of the horizontal portion. The second beam is U-shaped and comprises a horizontal portion arranged in a parallel fashion to the horizontal portion of the first beam, and a pair of vertical portions extending obliquely from ends of the horizontal portion in a rearward fashion, away from the vertical portions of the first tubular beam. The sports bar further comprises a pair of cross-members, each extending between adjacent vertical portions of the first and second beams. Each cross-member has a generally trapezoidal profile and comprises at least two spaced apart parallel tracks. The parallel tracks are spaced apart by, and stand proud of, a connecting web.

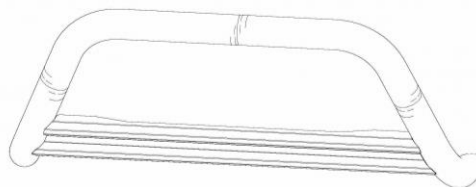


Three-dimensional view from front

21: A2022/00568 22: 2022-05-24 23: 43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

54: Nudge Bars for Vehicles

57: The design is for nudge bars for vehicles. The nudge bar comprises a tubular frame comprising a horizontal portion, and a pair of vertical portions extending obliquely from opposite ends of the horizontal portion. The vertical portions comprise curved end portions which terminate at a site at which the nudge bar is connected to the vehicle. The nudge bar further comprises at least one cross-member extending between the vertical portions such that the cross-member is parallel to the horizontal portion of the tubular frame. The cross-member has a generally trapezoidal profile and comprises at least two spaced apart parallel tracks. The parallel tracks are spaced apart by, and stand proud of, a connecting web.



Three-dimensional view from front

21: A2022/00567 22: 2022-05-24 23: 43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

54: Nudge Bars for Vehicles

57: The design is for nudge bars for vehicles. The nudge bar comprises a tubular frame comprising a horizontal portion, and a pair of vertical portions extending obliquely from opposite ends of the horizontal portion. The vertical portions comprise curved end portions which terminate at a site at which the nudge bar is connected to the vehicle. The nudge bar further comprises at least one cross-member extending between the vertical portions such that the cross-member is parallel to the horizontal portion of the tubular frame. The cross-member has a generally trapezoidal profile and comprises at least two spaced apart parallel tracks. The parallel tracks are spaced apart by, and stand proud of, a connecting web.



Three-dimensional view from front

21: A2022/00569 22: 2022-05-24 23: 43: 2022-04-13
52: Class 27 24: Part A
71: Mevol(HK)Limited
33: CN 31: 202230207545.5 32: 2022-04-13

54: ELECTRONIC CIGARETTES

57: The design is for an electronic cigarette. In order to avoid any uncomfortable feeling in the mouth, the whole device follows the exquisite design of the first-generation product, and uses concise and round lines to interpret the outline of the product. Being different from the conventional straight cutting, this product is divided into two parts through the curved line extended to the side surfaces in combination with the glossy and matte textures, so that the whole product becomes more lively and vivid. The bottom of the cigarette rod is embellished with crystal-clear translucent materials to create a dreamlike effect without affecting the overall roundness of the curved surfaces.

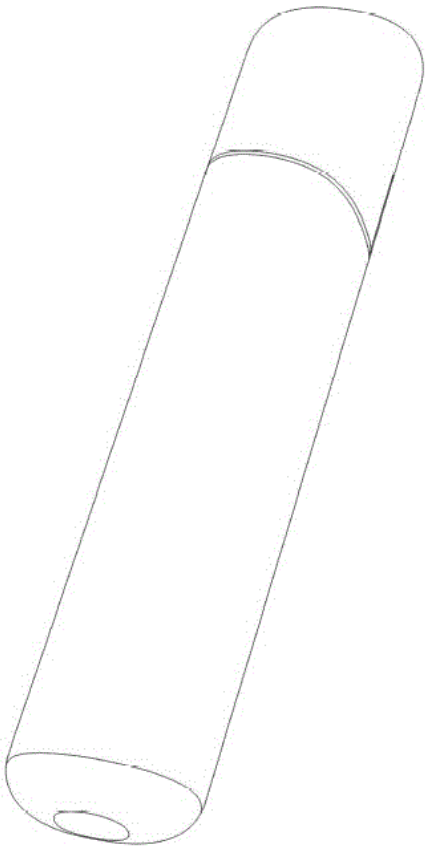
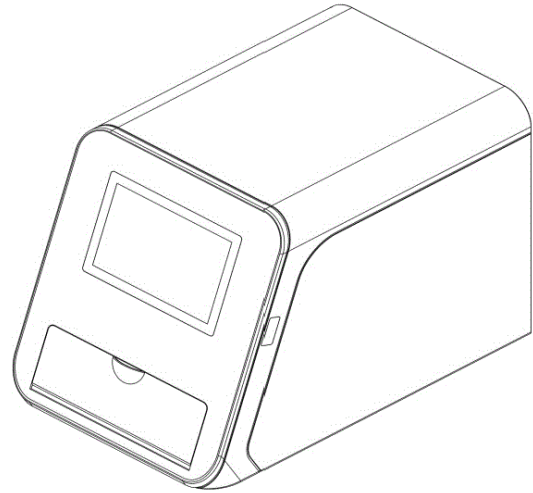


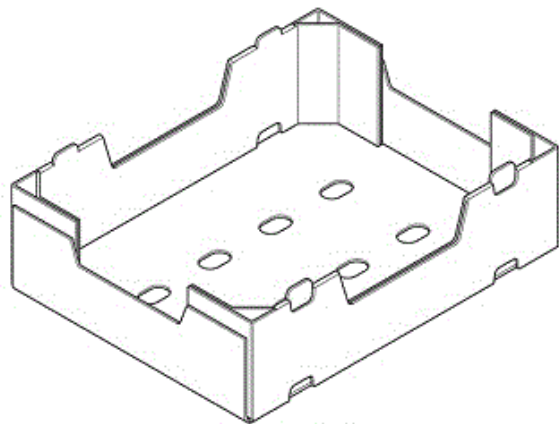
Figure 1
Three-dimensional view



21: A2022/00585 22: 2022-05-25 23:
43: 2022-12-06
52: Class 9. 24: Part A
71: MPACT LIMITED

54: Carton

57: The design relates to carton. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00584 22: 2022-05-25 23:
43: 2022-12-08
52: Class 24 24: Aesthetic
71: ASSURE TECH. (HANGZHOU) CO., LTD.
33: CN 31: 202130780405.2 32: 2021-11-26
54: CHEMILUMINESCENCE IMMUNOASSAY ANALYZER

57: The drawing shows a front perspective view of a chemiluminescence immunoassay analyzer showing the overall appearance thereof.

21: A2022/00588 22: 2022-05-26 23:
43: 2022-12-06
52: Class 02 24: Aesthetic
71: LIDDIARD, Natasha, May, Ruth, HARDY, Jason, Andrew

54: SHORTS MADE FROM DISHCLOTH MATERIAL

57: The design relates to a short pants. The short pants is made from dishcloth material with the

pattern of a typical dishcloth arranged as shown in the accompanying representations. Protection is not claimed for the part marked "A".



21: A2022/00589 22: 2022-05-26 23:
43: 2022-12-06
52: Class 9. 24: Part A
71: CJ CHEILJEDANG CORPORATION
33: KR 31: 30-2021-0063427 32: 2021-12-30

54: Container for Food Packing

57: The design relates to a container for food packing. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00590 22: 2022-05-27 23:
43: 2021-11-29
52: Class 19 24: Part A

71: Pentel Kabushiki Kaisha (also trading as Pentel Co., Ltd.)

33: JP 31: 2021-026192 32: 2021-11-29

54: PENS

57: The design is for a pen. The pen has a first major part and a second part spaced from the first major part. An inner member of the pen extends between the first major part and second part. The first major part is in the form of an elongate circular cylindrical body having a circular base and a recessed circumference portion proximate a top end of the first major part. The second part is in the form of a lid having a proximal cylindrical portion, an intermediate frustoconical portion, and an elongate tapered distal portion. A circular opening or recess is defined at a distal end of the elongate tapered distal portion of the second part. A wing-like handle or tab protrudes from a side of the proximal cylindrical portion of the second part.

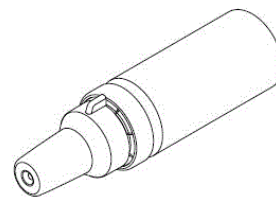


Figure 1
Three-dimensional view

21: A2022/00591 22: 2022-05-27 23:
43: 2022-12-06
52: Class 12. 24: Part A

71: TOYOTA JIDOSHA KABUSHIKI KAISHA
33: JP 31: 2021-026356 32: 2021-11-30

54: Front Bumper for an Automobile

57: The design relates to a front bumper for an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

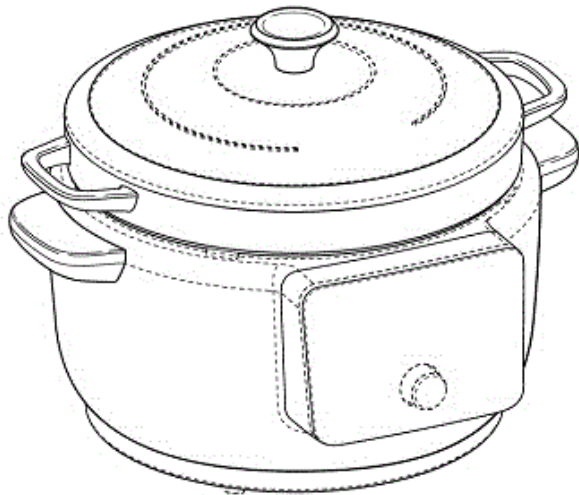


PERSPECTIVE VIEW

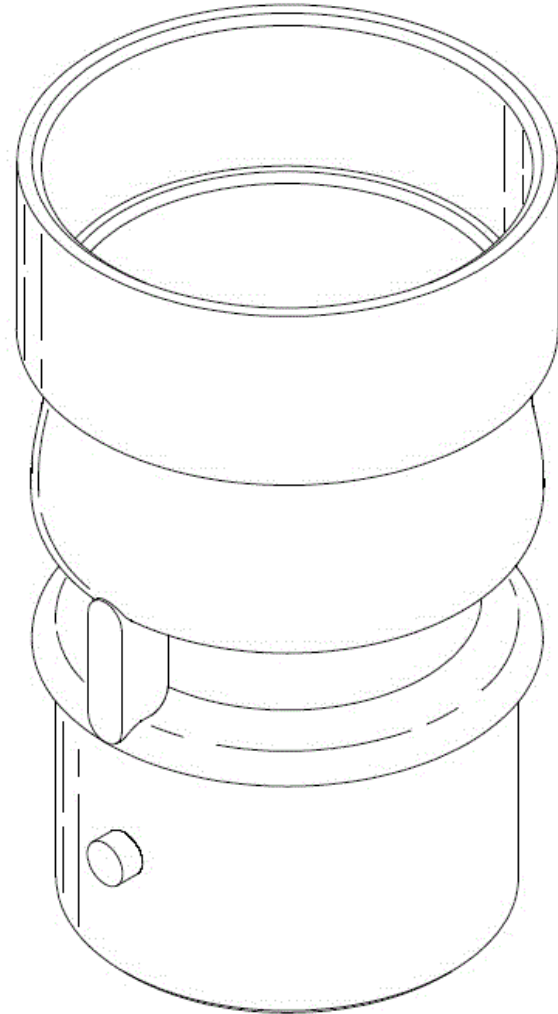
21: A2022/00592 22: 2022-05-27 23:
 43: 2022-12-06
 52: Class 7. 24: Part A
 71: INSTANT BRANDS HOLDINGS INC.
 33: US 31: 29/825,613 32: 2022-02-03

54: Cooking Appliance

57: The design relates to a cooking appliance. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW



21: A2022/00593 22: 2022-05-27 23:
 43: 2022-05-27
 52: Class 23 24: Part A
 71: Fluidra Waterlinx (Pty) Ltd

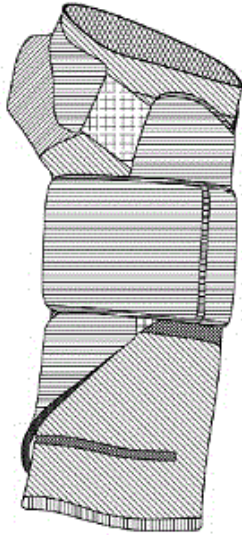
54: Adaptors

57: The design is in respect of an adaptor for selectively connecting one of a plurality of cleaning devices for cleaning submerged surfaces to a vacuum hose. The adaptor includes a body which defines a hose connecting formation and a plurality of cleaning device connecting formations whereby the adaptor is selectively disconnectably connectable to one of a plurality of cleaning devices

21: A2022/00596 22: 2022-05-30 23:
 43: 2022-12-06
 52: Class 24. 24: Part A
 71: BAUERFEIND AG
 33: IB 31: WIPO116109 32: 2022-04-26

54: Hand Brace

57: The design relates to a hand brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

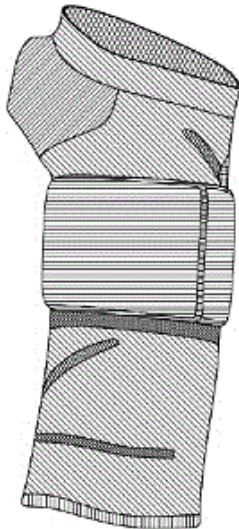


FRONT VIEW

21: A2022/00597 22: 2022-05-30 23:
43: 2022-12-06
52: Class 24. 24: Part A
71: BAUERFEIND AG
33: IB 31: WIPO116109 32: 2022-04-26

54: Hand Brace

57: The design relates to a hand brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



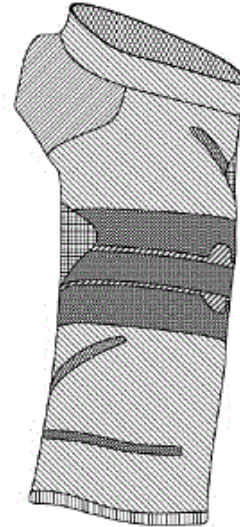
FRONT VIEW

21: A2022/00598 22: 2022-05-30 23:
43: 2022-12-06
52: Class 24. 24: Part A
71: BAUERFEIND AG

33: IB 31: WIPO116109 32: 2022-04-26

54: Hand Brace

57: The design relates to a hand brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

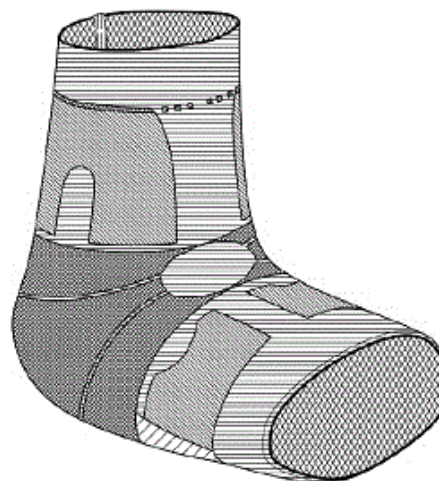


FRONT VIEW

21: A2022/00599 22: 2022-05-30 23:
43: 2022-12-06
52: Class 24. 24: Part A
71: BAUERFEIND AG
33: IB 31: WIPO116109 32: 2022-04-26

54: Ankle Brace

57: The design relates to an ankle brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

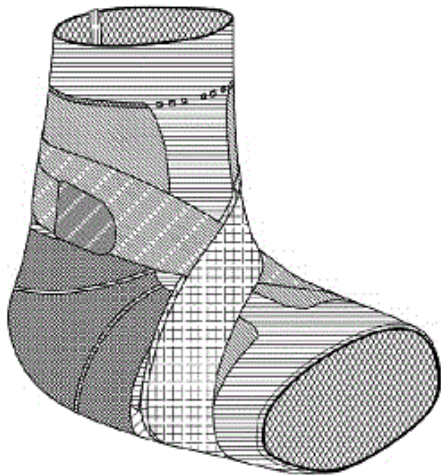


PERSPECTIVE VIEW

21: A2022/00600 22: 2022-05-30 23:
 43: 2022-12-06
 52: Class 24. 24: Part A
 71: BAUERFEIND AG
 33: IB 31: WIPO116109 32: 2022-04-26

54: Ankle Brace

57: The design relates to an ankle brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00601 22: 2022-05-30 23:
 43: 2022-12-08
 52: Class 24. 24: Part A
 71: BAUERFEIND AG
 33: IB 31: WIPO116109 32: 2022-04-26

54: Ankle Brace

57: The design relates to an ankle brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

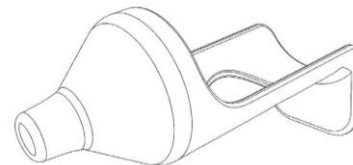


PERSPECTIVE VIEW

21: A2022/00604 22: 2022-05-31 23:
 43: 2022-12-06
 52: Class 24 24: Part A
 71: Bhavesh Gokani
 33: GB 31: 6180219 32: 2021-12-08

54: EAR DROP APPLICATOR

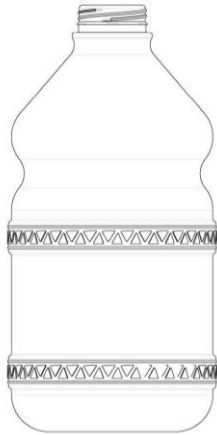
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00640 22: 2022-06-09 23:
 43: 2023-01-12
 52: Class 09 24: Part A
 71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

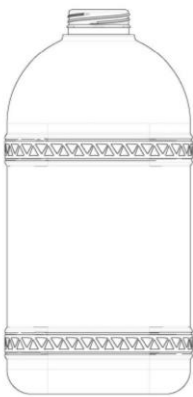
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00642 22: 2022-06-09 23:
 43: 2023-01-12
 52: Class 09 24: Part A
 71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00674 22: 2022-06-15 23:
 43: 2023-01-19
 52: Class 12 24: Part A
 71: NEO MATTHEWS MIDAKA

54: BATTERY BOX LOCK

57: The battery lock box is a complete padlock locking mechanism with a distinct feature of the same vehicle front face which has a laser cut out of the vehicle on the front plate of the battery of which it covers. It also has hinges on both the front plate and the top lever flat bar allowing both of them to swivel up and down. The padlock locks on the welded locking hole lugs found on both the front artistic

battery cover plate and the top lever flat bar. it also has a adjusting bracket on the flat bar allowing a up an down adjustments, a locking screw underneath the flat bar to tighten and adjust.



21: A2022/00685 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 12 24: Part A
 71: NEO MATTHEWS MIDAKA

54: BATTERY BOX LOCK

57: The battery box lock is a complete padlock locking mechanism with the distinct feature of the same vehicle front face which has a laser cut out of the vehicle on the front plate of the battery of which it covers. it also has hinges on both the front plate and the top lever flat bar allowing both of them to swivel up and down. The padlock locks on the welded locking hole lugs found on both the front artistic battery cover plate and the top lever flat bar.



21: A2022/00694 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 25 24: Part A
 71: SKULPOD (PTY) LTD

54: SET OF MODULAR SHELTERS

57: The design is applied to a set of modular shelters. 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 set of modular shelters, substantially as illustrated in the accompanying representation.

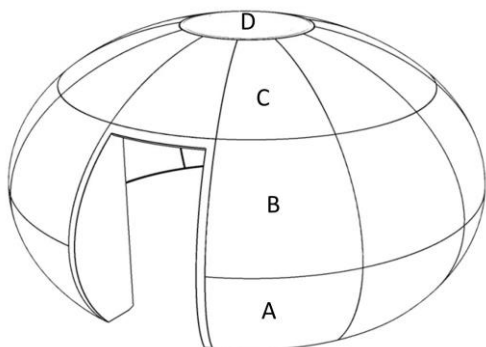


Fig.1 : Three dimensional view from front

21: A2022/00754 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00756 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

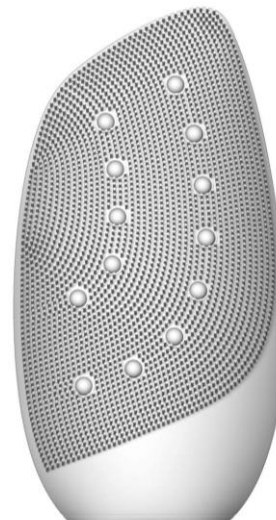
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00758 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00760 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG

54: ANTI-WRINKLE APPLIANCES

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: A2022/00762 22: 2022-06-30 23: 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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).

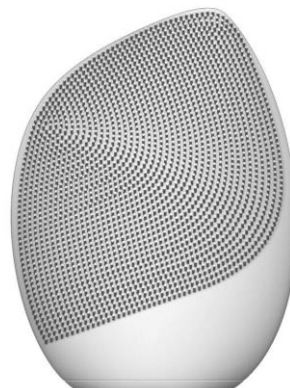


21: A2022/00764 22: 2022-06-30 23: 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

57: The features of the design for which protection is claimed include the shape and/or configuration

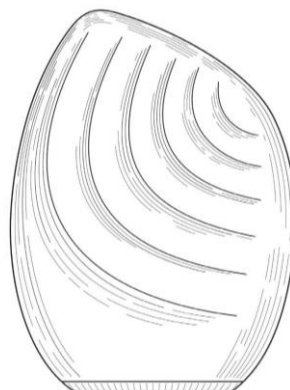
and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00766 22: 2022-06-30 23: 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00768 22: 2022-06-30 23: 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00772 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part A
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00774 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part A
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00776 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part A
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00778 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part A
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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).

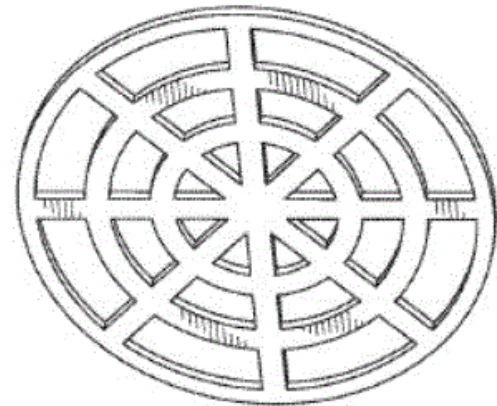
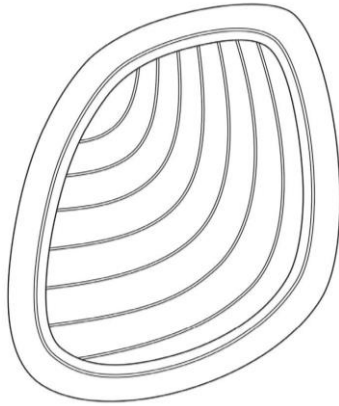
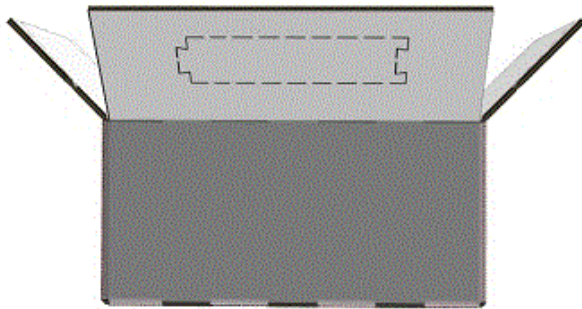


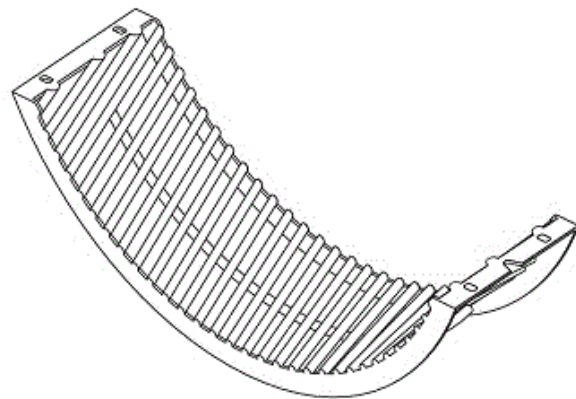
Figure 1
Three-dimensional view

21: F2019/01273 22: 2019-09-02 23:
43: 2022-12-05
52: Class 9. 24: Part F
71: NUTRISET
33: EM 31: 006588166-0001 32: 2019-06-20
54: Box
57: The design relates to a box. The features of the design are those of shape and/or configuration.

21: F2020/01581 22: 2020-12-01 23:
43: 2022-12-06
52: Class 15. 24: Part F
71: BETHAL INTERMEC ENGINEERING (PTY) LTD
54: Grate for a Combine Harvester
57: The design relates to a grate for a combine harvester. The features of the design are those of shape and/or configuration.



FRONT VIEW



PERSPECTIVE VIEW

21: F2020/01504 22: 2020-11-20 23:
43: 2020-05-22
52: Class 29 24: Part F
71: Metal Heart Group of Companies
33: US 31: 29/735,684 32: 2020-05-22
54: MASK FILTERS
57: The design is for a mask and in particular for a filter for a mask. The filter has a spiderweb design comprising concentric circles with four spaced-apart diameter lines that cross each other at a centre of the filter.

21: F2021/01130 22: 2021-09-21 23:
43: 2022-12-06
52: Class 25 24: Part F
71: STRUKSOL ENGINEERING (PTY) LTD
54: MESH SUPPORT BLANK
57: The design is applied to a mesh support blank. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the mesh support blank, substantially as illustrated in the accompanying

representation. The mesh shown in Figure 9 does not form part of the design and is disclaimed.

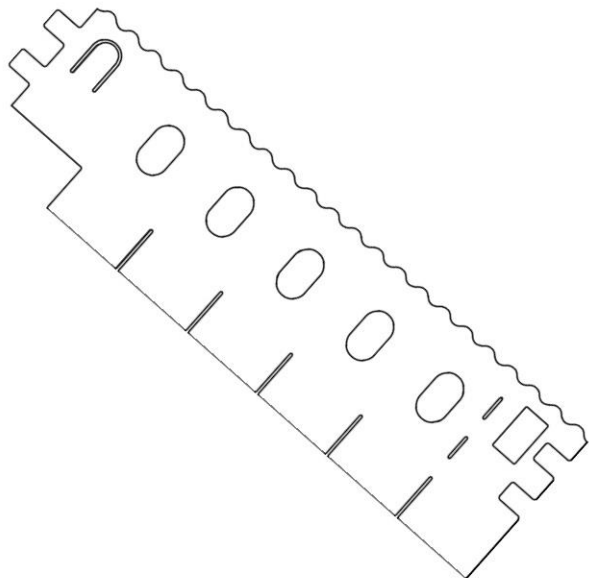
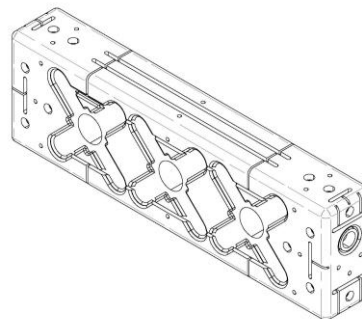


FIGURE 1:
FRONT VIEW OF A MESH SUPPORT BLANK

21: F2021/01374 22: 2021-11-05 23:
43: 2021-11-05
52: Class 9 24: Part F
71: MANILAL, Heeran

54: Storage Tanks

57: The design is for a storage tank. The storage tank includes a cuboid shaped body comprising major panels and side panels and end panels extending peripherally between the major panels. The body defines a plurality of openings of varying sizes that extend into the body and are provided on the side panels, major panels and end panels. The body further defines three longitudinally spaced openings which are larger than the other openings provided on the body. The larger sized openings extend through the body and are formed on the major panels. The major/larger sized openings are arranged to accommodate large conduits to facilitate the vertical stacking of similar storage tanks. The other openings of the varying sizes, excluding the larger sized openings, are arranged to serve either as inlets and/or outlets which are in communication with a fluid holding chamber defined by the body. The body further includes a pair of elongate, vertically spaced ribbings provided on each side panel.

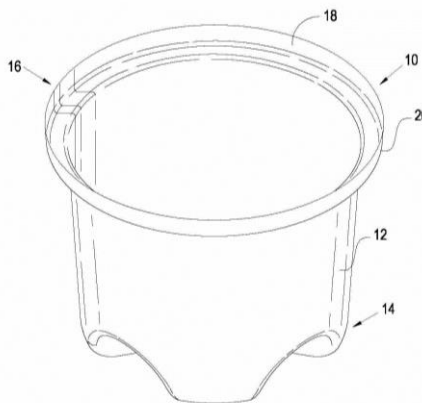


Three-dimensional view

21: F2021/01398 22: 2021-11-09 23:
43: 2021-11-09
52: Class 9 24: Part F
71: BREMNER, Colin Derek

54: Containers

57: The design is for a container, particularly a container for aquaponic and/or hydroponic applications, wherein the container is used to hold at least growing plants therein, in use. The container has a cylindrical body with extends between an open top portion of the container to a base portion thereof, wherein the container has a slight taper from the top rim towards the base portion. The top portion is provided with a flanged lip with an upturned end. The base portion comprises four equidistant concave lobes provided on an outer surface thereof which projects into an interior of the container as four convex projections. The base portion comprises an aperture aligned with a central axis of the container. The base portion comprises a frusto-conical outlet spout which is in connected to the aperture and projects axially from the outer surface of the base portion.



Three-dimensional view from above

21: F2021/01400 22: 2021-11-10 23:

43: 2023-01-12
 52: Class 09 24: Part F
 71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

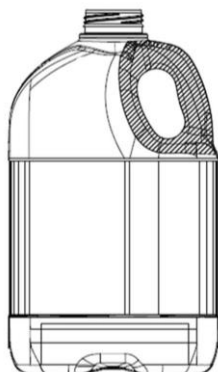
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00122 22: 2022-02-07 23:
 43: 2023-01-12
 52: Class 09 24: Part F
 71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

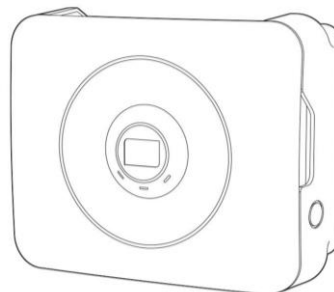
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00136 22: 2022-02-11 23:
 43: 2023-01-12
 52: Class 13 24: Part F
 71: SMA Solar Technology AG
 33: EU 31: 008686950-0005 32: 2021-09-16

54: INVERTER

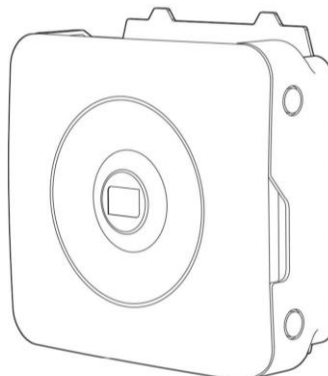
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00142 22: 2022-02-11 23:
 43: 2022-09-14
 52: Class 13 24: Part F
 71: SMA Solar Technology AG
 33: EU 31: 008686950-0013 32: 2021-09-16

54: BATTERY CHARGER

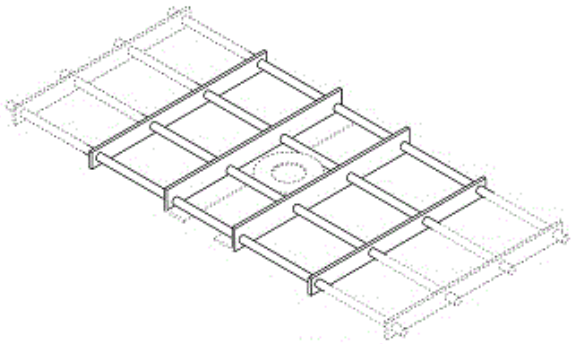
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



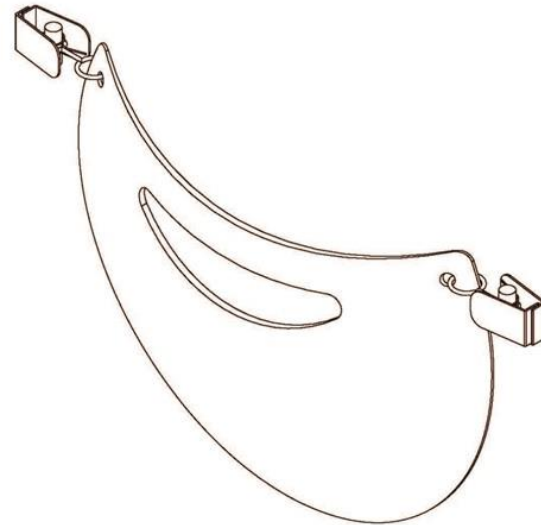
21: F2022/00214 22: 2022-02-28 23:
 43: 2022-12-06
 52: Class 25. 24: Part F
 71: DAVIES, CRAIG DAVID, DAVIES, GORDON DANIEL

54: Header Board

57: The design relates to a header board. The features of the design are those of shape and/or configuration and/or pattern.

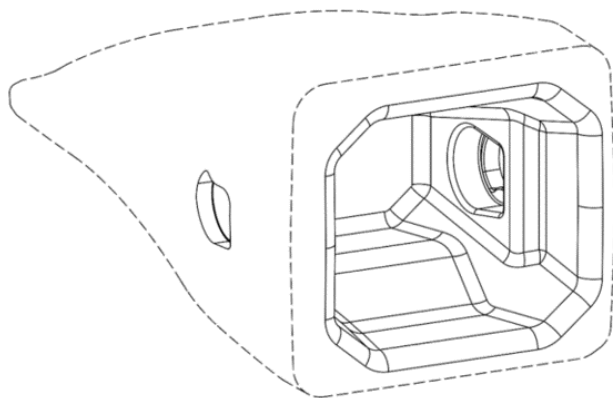


PERSPECTIVE VIEW

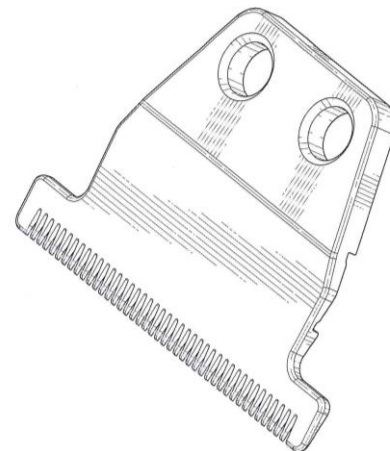


21: F2022/00317 22: 2022-03-25 23:
43: 2022-12-06
52: Class 15 24: Part F
71: CQMS PTY LTD
33: AU 31: 202116508 32: 2021-10-21
54: WEAR MEMBER

57: The design is applied to a wear member. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the wear member, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2022/00430 22: 2022-04-22 23:
43: 2022-11-03
52: Class 28 24: Part F
71: WAHL CLIPPER CORPORATION
33: US 31: 29/790211 32: 2021-11-11
54: STATIONARY BLADE FOR A HAIR TRIMMER
57: The features of the design for which protection is claimed are those of the shape and/or configuration of a stationary blade for a hair trimmer substantially as illustrated in the accompanying drawing.

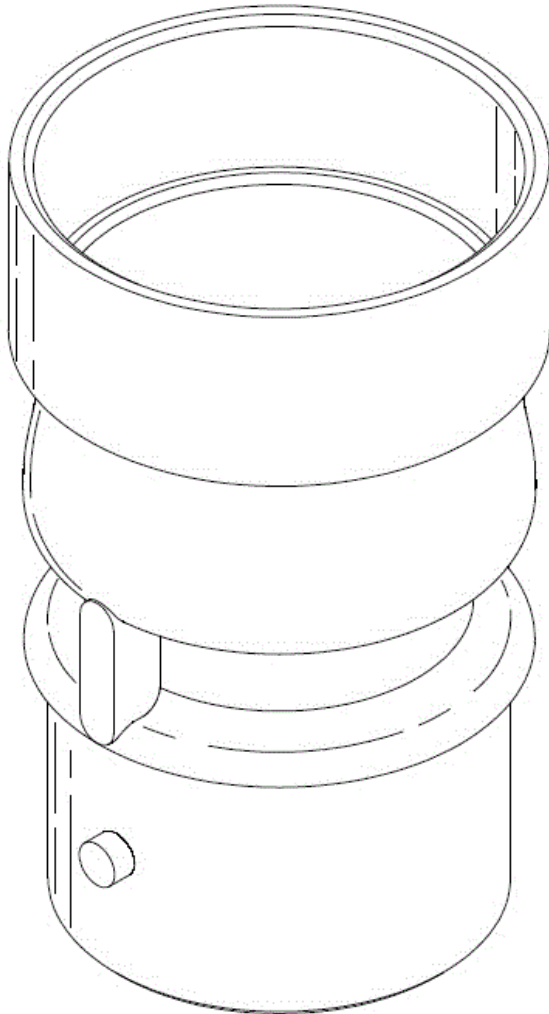


21: F2022/00406 22: 2022-04-19 23:
43: 2022-10-19
52: Class 02 24: Part F
71: BUBS IN ARMS PTY LTD
33: AU 31: 202116463 32: 2021-10-19
54: NURSING SCREEN

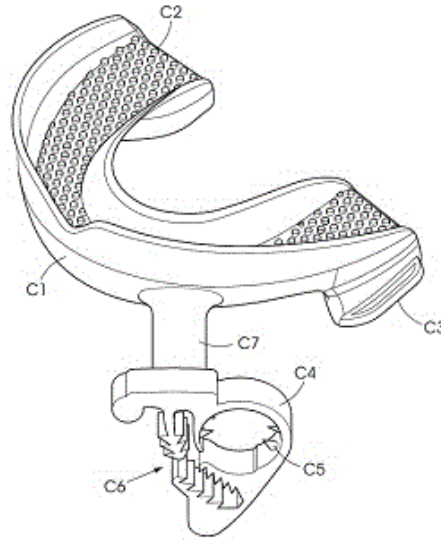
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

21: F2022/00594 22: 2022-05-27 23:
43: 2022-05-27
52: Class 23 24: Part F
71: Fluidra Waterlinx (Pty) Ltd
54: Adaptors
57: The design is in respect of an adaptor for selectively connecting one of a plurality of cleaning devices for cleaning submerged surfaces to a

vacuum hose. The adaptor includes a body which defines a hose connecting formation and a plurality of cleaning device connecting formations whereby the adaptor is selectively disconnectably connectable to one of a plurality of cleaning devices.

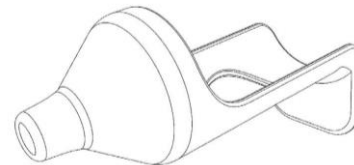


21: F2022/00603 22: 2022-05-31 23: 43: 2022-12-06
 52: Class 24. 24: Part F
 71: JIREHSA MEDICAL (PTY) LTD
54: Secure Airway Clamp Device
 57: The design relates to a secure airway clamp device. The features of the design are those of shape and/or configuration and/or pattern.

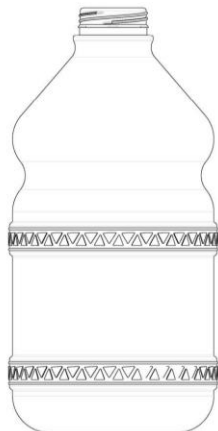


TOP PERSPECTIVE VIEW

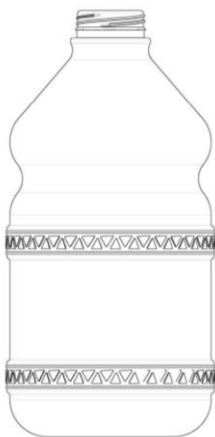
21: F2022/00605 22: 2022-05-31 23: 43: 2023-01-12
 52: Class 24 24: Part F
 71: Bhavesh Gokani
 33: GB 31: 6180219 32: 2021-12-08
54: EAR DROP APPLICATOR
 57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



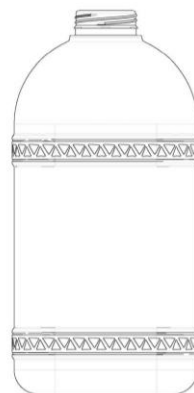
21: F2022/00641 22: 2022-06-09 23: 43: 2023-01-12
 52: Class 09 24: Part F
 71: Polyoak Packaging (Pty) Ltd
54: CONTAINER
 57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



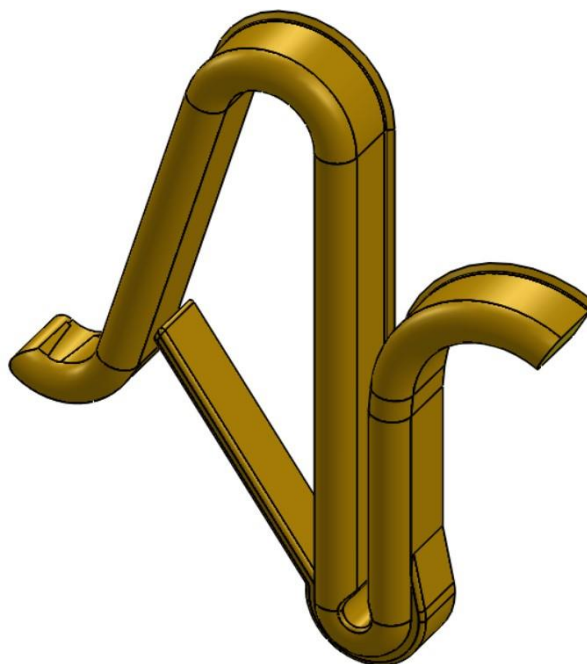
21: F2022/00641 22: 2022-06-09 23:
 43: 2023-01-12
 52: Class 09 24: Part F
 71: Polyoak Packaging (Pty) Ltd
54: CONTAINER
 57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00643 22: 2022-06-09 23:
 43: 2023-01-12
 52: Class 09 24: Part F
 71: Polyoak Packaging (Pty) Ltd
54: CONTAINER
 57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



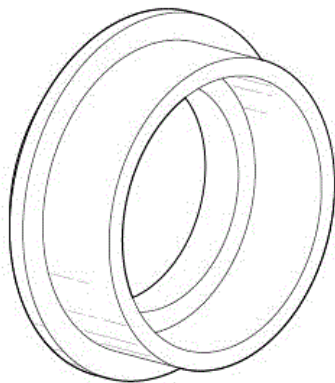
21: F2022/00684 22: 2022-06-17 23:
 43: 2023-01-19
 52: Class 08 24: Part F
 71: DE KOCK, Jean Pierre
54: PLANT TRAINING HOOK
 57: The design is for a plant training hook that forms a tight recess and an open, tapering recess, open to opposing sides of the hook, with a resilient detent spanning the open tapering recess. The plant training hook has a cross-sectional profile that flares outwards towards a rear surface and the flaring profile provides a pinching grip in the tight recess and a gentler grip in the open tapering recess.



21: F2022/00687 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F

71: HELLERMANNTYTON (PTY) LTD
54: SEAL DEFORMING MEMBER FOR A CABLE GLAND

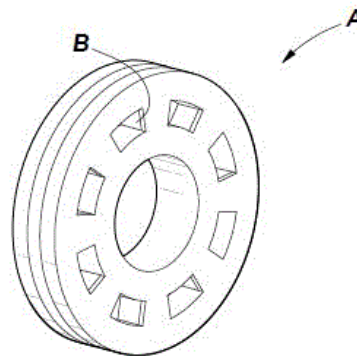
57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal deforming member, substantially as illustrated in the accompanying representations.



FIRST PERSPECTIVE VIEW

54: SEAL FOR A CABLE GLAND

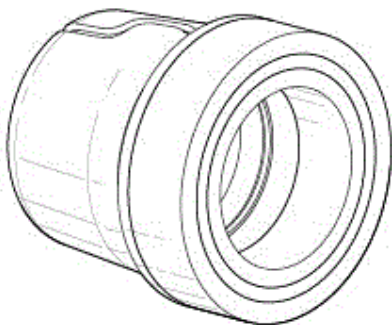
57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal A (defining a plurality of sockets B), substantially as illustrated in the accompanying representations, irrespective of the number of sockets B.



FIRST PERSPECTIVE VIEW

21: F2022/00689 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F
 71: HELLERMANNTYTON (PTY) LTD
54: A SEAL AND CABLE GRIPPING ASSEMBLY FOR A CABLE GLAND

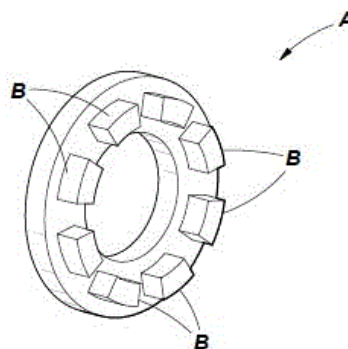
57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal and cable gripping assembly, substantially as illustrated in the accompanying representations.



FIRST PERSPECTIVE VIEW

21: F2022/00691 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F
 71: HELLERMANNTYTON (PTY) LTD
54: SEAL DEFORMING MEMBER FOR A FOR A CABLE GLAND

57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal deforming member A (comprising a plurality of prongs B), substantially as illustrated in the accompanying representations, irrespective of the number of prongs B.



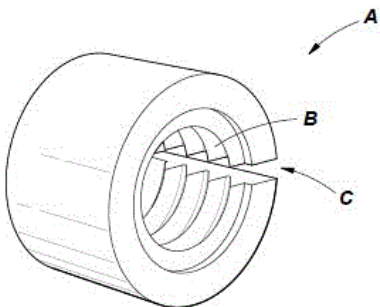
FIRST PERSPECTIVE VIEW

21: F2022/00690 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F
 71: HELLERMANNTYTON (PTY) LTD

21: F2022/00692 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F

71: HELLERMANNTYTON (PTY) LTD
54: CABLE GRIPPING MEMBER FOR A CABLE GLAND

57: The features of the design for which protection is claimed comprise the shape and/or configuration of a cable gripping member A (comprising a plurality of teeth B and defining a slot C), substantially as illustrated in the accompanying representations, irrespective of the number of teeth B and the shape of the slot C.

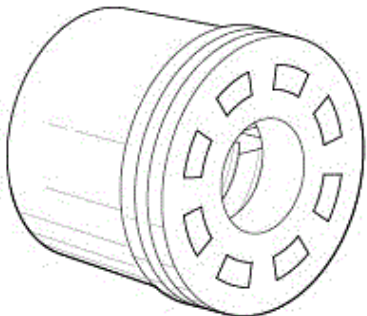


FIRST PERSPECTIVE VIEW

21: F2022/00693 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F

71: HELLERMANNTYTON (PTY) LTD
54: A SEAL AND CABLE GRIPPING ASSEMBLY FOR A CABLE GLAND

57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal and cable gripping assembly, substantially as illustrated in the accompanying representations.



FIRST PERSPECTIVE VIEW

21: F2022/00755 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part F
 71: Triple A Finance GmbH & Co. KG

33: WO 31: WIPO111814 32: 2021-12-30
54: ANTI-WRINKLE APPLIANCES

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: F2022/00757 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part F
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30
54: ANTI-WRINKLE APPLIANCES

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: F2022/00761 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part F
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30
54: ANTI-WRINKLE APPLIANCES

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: F2022/00763 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00765 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

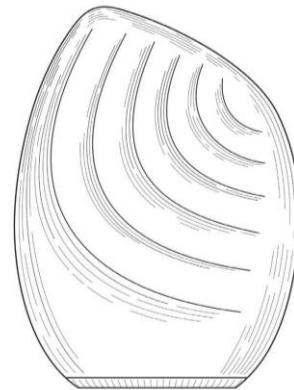
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00767 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG

54: ANTI-WRINKLE APPLIANCES

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: F2022/00769 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00771 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00773 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00775 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00777 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00779 22: 2022-06-30 23:
43: 2023-01-12

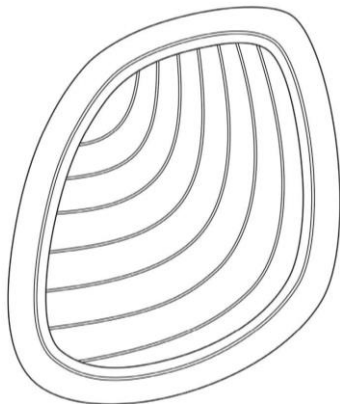
52: Class 28 24: Part F

71: Triple A Finance GmbH & Co. KG

33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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).



HYPOTHECATIONS

No records available

JUDGMENTS

OFFICE PRACTISE NOTICES

3. 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 2023/01/23 -

A2023/00091 - S.I.P.A. Societa' Industrializzazione Progettazione e Automazione S.p.A. Class 9. BOTTLES

A2023/00090 - S.I.P.A. Societa' Industrializzazione Progettazione e Automazione S.p.A. Class 9. BOTTLES

F2023/00088 - Polyoak Packaging (Pty) Ltd Class 09. CAP

A2023/00092 - ABEL ZAKHELE HLUMBANE Class 03. HIDE SISTER HIDE FOLDABLE STAND

A2023/00087 - Polyoak Packaging (Pty) Ltd Class 09. CAP

A2023/00089 - S.I.P.A. Societa' Industrializzazione Progettazione e Automazione S.p.A. Class 9. BOTTLES

- APPLIED ON 2023/01/24 -

A2023/00096 - AGI SURETRACK LLC Class 10. SENSOR

A2023/00095 - AGI SURETRACK LLC Class 10. SENSOR

A2023/00097 - AGI SURETRACK LLC Class 10. SENSOR

F2023/00094 - KELLY CHRISTINE VAN STADEN Class 02. A DEVICE FOR ASSISTING THE RETENTION OF A HEARING AID APPARATUS

A2023/00093 - KELLY CHRISTINE VAN STADEN Class 02. A DEVICE FOR ASSISTING THE RETENTION OF A HEARING AID APPARATUS

- APPLIED ON 2023/01/25 -

F2023/00099 - OLIVIER, Magdalena Elizabeth Class 19. LABEL POCKET

F2023/00098 - Adrian Viljoen Class 13. STARTBRID-40

A2023/00114 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00113 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. CONTROLLER FOR ELECTRONIC DEVICE

A2023/00112 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER

A2023/00111 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. CONTROLLER FOR ELECTRONIC DEVICE

A2023/00110 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. UNIT FOR THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00109 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00106 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER

A2023/00105 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00101 - SONY INTERACTIVE ENTERTAINMENT INC. Class 13. CONNECTOR

A2023/00108 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. CONTROLLER FOR ELECTRONIC DEVICE

A2023/00107 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00104 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00103 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00102 - SONY INTERACTIVE ENTERTAINMENT INC. Class 14. UNIT FOR THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE

A2023/00100 - JAN DANIEL CILLIERS Class 7. GEL EXTRACTOR

. - APPLIED ON 2023/01/26 -

A2023/00120 - CROWN PACKAGING TECHNOLOGY, INC. Class 09. FULL APERTURE BEVERAGE CAN END

A2023/00117 - FULL FORTUNE INTELLECTUAL LIMITED Class 2. OUTSOLE

F2023/00116 - WSR IP (PTY) LTD. Class 13. LOW VOLTAGE CONNECTOR PANELS

F2023/00122 - Daphne Water Solutions Limited Class 23. WATER FILTRATION DEVICE

A2023/00119 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 8. KEYS

A2023/00118 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 12. AUTOMOBILES

A2023/00115 - WSR IP (PTY) LTD. Class 13. LOW VOLTAGE CONNECTOR PANELS

F2023/00121 - SolvPac (Pty) Ltd Class 9. CONTAINER LIDS

. - APPLIED ON 2023/01/27 -

F2023/00124 - Polyoak Packaging (Pty) Ltd Class 09. BOTTLE

A2023/00123 - Polyoak Packaging (Pty) Ltd Class 09. BOTTLE

A2023/00125 - Polyoak Packaging (Pty) Ltd Class 09. PULL TAB

F2023/00126 - Polyoak Packaging (Pty) Ltd Class 09. PULL TAB

- APPLIED ON 2023/01/30 -

F2023/00134 - LOCKSECURE (PTY) LTD Class 8. CAM SPRING

A2023/00137 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 12. AUTOMOBILES

A2023/00139 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 12. AUTOMOBILES

F2023/00133 - LOCKSECURE (PTY) LTD Class 8. PADLOCK SLEEVE

F2023/00135 - LOCKSECURE (PTY) LTD Class 8. ACTUATOR BAR

F2023/00132 - LOCKSECURE (PTY) LTD Class 8. CAM FOR PADLOCK

A2023/00127 - Kvp Trading Class 02. CALVIN WESTLEIGH PILLAY

F2023/00131 - LOCKSECURE (PTY) LTD Class 8. PADLOCK BODY

A2023/00128 - Monicafernsolutions Class 11. DESIGN

A2023/00129 - Monicafernsolutions Class 11. DESIGN 34

A2023/00130 - Monicafernsolutions Class 11. DESIGN 12

A2023/00138 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 21. CARS

A2023/00136 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 21. CARS

- APPLIED ON 2023/01/31 -

A2023/00140 - WATERARC SOLUTIONS (PTY) LTD. Class 25. A FILTER CAGE

- APPLIED ON 2023/02/01 -

A2023/00143 - Crocs, Inc. Class 2. FOOTWEAR

A2023/00141 - Chwayita Xozwa Class 32. THE PHOENIX BIRD IN PREVILLAGED LIFESTYLE

F2023/00145 - Wireman Pty Limited Class 25. A RURAL FENCE PICKET

A2023/00146 - themba ntombana Class 32. STREET INTELLIGENCE

F2023/00142 - MICHAEL ZIBONELE KHUMALO Class 19. NUMERICAL CALENDAR

A2023/00144 - Crocs, Inc. Class 2. FOOTWEAR

- APPLIED ON 2023/02/02 -

F2023/00149 - Austin Engineering Limited Class 12. TRUCK BODIES

A2023/00152 - REGENERON PHARMACEUTICALS, INC. Class 9. PACKAGING

A2023/00153 - REGENERON PHARMACEUTICALS, INC. Class 9. PACKAGING

F2023/00154 - WIREMAN PTY LIMITED Class 25. A POST JOINING SLEEVE ASSEMBLY

A2023/00150 - REGENERON PHARMACEUTICALS, INC. Class 9. PACKAGING

F2023/00148 - Austin Engineering Limited Class 12. TRUCK BODIES

A2023/00147 - Austin Engineering Limited Class 12. TRUCK BODIES

A2023/00151 - REGENERON PHARMACEUTICALS, INC. Class 9. PACKAGING

- APPLIED ON 2023/02/03 -

F2023/00155 - SMT SCHARF AFRICA (PTY) LTD Class 12. LOW PROFILE - ELECTRICALLY POWERED TRANSPORTATION MINING VEHICLE

A2023/00159 - Castrol Limited Class 9. CONTAINERS

A2023/00156 - SMT SCHARF AFRICA (PTY) LTD Class 12. LOW PROFILE - ELECTRICALLY POWERED TRANSPORTATION MINING VEHICLE

F2023/00170 - WIREMAN PTY LIMITED Class 25. A FENCE COMPONENT OF INDEFINITE LENGTH

A2023/00158 - Caterpillar Inc. Class 15. PUMPS

A2023/00157 - Caterpillar Inc. Class 15. PUMPS

A2023/00160 - Castrol Limited Class 9. CONTAINERS

- APPLIED ON 2023/02/06 -

A2023/00161 - MPact Plastic Containers Proprietary Limited Class 9. CRATES

F2023/00164 - MPact Plastic Containers Proprietary Limited Class 9. CRATES

F2023/00162 - MPact Plastic Containers Proprietary Limited Class 9. CRATES

A2023/00163 - MPact Plastic Containers Proprietary Limited Class 9. CRATES

- APPLIED ON 2023/02/08 -

A2023/00169 - SODASTREAM INDUSTRIES LTD. Class 31. DOMESTIC SODA-WATER PREPARING DEVICE

F2023/00168 - GIDEON HITCHCOCK Class 07. BRAAI GRID LOCK

- APPLIED ON 2023/02/09 -

A2023/00171 - Manelisi sibonakaliso Shabalala Class 12. SEAT BELT DETECTOR SYSTEM

A2023/00172 - DAIO PAPER CORPORATION Class 2. DISPOSABLE DIAPER

F2023/00174 - Izzy Izzy Scooters (Pty) Ltd Class 12. RAMP

F2023/00176 - 18 TEN ACCESSORIES CC Class 07. A COOKING APPARATUS

F2023/00178 - 18 TEN ACCESSORIES CC Class 07. A COOKING ACCESSORY

A2023/00173 - Pakavi Pty Ltd Class 09. TOY FOOD PACKAGING

A2023/00177 - 18 TEN ACCESSORIES CC Class 07. A COOKING ACCESSORY

A2023/00175 - 18 TEN ACCESSORIES CC Class 07. A COOKING APPARATUS

. - APPLIED ON 2023/02/10 -

F2023/00179 - Vuyisile Aaron Ramafikeng Class 08. GMR GB HOE

. - APPLIED ON 2023/02/13 -

A2023/00183 - SIR FRUIT (PTY) LTD Class 09. A BOTTLE

F2023/00184 - FIKAGEAR B.V. Class 25. ENCLOSURES FOR A HOCKEY FIELD

A2023/00187 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00188 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00191 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00194 - CEPHEID Class 24. DIAGNOSTIC ASSAY SYSTEM

A2023/00180 - RETAIL ASSOCIATES (PTY) LTD Class 21. EXERCISING APPARATUS

F2023/00181 - RETAIL ASSOCIATES (PTY) LTD Class 21. EXERCISING APPARATUS

A2023/00185 - SIR FRUIT (PTY) LTD Class 09. A BOTTLE

A2023/00192 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

F2023/00182 - FIKAGEAR B.V. Class 25. ENCLOSURES FOR A HOCKEY FIELD

A2023/00186 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00189 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00190 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

A2023/00193 - DART INDUSTRIES INC. Class 7. DRINKING TUMBLER WITH A COVER

F2023/00195 - iCutter Industries Australia Pty Ltd Class 08. A DRILL BIT

. - APPLIED ON 2023/02/14 -

F2023/00197 - Aloma Annelene Grobler Class 29. BUGGY WHIP

F2023/00196 - Daphne Water Solutions Limited Class 23. WATER FILTRATION DEVICE

F2023/00198 - EJAT Lerm Class 30. NECTAR FEEDER

. - APPLIED ON 2023/02/15 -

A2023/00200 - FORTIS X (PTY) LTD Class 09. CONTAINER B

A2023/00199 - FORTIS X (PTY) LTD Class 09. CONTAINER A

- APPLIED ON 2023/02/16 -

F2023/00203 - GERALD JOSEPH DESIGN CC Class 26. COMPONENT FOR A LIGHT FITTING

A2023/00202 - GERALD JOSEPH DESIGN CC Class 26. COMPONENT FOR A LIGHT FITTING

A2023/00201 - Crocs, Inc. Class 2. FOOTWEAR

- APPLIED ON 2023/02/17 -

A2023/00205 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE

A2023/00217 - INSTANT BRANDS HOLDINGS INC. Class 7. BEVERAGE KETTLE

F2023/00204 - Kabelo Sehlati Class 02. PESET TK1

A2023/00208 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE

A2023/00209 - INSTANT BRANDS HOLDINGS INC. Class 7. AIR FRYER

A2023/00210 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE USER INTERFACE

A2023/00213 - INSTANT BRANDS HOLDINGS INC. Class 7. POT FOR A COOKING APPLIANCE

A2023/00207 - INSTANT BRANDS HOLDINGS INC. Class 7. BREWING DEVICE

A2023/00206 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE HOUSING

A2023/00212 - INSTANT BRANDS HOLDINGS INC. Class 7. HANDLES FOR A COOKING APPLIANCE

A2023/00215 - INSTANT BRANDS HOLDINGS INC. Class 7. BEVERAGE FROTHER

A2023/00216 - INSTANT BRANDS HOLDINGS INC. Class 7. TOASTER

A2023/00214 - INSTANT BRANDS HOLDINGS INC. Class 7. BREWING DEVICE

A2023/00211 - INSTANT BRANDS HOLDINGS INC. Class 7. COOKING APPLIANCE HANDLE

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

No records available

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (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: A2019/01599 22: 2019-10-25 23:
43: 2022-12-05
52: Class 31. 24: Part A
71: ARÇELIK ANONIM SIRKETI
33: EM 31: 006777611 32: 2019-08-27

54: Blender

57: The design relates to a blender. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

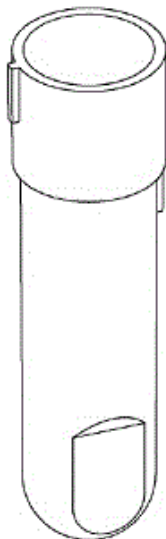


PERSPECTIVE VIEW

21: A2020/01278 22: 2020-09-23 23:
43: 2022-12-08
52: Class 24. 24: Part A
71: HITACHI HIGH-TECH CORPORATION
33: JP 31: 2020-005602 32: 2020-03-24

54: Cuvette

57: The design relates to a cuvette. The features of the design are those of shape and/or configuration.



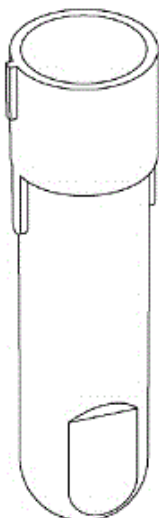
PERSPECTIVE VIEW

21: A2020/01281 22: 2020-09-23 23: 43: 2022-12-08

52: Class 24. 24: Part A
71: HITACHI HIGH-TECH CORPORATION
33: JP 31: 2020-005603 32: 2020-03-24

54: Cuvette

57: The design relates to a cuvette. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: A2020/01333 22: 2020-10-06 23: 43: 2020-04-07

52: Class 9 24: Part A
71: Oji Fibre Solutions (NZ) Limited
33: NZ 31: 427356 32: 2020-04-07

54: LIDDED CONTAINERS

57: The design is applied to a lidded container comprising a container part and a lid part. The container part comprises a base, a pair of opposite end panels and opposite side panels extending peripherally upwardly from the base. Each of the side panels define a pair of vertically arranged, oblong minor openings positioned proximate the lower corners thereof, and a pair of vertically arranged, oblong larger openings situated at a top portion thereof. Each of the end panels comprises a horizontally arranged, oblong opening situated proximate an outer edge thereof, and a pair of oblong, vertically arranged, minor openings positioned at the lower corners thereof. The lid part comprises truncated openings provided on the top portion of the side panels thereof. Upon assembly, excluding the truncated openings, the openings on the lid and container parts are arranged to be in register.

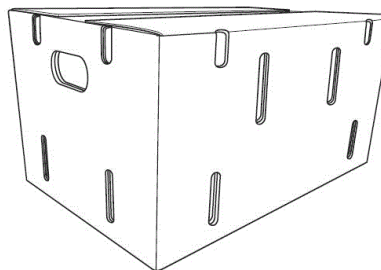


Figure 1

Three-dimensional view of a container with a lid

21: A2020/01503 22: 2020-11-20 23: 43: 2020-05-22
52: Class 29 24: Part F
71: Metal Heart Group of Companies
33: US 31: 29/735,684 32: 2020-05-22

54: MASKS

57: The design is for a mask and comprises a generally teardrop-shaped body that defines a cavity at a rear surface. A front surface is convexly curved and includes a pair of spaced apart circular filters at each side of a lower portion of the mask. Each filter has a spiderweb design comprising concentric circles with four spaced-apart diameter lines that cross each other at a centre of the filter. The filters extend from the front surface into the cavity. Two pairs of isosceles trapezium-shaped members, each

defining a recess, are positioned at edges of a mid-section and the lower portion of the mask. A rear surface of the mask includes a peripherally extending lip portion.



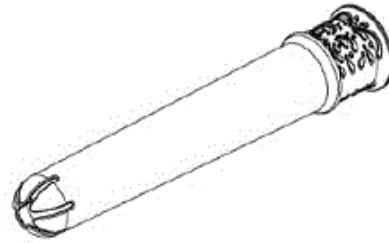
Figure 1

Three-dimensional view

21: A2020/01564 22: 2020-11-30 23:
43: 2022-12-08
52: Class 24. 24: Part A
71: BAYER CONSUMER CARE AG
33: EM 31: 008050900-0001 32: 2020-07-22

54: Vaginal applicator

57: The design relates to a vaginal applicator. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

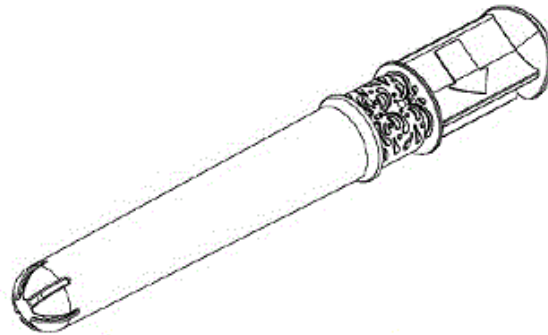


FIRST PERSPECTIVE VIEW

21: A2020/01565 22: 2020-11-30 23:
43: 2022-12-06
52: Class 24. 24: Part A
71: BAYER CONSUMER CARE AG
33: EM 31: 008050900-0002 32: 2020-07-22

54: Vaginal applicator

57: The design relates to a vaginal applicator. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

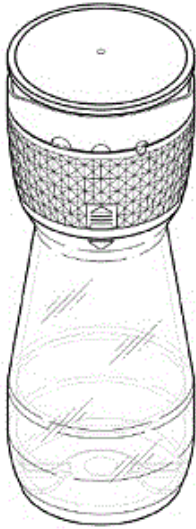


FIRST PERSPECTIVE VIEW

21: A2021/00484 22: 2021-05-06 23:
43: 2022-12-08
52: Class 7. 24: Part A
71: MCCORMICK & COMPANY, INCORPORATED
33: IB 31: DM/213459 32: 2021-02-25
33: IB 31: DM/213460 32: 2021-02-25

54: Bottle and a Cap

57: The design relates to a bottle and a cap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT AND TOP PERSPECTIVE VIEW

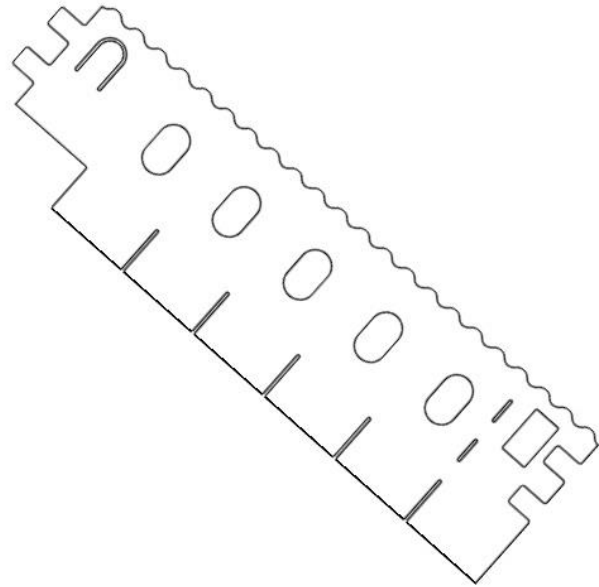


FIGURE 1:
FRONT VIEW OF A MESH SUPPORT BLANK

21: A2021/01129 22: 2021-09-21 23:
43: 2022-10-10

52: Class 25 24: Part A

71: STRUKSOL ENGINEERING (PTY) LTD

54: MESH SUPPORT BLANK

57: The design is applied to a mesh support blank. 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 mesh support blank, substantially as illustrated in the accompanying representation.

21: A2021/01393 22: 2021-11-08 23:

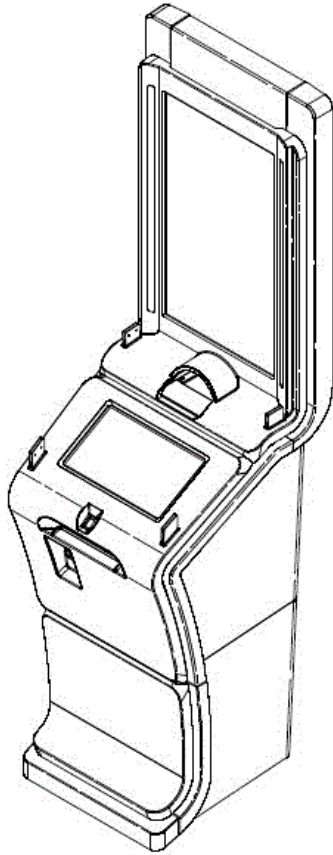
43: 2021-11-08

52: Class 14 24: Part A

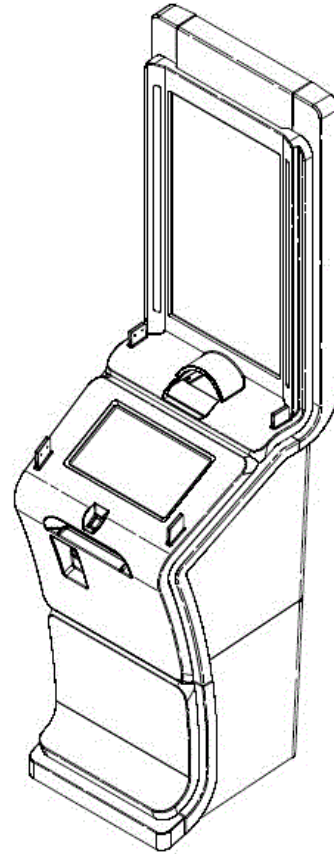
71: TYME PTE. LIMITED

54: SELF-SERVICE FINANCIAL KIOSKS

57: The design is applied to a self-service financial kiosk substantially as illustrated in the accompanying representations.



Three-dimensional view



Three-dimensional view

21: A2021/01394 22: 2021-11-08 23:
43: 2021-11-08
52: Class 20 24: Part A
71: TYME PTE. LIMITED
54: SELF-SERVICE FINANCIAL KIOSKS
57: The design is applied to a self-service financial kiosk substantially as illustrated in the accompanying representations.

21: A2021/01399 22: 2021-11-10 23:
43: 2023-01-12
52: Class 09 24: Part A
71: Polyoak Packaging (Pty) Ltd
54: CONTAINER
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00054 22: 2022-01-18 23:
43: 2022-12-06
52: Class 12. 24: Part A

71: HONDA MOTOR CO., LTD.
 33: JP 31: 2021-016030 32: 2021-07-21
54: Automobile

57: The design relates to automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2022/00057 22: 2022-01-20 23:
 43: 2021-07-20
 52: Class 9 24: Part A
 71: Alpro, commanditaire vennootschap op aandelen
 33: EM(BE) 31: 008625339-0001 32: 2021-07-20
54: PACKAGING

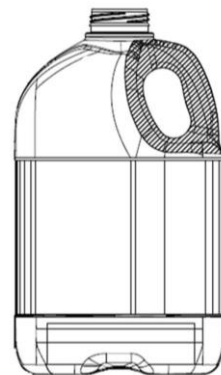
57: The design is for packaging comprising a rectangular body having a base, a top wall, front and rear walls and a pair of extending-upwardly side walls. The top wall is rearwardly upwardly inclined with a round cap with a gripping formation along an outer periphery. The top wall includes a folded surface extending downwardly as triangular folds. The front wall includes "SHHH...THIS IS NOT MLK" with "SHHH..." above "THIS IS" in the same size and font, "NOT" and "MLK" in larger size, the letter "M" followed by a milk drop graphic. The rear wall includes three icons and an arrangement of lines. A first side wall includes graphics of a milk drop, a milk carton, a branch of leaves and oat florets. A second side wall includes text in capital letters showing "THIS IS NOT MLK" with a graphics of a milk drop next to the letter "M", a glass of milk, four smaller images and oat florets.



Figure 1
 Front view

21: A2022/00120 22: 2022-02-07 23:
 43: 2023-01-12
 52: Class 09 24: Part A
 71: Polyoak Packaging (Pty) Ltd
54: CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00278 22: 2022-03-22 23:
 43: 2021-10-15

52: Class 15 24: Part A
 71: Precision Valve Corporation
 33: US 31: 29/811,683 32: 2021-10-15

54: ACTUATORS

57: The design is for an actuator comprising a circular cylindrical body having a lower portion of a greater diameter than an upper portion, the upper portion having a height at least twice that of the lower portion. A top surface of the upper portion defines a bowl-shaped recess with a rear portion inclining downwardly and a front portion defining a semi-circular recess extending to a wide triangular channel. A side wall of the upper portion includes a plurality of parallel, finger-like indentations extending from the top surface, the indentations at a front having a longer length than the indentations from a middle to a rear of the side wall, forming a wave-like pattern. A front face of the upper portion is concavely curved and defines an oval opening defined by rearwardly inclined side walls and an upwardly inclined bottom wall. An orifice is provided in the opening which includes a triangular element surrounding a rectangular element surrounding a circular member.



21: A2022/00311 22: 2022-03-25 23:
 43: 2021-09-28
 52: Class 14 24: Part A
 71: Sky CP Limited
 33: GB 31: 6165985 32: 2021-09-28

54: ELECTRONIC DEVICES

57: The design is for an electronic device, in particular a peripheral camera for a smart tv. The electronic device comprises a rectangular cuboid body comprising a substantially flat front and rear face, top face, bottom face and side faces. A rectangular shaped base protrudes centrally from the bottom face. A rectangular formation is provided on the base. The rear face defines a central rectangular opening at a top portion thereof which accommodates a connection port. A series of laterally spaced apart, vertically arranged openings are provided on either side of the rectangular opening, which vertically arranged openings span a major part of the height of the rear face. A top face is provided with a circular, raised button that is disposed proximate a right, rear corner.

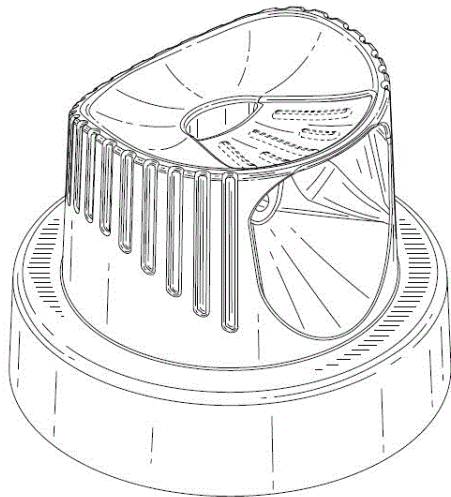


Figure 1
 Three-dimensional view

21: A2022/00287 22: 2022-03-24 23:
 43: 2022-10-07
 52: Class 23 24: Part A
 71: HANS GROHE SE
 33: EU 31: 008707889-0001 32: 2021-09-27

54: FAUCET

57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.

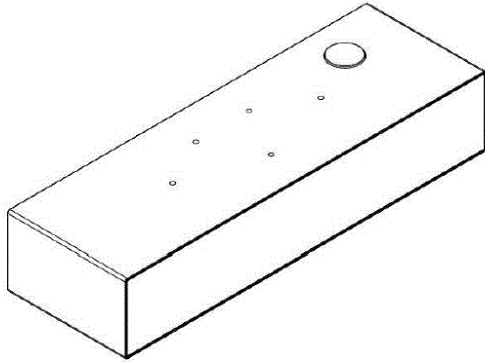


Figure 1
Three-dimensional view



Figure 1
Three-dimensional view

21: A2022/00324 22: 2022-03-28 23:
43: 2021-09-29

52: Class 12 24: Part A

71: Chery Automobile Co., Ltd.

33: CN 31: 202130648844.8 32: 2021-09-29

54: CARS

57: The design is for a car and particularly a sports utility vehicle. A front face includes an hourglass-shaped grille area with a rectangular license plate holder. A pair of headlights with sharply angular ends flank the grille, extending from the grille and curving rearwardly along each side of the car. A thin light strip connects the front headlights. A pair of pentagonal air-intake grilles flank a bottom of the grille. A waistline runs along each side of the car below each window. Each rear door includes a waistline that connects to a taillight. A protruding line and a decorative strip extend across a bottom of the doors. A rear face includes a pair of taillights with sharply angular ends curving rearwardly along each side and across a tailgate to a thin rear light strip. A pair of rectangular exhaust outlets flank a trapezoidal panel below the tailgate. A rear spoiler incorporates a horizontal light strip.

21: A2022/00345 22: 2022-04-01 23:
43: 2021-10-04

52: Class 24 24: Part A

71: Verb Surgical Inc.

33: US 31: 29/810,313 32: 2021-10-04

54: DEVICES

57: The design is for a device that has a rectangular shaped body, embodying a computing structure. The body is wide, having a rectangular base connected via a bevelled, convex interface to front and rear major walls and minor side walls. Similarly, a top of the body is rectangular and connected to the front, rear, and side walls via a bevelled, convex structure. Upright edges of the body are curved. A cradle is provided on the top of the body to support a display panel at an inclined orientation. The cradle is elongate with curved ends that wrap around a front.

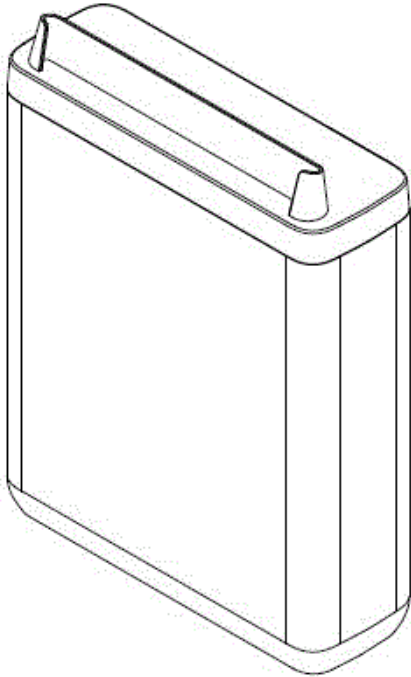


Figure 1
Three-dimensional view

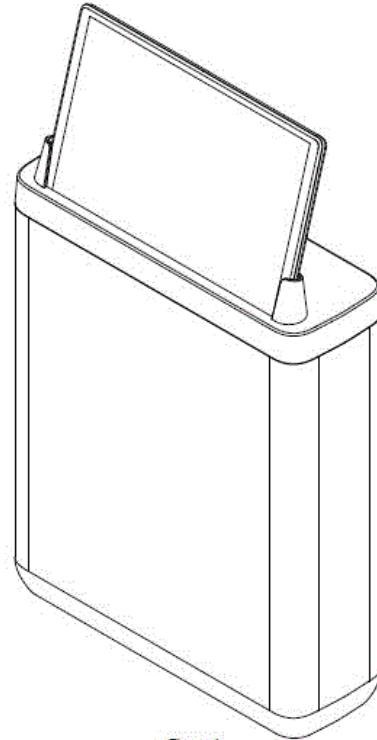


Figure 1
Three-dimensional view

21: A2022/00346 22: 2022-04-01 23:
43: 2021-10-04
52: Class 24 24: Part A
71: Verb Surgical Inc.
33: US 31: 29/810,313 32: 2021-10-04

54: DEVICES

57: The design is for a device that has a rectangular shaped body, embodying a computing structure, and an upper display panel. The body is wide, having a rectangular base connected via a bevelled, convex interface to front and rear major walls and minor side walls. Similarly, a top of the body is rectangular and connected to the front, rear, and side walls via a bevelled, convex structure. Upright edges of the body are curved. A cradle is provided on the top of the body to support the display panel at an inclined orientation. The cradle is elongate with curved ends that wrap around a front. The display panel is separable from the body.

21: A2022/00347 22: 2022-04-01 23:
43: 2021-10-04
52: Class 24 24: Part A
71: Verb Surgical Inc.
33: US 31: 29/810,313 32: 2021-10-04

54: DEVICES

57: The design is for a device that has a rectangular shaped body, embodying a computing structure, and an upper display panel. The body is wide, having a rectangular base connected via a bevelled, convex interface to front and rear major walls and minor side walls. Similarly, a top of the body is rectangular and connected to the front, rear, and side walls via a bevelled, convex structure. Upright edges of the body are curved. A cradle is provided on the top of the body to support the display panel at an inclined orientation. The cradle is elongate with curved ends that wrap around a front. The display panel is separable from the body.

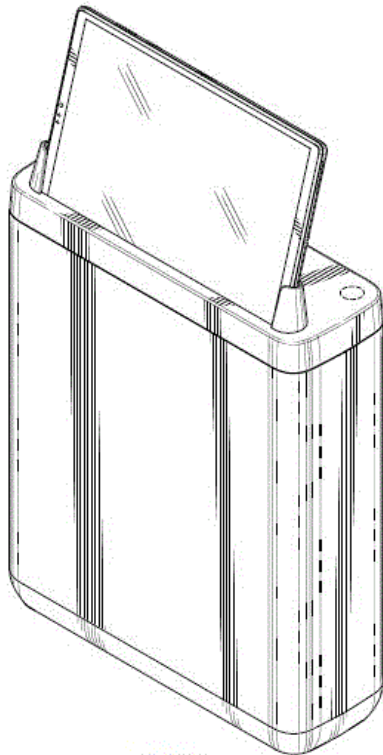


Figure 1

Three-dimensional view

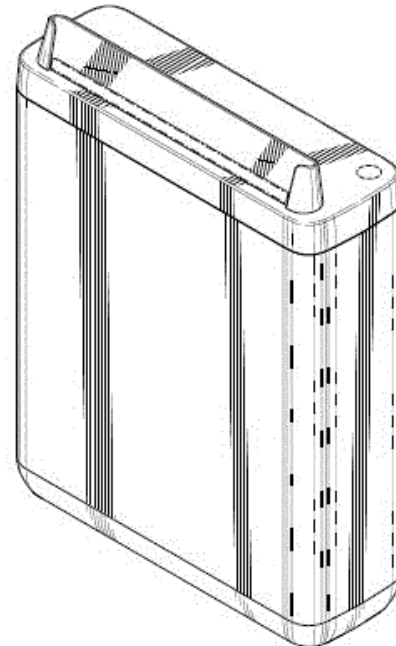


Figure 1

Three-dimensional view

21: A2022/00348 22: 2022-04-01 23:
43: 2021-10-04
52: Class 24 24: Part A
71: Verb Surgical Inc.
33: US 31: 29/810,313 32: 2021-10-04

54: DEVICES

57: The design is for a device that has a rectangular shaped body, embodying a computing structure. The body is wide, having a rectangular base connected via a bevelled, convex interface to front and rear major walls and minor side walls. Similarly, a top of the body is rectangular and connected to the front, rear, and side walls via a bevelled, convex structure. Upright edges of the body are curved. A cradle is provided on the top of the body to support a display panel at an inclined orientation. The cradle is elongate with curved ends that wrap around a front.

21: A2022/00349 22: 2022-04-04 23:
43: 2021-10-05
52: Class 28 24: Part A
71: Personnel Hygiene Services Limited
33: EM(IE) 31: 008718324-0001 32: 2021-10-05

54: AIR FRESHENERS

57: The design is for an air freshener which has a body that has an outwardly curved front part and a complementary rear part. The front and rear parts have matching curves and contours to provide a continuous surface but are separated by a connection interface which extends along the sides, a substantially flat top, and a generally convex bottom, of the body. The connection interface is rearwardly downwardly angled along a midsection of the sides and is substantially straight along the top and bottom. A pair of recessed contours extend forwardly from the bottom of the rear part across the interface and upwardly on the front part, terminating at a middle of the front part to define an inverted U-shape. A wide rectangular recess is provided above the U-shape and accommodates a central circular opening for outputting a fragrance and substantially square display screens on either side thereof. The substantially square display screens are recessed as a greater depth relative to the central circular opening. A rectangular display is provided above the wide recess.



Figure 1

Three-dimensional view

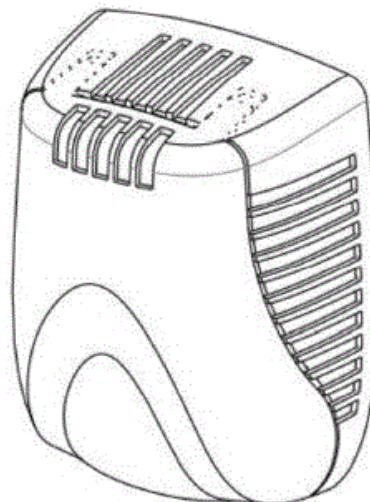


Figure 1

Three-dimensional view

21: A2022/00350 22: 2022-04-04 23:
43: 2021-10-05
52: Class 28 24: Part A
71: Personnel Hygiene Services Limited
33: EM(IE) 31: 008718324-0002 32: 2021-10-05

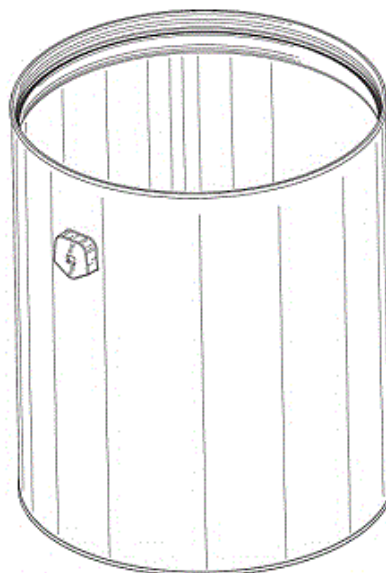
54: AIR FRESHENERS

57: The design is for an air freshener which has a body that has an outwardly curved front part and a complementary rear part. The front and rear parts have matching curves and contours to provide a continuous surface but are separated by a connection interface which extends along the sides, a substantially flat top, and a generally convex bottom, of the body. The connection interface is curved. A pair of recessed contours extend forwardly from the bottom of the rear part across the interface and upwardly on the front part, terminating at a middle of the front part to define an inverted U-shape. A series of elongate, spaced apart rectangular openings are defined on the sides of the rear part, the lengths of the openings gradually reducing in size to follow the connection interface. A series of spaced apart openings are also defined at the top and bottom. The openings allow for air flow to disperse a fragrance which can be inserted into the body.

21: A2022/00351 22: 2022-04-04 23:
43: 2022-12-06
52: Class 9. 24: Part A
71: BWAY CORPORATION
33: US 31: 29/789,609 32: 2021-10-04

54: Container

57: The design relates to a container. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2022/00379 22: 2022-04-08 23:
 43: 2021-12-16
 52: Class 16 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008800817-0001 32: 2021-12-16

54: CAMERAS

57: The design is for a thermal imaging camera. The camera comprises an elongate, substantially cylindrical body having a first end (an eye end) and a slightly wider second opposite end (an objective end). A pair of adjustment rings are provided at the objective end: a first, outer ring is cylindrical having dense knurling and a second, inner ring is shorter, about one third a length of the first ring, is outwardly rearwardly inclined, and has a sparser knurling. A curved eyecup is provided at the eye end. A top of the body has input elements, namely a series of small buttons and a prominent, central longitudinally mounted rotary dial within a transverse recess. A bottom of the body has a releasable cover and each side comprises a textured surface with diagonal grooves.



Figure 1
 Three-dimensional view

21: A2022/00380 22: 2022-04-08 23:
 43: 2021-12-16
 52: Class 16 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008800817-0002 32: 2021-12-16

54: CAMERAS

57: The design is for a thermal imaging camera. The camera comprises an elongate, substantially cylindrical body having a first end (an eye end) and a slightly wider second opposite end (an objective end). A pair of adjustment rings are provided at the objective end: a first, outer ring is cylindrical having dense knurling and a second, inner ring is shorter, about one third a length of the first ring, is outwardly

rearwardly inclined, and has a sparser knurling. A curved eyecup is provided at the eye end. A top of the body has input elements, namely a series of small buttons and a prominent, central longitudinally mounted rotary dial within a transverse recess. A bottom of the body has a releasable cover and each side comprises a textured surface with diagonal grooves.

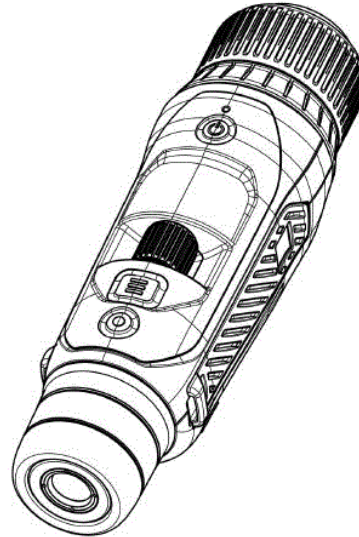


Figure 1
 Three-dimensional view

21: A2022/00381 22: 2022-04-08 23:
 43: 2021-12-16
 52: Class 16 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008800817-0003 32: 2021-12-16

54: CAMERAS

57: The design is for a thermal imaging camera. The camera comprises an elongate, substantially cylindrical body having a first end (an eye end) and a noticeably wider second opposite end (an objective end). A pair of adjustment rings are provided at the objective end: a first, outer ring is cylindrical having dense knurling and a second, inner ring is shorter, about one third a length of the first ring, is outwardly rearwardly inclined, and has a sparser knurling. A curved eyecup is provided at the eye end. A top of the body has input elements, namely a series of small buttons and a prominent, central longitudinally mounted rotary dial within a transverse recess. A bottom of the body has a releasable cover and each side comprises a textured surface with diagonal grooves.



Figure 1

Three-dimensional view

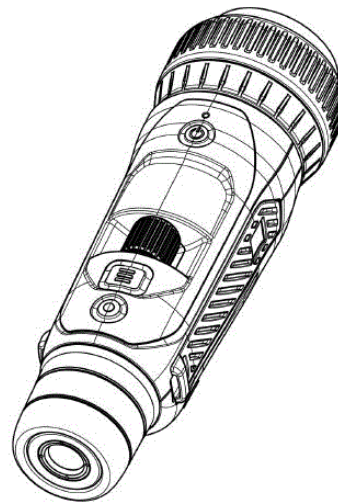


Figure 1

Three-dimensional view

21: A2022/00382 22: 2022-04-08 23:
43: 2021-12-16
52: Class 16 24: Part A
71: Carl Zeiss AG
33: EM(DE) 31: 008800817-0004 32: 2021-12-16

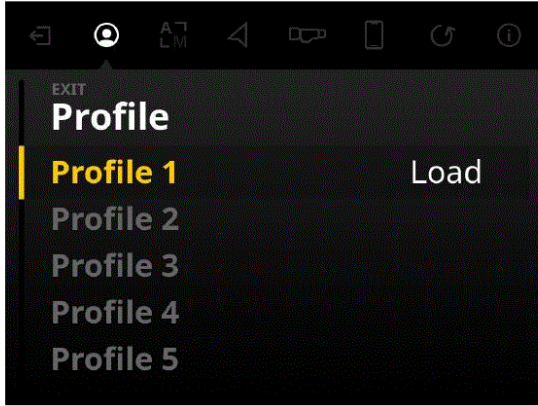
54: CAMERAS

57: The design is for a thermal imaging camera. The camera comprises an elongate, substantially cylindrical body having a first end (an eye end) and a noticeably wider second opposite end (an objective end). A pair of adjustment rings are provided at the objective end: a first, outer ring is cylindrical having dense knurling and a second, inner ring is shorter, about one third a length of the first ring, is outwardly rearwardly inclined, and has a sparser knurling. A curved eyecup is provided at the eye end. A top of the body has input elements, namely a series of small buttons and a prominent, central longitudinally mounted rotary dial within a transverse recess. A bottom of the body has a releasable cover and each side comprises a textured surface with diagonal grooves.

21: A2022/00407 22: 2022-04-19 23:
43: 2021-12-17
52: Class 14 24: Part A
71: Carl Zeiss AG
33: EM(DE) 31: 008802318-0001 32: 2021-12-17

54: USER INTERFACES

57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its upper portion which includes spaced apart menu icons. A "Profile" icon is highlighted, and the GUI displays a menu that has a large, printed heading "Profile" disposed below the word "Exit". The menu has five rows, respectively including text "Profile 1" to "Profile 5", having a smaller print size than the one in the heading. When one of the rows is selected, the selected row displays in a first colour which is different to a second colour of the unselected rows. The word "Load" appears on the right-hand side of the selected row.



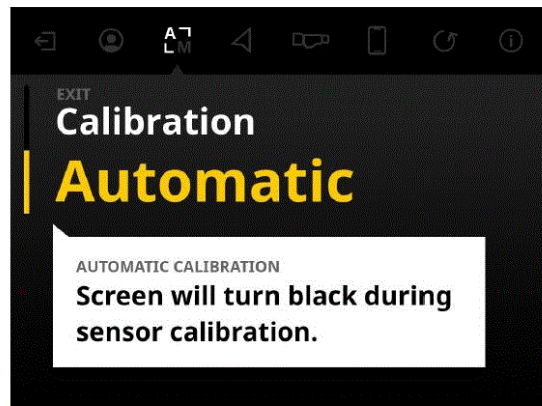
Single Figure
Face-on view



Single Figure
Face-on view

21: A2022/00408 22: 2022-04-19 23:
43: 2021-12-17
52: Class 14 24: Part A
71: Carl Zeiss AG
33: EM(DE) 31: 008802318-0002 32: 2021-12-17
54: USER INTERFACES
57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its upper portion which includes spaced apart menu icons. A "Device" icon is highlighted, and the GUI displays a menu that has a large, printed heading "Device" disposed below the word "Exit". The menu, albeit cut off, displays six rows, each row including a main descriptor on the lefthand side and options for the main descriptor on the righthand side. The descriptor of a highlighted row is a brighter colour, and the options of the highlighted row display in a different colour and include selection arrows on one or both sides. On the lefthand side of the page is provided a vertical scrollbar.

21: A2022/00409 22: 2022-04-19 23:
43: 2021-12-17
52: Class 14 24: Part A
71: Carl Zeiss AG
33: EM(DE) 31: 008802318-0003 32: 2021-12-17
54: USER INTERFACES
57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its upper portion which includes spaced apart menu icons. A "Calibration" icon is highlighted, and the GUI displays a menu that has a large, printed heading "Calibration" disposed below the word "Exit". A single menu option in the form of a larger printed "Automatic" is disposed below "Calibration". A message in a callout or text bubble is provided on the page beneath the menu option. On the lefthand side of the page is provided a vertical scrollbar.



Single Figure
Face-on view

21: A2022/00410 22: 2022-04-19 23:
43: 2021-12-17

52: Class 14 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008802318-0004 32: 2021-12-17

54: GRAPHICAL USER INTERFACES

57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its lower portion which includes spaced apart icons. A circular icon, with text above and outer semi-circles, is highlighted. In one mode, the text is "On" and an upper semi-circle is highlighted; in another mode, the text is "Off" and a lower semi-circle is highlighted. Deselected icons on either side are greyed out. The GUI displays a page/screen that has a camera icon on the top lefthand side and a zoom factor on the top righthand side. A rectangular frame is provided in between the camera icon and zoom factor.

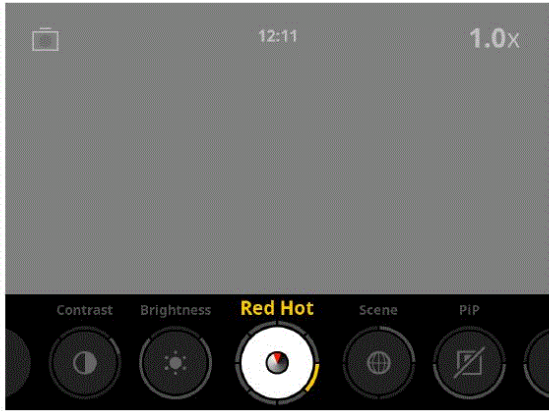


Figure 1

Face-on view

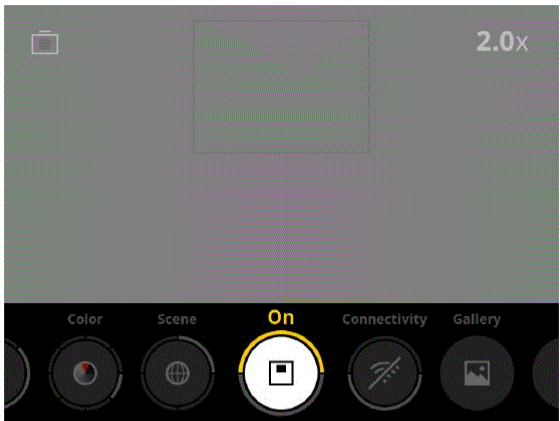


Figure 1

Face-on view

21: A2022/00411 22: 2022-04-19 23:
 43: 2021-12-17
 52: Class 14 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008802318-0006 32: 2021-12-17

54: GRAPHICAL USER INTERFACES

57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its lower portion which includes spaced apart icons. A temperature circular icon, with mode text above, a mode image inside, and outer circular arcs, is highlighted. In one mode, the mode text is "Red Hot", the mode icon includes a coloured sector, and a lower right circular arc (about 45°) is highlighted; in another mode, the mode text is "Black Hot", the mode icon includes a gradient, and a right upper circular arc (about 45°) is highlighted. The GUI displays a page/screen that has a camera icon on the top lefthand side and a zoom factor on the top righthand side, with a digital time indicator provided in between the camera icon and zoom factor.

21: A2022/00412 22: 2022-04-19 23:
 43: 2021-12-17
 52: Class 14 24: Part A
 71: Carl Zeiss AG
 33: EM(DE) 31: 008802318-0005 32: 2021-12-17

54: GRAPHICAL USER INTERFACES

57: The design is for a graphic user interface (GUI). The GUI has a horizontal bar at its lower portion which includes spaced apart icons. A "Brightness" circular icon, with the "Brightness" text above, large mode text inside, and outer circular arcs, is highlighted. In one mode, the mode text is "AUTO" and an upper circular arc (about 90°) is highlighted; in another mode, the mode text is "1" and an upper right circular arc (about 30°) is highlighted; in another mode, the mode text is "2" and a right circular arc (about 60°) is highlighted; in another mode, the mode text is "9" and a circular arc (about 270°) complementary to that of the AUTO mode is highlighted. The GUI displays a page/screen that has a camera icon on the top lefthand side and a zoom factor on the top righthand side thereof, with a digital time indicator provided in between the camera icon and zoom factor.

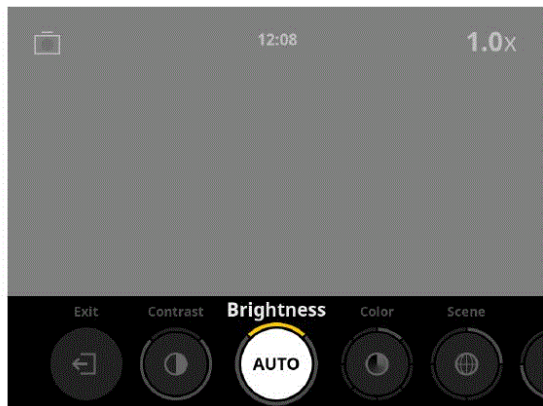


Figure 1
Face-on view

21: A2022/00415 22: 2022-04-20 23:
43: 2022-10-19
52: Class 28 24: Part A
71: WAHL CLIPPER CORPORATION
33: US 31: 29/790,232 32: 2021-11-12
54: HAIR TRIMMER

57: The novelty of the design resides in the shape or configuration of a hair trimmer substantially as shown in the attached representation. Structure shown in dotted outline does not form a part of the design.

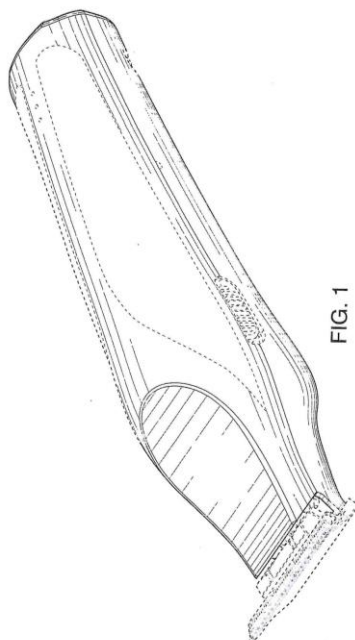


FIG. 1

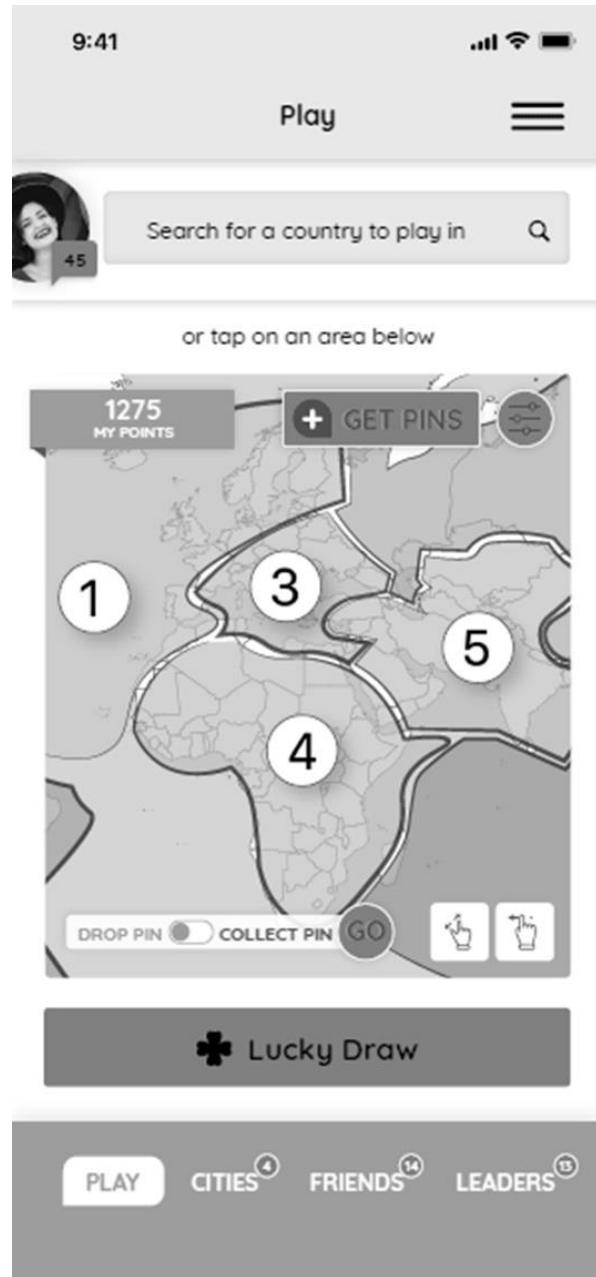
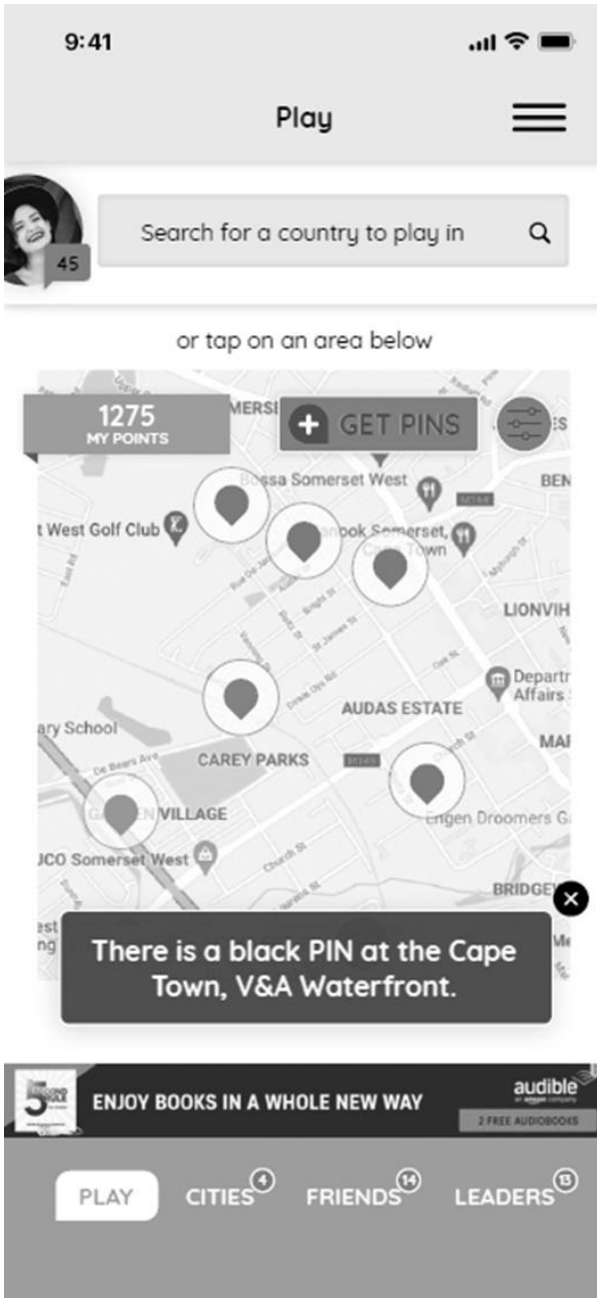
21: A2022/00426 22: 2022-04-21 23:
43: 2021-10-22
52: Class 10 24: Part A
71: LVMH Swiss Manufactures SA

33: HSIRID(CH) 31: DM/217041 32: 2021-10-22
54: CASES, DIALS AND ALL OTHER ACCESSORIES AND PARTS, FOR WATCHES
57: The design is for a case, dial and other accessories and parts of a watch, and in particular for a chronograph watch. The watch has a circular body which includes a circular bezel with peripherally spaced indentations, a middle case portion and a case back. Each of the top and bottom end of the case includes a pair of band attachment arms which are rearwardly inclined. The dial of the watch comprises three circular subdials. Large and small rectangular windows indicating the date are defined at a four o'clock position of the dial. A fluted crown is located in the middle case portion at a three o'clock position. A protruding button is located in the middle case portion at a two o'clock position and at a four o'clock position.



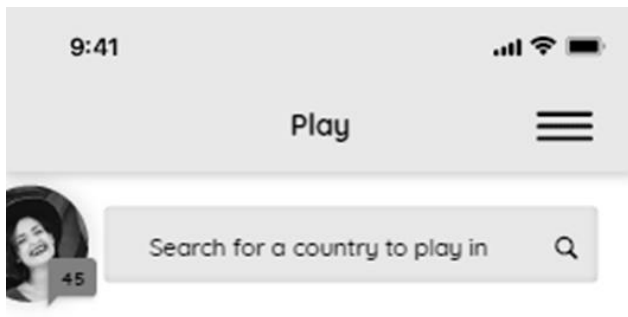
Figure 1
Three-dimensional view

21: A2022/00487 22: 2022-05-09 23:
43: 2022-11-14
52: Class 14 24: Part A
71: Passplane
54: GRAPHICAL USER INTERFACES
57: The design is applied to a graphical user interface. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a graphical user interface substantially as shown in the accompanying representation.

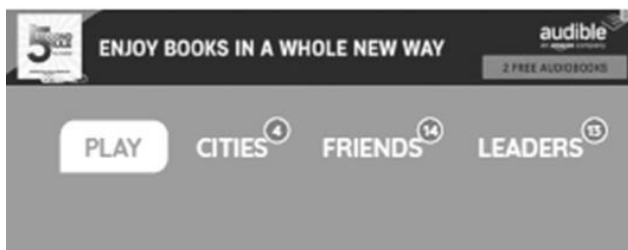
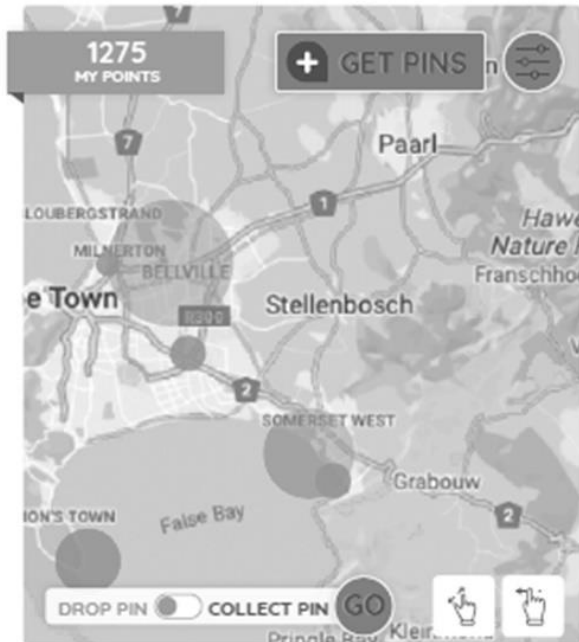


21: A2022/00492 22: 2022-05-09 23:
 43: 2022-11-14
 52: Class 14 24: Part A
 71: Passplane
54: GRAPHICAL USER INTERFACE
 57: The features of the design for which protection is claimed include the shape and/or configuration and/or ornamentation and/or pattern of a graphical user interface substantially as shown in the accompanying representation, and the color applied to the graphical user interface is disclaimed.

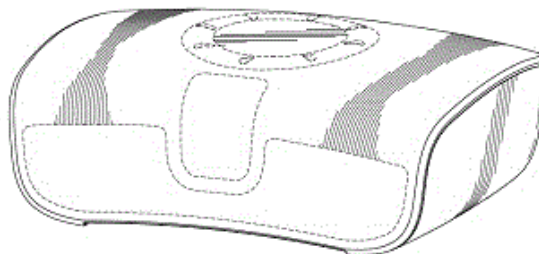
21: A2022/00493 22: 2022-05-09 23:
 43: 2022-11-14
 52: Class 14 24: Part A
 71: Passplane
54: GRAPHICAL USER INTERFACE
 57: The design is applied to a graphical user interface. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a graphical user interface substantially as shown in the accompanying representation.



or tap on an area below

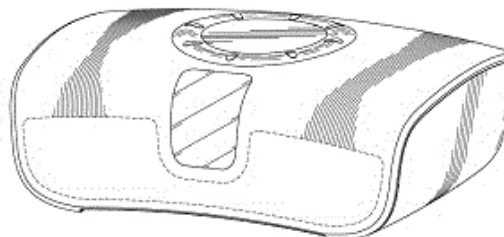


21: A2022/00531 22: 2022-05-16 23:
 43: 2022-12-06
 52: Class 24. 24: Part A
 71: REGENERON PHARMACEUTICALS, INC.
 33: US 31: 29/815,785 32: 2021-11-16
54: Wearable Autoinjector
 57: The design relates to a wearable autoinjector.
 The features of the design are those of shape and/or
 configuration and/or ornamentation.



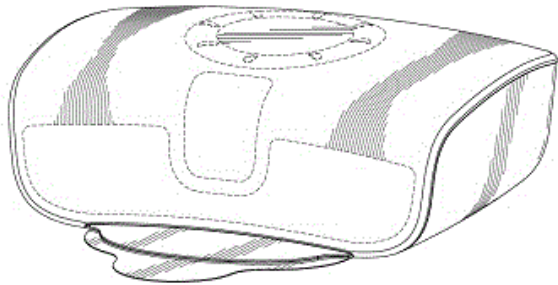
**FRONT AND RIGHT SIDE
 PERSPECTIVE VIEW**

21: A2022/00532 22: 2022-05-16 23:
 43: 2022-12-06
 52: Class 24. 24: Part A
 71: REGENERON PHARMACEUTICALS, INC.
 33: US 31: 29/815,785 32: 2021-11-16
54: Wearable Autoinjector
 57: The design relates to a wearable autoinjector.
 The features of the design are those of shape and/or
 configuration and/or pattern and/or ornamentation.



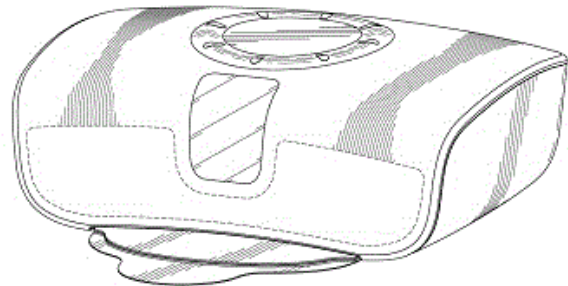
**FRONT AND RIGHT SIDE
 PERSPECTIVE VIEW**

21: A2022/00533 22: 2022-05-16 23:
 43: 2022-12-06
 52: Class 24. 24: Part A
 71: REGENERON PHARMACEUTICALS, INC.
 33: US 31: 29/815,785 32: 2021-11-16
54: Wearable Autoinjector
 57: The design relates to a wearable autoinjector.
 The features of the design are those of shape and/or
 configuration and/or ornamentation.



FRONT AND RIGHT SIDE PERSPECTIVE VIEW

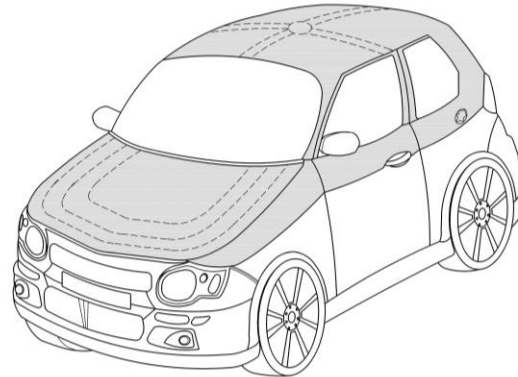
21: A2022/00534 22: 2022-05-16 23: 43: 2022-12-06
 52: Class 24. 24: Part A
 71: REGENERON PHARMACEUTICALS, INC.
 33: US 31: 29/815,785 32: 2021-11-16
54: Wearable Autoinjector
 57: The design relates to a wearable autoinjector. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



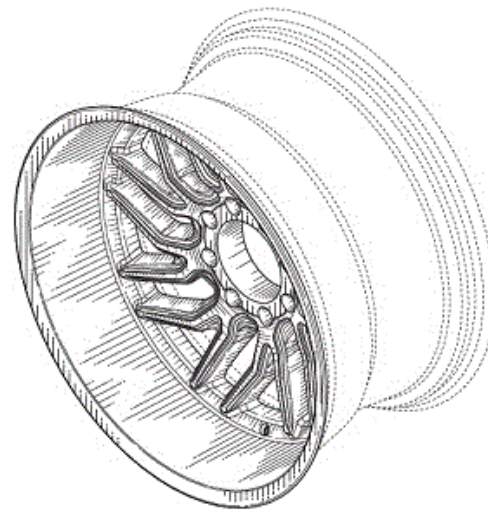
FRONT AND RIGHT SIDE PERSPECTIVE VIEW

21: A2022/00536 22: 2022-05-17 23: 43: 2022-05-17
 52: Class 12 24: Part A
 71: BUHALI, Thoko Nelsy
54: VEHICLES
 57: The design is for a three-door hatchback vehicle. A top portion of the vehicle, indicated by a shaded portion, is of different colouration. Furthermore, the shaded portion is shaped and configured to resemble the appearance of headgear in the form of a cap. Broken lines on the bonnet, roof and rear of the vehicle serve to resemble stitching or trim seen on a cap. A curved line runs along both sides of the vehicle from above a rear light cluster to a headlight cluster at the front of the vehicle. The line forms an

upward notch at an intersection of the door and the front wheel arch panel.

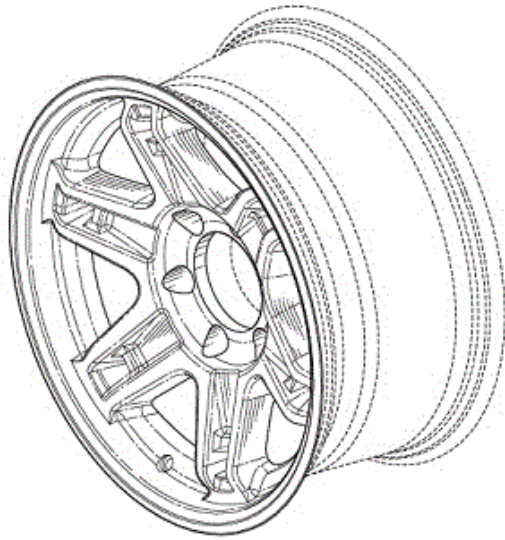


21: A2022/00539 22: 2022-05-19 23: 43: 2022-12-06
 52: Class 12. 24: Part A
 71: WHEEL PROS, LLC
 33: US 31: 29/822,702 32: 2022-01-11
54: Wheel
 57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

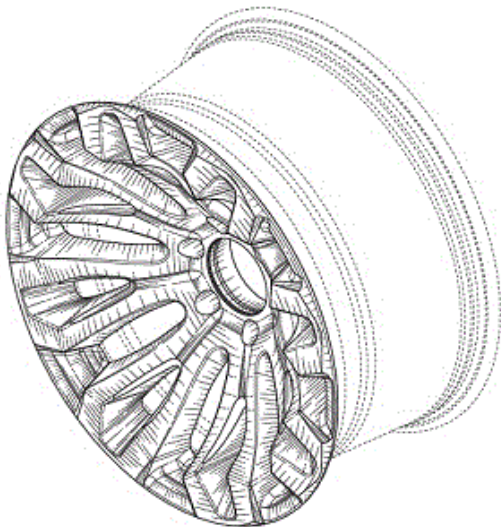
21: A2022/00540 22: 2022-05-19 23: 43: 2022-12-06
 52: Class 12. 24: Part A
 71: WHEEL PROS, LLC
 33: US 31: 29/822,544 32: 2022-01-10
54: Wheel
 57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00541 22: 2022-05-19 23:
43: 2022-12-06
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/822,549 32: 2022-01-10

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: A2022/00542 22: 2022-05-19 23:
43: 2022-12-06
52: Class 12. 24: Part A
71: WHEEL PROS, LLC

33: US 31: 29/823,172 32: 2022-01-14

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: A2022/00543 22: 2022-05-19 23:
43: 2022-12-06
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/823,851 32: 2022-01-20

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.

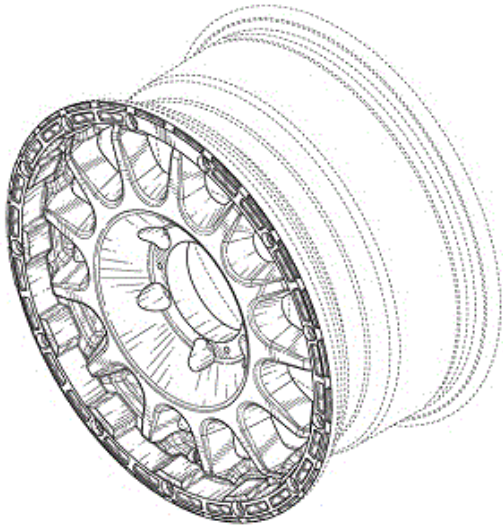


PERSPECTIVE VIEW

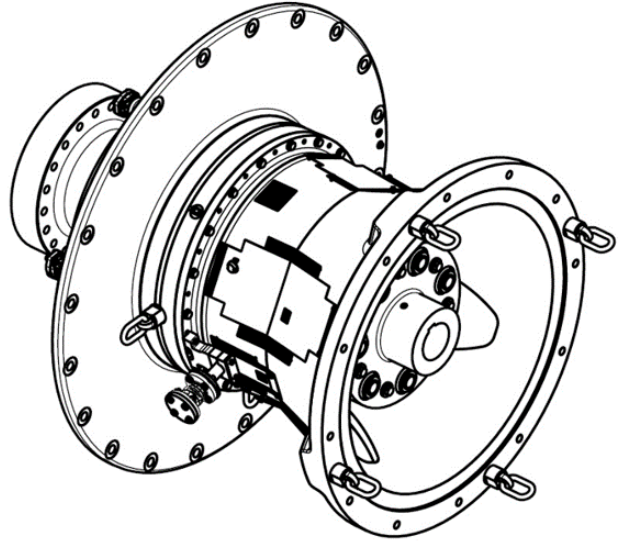
21: A2022/00545 22: 2022-05-19 23:
 43: 2022-12-06
 52: Class 12. 24: Part A
 71: WHEEL PROS, LLC
 33: US 31: 29/822,080 32: 2022-01-05

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: A2022/00552 22: 2022-05-20 23:
 43: 2022-12-06
 52: Class 12 24: Part A
 71: FLENDER GMBH
 33: EU 31: 008842314-0002 32: 2022-01-25

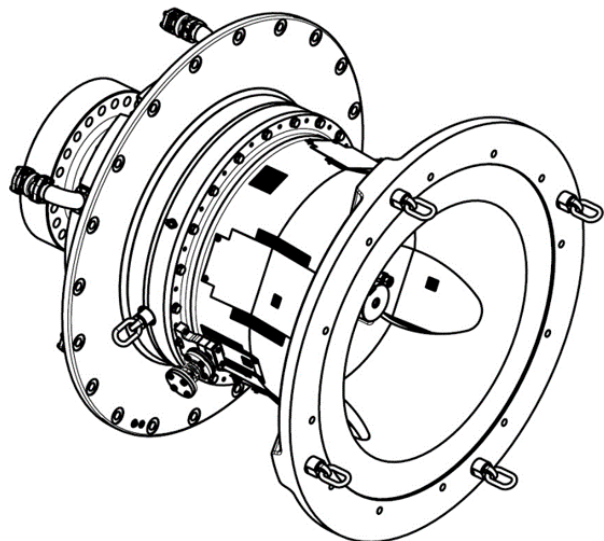
54: GEARBOX CASE COVER

57: The design is applied to a gearbox case cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gearbox case cover, substantially as illustrated in the accompanying representation.

21: A2022/00551 22: 2022-05-20 23:
 43: 2022-12-06
 52: Class 12 24: Part A
 71: FLENDER GMBH
 33: EU 31: 008842314-0001 32: 2022-01-25

54: GEARBOX CASE COVER

57: The design is applied to a gearbox case cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gearbox case cover, substantially as illustrated in the accompanying representation.

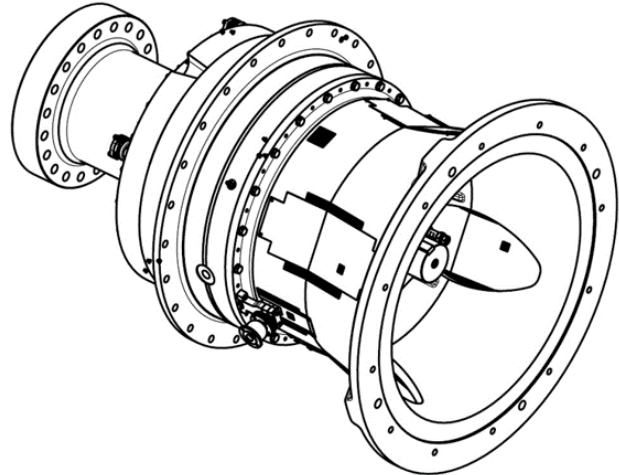
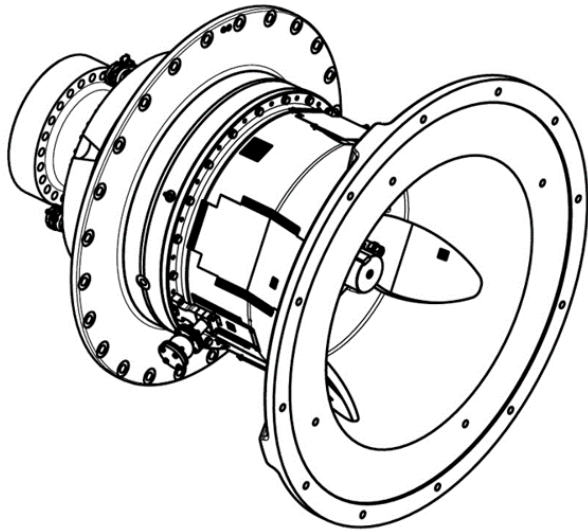


21: A2022/00553 22: 2022-05-20 23:
 43: 2022-12-06
 52: Class 12 24: Part A
 71: FLENDER GMBH

33: EP 31: 008842314-0003 32: 2022-01-25

54: GEARBOX CASE COVER

57: The design is applied to a gearbox case cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gearbox case cover, substantially as illustrated in the accompanying representation.



21: A2022/00554 22: 2022-05-20 23:

43: 2022-12-06

52: Class 12 24: Part A

71: FLENDER GMBH

33: EU 31: 008842314-0004 32: 2022-01-25

54: GEARBOX CASE COVER

57: The design is applied to a gearbox case cover. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the gearbox case cover, substantially as illustrated in the accompanying representation.

21: A2022/00563 22: 2022-05-24 23:

43: 2022-01-13

52: Class 27 24: Part A

71: Mevol(HK)Limited

33: CN 31: 202230019965.0 32: 2022-01-13

54: ELECTRONIC CIGARETTES

57: The design is for an electronic cigarette having a streamlined shape tapered at upper and lower ends is adopted for the front surface to emphasize the feeling of the rapid response of the device; the side surfaces are designed with narrow bezels to make the whole product be visually lighter and thinner; the cigarette rod is made of multi-stage stamped aluminum alloy, with a wall thickness as low as 0.55 mm; and by utilizing a sandblasting anodizing process, the whole device feels delicate and silky. On the cartridge, a nozzle area and a hand-held area are distinguished through a contrast of glossy and matte, meanwhile, the tapered streamlined design style of the cigarette rod continues in the shape.

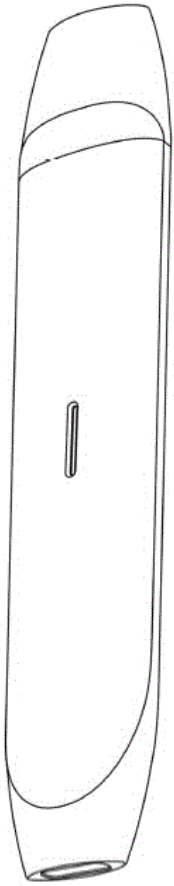
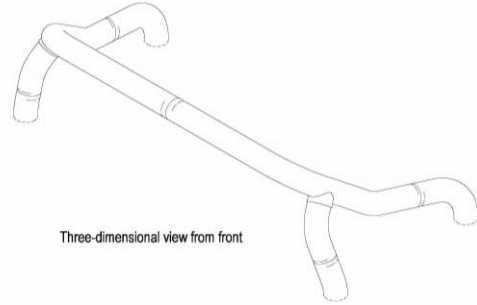


Figure 1
Three-dimensional view



Three-dimensional view from front

21: A2022/00565 22: 2022-05-24 23:
43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

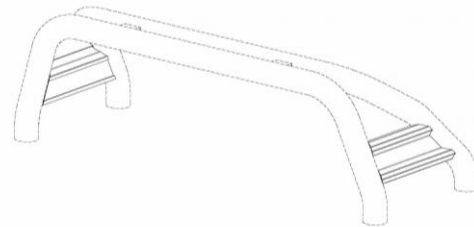
54: Sports Bars for Vehicles

57: The design is for sports bars for vehicles which comprise bins extending from cabs. The sports bar comprises first and second tubular beams. The first beam is U-shaped and comprises a horizontal portion and a pair of vertical portions extending obliquely from ends of the horizontal portion. The second beam is U-shaped and comprises a horizontal portion arranged in a parallel fashion to the horizontal portion of the first beam, and a pair of vertical portions extending obliquely from ends of the horizontal portion in a rearward fashion, away from the vertical portions of the first tubular beam. The sports bar further comprises a pair of cross-members, each extending between adjacent vertical portions of the first and second beams. Each cross-member has a generally trapezoidal profile and comprises at least two spaced apart parallel tracks. The parallel tracks are spaced apart by, and stand proud of, a connecting web.

21: A2022/00564 22: 2022-05-24 23:
43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

54: Sports Bars

57: The design is for sports bars for vehicles, particularly vehicles which comprise bins extending from cabs, substantially as depicted in the accompanying representations. The sports bars typically comprises a primary tubular bar having a horizontal portion and a pair of generally parallel vertical portions each sloping rearwardly in a transverse fashion from an end of the horizontal portion. A tubular short leg extends transversely from each of the vertical portions, adjacent the horizontal portion of the primary tubular bar. Each vertical portion has a slight kink along the length thereof before curving to a free end thereof, wherein the free ends of the vertical portions at attachable to a vehicle. Each short leg also defines a kink before terminating at a free end which is attachable to a vehicle.



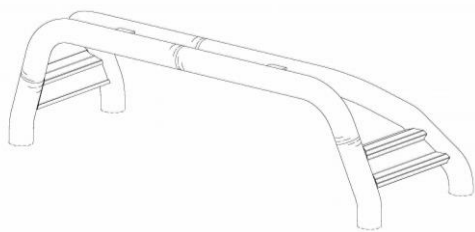
Three-dimensional view from front

21: A2022/00566 22: 2022-05-24 23:
43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

54: Sports Bars for Vehicles

57: The design is for sports bars for vehicles which comprise bins extending from cabs. The sports bar comprises first and second tubular beams. The first

beam is U-shaped and comprises a horizontal portion and a pair of vertical portions extending obliquely from ends of the horizontal portion. The second beam is U-shaped and comprises a horizontal portion arranged in a parallel fashion to the horizontal portion of the first beam, and a pair of vertical portions extending obliquely from ends of the horizontal portion in a rearward fashion, away from the vertical portions of the first tubular beam. The sports bar further comprises a pair of cross-members, each extending between adjacent vertical portions of the first and second beams. Each cross-member has a generally trapezoidal profile and comprises at least two spaced apart parallel tracks. The parallel tracks are spaced apart by, and stand proud of, a connecting web.

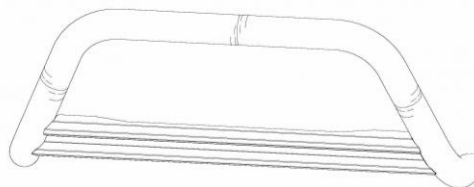


Three-dimensional view from front

21: A2022/00568 22: 2022-05-24 23: 43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

54: Nudge Bars for Vehicles

57: The design is for nudge bars for vehicles. The nudge bar comprises a tubular frame comprising a horizontal portion, and a pair of vertical portions extending obliquely from opposite ends of the horizontal portion. The vertical portions comprise curved end portions which terminate at a site at which the nudge bar is connected to the vehicle. The nudge bar further comprises at least one cross-member extending between the vertical portions such that the cross-member is parallel to the horizontal portion of the tubular frame. The cross-member has a generally trapezoidal profile and comprises at least two spaced apart parallel tracks. The parallel tracks are spaced apart by, and stand proud of, a connecting web.



Three-dimensional view from front

21: A2022/00567 22: 2022-05-24 23: 43: 2022-02-10
52: Class 12 24: Part A
71: KAP Automotive (Pty) Ltd.

54: Nudge Bars for Vehicles

57: The design is for nudge bars for vehicles. The nudge bar comprises a tubular frame comprising a horizontal portion, and a pair of vertical portions extending obliquely from opposite ends of the horizontal portion. The vertical portions comprise curved end portions which terminate at a site at which the nudge bar is connected to the vehicle. The nudge bar further comprises at least one cross-member extending between the vertical portions such that the cross-member is parallel to the horizontal portion of the tubular frame. The cross-member has a generally trapezoidal profile and comprises at least two spaced apart parallel tracks. The parallel tracks are spaced apart by, and stand proud of, a connecting web.



Three-dimensional view from front

21: A2022/00569 22: 2022-05-24 23: 43: 2022-04-13
52: Class 27 24: Part A
71: Mevol(HK)Limited
33: CN 31: 202230207545.5 32: 2022-04-13

54: ELECTRONIC CIGARETTES

57: The design is for an electronic cigarette. In order to avoid any uncomfortable feeling in the mouth, the whole device follows the exquisite design of the first-generation product, and uses concise and round lines to interpret the outline of the product. Being different from the conventional straight cutting, this product is divided into two parts through the curved line extended to the side surfaces in combination with the glossy and matte textures, so that the whole product becomes more lively and vivid. The bottom of the cigarette rod is embellished with crystal-clear translucent materials to create a dreamlike effect without affecting the overall roundness of the curved surfaces.

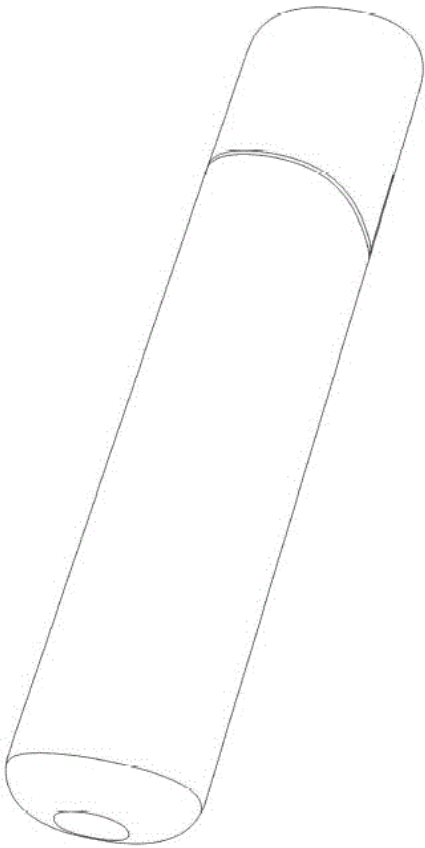
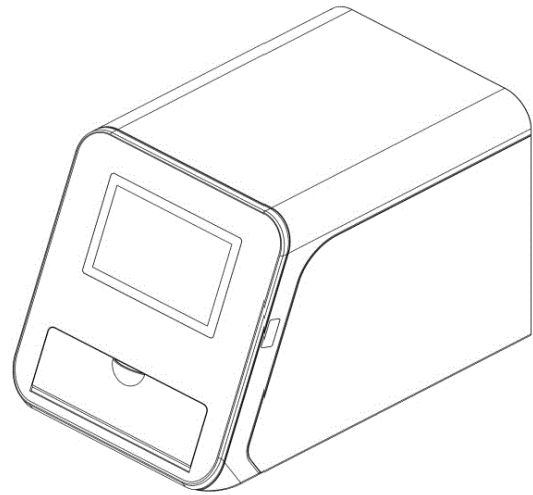


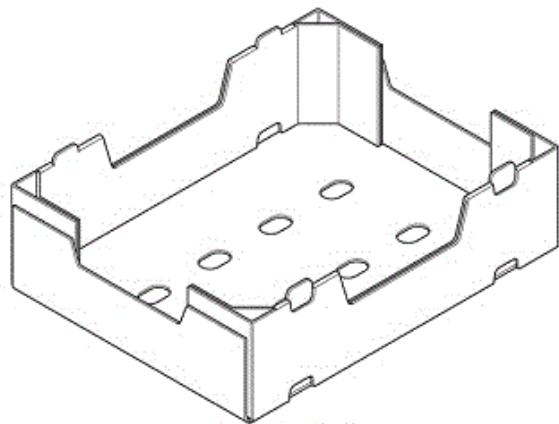
Figure 1
Three-dimensional view



21: A2022/00585 22: 2022-05-25 23:
43: 2022-12-06
52: Class 9. 24: Part A
71: MPACT LIMITED

54: Carton

57: The design relates to carton. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00584 22: 2022-05-25 23:
43: 2022-12-08
52: Class 24 24: Aesthetic
71: ASSURE TECH. (HANGZHOU) CO., LTD.
33: CN 31: 202130780405.2 32: 2021-11-26
54: CHEMILUMINESCENCE IMMUNOASSAY ANALYZER

57: The drawing shows a front perspective view of a chemiluminescence immunoassay analyzer showing the overall appearance thereof.

21: A2022/00588 22: 2022-05-26 23:
43: 2022-12-06
52: Class 02 24: Aesthetic
71: LIDDIARD, Natasha, May, Ruth, HARDY, Jason, Andrew

54: SHORTS MADE FROM DISHCLOTH MATERIAL

57: The design relates to a short pants. The short pants is made from dishcloth material with the

pattern of a typical dishcloth arranged as shown in the accompanying representations. Protection is not claimed for the part marked "A".



21: A2022/00589 22: 2022-05-26 23:
43: 2022-12-06
52: Class 9. 24: Part A
71: CJ CHEILJEDANG CORPORATION
33: KR 31: 30-2021-0063427 32: 2021-12-30

54: Container for Food Packing

57: The design relates to a container for food packing. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00590 22: 2022-05-27 23:
43: 2021-11-29
52: Class 19 24: Part A

71: Pentel Kabushiki Kaisha (also trading as Pentel Co., Ltd.)

33: JP 31: 2021-026192 32: 2021-11-29

54: PENS

57: The design is for a pen. The pen has a first major part and a second part spaced from the first major part. An inner member of the pen extends between the first major part and second part. The first major part is in the form of an elongate circular cylindrical body having a circular base and a recessed circumference portion proximate a top end of the first major part. The second part is in the form of a lid having a proximal cylindrical portion, an intermediate frustoconical portion, and an elongate tapered distal portion. A circular opening or recess is defined at a distal end of the elongate tapered distal portion of the second part. A wing-like handle or tab protrudes from a side of the proximal cylindrical portion of the second part.

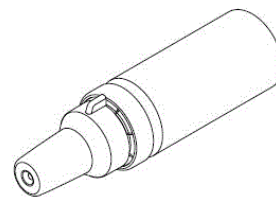


Figure 1
Three-dimensional view

21: A2022/00591 22: 2022-05-27 23:

43: 2022-12-06

52: Class 12. 24: Part A

71: TOYOTA JIDOSHA KABUSHIKI KAISHA

33: JP 31: 2021-026356 32: 2021-11-30

54: Front Bumper for an Automobile

57: The design relates to a front bumper for an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

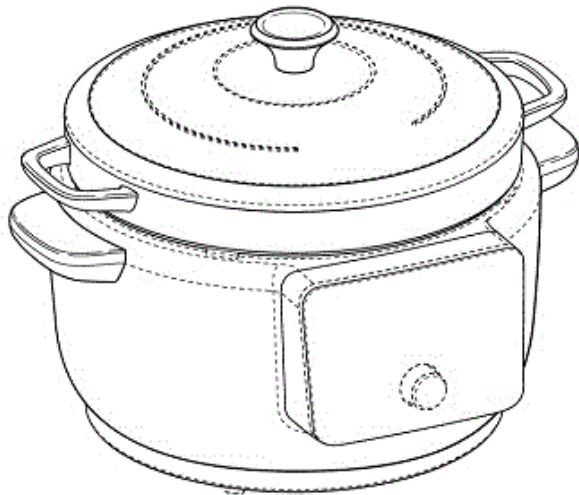


PERSPECTIVE VIEW

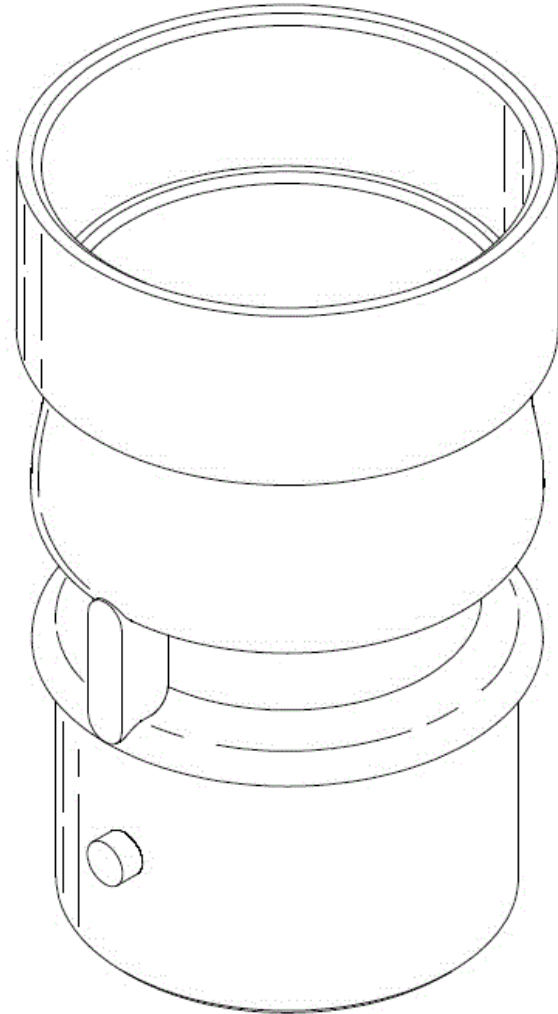
21: A2022/00592 22: 2022-05-27 23:
43: 2022-12-06
52: Class 7. 24: Part A
71: INSTANT BRANDS HOLDINGS INC.
33: US 31: 29/825,613 32: 2022-02-03

54: Cooking Appliance

57: The design relates to a cooking appliance. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW



21: A2022/00593 22: 2022-05-27 23:
43: 2022-05-27
52: Class 23 24: Part A
71: Fluidra Waterlinx (Pty) Ltd

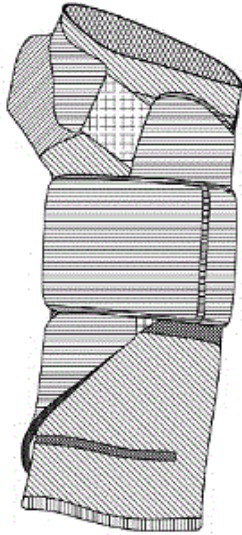
54: Adaptors

57: The design is in respect of an adaptor for selectively connecting one of a plurality of cleaning devices for cleaning submerged surfaces to a vacuum hose. The adaptor includes a body which defines a hose connecting formation and a plurality of cleaning device connecting formations whereby the adaptor is selectively disconnectably connectable to one of a plurality of cleaning devices

21: A2022/00596 22: 2022-05-30 23:
43: 2022-12-06
52: Class 24. 24: Part A
71: BAUERFEIND AG
33: IB 31: WIPO116109 32: 2022-04-26

54: Hand Brace

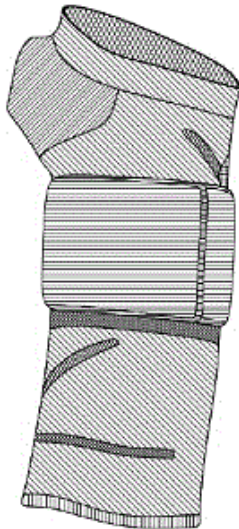
57: The design relates to a hand brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT VIEW

21: A2022/00597 22: 2022-05-30 23:
43: 2022-12-06
52: Class 24. 24: Part A
71: BAUERFEIND AG
33: IB 31: WIPO116109 32: 2022-04-26

54: Hand Brace
57: The design relates to a hand brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



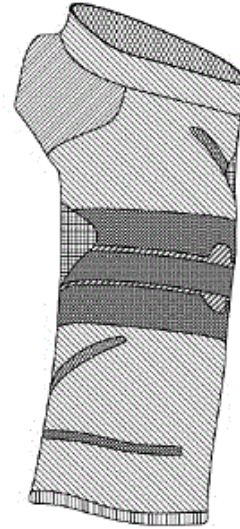
FRONT VIEW

21: A2022/00598 22: 2022-05-30 23:
43: 2022-12-06
52: Class 24. 24: Part A
71: BAUERFEIND AG

33: IB 31: WIPO116109 32: 2022-04-26

54: Hand Brace

57: The design relates to a hand brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

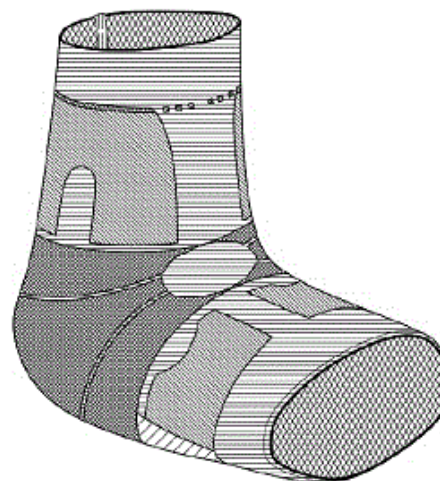


FRONT VIEW

21: A2022/00599 22: 2022-05-30 23:
43: 2022-12-06
52: Class 24. 24: Part A
71: BAUERFEIND AG
33: IB 31: WIPO116109 32: 2022-04-26

54: Ankle Brace

57: The design relates to an ankle brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

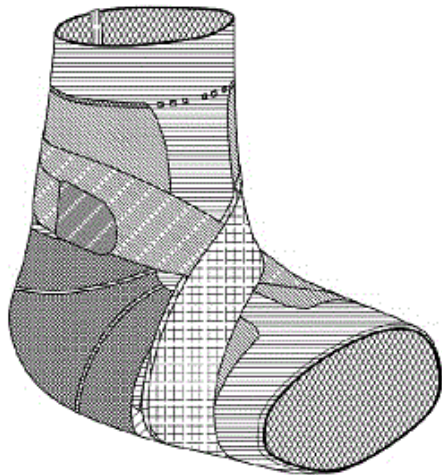


PERSPECTIVE VIEW

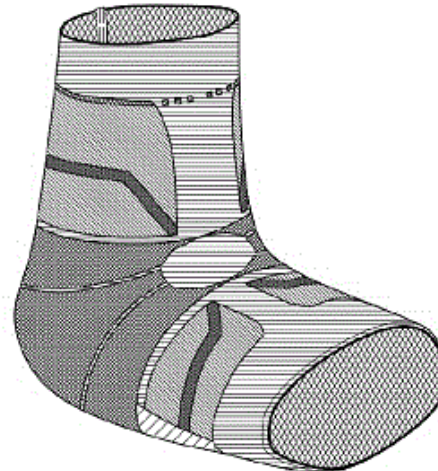
21: A2022/00600 22: 2022-05-30 23:
43: 2022-12-06
52: Class 24. 24: Part A
71: BAUERFEIND AG
33: IB 31: WIPO116109 32: 2022-04-26

54: Ankle Brace

57: The design relates to an ankle brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

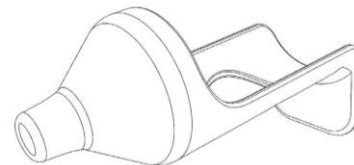


PERSPECTIVE VIEW

21: A2022/00604 22: 2022-05-31 23:
43: 2022-12-06
52: Class 24 24: Part A
71: Bhavesh Gokani
33: GB 31: 6180219 32: 2021-12-08

54: EAR DROP APPLICATOR

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: A2022/00601 22: 2022-05-30 23:
43: 2022-12-08
52: Class 24. 24: Part A
71: BAUERFEIND AG
33: IB 31: WIPO116109 32: 2022-04-26

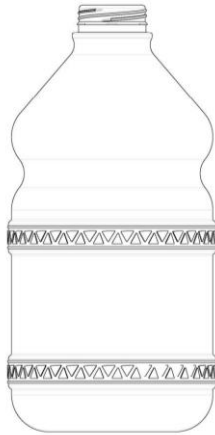
54: Ankle Brace

57: The design relates to an ankle brace. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

21: A2022/00640 22: 2022-06-09 23:
43: 2023-01-12
52: Class 09 24: Part A
71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

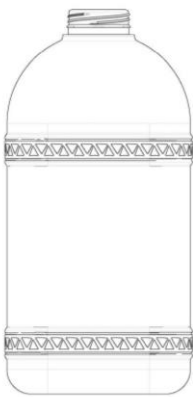
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00642 22: 2022-06-09 23:
 43: 2023-01-12
 52: Class 09 24: Part A
 71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00674 22: 2022-06-15 23:
 43: 2023-01-19
 52: Class 12 24: Part A
 71: NEO MATTHEWS MIDAKA

54: BATTERY BOX LOCK

57: The battery lock box is a complete padlock locking mechanism with a distinct feature of the same vehicle front face which has a laser cut out of the vehicle on the front plate of the battery of which it covers. It also has hinges on both the front plate and the top lever flat bar allowing both of them to swivel up and down. The padlock locks on the welded locking hole lugs found on both the front artistic

battery cover plate and the top lever flat bar. it also has a adjusting bracket on the flat bar allowing a up an down adjustments, a locking screw underneath the flat bar to tighten and adjust.



21: A2022/00685 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 12 24: Part A
 71: NEO MATTHEWS MIDAKA

54: BATTERY BOX LOCK

57: The battery box lock is a complete padlock locking mechanism with the distinct feature of the same vehicle front face which has a laser cut out of the vehicle on the front plate of the battery of which it covers. it also has hinges on both the front plate and the top lever flat bar allowing both of them to swivel up and down. The padlock locks on the welded locking hole lugs found on both the front artistic battery cover plate and the top lever flat bar.



21: A2022/00694 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 25 24: Part A
 71: SKULPOD (PTY) LTD

54: SET OF MODULAR SHELTERS

57: The design is applied to a set of modular shelters. 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 set of modular shelters, substantially as illustrated in the accompanying representation.

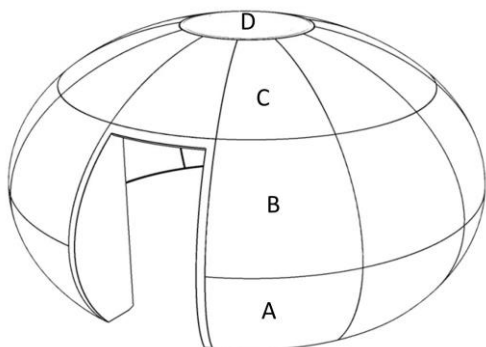


Fig.1 : Three dimensional view from front

21: A2022/00754 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00756 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30
54: ANTI-WRINKLE APPLIANCES

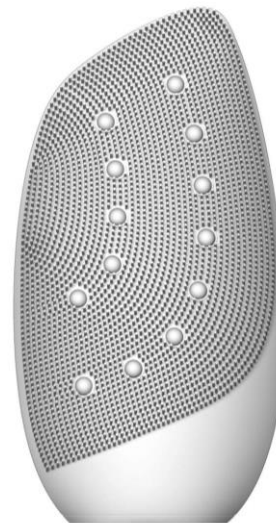
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00758 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00760 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
54: ANTI-WRINKLE APPLIANCES

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: A2022/00762 22: 2022-06-30 23: 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00764 22: 2022-06-30 23: 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

57: The features of the design for which protection is claimed include the shape and/or configuration

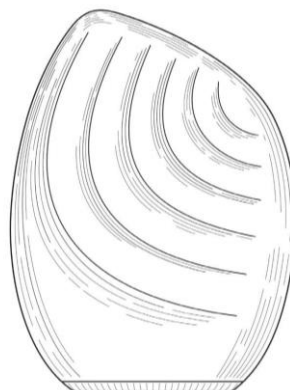
and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/00766 22: 2022-06-30 23: 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00768 22: 2022-06-30 23: 43: 2023-01-12
 52: Class 28 24: Part A
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00772 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part A
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00774 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part A
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00776 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part A
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: A2022/00778 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part A
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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).

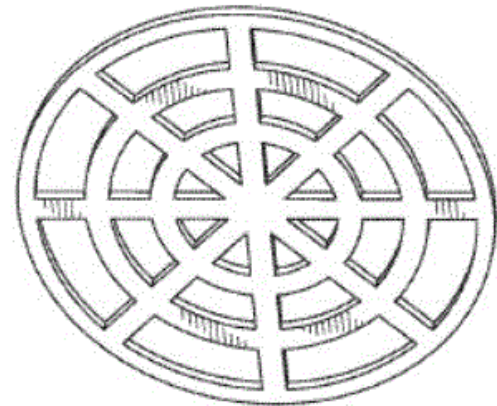
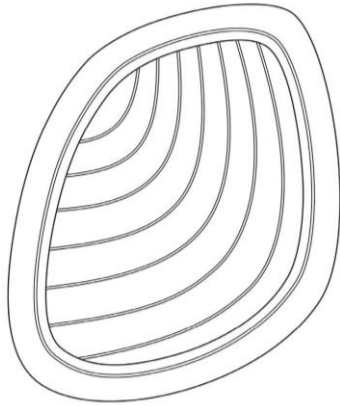
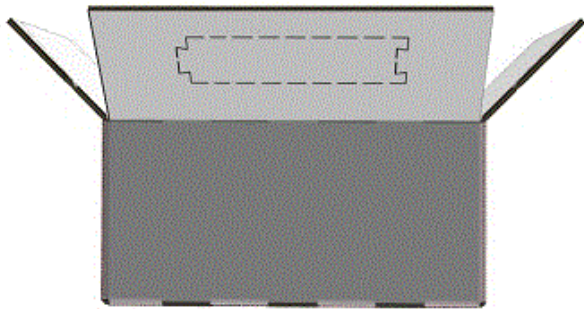


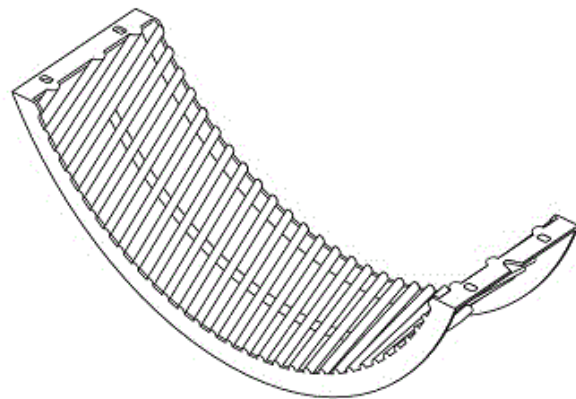
Figure 1
Three-dimensional view

21: F2019/01273 22: 2019-09-02 23:
43: 2022-12-05
52: Class 9. 24: Part F
71: NUTRISET
33: EM 31: 006588166-0001 32: 2019-06-20
54: Box
57: The design relates to a box. The features of the design are those of shape and/or configuration.

21: F2020/01581 22: 2020-12-01 23:
43: 2022-12-06
52: Class 15. 24: Part F
71: BETHAL INTERMEC ENGINEERING (PTY) LTD
54: Grate for a Combine Harvester
57: The design relates to a grate for a combine harvester. The features of the design are those of shape and/or configuration.



FRONT VIEW



PERSPECTIVE VIEW

21: F2020/01504 22: 2020-11-20 23:
43: 2020-05-22
52: Class 29 24: Part F
71: Metal Heart Group of Companies
33: US 31: 29/735,684 32: 2020-05-22
54: MASK FILTERS
57: The design is for a mask and in particular for a filter for a mask. The filter has a spiderweb design comprising concentric circles with four spaced-apart diameter lines that cross each other at a centre of the filter.

21: F2021/01130 22: 2021-09-21 23:
43: 2022-10-10
52: Class 25 24: Part F
71: STRUKSOL ENGINEERING (PTY) LTD
54: MESH SUPPORT BLANK
57: The design is applied to a mesh support blank. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the mesh support blank, substantially as illustrated in the accompanying

representation. The mesh shown in Figure 9 does not form part of the design and is disclaimed.

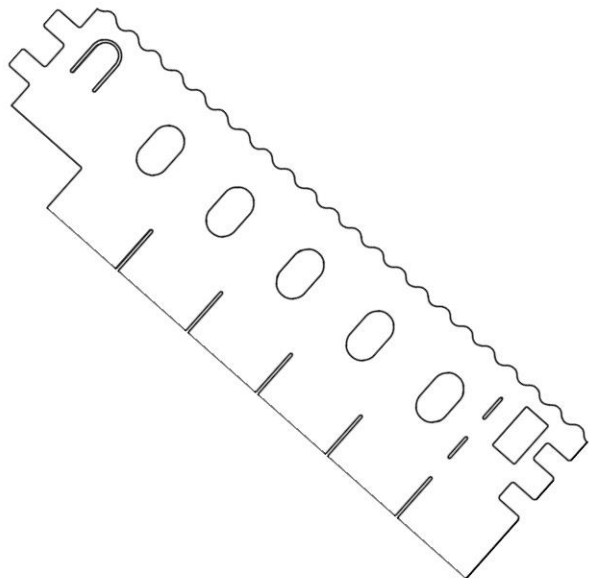
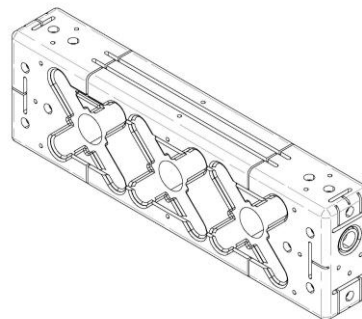


FIGURE 1:
FRONT VIEW OF A MESH SUPPORT BLANK

21: F2021/01374 22: 2021-11-05 23:
43: 2021-11-05
52: Class 9 24: Part F
71: MANILAL, Heeran

54: Storage Tanks

57: The design is for a storage tank. The storage tank includes a cuboid shaped body comprising major panels and side panels and end panels extending peripherally between the major panels. The body defines a plurality of openings of varying sizes that extend into the body and are provided on the side panels, major panels and end panels. The body further defines three longitudinally spaced openings which are larger than the other openings provided on the body. The larger sized openings extend through the body and are formed on the major panels. The major/larger sized openings are arranged to accommodate large conduits to facilitate the vertical stacking of similar storage tanks. The other openings of the varying sizes, excluding the larger sized openings, are arranged to serve either as inlets and/or outlets which are in communication with a fluid holding chamber defined by the body. The body further includes a pair of elongate, vertically spaced ribbings provided on each side panel.

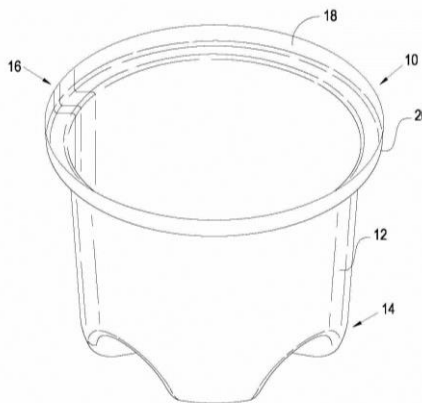


Three-dimensional view

21: F2021/01398 22: 2021-11-09 23:
43: 2021-11-09
52: Class 9 24: Part F
71: BREMNER, Colin Derek

54: Containers

57: The design is for a container, particularly a container for aquaponic and/or hydroponic applications, wherein the container is used to hold at least growing plants therein, in use. The container has a cylindrical body with extends between an open top portion of the container to a base portion thereof, wherein the container has a slight taper from the top rim towards the base portion. The top portion is provided with a flanged lip with an upturned end. The base portion comprises four equidistant concave lobes provided on an outer surface thereof which projects into an interior of the container as four convex projections. The base portion comprises an aperture aligned with a central axis of the container. The base portion comprises a frusto-conical outlet spout which is in connected to the aperture and projects axially from the outer surface of the base portion.



Three-dimensional view from above

21: F2021/01400 22: 2021-11-10 23:

43: 2023-01-12
 52: Class 09 24: Part F
 71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

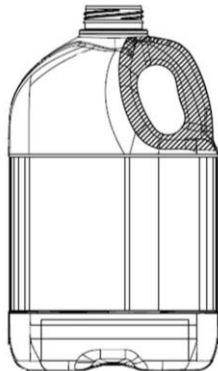
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00122 22: 2022-02-07 23:
 43: 2023-01-12
 52: Class 09 24: Part F
 71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

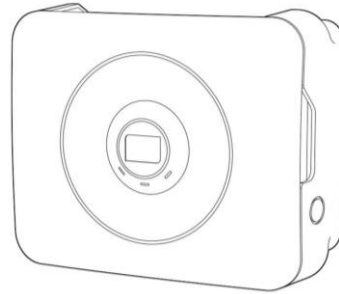
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00136 22: 2022-02-11 23:
 43: 2023-01-12
 52: Class 13 24: Part F
 71: SMA Solar Technology AG
 33: EU 31: 008686950-0005 32: 2021-09-16

54: INVERTER

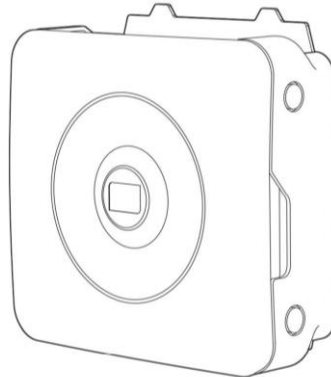
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00142 22: 2022-02-11 23:
 43: 2022-09-14
 52: Class 13 24: Part F
 71: SMA Solar Technology AG
 33: EU 31: 008686950-0013 32: 2021-09-16

54: BATTERY CHARGER

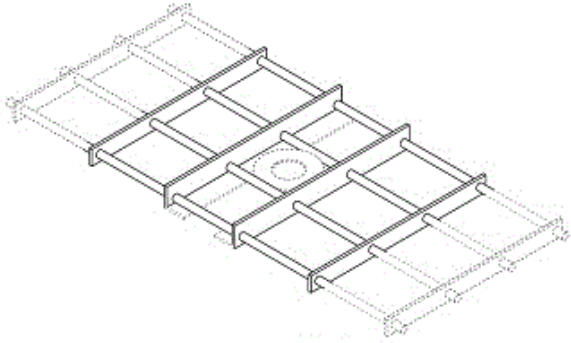
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00214 22: 2022-02-28 23:
 43: 2022-12-06
 52: Class 25. 24: Part F
 71: DAVIES, CRAIG DAVID, DAVIES, GORDON DANIEL

54: Header Board

57: The design relates to a header board. The features of the design are those of shape and/or configuration and/or pattern.

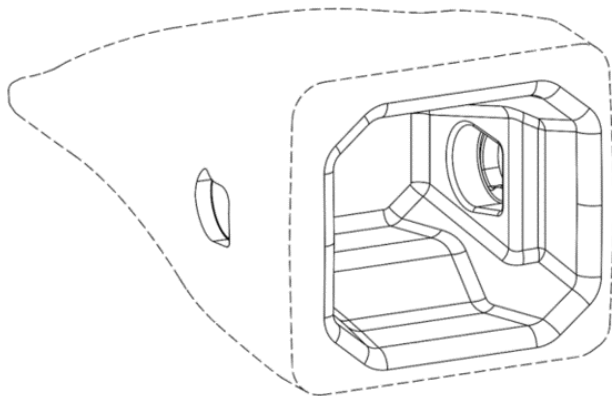


PERSPECTIVE VIEW

21: F2022/00317 22: 2022-03-25 23:
43: 2022-12-06
52: Class 15 24: Part F
71: CQMS PTY LTD
33: AU 31: 202116508 32: 2021-10-21

54: WEAR MEMBER

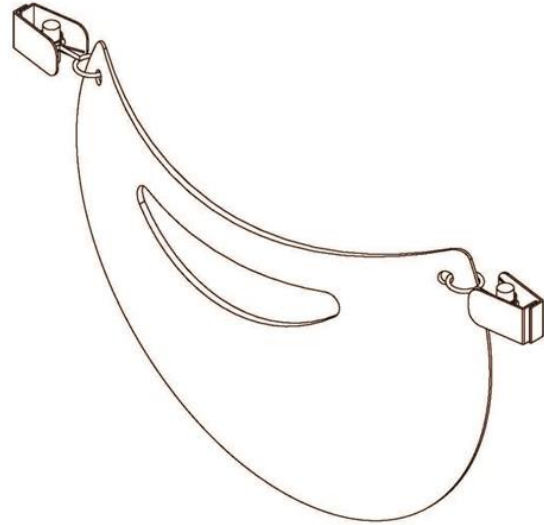
57: The design is applied to a wear member. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the wear member, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2022/00406 22: 2022-04-19 23:
43: 2022-10-19
52: Class 02 24: Part F
71: BUBS IN ARMS PTY LTD
33: AU 31: 202116463 32: 2021-10-19

54: NURSING SCREEN

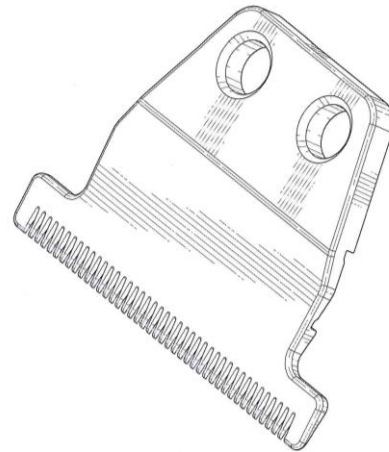
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00430 22: 2022-04-22 23:
43: 2022-11-03
52: Class 28 24: Part F
71: WAHL CLIPPER CORPORATION
33: US 31: 29/790211 32: 2021-11-11

54: STATIONARY BLADE FOR A HAIR TRIMMER

57: The features of the design for which protection is claimed are those of the shape and/or configuration of a stationary blade for a hair trimmer substantially as illustrated in the accompanying drawing.

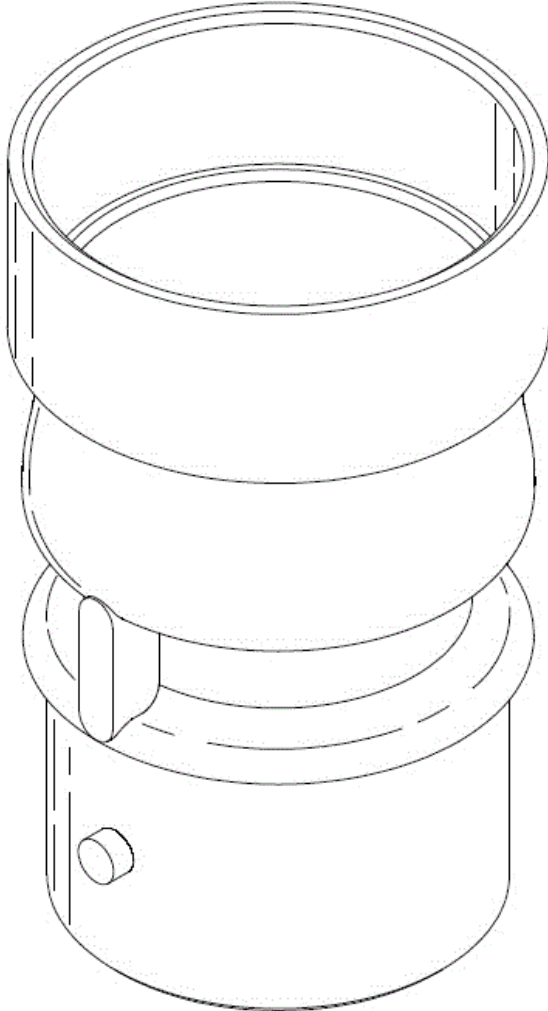


21: F2022/00594 22: 2022-05-27 23:
43: 2022-05-27
52: Class 23 24: Part F
71: Fluidra Waterlinx (Pty) Ltd

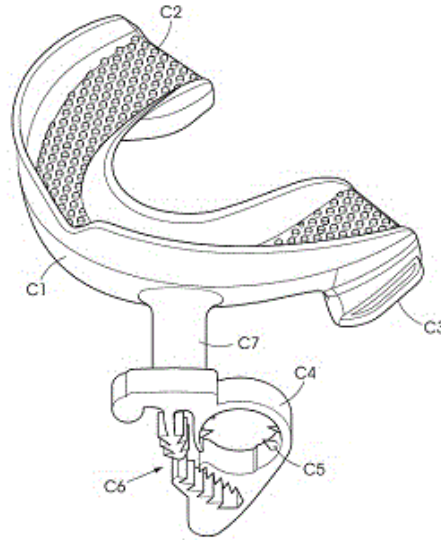
54: Adaptors

57: The design is in respect of an adaptor for selectively connecting one of a plurality of cleaning devices for cleaning submerged surfaces to a

vacuum hose. The adaptor includes a body which defines a hose connecting formation and a plurality of cleaning device connecting formations whereby the adaptor is selectively disconnectably connectable to one of a plurality of cleaning devices.

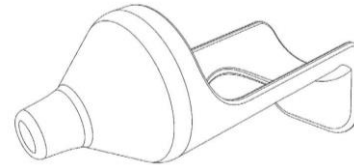


21: F2022/00603 22: 2022-05-31 23: 43: 2022-12-06
 52: Class 24. 24: Part F
 71: JIREHSA MEDICAL (PTY) LTD
54: Secure Airway Clamp Device
 57: The design relates to a secure airway clamp device. The features of the design are those of shape and/or configuration and/or pattern.

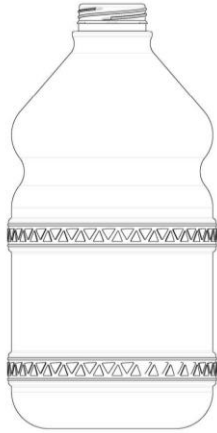


TOP PERSPECTIVE VIEW

21: F2022/00605 22: 2022-05-31 23: 43: 2023-01-12
 52: Class 24 24: Part F
 71: Bhavesh Gokani
 33: GB 31: 6180219 32: 2021-12-08
54: EAR DROP APPLICATOR
 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).



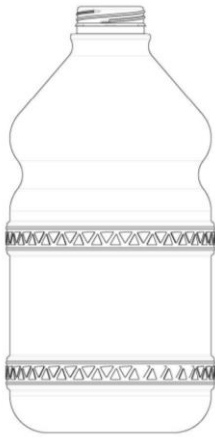
21: F2022/00641 22: 2022-06-09 23: 43: 2023-01-12
 52: Class 09 24: Part F
 71: Polyoak Packaging (Pty) Ltd
54: CONTAINER
 57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00641 22: 2022-06-09 23:
43: 2023-01-12
52: Class 09 24: Part F
71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

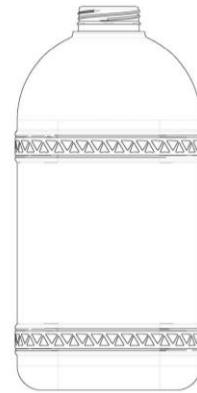
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00643 22: 2022-06-09 23:
43: 2023-01-12
52: Class 09 24: Part F
71: Polyoak Packaging (Pty) Ltd

54: CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



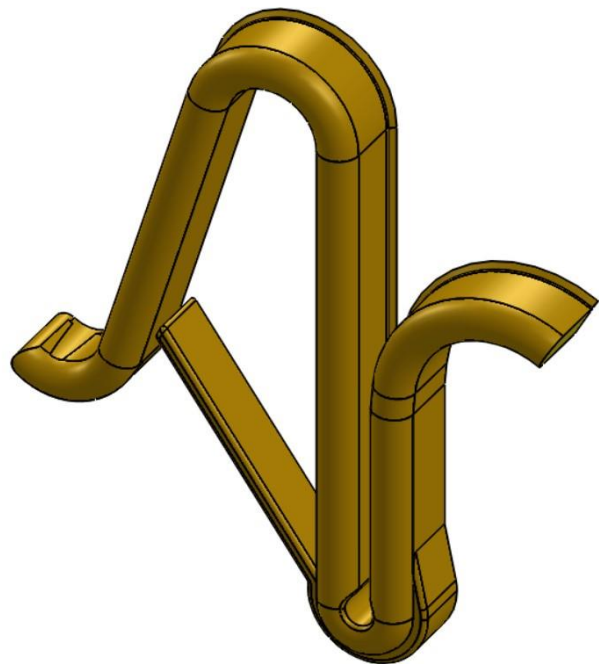
21: F2022/00684 22: 2022-06-17 23:
43: 2023-01-19

52: Class 08 24: Part F

71: DE KOCK, Jean Pierre

54: PLANT TRAINING HOOK

57: The design is for a plant training hook that forms a tight recess and an open, tapering recess, open to opposing sides of the hook, with a resilient detent spanning the open tapering recess. The plant training hook has a cross-sectional profile that flares outwards towards a rear surface and the flaring profile provides a pinching grip in the tight recess and a gentler grip in the open tapering recess.

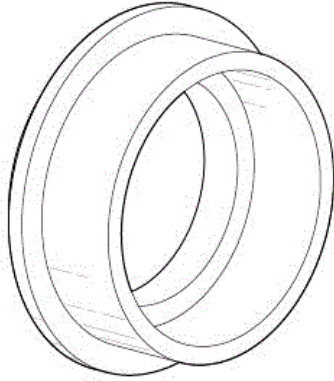


21: F2022/00687 22: 2022-06-20 23:
43: 2023-01-19

52: Class 13 24: Part F

71: HELLERMANNTYTON (PTY) LTD
54: SEAL DEFORMING MEMBER FOR A CABLE GLAND

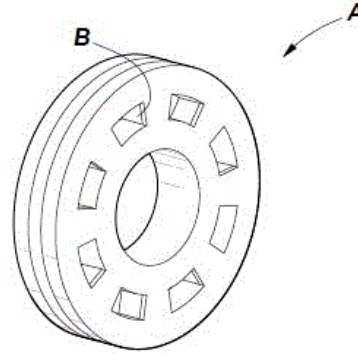
57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal deforming member, substantially as illustrated in the accompanying representations.



FIRST PERSPECTIVE VIEW

54: SEAL FOR A CABLE GLAND

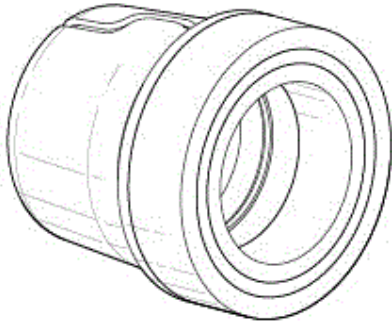
57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal A (defining a plurality of sockets B), substantially as illustrated in the accompanying representations, irrespective of the number of sockets B.



FIRST PERSPECTIVE VIEW

21: F2022/00689 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F
 71: HELLERMANNTYTON (PTY) LTD
54: A SEAL AND CABLE GRIPPING ASSEMBLY FOR A CABLE GLAND

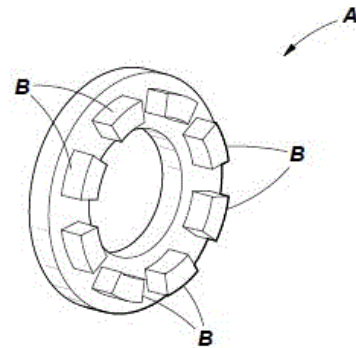
57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal and cable gripping assembly, substantially as illustrated in the accompanying representations.



FIRST PERSPECTIVE VIEW

21: F2022/00691 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F
 71: HELLERMANNTYTON (PTY) LTD
54: SEAL DEFORMING MEMBER FOR A FOR A CABLE GLAND

57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal deforming member A (comprising a plurality of prongs B), substantially as illustrated in the accompanying representations, irrespective of the number of prongs B.



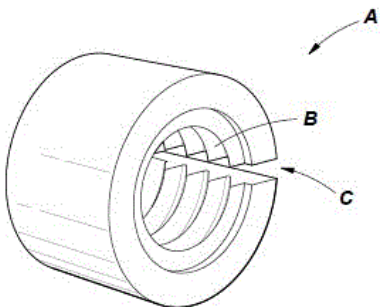
FIRST PERSPECTIVE VIEW

21: F2022/00690 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F
 71: HELLERMANNTYTON (PTY) LTD

21: F2022/00692 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F

71: HELLERMANNTYTON (PTY) LTD
54: CABLE GRIPPING MEMBER FOR A CABLE GLAND

57: The features of the design for which protection is claimed comprise the shape and/or configuration of a cable gripping member A (comprising a plurality of teeth B and defining a slot C), substantially as illustrated in the accompanying representations, irrespective of the number of teeth B and the shape of the slot C.

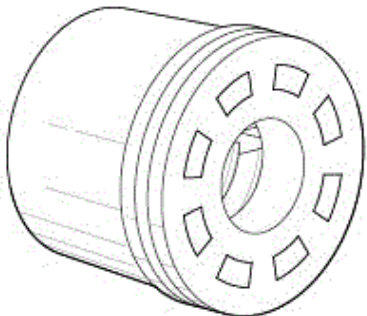


FIRST PERSPECTIVE VIEW

21: F2022/00693 22: 2022-06-20 23:
 43: 2023-01-19
 52: Class 13 24: Part F

71: HELLERMANNTYTON (PTY) LTD
54: A SEAL AND CABLE GRIPPING ASSEMBLY FOR A CABLE GLAND

57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal and cable gripping assembly, substantially as illustrated in the accompanying representations.



FIRST PERSPECTIVE VIEW

21: F2022/00755 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part F
 71: Triple A Finance GmbH & Co. KG

33: WO 31: WIPO111814 32: 2021-12-30
54: ANTI-WRINKLE APPLIANCES

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: F2022/00757 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part F
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30
54: ANTI-WRINKLE APPLIANCES

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: F2022/00761 22: 2022-06-30 23:
 43: 2023-01-12
 52: Class 28 24: Part F
 71: Triple A Finance GmbH & Co. KG
 33: WO 31: WIPO111814 32: 2021-12-30
54: ANTI-WRINKLE APPLIANCES

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: F2022/00763 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

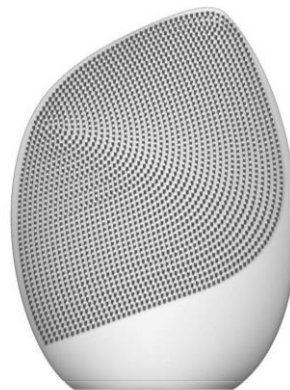
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00765 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

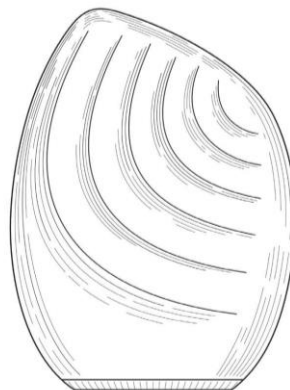
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/00767 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG

54: ANTI-WRINKLE APPLIANCES

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: F2022/00769 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00771 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00773 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00775 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00777 22: 2022-06-30 23:
43: 2023-01-12
52: Class 28 24: Part F
71: Triple A Finance GmbH & Co. KG
33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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: F2022/00779 22: 2022-06-30 23:
43: 2023-01-12

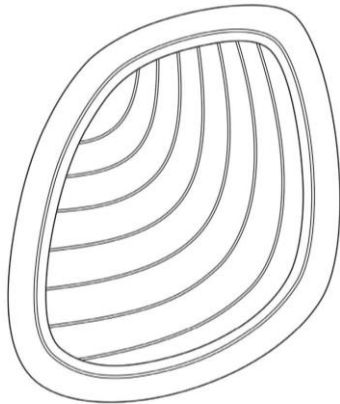
52: Class 28 24: Part F

71: Triple A Finance GmbH & Co. KG

33: WO 31: WIPO111814 32: 2021-12-30

54: ANTI-WRINKLE APPLIANCES

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).



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

21: 2023/00001. 22: 2023/01/13 43: 2023/01/13

24: 2019/06/30 to 2020/07/30; JOHANNESBURG

25: 2020/07/31; NETFLIX

71: BURNT ONION PRODUCTIONS

471 JAN SMUTS AVENUE, RANDBURG, 2194,
South Africa

75: LWAZI MVUSI1 HERBET RD, PETERVALE, ZA,
2191, Email :LWAZI02@GMAIL.COM

76: RETHABILE RAMAPHAKELA; KATLEHO
RAMAPHAKELA; TSHEPO
RAMAPHAKELA

77: RETHABILE RAMAPHAKELA; KATLEHO
RAMAPHAKELA

54: **SERIOUSLY SINGLE**

78: FULU MUGOVHANI; TUMI MORAKE; BOHANG
MOEKO; YONDA THOMAS

26: N/A

55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: Serial monigamist, Dineo's fantasy that she has finally met the love of her life is shattered when he marries another woman and she has to face what she dreads the most - life as a single woman.

58: CO

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

The Trade Mark under application no: **2014/34192** was advertised in the January 2023 journal therefore it is re-advertised in the February 2023 and the valid publication date is the **22/02/2023**.

PATENT CORRECTION NOTICES

In the December 2022 the patent application under application no: **2018/05741** was advertised with incorrect names of the applicants which appeared as **STEM CELL THERANOSTICS, INC., CAPELLA BIOSCIENCES, INC.** and the correct name was supposed to read as **AURANSA INC.; SCT II LLC**. But the publication date will remain the **21/12/2022**.

DESIGNS CORRECTION NOTICES

No records available

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

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Number of Advertised Patents: 646

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2012/06686	PLANT HEALTH COMPOSITIONS COMPRISING A WATER-SOLUBLE PESTICIDE AND A WATER-INSOLUBLE AGROCHEMICAL	2012/09/06
2013/04105	METHOD OF PARTIALLY INFILTRATING AN AT LEAST PARTIALLY LEACHED POLYCRYSTALLINE DIAMOND TABLE AND RESULTANT POLYCRYSTALLINE DIAMOND COMPACTS	2013/06/05
2014/08735	SYSTEMS AND METHODS FOR CANISTER INSPECTION, PREPARATION, AND MAINTENANCE	2014/11/27
2015/05939	CO-LOCATED ANTENNA	2015/08/18
2015/06563	OXIDATION PROTECTED SEPARATOR	2015/09/07
2016/05812	PHARMACEUTICAL COMPOUNDS	2016/08/22
2017/01523	BRAKE CYLINDER MAINTAINING REFERENCE	2017/03/01
2017/03263	NON-HUMAN ANIMALS HAVING A HUMANIZED CLUSTER OF DIFFERENTIATION 274 GENE	2017/05/11
2017/04551	INTUBATION DEVICE	2017/07/05
2017/05924	OXYGEN REDUCTION DISPOSABLE KITS, DEVICES AND METHODS OF USE THEREOF	2017/08/31
2017/08064	PHARMACEUTICAL FORMULATIONS FOR SUSTAINED RELEASE OF SEBACOYL DINALBUPHINE ESTER	2017/11/28
2018/01327	CONTAINER AND METHOD FOR MANUFACTURING A CONTAINER	2018/02/27
2018/02315	METHODS OF PREPARING NICOTINAMIDE RIBOSIDE AND DERIVATIVES THEREOF	2018/04/09
2018/04870	ACID ADDITION SALTS OF PIPERAZINE DERIVATIVES	2018/07/19
2018/04909	HETEROCYCLIC COMPOUNDS AS IMMUNOMODULATORS	2018/07/20
2018/04943	5-ETHYL-4-METHYL-PYRAZOLE-3-CARBOXAMIDE DERIVATIVE HAVING ACTIVITY AS AGONIST OF TAAR	2018/07/23
2018/04944	STABLE LIQUID GONADOTROPIN	2018/07/23

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	FORMULATION	
2018/04973	PROTEASE-ACTIVATED T CELL BISPECIFIC MOLECULES	2018/07/24
2018/05110	FUEL COMPOSITIONS	2018/07/30
2018/05143	FUEL COMPOSITIONS WITH ADDITIVES	2018/07/31
2018/05600	PYRIMIDINE SEVEN-MEMBERED- RING COMPOUNDS, PREPARATION METHOD THEREFOR, PHARMACEUTICAL COMPOSITION THEREOF, AND USES THEREOF	2018/08/22
2018/06429	ANTI-TIG-3 ANTIBODIES AND COMPOSITIONS	2018/09/27
2018/07589	REAGENTS FOR TREATMENT OF OCULOPHARYNGEAL MUSCULAR DYSTROPHY (OPMD) AND USE THEREOF	2018/11/12
2019/00765	REGULATION OF GENE EXPRESSION USING ENGINEERED NUCLEASES	2019/02/06
2019/02696	CAPPED OLIGOSACCHARIDES COMPRISING SEVEN OR MORE UNITS OF 4,6-DIDEOXY-4- ACYLAMIDO-ALPHA-PYRANOSE AND CONJUGATES THEREOF AS VACCINES AGAINST INFECTIONS CAUSED BY BRUCELLA ORGANISMS	2019/04/29
2019/03452	ORAL CARE COMPOSITIONS	2019/05/30
2019/03828	NOVEL GLUTAMINYL CYCLASE INHIBITORS AND THE USE THEREOF IN TREATMENT OF VARIOUS DISEASES	2019/06/13
2019/03848	ANTIBODIES THAT SPECIFICALLY BIND TO HUMAN IL-15 AND USES THEREOF	2019/06/13
2019/05679	INTRADIALYTIC USE OF SODIUM NITRITE	2019/08/28
2019/06035	CHEMICAL COMPOUNDS	2019/09/12
2019/06675	PYRROLOBENZODIAZEPINE CONJUGATES	2019/10/09
2019/06843	DEVICE FOR RAPID RESCUE FROM HIGH-RISE BUILDING	2019/10/16
2019/07481	ANTIBODY-CYTOKINE ENGRAFTED PROTEINS AND METHODS OF USE FOR IMMUNE RELATED DISORDERS	2019/11/12
2019/07637	ANTHELMINTIC DEPSIPEPTIDE COMPOUNDS	2019/11/19
2019/07778	STEEL SHEET FOR MANUFACTURING PRESS HARDENED PARTS, PRESS	2019/11/25

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	HARDENED PART HAVING A COMBINATION OF HIGH STRENGTH AND CRASH DUCTILITY, AND MANUFACTURING METHODS THEREOF	
2019/08464	LIQUID DISPENSING DEVICE	2019/12/19
2020/00058	ROADWAY SUPPORT STRUCTURE WITH EMBEDDED GROUTING PIPE NETWORK FOR HEAVILY STRESSED LAYERED UNLOADING FRACTURED ROCKS	2020/01/06
2020/01141	ZEOLITE AFTER TREATMENT METHOD	2020/02/24
2020/01507	METHOD AND DEVICE FOR ALLOCATING A BIT-BUDGET BETWEEN SUB-FRAMES IN A CELP CODEC	2020/03/10
2020/01552	SYSTEMS AND METHODS FOR INTEGRATED AND COMPREHENSIVE MANAGEMENT OF CANNABIS PRODUCTS	2020/03/04
2020/01559	A SECURITY SYSTEM	2020/03/12
2020/01590	SOLAR ROOF STRUCTURE	2020/03/13
2020/01721	CHROMANE MONOBACTAM COMPOUNDS FOR THE TREATMENT OF BACTERIAL INFECTIONS	2020/03/18
2020/01845	DECK BOARD	2020/03/20
2020/02261	VAPOUR PROVISION SYSTEMS	2020/05/04
2020/02445	COMPOSITIONS AND METHODS FOR DETECTING AND TREATING INSULIN RESISTANCE	2020/05/04
2020/03079	PHARMACEUTICAL COMPOSITIONS COMPRISING SAFINAMIDE	2020/05/25
2020/03155	LIQUID VACCINES OF LIVE ENVELOPED VIRUSES	2020/05/27
2020/03208	COMPOUNDS FOR SEPARATION OF RARE EARTH ELEMENTS AND S-, P-, D- METALS, METHOD OF SEPARATION, AND USE THEREOF	2020/05/28
2020/03649	TRANSPORTABLE GRAVITATIONAL SYSTEM AND METHOD FOR GENERATING CLEAN ELECTRICAL ENERGY	2020/06/17
2020/03731	DIRECT COUPLING COMPATIBLE SPRINKLER	2020/06/19
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2020/04464	DISPLAY APPARATUS	2020/07/20
2020/04466	PROCESSES FOR THE SYNTHESIS OF SULFENTRAZONE	2020/07/20
2020/04537	METHOD FOR FABRICATING LOW-COST, SHORT-PRODUCTION-CYCLE WEAR-RESISTANT STEEL	2020/07/22
2020/04552	MICROBIAL COMPOSITIONS FOR THE PREVENTION OR REDUCTION OF GROWTH OF FUNGAL PATHOGENS ON PLANTS	2020/07/22
2020/04603	SYSTEMS AND METHODS FOR TRACKING THE ORIGIN OF CANNABIS PRODUCTS AND CANNABIS DERIVATIVE PRODUCTS	2020/07/24
2020/04638	ANTAGONISTS OF THE MUSCARINIC ACETYLCHOLINE RECEPTOR M4	2020/07/27
2020/04867	TREATMENT OF WOODEN MATERIALS	2020/08/05
2020/04886	DISSOLVED AIR FLOTATION SYSTEM AND METHODS FOR BIOLOGICAL NUTRIENT REMOVAL	2020/08/06
2020/04982	PHARMACEUTICAL COMBINATION PREPARATION COMPRISING EZETIMIBE AND ROSUVASTATIN	2020/08/12
2020/04986	TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION METHOD	2020/08/12
2020/05050	POLYPEPTIDE, COMPOSITIONS AND USES THEREOF	2020/08/14
2020/05084	MODULAR AEROPONIC GARDEN SYSTEM	2020/08/17
2020/05114	HIGH SOLIDS DISSOLVED AIR FLOTATION SYSTEM AND METHODS	2020/08/18
2020/05150	METHOD OF PRODUCTION OF LIGNIN AND HEMICELLULOSE FROM A PLANT LIGNOCELLULOSIC MATERIAL	2020/08/19
2020/05157	RECYCLABLE PLASTIC PACKAGE	2020/08/19
2020/05214	SECURITY ENCLOSURE ARRANGEMENT	2020/08/21
2020/05340	WHEEL SPEED SENSING SYSTEM	2020/08/27
2020/05436	MULTIFUNCTIONAL TREATMENT AND DIAGNOSTIC COMPOSITIONS AND METHODS	2020/08/31
2020/05438	PIPERIDINYL-3-(ARYLOXY)PROPANAMIDES AND PROPANOATES	2020/08/31
2020/05459	METHODS OF USE AND PHARMACEUTICAL COMPOSITIONS OF A SELECTIVE SYK INHIBITOR	2020/09/01

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2020/05535	INTRAOCULAR SHUNT INSERTER	2020/09/07
2020/05639	PICOLINAMIDES AS FUNGICIDES	2020/09/10
2020/05674	GLUCOAMYLASES AND METHODS OF USE THEREOF	2020/09/11
2020/05814	CUTTING ASSEMBLY	2020/09/18
2020/05837	CD83-BINDING CHIMERIC ANTIGEN RECEPTORS	2020/09/21
2020/05840	TACTILE BLOOD PRESSURE IMAGER	2020/09/21
2020/05878	SEQUENCING BATCH REACTOR SYSTEMS AND METHODS	2020/09/22
2020/05902	PRESSURE REGULATING SYSTEM FOR A BEVERAGE CONTAINER AND BEVERAGE CONTAINER PROVIDED THEREWITH	2020/09/23
2020/06474	BINDING MOLECULES AGAINST BCMA AND USES THEREOF	2020/10/19
2020/07081	A COMPUTER IMPLEMENTED SYSTEM AND METHOD OF DETECTING EXERCISE DEVICE FRAUD	2020/11/13
2020/07212	DEFLECTOR	2020/11/19
2020/07247	A METHOD AND SYSTEM FOR DETERMINING A POSSIBLE ROAD SAFETY VIOLATION	2020/11/20
2020/07248	OSCILLATING POSITIVE EXPIRATORY PRESSURE DEVICE	2020/11/20
2020/07563	USING A PASSIVE SEPARATOR TO SEPARATE AIR AND FUEL OF A FUEL MIXTURE PASSIVELY WHEN DELIVERING FUEL TO A COMBUSTION ENGINE OF AN UNMANNED AERIAL VEHICLE	2020/12/04
2020/07593	A COMPUTER AND A METHOD OF OPERATING A COMPUTER	2020/12/07
2020/07620	METHODS AND COMPOSITIONS FOR INHIBITION OF DIHYDROOROTATE DEHYDROGENASE	2020/12/07
2020/07743	PRESSURE-LIMITING ASSEMBLY FOR USE IN HYDRAULIC OR PNEUMATIC BRAKE SYSTEMS	2020/12/11
2020/07773	ULTRA-CHUTING ELECTRIC POWER GENERATION	2020/12/14
2020/07920	LASER TREATMENT METHOD	2020/12/18
2020/07971	THE PROCESSING OF A FEED MATERIAL CONTAINING PLATINUM GROUP METALS	2020/12/21
2020/07972	SYSTEMS AND METHODS FOR DRILL HEAD POSITION DETERMINATION	2020/12/21
2020/08040	AMPHIREGULIN GENE-SPECIFIC	2020/12/22

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	DOUBLE-STRANDED OLIGONUCLEOTIDE AND COMPOSITION FOR PREVENTING AND TREATING FIBROSIS-RELATED DISEASES AND RESPIRATORY DISEASES, COMPRISING SAME	
2020/08057	BOLT ASSEMBLY	2020/12/23
2020/08058	A LINED MATERIAL STORAGE AND/OR HANDLING FACILITY	2020/12/23
2021/00802	NUTRIMENT AND METHOD OF MANUFACTURING SAME	2021/02/05
2021/01824	COMBINATION THERAPY USING ANTI-SSEA-4 ANTIBODY IN COMBINATION WITH THERAPEUTIC ONCOLOGY AGENTS	2021/03/18
2021/01958	METHOD FOR HEATING A FUEL CELL SYSTEM AND FUEL CELL SYSTEM	2021/03/24
2021/02297	FLOW CONTROL ARRANGEMENT FOR A BEVERAGE CONTAINER	2021/04/07
2021/02439	BRAKING ARRANGEMENT FOR A TROLLEY	2021/04/14
2021/02495	IMAGE CODING/DECODING METHOD, CODER, DECODER, AND STORAGE MEDIUM	2021/04/15
2021/02510	RECONFIGURABLE ITEM OF CLOTHING	2021/04/16
2021/02609	COMPOUNDS, COMPOSITIONS, AND METHODS FOR MODULATING CDK9 ACTIVITY	2021/04/20
2021/02810	PAYMENT SYSTEM AND METHOD	2021/04/28
2021/03058	PLANT VECTORS, COMPOSITIONS AND USES RELATING THERETO	2021/05/06
2021/03356	HERBICIDAL COMBINATION	2021/05/18
2021/03465	COFFEE CONTAINER FOR BEVERAGE PREPARATION AND METHOD OF MANUFACTURING A COFFEE CONTAINER	2021/05/21
2021/03623	MODULAR SYSTEM FOR INVENTORY AND TRANSPORT EFFICIENCY OF PACKAGING	2021/05/27
2021/03651	SYSTEMS AND METHODS FOR MEASURING FORCES IN EARTH MOVING MACHINERY AND CONTROL THEREOF, AND AUTOMATIC OR SEMI-AUTOMATIC MACHINERY	2021/05/27
2021/04875	PRECODING VECTOR INDICATING AND DETERMINING METHOD AND COMMUNICATIONS APPARATUS	2021/07/12
2021/04913	ANIMAL FEED COMPOSITION	2021/07/13
2021/05339	IMIDAZO[2,1-F][1,2,4]TRIAZIN-4-	2021/07/28

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	AMINE DERIVATIVES AS TLR7 AGONIST	
2021/05633	THERAPEUTIC USES OF RELACORILANT, A HETEROARYL-KETONE FUSED AZADECALIN GLUCOCORTICOID RECEPTOR MODULATOR	2021/08/10
2021/05655	MULTIFUNCTIONAL ADDITIVE COMPOUNDS	2021/08/05
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2021/05808	SECURE STORAGE ISOLATION	2021/08/13
2021/05809	SECURE INTERFACE CONTROL HIGH-LEVEL PAGE MANAGEMENT	2021/08/13
2021/05968	PLANT PALLET	2021/08/19
2021/06008	IN-LINE PRODUCTION OF LINERLESS LABELS	2021/08/20
2021/06012	HUMAN SERUM ALBUMIN IN FORMULATIONS	2021/08/20
2021/06284	RAD51 INHIBITORS	2021/08/30
2021/06450	SYSTEMS AND METHODS FOR INTEGRATED AND COMPREHENSIVE MANAGEMENT OF CANNABIS PRODUCTS	2021/09/03
2021/06452	SYSTEMS AND METHODS FOR INTEGRATED AND COMPREHENSIVE MANAGEMENT OF CANNABIS PRODUCTS	2021/09/03
2021/06474	FLOAT VALVE SYSTEMS AND METHODS FOR CONTROLLING LIQUID LEVEL IN VESSELS	2021/09/03
2021/06872	PROCESS FOR THE DEPOLYMERIZATION OF POLYETHYLENE TEREPHTHALATE (PET)	2021/09/17
2021/06880	ANTI-CLAUDIN 18.2 ANTIBODY AND APPLICATION THEREOF	2021/09/17
2021/06885	LIGHT EMISSION DEVICE	2021/09/17
2021/07016	PROSTHETIC ACCESSORY STERILIZER	2021/09/20
2021/07052	PHASE-CORRECTION OF RADIOFREQUENCY-MULTIPLEXED SIGNALS	2021/09/21
2021/07110	ELECTRICALLY-POWERED AEROSOL DELIVERY SYSTEM	2021/09/23
2021/07393	HAIR IMPLANTS COMPRISING ENHANCED ANCHORING AND MEDICAL SAFETY FEATURES	2021/09/30
2021/07414	KILLER CELL LECTIN-LIKE RECEPTOR SUBFAMILY G MEMBER 1 (KLRG1) DEPLETING ANTIBODIES	2021/10/01
2021/07702	A METHOD FOR ESTIMATING	2021/10/12

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	REMAINING USEFUL LIFE OF COMPONENTS OF AN OPERATIONAL WIND TURBINE	
2021/08527	ACTUATION STRUCTURE OF BLOOD VESSEL CLIP APPLIER	2021/11/02
2021/09497	ANTISENSE RNA EDITING OLIGONUCLEOTIDES COMPRISING CYTIDINE ANALOGS	2021/11/24
2021/09624	METHOD FOR MINING SHALLOW COAL SEAM WITH MINIMIZED IMPACT	2021/11/26
2021/09972	MEDIA PROVENANCE CERTIFICATION VIA FRAGILE WATERMARKING	2021/12/03
2021/10088	ENVIRONMENTAL MANAGEMENT SYSTEM	2021/12/07
2021/10174	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	2021/12/08
2021/10234	METHOD OF DETERMINING AN INTERFACE HEIGHT OF AN INTERFACE BETWEEN AN UPPER AND A LOWER LAYER COMPRISED IN A THICKENER	2021/12/09
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2022/01244	DEVICE, METHOD, SYSTEM AND STORAGE MEDIUM FOR PRECIPITATION MONITORING	2022/01/26
2022/01625	MACHINE METHODS TO DETERMINE NEOEPITOPE PAYLOAD TOXICITY	2022/02/07
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2022/03328	CONSTRUCTION REINFORCING UNIT AND METHOD OF	2022/03/22

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	REINFORCING A CONCRETE SLAB	
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2022/03618	MMUP MONOMER VARIANT AND APPLICATION THEREOF	2022/03/29
2022/03675	NUCLEAR REACTOR HEAD, NUCLEAR REACTOR COMPRISING SUCH A NUCLEAR REACTOR HEAD AND METHOD OF MAINTAINING A NUCLEAR REACTOR	2022/03/30
2022/03905	A MODIFIED ROCK ANCHOR ASSEMBLY	2022/04/06
2022/03978	CONVEYING DEVICE AT LEAST FOR CONVEYING A FLUID AND PUMP HAVING SUCH A CONVEYING DEVICE	2022/04/07
2022/04215	METHODS FOR PRODUCING AND USING ALKALINE AQUEOUS FERRIC IRON SOLUTIONS	2022/04/13
2022/04217	A METHOD AND A DRILL BIT FOR SEALING A BLASTHOLE WALL	2022/04/13
2022/04434	PROCESS FOR DETECTING WATER LEAKS FROM SMELTING FURNACES IN METAL OR ALLOY PRODUCTION PLANTS AND RELATED PLANT	2022/04/20
2022/04606	METHOD OF PRODUCING PURIFIED GRAPHITE	2022/04/25
2022/04680	FLUID CATALYTIC CRACKING FEED INJECTOR	2022/04/26
2022/04839	A SEAL ARRANGEMENT	2022/05/03
2022/04933	IMPROVEMENT RELATING TO DRILL RODS	2022/05/05
2022/05134	CUTTING PROPAGATION METHOD OF TRACHELOSPERMUM COMPLEX ARBUSCULAR MYCORRHIZA	2022/05/10
2022/05135	POROUS MATERIAL FOR WATER-RETAINING, PREPARATION METHOD AND APPLICATION THEREOF	2022/05/10
2022/05136	PREPARATION METHOD OF INTRAVASCULAR DRUG STENT AND PRODUCT THEREOF	2022/05/10
2022/05171	APPARATUS AND METHOD FOR DEPOLYMERIZATION OF POLYMERS	2022/05/10
2022/05195	SWIMMING POOL CLEANER	2022/05/11
2022/05440	BRAKE ARRANGEMENT FOR A PROJECTILE	2022/05/17
2022/05619	CONTAINERS	2022/05/23
2022/05673	ARRANGEMENT AND METHOD FOR	2022/05/23

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2022/05758	SUBSTITUTED HETEROCYCLIC FUSED CYCLIC COMPOUND, PREPARATION METHOD THEREFOR AND PHARMACEUTICAL USE THEREOF	2022/05/16
2022/05759	SYSTEM FOR PRODUCING AND DELIVERING INFORMATION TECHNOLOGY PRODUCTS AND SERVICES	2022/05/16
2022/05794	ONCE DAILY CANCER TREATMENT REGIMEN WITH A PRMT5 INHIBITOR	2022/05/25
2022/05840	A Security Structure	2022/05/26
2022/05917	RECYCLABLE POLYETHYLENE BASED PACKAGING MATERIAL FOR USE ON HORIZONTAL FORM-FILL-SEAL MACHINES AND A METHOD OF ITS MANUFACTURE	2022/05/27
2022/05918	RECYCLABLE POLYETHYLENE BASED PACKAGING MATERIAL FOR USE IN MODIFIED ATMOSPHERIC PACKAGING FOR BOTH BAGS-ON-ROLL AND POUCH MADE BAGS	2022/05/27
2022/05928	USE OF CARBON NETWORKS COMPRISING CARBON NANOFIBERS	2022/05/27
2022/05929	COMPOSITIONS FOR USE IN ELECTROMAGNETIC INTERFERENCE SHIELDING	2022/05/27
2022/05986	A PISTON PUMP	2022/05/30
2022/06114	TENSION BALANCING SUSPENSION DEVICE	2022/06/01
2022/06117	ARRANGEMENT AND METHOD FOR PROVISION OF ENHANCED TWO-DIMENSIONAL IMAGING DATA	2022/06/01
2022/06250	STABLE PARENTERAL FORMULATIONS OF DULOXETINE	2022/06/06
2022/06288	YIELDING ANCHOR	2022/06/07
2022/06309	AN ELECTRONIC CIRCUIT THAT GENERATES A HIGH-IMPEDANCE LOAD AND AN ASSOCIATED METHOD	2022/06/07
2022/06310	AN AMPLIFIER CIRCUIT TO ENABLE ACCURATE MEASUREMENT OF SMALL ELECTRICAL SIGNALS	2022/06/07
2022/06312	OFF-FOCUS MICROSCOPIC IMAGES OF A SAMPLE	2022/06/07
2022/06316	CLASSIFICATION MODELS FOR ANALYZING A SAMPLE	2022/06/07

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2022/06419	METHOD FOR QUANTITATIVELY REGULATING CONTENT OF PERICLASE IN CEMENT	2022/06/09
2022/06430	CABIN COVER AND WIND TURBINE GENERATOR SET	2022/06/09
2022/06431	METHOD AND DEVICE FOR CONTROLLING GENERATOR-SIDE TERMINAL VOLTAGE OF CONVERTER, AND CONTROLLER OF CONVERTER	2022/06/09
2022/06664	CONSTRUCTION EQUIPMENT FOR HANGING, ASSEMBLING AND LIFTING VERTICAL FORMWORKS OF BUILDINGS AND CONSTRUCTION METHOD THEREOF	2022/06/15
2022/06736	METHOD AND DEVICE FOR ANALYSIS OF LIQUID SAMPLES	2022/06/17
2022/06755	A CLAMP FOR A BRONCHOSCOPE OR THE LIKE	2022/06/17
2022/06805	MACHINE LEARNING SYSTEM	2022/06/20
2022/06840	HIGH-LOW VOLTAGE CONTINUOUS RIDE-THROUGH CONTROL METHOD AND SYSTEM FOR PERMANENT MAGNET DIRECT-DRIVE WIND POWER GENERATING SET	2022/06/20
2022/06872	MANAGEMENT SYSTEM FOR USER-SPECIFIC FINANCING	2022/06/21
2022/06878	CONTROL METHOD AND SYSTEM FOR CONTINUOUS HIGH AND LOW VOLTAGE RIDE THROUGH OF PERMANENT-MAGNET DIRECT-DRIVE WIND-DRIVEN GENERATOR SET	2022/06/21
2022/06881	A BLOCKCHAIN BUSINESS COLLABORATION METHOD AND A PLATFORM THEREOF	2022/06/21
2022/06884	DECORATIVE PANEL AND METHOD OF MANUFACTURING A DECORATIVE PANEL	2022/06/21
2022/06892	INSULATED PANEL AND METHOD OF MANUFACTURING AN INSULATED PANEL	2022/06/21
2022/06893	ASSEMBLY METHOD AND FIXING DEVICE FOR ELECTRIC MOTOR	2022/06/21
2022/06942	AUTOMATIC HYDRAULIC DICING COAL ROADWAY EXCAVATION TROLLEY	2022/06/22
2022/06951	CEMENTITIOUS COMPOSITION FOR PROTECTING SURFACES AGAINST	2022/06/22

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	(BIO)CORROSION	
2022/07107	OCEAN COMMUNICATION BUOY	2022/06/27
2022/07134	SCREEN HANDLING SYSTEM	2022/06/28
2022/07278	FUNGICIDES TO PREVENT AND CONTROL FUNGAL PATHOGENS	2022/06/30
2022/07326	PRE-WELD WIRE PULLING METHOD FOR STERN THRUSTER BASE	2022/07/01
2022/07910	LIGHTWEIGHT WATER BLOCKING BACKFILL MATERIAL	2022/07/15
2022/07911	LIGHTWEIGHT FOAM FILLING METHOD	2022/07/15
2022/07914	SUCTION DREDGER FOR USE ON UNDERWATER HARD SOIL LAYER	2022/07/15
2022/07964	LIGHTWEIGHT FOAMED FILLING MATERIAL FOR CAISSON TYPE BATHROOM	2022/07/18
2022/07965	PRODUCTION AND CONSTRUCTION METHOD FOR BACKFILLING A CAISSON TYPE BATHROOM	2022/07/18
2022/08022	A POINT OF CARE DEVICE, METHOD AND KIT INVOLVING CLUB CELL PROTEIN 16 AS A MARKER FOR SILICOSIS	2022/07/19
2022/08164	CONTOUR FORMING APPARATUS	2022/07/21
2022/08231	METHOD FOR MODIFYING CARBON FIBER AND PRODUCT THEREOF	2022/07/22
2022/08315	COMPUTER-IMPLEMENTED METHOD FOR MONITORING THE EXPIRATION DATES OF GENETICALLY MODIFIED ORGANISM PRODUCTS, AND SYSTEM IMPLEMENTING THE SAME	2022/07/26
2022/08320	SYSTEM AND METHOD FOR DETECTING THE PRODROMAL DEVELOPMENT OF ALZHEIMER'S DISEASE FROM SLEEP PATTERNS	2022/07/26
2022/08321	PROCESS FOR GENERATING AND SENDING RECOMMENDATIONS TO USERS OF A PROPRIETARY WEB CONTENT MANAGER SYSTEM AND A PLURALITY OF THIRD-PARTY SERVICES	2022/07/26
2022/08322	METHOD FOR OBTAINING AND SENDING USER-DIFFERENTIATED INFORMATION IN COMMUNICATION NETWORKS	2022/07/26
2022/08448	METHOD CAPABLE OF RECYCLING NATURAL ENERGY TO BE APPLIED TO AGRICULTURAL MODERNIZATION	2022/07/28

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2022/08484	DYNAMIC LOAD SHEAR TEST DEVICE AND METHOD BASED ON HOPKINSON BAR SYSTEM	2022/07/29
2022/08485	METHOD FOR DIVERTING WATER FROM ANCHOR-CABLE GROUTING HOLE FOR CONSTRUCTION IN ROCK BRUST MINE	2022/07/29
2022/08717	METHOD AND APPARATUS FOR EFFICIENT DELIVERY AND USAGE OF AUDIO MESSAGES FOR HIGH QUALITY OF EXPERIENCE	2022/08/04
2022/09144	VEHICLE COLLISION AVOIDANCE SYSTEM	2022/08/16
2022/09145	WATER DESALINATION SYSTEM	2022/08/16
2022/09146	BRICK FOR POWER GENERATION	2022/08/16
2022/09147	METHOD AND APPARATUS FOR ENABLING COMMUNICATION OF DIFFERENTLY ABLED USERS	2022/08/16
2022/09154	STRESS MANAGEMENT SYSTEM	2022/08/16
2022/10060	A LARGE CAPACITY STORAGE AND TRANSPORTATION DEVICE FOR COILED TUBING	2022/09/09
2022/10074	A LOCK ASSEMBLY FOR A VEHICLE LOAD COMPARTMENT	2022/09/09
2022/10220	PRETREATMENT METHOD, PRETREATMENT SOLUTION, KIT FOR VIRUS NUCLEIC ACID DETECTION, AND USE THEREOF	2022/09/14
2022/10352	WIND POWER GENERATION INTEGRATED DEVICE OF BUILDING WIND TUNNEL	2022/09/19
2022/10356	METHOD FOR TREATMENT OF NEUROLOGICAL DISORDERS USING SYNAPTIC PATHWAY TRAINING	2022/09/19
2022/10498	GREEN CONTROL METHOD FOR SPODOPTERA LITURA	2022/09/22
2022/10499	MILLET SOIL MOISTURE DETECTING SEEDER	2022/09/22
2022/10500	A KIND OF THE POWDER-LIQUID COMBINED RAMJET AND ITS CONTROL METHOD	2022/09/22
2022/10501	AN ASSEMBLED SLEEP POSTURE-CORRECTION PILLOW	2022/09/22
2022/10502	PREPARATION METHOD FOR RED MUD-BASED CATALYST, PRODUCT AND APPLICATION THEREOF	2022/09/22
2022/10503	A SPECIAL GUIDE WIRE CLAMP DEVICE FOR CORONARY INTERVENTION	2022/09/22
2022/10504	WASTEWATER TREATMENT DEVICE FOR TREATING SEWAGE	2022/09/22

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2022/10505	A TRANSGENIC TOBACCO AND ITS APPLICATION IN THE PRODUCTION OF TOXICODENDRON VERNICIFLUUM LACCASE	2022/09/22
2022/10506	COMPOUND THERMAL INSULATION CABINET AND FORMING PROCESS THEREFOR	2022/09/22
2022/10507	A KIND OF CHINESE MEDICINE MASK FOR BRIGHTENING COMPLEXION AND LIGHTENING SPOTS	2022/09/22
2022/10508	A REMOTE SENSING MONITORING METHOD FOR PEANUT LEAF AREA INDEX	2022/09/22
2022/10510	SELF-ADAPTIVE HEAVY-DUTY GEAR TRANSMISSION WALKING DEVICE	2022/09/22
2022/10511	COMPOUND PLANT DISINFECTANT, PREPARATION METHOD AND APPLICATION	2022/09/22
2022/10512	A METHOD AND SYSTEM FOR REMOTE SENSING RECOGNITION OF PEANUT PLANTING AREA	2022/09/22
2022/10513	AN OPTICAL WAVEGUIDE CHIP WITH CONVERSION FROM MULTI-MODE TO SINGLE-MODE	2022/09/22
2022/10518	PERIPHERAL SELF-PROTECTION IMPACT TEST APPARATUS THAT IS EASILY DISASSEMBLED AND ASSEMBLED FOR GEAR CHARACTERISTIC RESEARCH	2022/09/22
2022/10519	METHOD FOR CHEMICAL IN-VITRO CONSERVATION OF POMEGRANATE GERMPLOASM	2022/09/22
2022/10548	A FERMENTED FEED FOR PROMOTING YAK GROWTH AND ITS PREPARATION METHOD	2022/09/23
2022/10549	A BREEDING EQUIPMENT AND METHOD FOR IMPROVING ESTRUS PROPAGATION OF YAK	2022/09/23
2022/10550	A FEED AND ITS PREPARATION METHOD FOR PREVENTING YAK CALF DIARRHEA	2022/09/23
2022/10552	DOUBLE TOOTHED ROLLER CRUSHER CAPABLE OF RAPIDLY ADJUSTING DISTANCE BETWEEN TOOTH ROLLERS	2022/09/23
2022/10553	SCREENING METHOD OF FLOTATION INHIBITOR FOR FINE REFRACTORY COAL SLIME	2022/09/23
2022/10554	SYSTEM FOR MONITORING SCOURING TO BRIDGE FOUNDATION	2022/09/23

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2022/10555	A KIND OF ASSISTED WALKING DEVICE FOR THE ELDERLY WITH HEALTH MONITORING FUNCTION	2022/09/23
2022/10556	AN IMAGE ACQUISITION COMPONENT OF A MEDICAL IMAGING SYSTEM	2022/09/23
2022/10557	PREPARATION SYSTEM OF PHASE-CHANGE MATERIAL TEMPERATURE-CONTROL COATING RETARDER AND PREPARATION METHOD THEREOF	2022/09/23
2022/10558	A DOUBLE-CYLINDER TYPE AUTOMATIC ADJUSTMENT AND CONTROL SYSTEM FOR UNDERGROUND AIR WINDOW OF COAL MINES AND ITS CONTROL METHOD	2022/09/23
2022/10559	STERILE PREPARATION TESTING METHOD OF CASPOFUNGIN ACETATE FOR INJECTION	2022/09/23
2022/10561	PREPARATION METHOD FOR FERMENTED MORINGA OLEIFERA LEAVES AND AN APPLICATION THEREOF IN AQUACULTURE	2022/09/23
2022/10562	POWER TRANSMISSION TOWER WITH ANTI-WIND AND ANTI-SEISMIC FUNCTIONS	2022/09/23
2022/10563	METHOD FOR PRESERVING STRAWBERRIES	2022/09/23
2022/10564	PRIMER, PROBE, KIT FOR DETECTING RHODOCOCCUS PYRIDINOVORANS AND DETECTION METHOD THEREOF (REAL-TIME PCR)	2022/09/23
2022/10565	A WEAR-RESISTANT NANOCARBON COMPOSITE MATERIAL	2022/09/23
2022/10566	A REELED TYPE CAR CHARGER	2022/09/23
2022/10567	A SKY RAIL SLIDING TYPE CAR CHARGER	2022/09/23
2022/10594	PESTICIDE FOR VEGETABLE PESTS AND APPLICATION THEREOF	2022/09/26
2022/10595	BIRD REPELLENT COMPOSITION, LIQUID PREPARATIONS AND PREPARATION METHOD THEREOF	2022/09/26
2022/10596	FEEDING EQUIPMENT FOR PIG BREEDING	2022/09/26
2022/10597	DOUBLE-WIND-WHEEL WIND TURBINE BASED ON COMPRESSED GAS TRANSMISSION	2022/09/26
2022/10598	A MEDICINE FOR TREATING SYMPTOMS OF SKIN PAIN AND	2022/09/26

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	ITCHING AND A PREPARATION METHOD THEREOF	
2022/10599	AUTOMATED SOLAR PANEL CLEANING SYSTEM WITH IOT FOR SMALL SCALE AND LARGE SCALE SOLAR POWER PLANT	2022/09/26
2022/10600	INSTANTANEOUS CABLE FORCE RECOGNITION METHOD BASED ON WAVELETS AND ISOLINES, ELECTRONIC DEVICE AND MEDIUM	2022/09/26
2022/10601	ONLINE TEMPERATURE SOFT MEASUREMENT METHOD AND SYSTEM OF HIGH-TEMPERATURE HEATING ELEMENT IN SOLID HEAT STORAGE FURNACES	2022/09/26
2022/10602	RAPID DETECTION METHOD AND SPECIAL PRIMERS FOR THE GENE MUTATION POINT OF SODIUM CHANNEL I904S OF MEGALUROTHRIPS USITATUS	2022/09/26
2022/10606	ANTI-FOG MEDICAL OPTICAL RIGID ENDOSCOPE LENS	2022/09/26
2022/10623	USE OF COMPOUND CYPROHEPTADINE HYDROCHLORIDE IN PREPARATION OF MEDICAMENT FOR PREVENTING OR TREATING AFRICAN SWINE FEVER	2022/09/26
2022/10656	PLANT-BASED NANO-BACTERIOSTATIC AGENT FOR OIL FIELD AND PREPARATION METHOD THEREOF	2022/09/27
2022/10657	ATMOSPHERIC PHASE CORRECTION METHOD AND SYSTEM	2022/09/27
2022/10658	SOIL STABILIZER FOR SALINE-ALKALI LAND AND PREPARATION METHOD THEREOF	2022/09/27
2022/10659	SALT-TOLERANT NITRIFICATION COMPLEX MICROBIAL INOCULANT AND USE THEREOF	2022/09/27
2022/10660	EMULSIFIED SAUSAGE CONTAINING LOTUS SEEDS, GARLIC BOLTS AND FISH MEAT, AND PROCESSING METHOD THEREOF	2022/09/27
2022/10661	SIALIC ACID-ADDED AND EASY-TO-DIGEST MILK POWDER FOR PREMATURE INFANTS AND PREPARATION METHOD THEREOF	2022/09/27
2022/10662	SELF-FEEDING ANALYSIS METHOD OF TALENT EVALUATION FROM PERSPECTIVE OF BEHAVIORAL	2022/09/27

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	PSYCHOLOGY	
2022/10663	METHOD FOR RECYCLING KITCHEN GARBAGE	2022/09/27
2022/10664	AN URUSHIOL-BASED SELF-HEALING ANTICORROSIVE COATING AND ITS PREPARATION METHOD	2022/09/27
2022/10665	DISASSEMBLY-FREE MACHINING TOOLING FOR SAFETY VALVE INLET WATERPLANE	2022/09/27
2022/10671	INSULATION RESISTANCE MEASUREMENT DEVICE AND METHOD FOR STAND-BY MOTORS	2022/09/27
2022/10672	ANTI-COLLISION DEVICE AND CONTROL METHOD FOR CRANE TRAVELING MECHANISMS OF SHIP UNLOADER	2022/09/27
2022/10673	DEVICE AND METHOD FOR REMOTE TRANSMISSION OF INFORMATION OF SWITCHING STATION BASED ON IOT	2022/09/27
2022/10674	ENVIRONMENT-FRIENDLY AERATION DEVICE FOR CHEMICAL SEWAGE TREATMENT	2022/09/27
2022/10675	A KIND OF PREPARATION METHOD OF BIONIC CARBON FIBER REINFORCED EPOXY RESIN COMPOSITE MATERIAL WITH EAGLE FEATHER STRUCTURE	2022/09/27
2022/10676	A SHOE SOLE DISINFECTION DEVICE	2022/09/27
2022/10677	HIGH-NITROGEN LOW-NICKEL HIGH-TEMPERATURE FLUX-CORED WIRE AND PREPARATION PROCESS	2022/09/27
2022/10678	NOVEL FE-NI-CR-N ALLOY AND PREPARATION METHOD THEREOF	2022/09/27
2022/10679	A REMOTE SENSING IMAGE MINING METHOD COUPLING KNOWLEDGE GRAPH AND DEEP NEURAL NETWORK	2022/09/27
2022/10705	FAULT FABRICATION DEVICE AND OPERATING METHOD FOR GEOMECHANICAL MODEL TEST	2022/09/28
2022/10706	ENVIRONMENT-FRIENDLY EDIBLE PRESERVATIVE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF, AND PRESERVATIVE FILM AND PREPARATION METHOD THEREOF	2022/09/28
2022/10707	METHOD FOR PREPARING HIGH-QUALITY MORTAR AGGREGATE FROM MANGANESE-SILICON SLAG	2022/09/28

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	AND APPLICATION THEREOF	
2022/10708	TRANSMISSION ELECTRON MICROSCOPE METHOD FOR MEASURING LOW-ANGLE GRAIN BOUNDARY ORIENTATION DIFFERENCE	2022/09/28
2022/10709	CLEANING DEVICE FOR URBAN ROADS	2022/09/28
2022/10710	DIVISION TECHNOLOGY OF FIRE PROTECTION UNITS FOR TRADITIONAL VILLAGES	2022/09/28
2022/10711	METHOD FOR PREPARING BUILDING STONES BY USING HOT MOLTEN SLAG OF MANGANESE-SILICON ALLOY	2022/09/28
2022/10712	A SUPPORT ASSEMBLY	2022/09/28
2022/10713	COMPLETE AUTOMATIC PLANT AND PROCESS FOR PRODUCING LATEX PRODUCT BY TALALAY PROCESS	2022/09/28
2022/10718	MULTIFUNCTIONAL THREE-DIMENSIONAL SIMILAR SIMULATION TEST PLATFORM AND TEST METHOD	2022/09/28
2022/10723	METHOD FOR APPLYING A COATING TO ITEMS MADE FROM VALVE METAL AND ALLOY THEREOF	2022/09/28
2022/10990	PLANTING APPARATUS	2022/10/06
2022/11148	USE OF TETRANDRINE IN COMBINATION WITH ALL-TRANS RETINOIC ACID IN PREPARATION OF MEDICAMENT FOR TREATING PNEUMOCONIOSIS	2022/10/12
2022/11149	ONLINE INTELLIGENT BEARING MONITORING DEVICE WITH WIRELESS POWER SUPPLY	2022/10/12
2022/11150	MULTI RESOURCE COMPLEMENTARY COLLECTING DEVICE FOR MINE DEVELOPMENT	2022/10/12
2022/11151	A FUNCTIONALIZED CARBON NITRIDE PHOTOCATALYST FOR SYNTHESIZING PHENOL BY CATALYTIC OXIDATION OF BENZENE	2022/10/12
2022/11153	METHOD FOR SIMULTANEOUS DETECTING MULTIPLE PROTEIN MARKERS OF NUTRITIONAL HEALTH CONDITION	2022/10/12
2022/11191	PERMEABLE CONCRETE AND PREPARATION METHOD THEREOF	2022/10/13
2022/11192	A PURGE JOINT FOR A LIQUID	2022/10/13

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	AMMONIA CYLINDER FILLED WITH NITROGEN	
2022/11193	ANCIENT LITERATURE REMOTE EDUCATION AND TEACHING DEVICE	2022/10/13
2022/11194	ANTI-CRACKING CONCRETE AND PREPARATION METHOD THEREOF	2022/10/13
2022/11195	A NEW COMPOSITE MATERIAL FOR SLOW RELEASE AND LONG-TERM RETENTION OF HEAVY METALS IN SMELTING SLAG	2022/10/13
2022/11196	PETROCHEMICAL PARK SAFETY EARLY WARNING SYSTEM	2022/10/13
2022/11197	A YEAST AND LACTIC ACID BACTERIA COMBINATION	2022/10/13
2022/11198	PREPARATION METHOD OF NOVEL VANADATE PHOTOCATALYTIC MATERIAL	2022/10/13
2022/11210	NOVEL DIGITAL ZERO INTERMEDIATE FREQUENCY ADAPTIVE NOTCH FILTERING METHOD BASED ON FPGA	2022/10/13
2022/11211	ULTRAHIGH-PRESSURE WATER JET TECHNOLOGY BASED SYSTEM FOR COMPREHENSIVELY PROCESSING WASTE TIRE	2022/10/13
2022/11212	PORTABLE BUILDING SURVEYING AND MAPPING FRAME	2022/10/13
2022/11213	PREPARATION METHOD OF ZRO ₂ AND TIO ₂ COMPOSITE FIBER MATERIAL	2022/10/13
2022/11214	A METHOD OF CONSTRUCTING THE LUNG CANCER RISK PREDICTION MODEL BASED ON THE PERIPHERAL BLOOD MARKERS.	2022/10/13
2022/11215	WETLAND ECOLOGICAL RESTORATION DEVICE	2022/10/13
2022/11216	PML ELECTROMAGNETIC FIELD ABSORPTION BOUNDARY CALCULATION METHOD AND SYSTEM BASED ON FDTD	2022/10/13
2022/11217	APPLICATION OF 3'-HYDROXY PUERARIN IN PREPARING NEUROPROTECTIVE MEDICINES	2022/10/13
2022/11218	QUANTITATIVE ANALYSIS METHOD OF ELECTRIC POWER MARKET INDEX SYSTEM	2022/10/13
2022/11219	SAMPLING DEVICE FOR ECOLOGICAL ENVIRONMENT MONITORING OF RESERVOIR AND METHOD USING THE SAME	2022/10/13

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2022/11222	HIGH-PRESSURE CONNECTING AND SEALING STRUCTURE FOR HYDROGEN GAS STORAGE WELL	2022/10/13
2022/11223	AN ENGLISH TEACHING POLE WITH AN LED LIGHT	2022/10/13
2022/11224	A ADJUSTING STRUCTURE AND AN ENGLISH LISTENING PRACTICE HEADSET	2022/10/13
2022/11225	CHITOSAN-STARCH COMPOSITE FILM, PREPARATION METHOD AND APPLICATION THEREOF	2022/10/13
2022/11226	AN ILLUMINATION STRUCTURE AND AN ENGLISH WORD SPELLING BOARD	2022/10/13
2022/11227	A DYNAMIC MONITORING AND EARLY WARNING METHOD OF AQUATIC PRODUCTS CORRUPTION IN COLD CHAIN TRANSPORTATION	2022/10/13
2022/11231	APPLICATIONS OF ADIPONECTIN MODIFIED ISLET CELLS IN IMPROVEMENT OR ENHANCEMENT OF ISLET TRANSPLANTATION	2022/10/13
2022/11232	PREPARATION METHOD OF DNA HYDROGEL LOADED WITH IL-33 AS WELL AS PRODUCT AND APPLICATION OF DNA HYDROGEL LOADED WITH IL-33	2022/10/13
2022/11233	DIVERSION ENHANCED WATERPROOF ROLL	2022/10/13
2022/11234	SYNTHESIS OF NITROGEN/PHOSPHORUS/SULFUR CO-DOPED 3D SHEET-LIKE CARBON FOR ZINC ION HYBRID CAPACITORS	2022/10/13
2022/11245	TRIBOELECTRIC NANOGENERATOR-BASED THREE-DIMENSIONAL VIBRATION SENSOR	2022/10/13
2022/11281	APPLICATION OF CHRYSOPHANOL IN PREPARATION OF DRUGS FOR TREATING PULMONARY ARTERIAL HYPERTENSION	2022/10/14
2022/11282	APPLICATION OF LIENSININE IN PREPARATION OF DRUGS FOR TREATING PULMONARY ARTERIAL HYPERTENSION	2022/10/14
2022/11283	METHOD FOR PREPARING CALCIUM ALUMINATE POWDER BY USING ALUMINUM ASH AND CARBIDE SLURRY	2022/10/14
2022/11284	GROUTING DEVICE IN TUNNEL BORING PROCESS	2022/10/14
2022/11285	PREPARATION METHOD OF WASD AND APPLICATION OF ITS ACTIVE	2022/10/14

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	INGREDIENTS IN PREPARATION OF IMMUNITY ENHANCING DRUGS	
2022/11286	IDENTITY AUTHENTICATION METHOD AND SYSTEM BASED ON BLOCKCHAIN ARCHITECTURE	2022/10/14
2022/11289	CONSTRUCTION METHOD FOR LUNG NODULE DETECTION MODEL	2022/10/14
2022/11290	WATERPROOF BOTTOM PLATE ASSEMBLY OF AIR CONDITIONER	2022/10/14
2022/11291	DOUBLE-SIDED POLISHER FOR SEMICONDUCTOR	2022/10/14
2022/11292	MATCHING DEVICE FOR REPLACING EQUIPMENT BRIDGE DURING SHIELD SPLIT STARTING	2022/10/14
2022/11293	A STUDENT ACHIEVEMENT PREDICTION METHOD BASED ON STACKING	2022/10/14
2022/11298	A RECORDING HEAD AND A RECORDING DEVICE	2022/10/14
2022/11299	A WEARING ASSEMBLY AND A SOUND AMPLIFIER	2022/10/14
2022/11300	A MAGNETIC SUCTION COMPONENT AND AN ENGLISH SPELLING BOARD	2022/10/14
2022/11301	A RECORDING AND BROADCASTING HOLDER STAND FOR ENGLISH TEACHING	2022/10/14
2022/11314	METHOD FOR PREPARING EXOSOMES DERIVED FROM HUMAN UMBILICAL CORD MESENCHYMAL STEM CELLS AND APPLICATION THEREOF	2022/10/14
2022/11330	METHOD FOR IMPROVING REGENERATION AND TRANSFORMATION EFFICIENCY OF IMMATURE WHEAT EMBRYO AND USE THEREOF	2022/10/17
2022/11331	DYNAMIC COMPACTION-REINFORCED OPTIMIZATION TECHNOLOGY FOR HIGH-FILL FILLING AND CONSTRUCTION METHOD THEREOF	2022/10/17
2022/11332	GRAIN SORTING DEVICE	2022/10/17
2022/11333	HEAD FIXATOR	2022/10/17
2022/11334	CONSTRUCTION DEVICE FOR CONTINUOUSLY POURING ECCENTRIC DOUBLE INCLINED BEAMS AND PROCESS THEREOF	2022/10/17
2022/11335	ASCORBIC ACID SOLUBLE POWDER AND ITS PREPARATION METHOD AND APPLICATION	2022/10/17
2022/11339	A WORD-DICTATION BOARD FOR	2022/10/17

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	ENGLISH TEACHING	
2022/11340	PREPARATION METHOD OF LIQUID MICROBIAL ORGANIC FERTILIZER	2022/10/17
2022/11341	A VR GLASSES DEVICE FOR ENGLISH TEACHING	2022/10/17
2022/11342	A DISPLAY BOARD AND AN ENGLISH WORD MEMORIZING MACHINE	2022/10/17
2022/11343	A METHOD FOR PREPARING GINSENOSE PREPARATION BY BIOLOGICAL ENGINEERING TECHNOLOGY	2022/10/17
2022/11349	YIELDING BOLT WITH ADJUSTABLE PRESSURE YIELDING PARAMETER	2022/10/17
2022/11352	TRANSPLANTER AND METHOD OF PLANTING SEEDLINGS	2022/10/17
2022/11364	AN OPTIMAL PARAMETER ESTIMATION METHOD FOR SKEWED DISTRIBUTION BASED ON VARIABLE GROUPING	2022/10/17
2022/11367	LIGHT-EMITTING DIODE	2022/10/17
2022/11433	MICRO-PRESSURE DETECTING MACHINE FOR LEAKAGE OF DRY POWDER DRUMS FOR HEMODIALYSIS	2022/10/19
2022/11434	MULTI-HEAD FILLING SYSTEM FOR HEMODIALYSIS DRY POWDER	2022/10/19
2022/11475	ECOLOGICAL BREEDING METHOD FOR LAYING DUCKS	2022/10/20
2022/11476	REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION SYSTEM	2022/10/20
2022/11477	SYSTEM BASED ON SINGLE-CHIP MICROCOMPUTER FOR AUTOMATICALLY ADJUSTING VEHICLE HEADLIGHTS	2022/10/20
2022/11478	PREPARATION METHOD FOR AGGREGATION-INDUCED EMISSION PHOTOSENSITIZER AND APPLICATION IN INDUCING IMMUNOGENIC CELL DEATH	2022/10/20
2022/11479	BRANCH-PULLING GROUND ANCHOR FOR FRUIT TREES	2022/10/20
2022/11480	HIGH-YIELD PRUNING METHOD FOR PAEONIA SUFFRUTICOSA ANDR.	2022/10/20
2022/11481	NOVEL ANTI-GOUT APPLICATION OF VONOPRAZAN FUMARATE	2022/10/20
2022/11482	METHOD FOR PREPARING COBALTOSIC OXIDE NANOROD ARRAYS BASED ON SPENT LITHIUM-ION BATTERY RECOVERY	2022/10/20
2022/11483	TWO-GEAR DUAL-MOTOR POWER	2022/10/20

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	COUPLING DRIVING DEVICE AND WORKING METHOD THEREOF	
2022/11484	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR IMPROVING BREEDING ABILITY OF RAMS, AND PREPARATION METHOD AND APPLICATION THEREOF	2022/10/20
2022/11485	PHOTOVOLTAIC PANEL CLEANING ROBOT	2022/10/20
2022/11486	MULTIFUNCTIONAL POROUS MATERIAL AIR DUCT TEST PLATFORM	2022/10/20
2022/11487	PREPARATION FOR IMPROVING ANTIBACTERIAL PEPTIDE SECRETION IN PIGLET INTESTINES AND APPLICATION THEREOF	2022/10/20
2022/11488	METHOD FOR PREPARING RED PHOSPHOR FOR WHITE LED BY HYDROTHERMAL METHOD	2022/10/20
2022/11489	BAD CONTENT CHECK DEVICE FOR LIVE VIDEO	2022/10/20
2022/11493	LOADING STRUCTURE SYSTEM FOR STATIC LOAD BENDING TEST ON BOX GIRDER PREPARED FOR DOUBLE TRACK RAILWAY	2022/10/20
2022/11555	LIGHT-EMITTING DIODE PACKAGE	2022/10/21
2022/11573	FOOD BASED ON EDIBLE AND MEDICINAL MUSHROOM DIETARY FIBER	2022/10/24
2022/11591	FACE MASK AND SYSTEM	2022/10/24
2022/11655	DEVICE FOR PREPARING IMMOBILIZED PARTICLES IN AQUACULTURE WATER	2022/10/26
2022/11656	MUTE AND NOISE-REDUCING MANHOLE COVER CONVENIENT TO REPLACE	2022/10/26
2022/11657	A SOFT HANDOVER METHOD IN SATELLITE NETWORKS BASED ON THE UPLINK NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) IN SATELLITE-GROUND LINKS	2022/10/26
2022/11658	METHOD AND DEVICE FOR MONITORING EARTHQUAKE RESCUE SITE ENVIRONMENT	2022/10/26
2022/11659	A PBT FLAME-RETARDANT WEAR-RESISTANT COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION	2022/10/26
2022/11660	METHOD FOR SIMULTANEOUS SEPARATION AND RECOVERY OF UREA AND PHOSPHORUS IN FRESH URINE	2022/10/26

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2022/11661	A CONDUCTIVE LOW WARPAGE WEAR-RESISTANT PBT COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION	2022/10/26
2022/11662	A HIGH PERFORMANCE SCRATCH RESISTANT PC/ABS COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION	2022/10/26
2022/11702	NON-ROTATING TYPE DIRECT CURRENT GENERATOR	2022/10/26
2022/11706	MEDICINE/AGENT FOR THE TREATMENT OF CORONAVIRUS, RETROVIRAL INFECTIONS AND HEPATITIS C	2022/10/26
2022/11713	AN EARLY WARNING MODELING METHOD BASED ON AUTOMATIC SCHEDULING OF CPU AND GPU COMPUTING RESOURCES IN SMART POWER PLANTS	2022/10/27
2022/11714	NOZZLE FOR LASER CUTTING AND LASER PROCESSING DEVICE	2022/10/27
2022/11715	METHOD FOR COLLECTING DROPLETS FOR DRUG APPLICATION BY UNMANNED AERIAL VEHICLE	2022/10/27
2022/11716	COMPOSITION AND METHOD FOR IMPROVING FERTILIZATION SUCCESS RATE OF ARTIFICIAL HYBRIDIZATION OF POLYGONATUM, AND USE THEREOF	2022/10/27
2022/11717	FERMENTED AND FREEZE-DRIED CYNANCHUM BUNGEI DECNE SLICES WITH ANTIOXIDANT ACTIVITY AND SURFACE FERMENTATION METHOD THEREOF	2022/10/27
2022/11718	A PET X-RAY FILM RECOGNITION SYSTEM AND ITS METHOD BASED ON ARTIFICIAL INTELLIGENCE	2022/10/27
2022/11719	CONCRETE COLUMN GEOPOLYMER CONCRETE REINFORCEMENT DEVICE	2022/10/27
2022/11720	NUTRITIONAL FERTILIZER FOR MILLET CULTIVATION	2022/10/27
2022/11721	DEVICE FOR CLEANING MANURE IN CATTLE FARM	2022/10/27
2022/11722	APPLICATION OF ALTAY SHEEP TAIL OIL IN PREPARING HALAL LIFE-NOURISHING HOTPOT CONDIMENT	2022/10/27
2022/11723	HARMLESS FERMENTATION	2022/10/27

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	APPARATUS FOR PREPARING FERTILIZER FROM LIVESTOCK AND POULTRY WASTE	
2022/11724	RECYCLING TREATMENT APPARATUS FOR LIVESTOCK AND POULTRY WASTE AND USAGE METHOD THEREFOR	2022/10/27
2022/11725	AUTOMATIC MONITORING AND EARLY WARNING SYSTEM FOR MINE GEOLOGICAL ENVIRONMENT DISASTERS	2022/10/27
2022/11726	STORAGE METHOD FOR CONTROLLING BROWNING OF BUCKWHEAT RICE	2022/10/27
2022/11761	TIANSHAN JIMEI REPAIRING AND NOURISHING FACIAL CREAM	2022/10/28
2022/11762	PLANT ACID FERTILIZER FOR CONTROLLING SALINE-ALKALI LAND	2022/10/28
2022/11763	POLYSACCHARIDE EXTRACT OF PLEUROTUS SAJOR-CAJU, PREPARATION METHOD AND APPLICATION THEREOF	2022/10/28
2022/11764	QUASI-STATIC ANTI-PUNCTURE PERFORMANCE TESTING DEVICE AND METHOD WITH ADJUSTABLE PENETRATION ANGLE	2022/10/28
2022/11765	A RICE SEEDLING RAISING SUBSTRATE WITH AURICULARIA AURICULA FUNGUS RESIDUE AS THE MAIN RAW MATERIAL AND ITS PREPARATION METHOD	2022/10/28
2022/11766	CHINESE HERBAL MEDICINE FORTIFIED FEED FOR IMPROVING IMMUNITY AND MILK YIELD OF CATTLE AND SHEEP	2022/10/28
2022/11767	ALTAY BIG-TAILED SHEEP BONE CALCIUM TABLET CANDY AND PREPARATION METHOD THEREOF	2022/10/28
2022/11779	METHOD FOR ADJUSTING VARIABLE-SECTION ADJUSTABLE LINING TROLLEY	2022/10/28
2022/11807	THE POWDER AND TECHNICAL METHOD USED IN LASER 3D PRINTING OF LIGHT-WEIGHT HIGH-STRENGTH MAGNESIUM ALLOY	2022/10/31
2022/11808	A METHOD FOR CIRCULAR EXTRACTION OF METAL OXIDES	2022/10/31
2022/11905	WET CARBONIZATION SYSTEM AND METHOD, AND METHOD FOR SAMPLING, TESTING AND EVALUATION THEREOF	2022/11/02
2022/11906	QUIET REMINDER FOR SCHOOL	2022/11/02

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	STUDY ROOMS	
2022/11907	THREE-LAYER FIRE-FIGHTING CLOTHING WITH SELF-CLEANING FUNCTION AND PRODUCTION METHOD THEREOF	2022/11/02
2022/11908	APPLICATION OF GAMBOGIC ACID IN PREPARING DRUGS FOR TREATING OVARIAN CANCER	2022/11/02
2022/11912	A RIBBED ANTI-FATIGUE DETACHABLE STEEL BRIDGE DECK	2022/11/02
2022/11913	DESERTIFICATION CONTROL LAND FACILITY WITH IMPROVED STRUCTURE	2022/11/02
2022/11919	ARCH BRIDGE HANGER FOR SECONDARY ANCHORAGE AND SHOCK ABSORPTION	2022/11/02
2022/11920	A CONCRETE-TIMBER BEAM-COLUMN ENERGY DISSIPATION SELF-RECOVERY JOINT STRUCTURE	2022/11/02
2022/11928	MEMORY ALLOY CRASH BARRIER	2022/11/02
2022/11935	A STEEL-WOOD ENERGY-DISSIPATING JOINT STRUCTURE CONTAINING MEMORY ALLOY	2022/11/02
2022/11936	A MEMORY ALLOY-RUBBER ENERGY DISSIPATION SELF-RECOVERY BRIDGE ASEISMATIC BEARING STRUCTURE	2022/11/02
2022/11937	SELF-RESTORING PLASTIC HINGE BEARING STRUCTURE FOR BRIDGES	2022/11/02
2022/11940	METHODS FOR IDENTIFYING A MEDICAL CONDITION IN A HUMAN SUBJECT	2022/11/02
2022/11974	THREE-DIMENSIONAL PLANTING METHOD OF SWEET SORGHUM IN COASTAL BEACH	2022/11/03
2022/11976	GREEN PLANTING METHOD OF SWEET SORGHUM IN COASTAL BEACH	2022/11/03
2022/11977	EPIDEMIC PREVENTION AND DISINFECTION DEVICE BASED ON CATERPILLAR BIONICS	2022/11/03
2022/11978	COMMUNICATION METHOD, DEVICE AND STORAGE MEDIUM OF MARITIME SEARCH AND RESCUE WIRELESS SENSOR NETWORK	2022/11/03
2022/11979	SAFETY MANAGEMENT SYSTEM OF ARCHITECTURAL ENGINEERING	2022/11/03
2022/11981	MONITORING AND EARLY-WARNING SYSTEM FOR DEEP-SEA CAGE AQUACULTURE	2022/11/03

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	ENVIRONMENT AND FISH DISEASES	
2022/11984	COMPREHENSIVE AGRONOMIC REGULATION AND CONTROL METHOD FOR PRODUCING RICE WITH LOW HEAVY METAL POLLUTION	2022/11/03
2022/11989	A METHOD FOR IDENTIFYING DNA ENHANCER ELEMENTS BASED ON SEQUENCE FREQUENCY INFORMATION	2022/11/03
2022/11990	NOVEL COMPOUND FLOTATION AGENT FOR COPPER-NICKEL SULFIDE ORE FLOTATION	2022/11/03
2022/11991	AN EARLY DESIGN AND SIMULATION METHOD OF ELECTRO-HYDRAULIC COMPOSITE CONTROL SYSTEM FOR UNDERWATER TREE BASED ON DIGITAL PROTOTYPE TECHNOLOGY	2022/11/03
2022/11992	A COUNTING METHOD OF BRUCELLA LIVING BACTERIA BASED ON PMA-QPCR TECHNOLOGY	2022/11/03
2022/11993	PERMANENT MAGNET POSITIONING STRUCTURE OF SURFACE-MOUNTED PERMANENT MAGNET SYNCHRONOUS MOTOR	2022/11/03
2022/11994	A BATTERY HEAT-TRANSFER MODULE BASED ON PULSATING HEAT PIPE	2022/11/03
2022/11998	VOCS (VOLATILE ORGANIC COMPOUNDS) STAGED AUTOMATIC COLLECTION DEVICE AND SAMPLING METHOD OF AUTOMOBILE TAIL GAS	2022/11/03
2022/12042	BENZAZEPINE COMPOUND AND SYNTHESIS METHOD THEREOF	2022/11/04
2022/12043	A BATTERY SHIELDING WEAR-RESISTANT LONG CARBON FIBER REINFORCED PBT COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION	2022/11/04
2022/12044	METHOD AND SYSTEM FOR PREDICTING SURFACE COMBUSTIBLE MOISTURE CONTENT OF PINUS YUNNANENSIS BASED ON MULTIPLE REGRESSION AND PARAMETER CORRECTION	2022/11/04
2022/12045	SALT-ALKALI RESISTANT COMPOSITE MICROBIAL INOCULUM, PREPARATION	2022/11/04

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	METHOD AND APPLICATION THEREOF	
2022/12046	PALMPRINT RECOGNITION METHOD BASED ON FUSION DEPTH NETWORK	2022/11/04
2022/12047	EFFICIENT TREATMENT DEVICE FOR BUILDING CONSTRUCTION DUST	2022/11/04
2022/12048	CORE-SHEATH MXENE FIBER AEROGEL AND PREPARATION METHOD THEREOF	2022/11/04
2022/12049	NON-RESISTANT FUNCTIONAL NUTRITIONAL LICKING BRICK FOR CATTLE AND SHEEP AND PREPARATION METHOD THEREOF	2022/11/04
2022/12050	CULTIVATION METHOD FOR RESISTING TOMATO FUSARIUM WILT AND IMPROVING TOMATO YIELD	2022/11/04
2022/12052	STRIKE-OFF DEVICE FOR CONTROLLING UNEVEN SETTLEMENT OF COLLAPSIBLE LOESS FOUNDATION	2022/11/04
2022/12053	METHOD FOR ADJUSTING AND CONTROLLING PROPORTIONS OF PHASES IN TC4 TITANIUM ALLOY THROUGH THERMAL TREATMENT	2022/11/04
2022/12054	A HIGH PERFORMANCE HEAT RESISTANT PHA COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION	2022/11/04
2022/12055	A BIODEGRADABLE HEAT RESISTANT PLA/PBS COMPOSITE MATERIAL AND ITS PREPARATION METHOD	2022/11/04
2022/12056	A FIRE-MEASURING DEVICE, METHOD, AND APPLICATION OF ELECTRIC VEHICLES IN THE GARAGE	2022/11/04
2022/12057	PUSHING AND CONVEYING DEVICE FOR SPHERICAL SPORTS EQUIPMENT	2022/11/04
2022/12059	AUTOMATIC SAND SCRAPE DEVICE	2022/11/04
2022/12060	INDEL MOLECULAR MARKER OF RICE AROMA GENE BADH2, PRIMER, KIT AND DETECTION METHOD THEREOF	2022/11/04
2022/12061	BIMOLECULAR MARKER FOR RICE LEAF SHEATH COLOR IDENTIFICATION, PRIMER COMBINATION, KIT AND IDENTIFICATION METHOD THEREOF	2022/11/04

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2022/12062	ORGANIC-INORGANIC COMPLEX FERTILIZER OF DENDROCALAMOPSIS OLDHAMI	2022/11/04
2022/12064	A REUSABLE TELESCOPIC REAMING-WHILE-DRILLING DEVICE	2022/11/04
2022/12171	PHASE-CHANGE HEAT-STORAGE HEAT EXCHANGER	2022/11/08
2022/12196	BLOOD SAMPLING DEVICE FOR RAT ABDOMINAL AORTA	2022/11/09
2022/12360	RIM BASED ON DH STRUCTURE AND DW STRUCTURE COMBINATION AND MANUFACTURING METHOD FOR RIM	2022/11/11
2022/12475	MULTIFORM ARTIFICIAL INTELLIGENCE FLEXIBLE EXOSKELETON CAPABLE OF EMPOWERING DURING PREGNANCY	2022/11/16
2022/12476	PRICE PREDICTION METHOD OF DOWN MATERIALS BASED ON LSTM DEEP LEARNING MODEL	2022/11/16
2022/12478	ENERGY-SAVING UNIT BASED ON FLYWHEEL AND ACCUMULATOR AND ENERGY-SAVING ELECTRO-HYDRAULIC SYSTEM	2022/11/16
2022/12479	METHOD FOR PREPARING ACTIVE TOXIN FROM FERMENTATION BROTH OF BACILLUS THURINGIENSIS	2022/11/16
2022/12480	MOBILE INTELLIGENT HANDLING AND PALLETIZING ROBOT DEVICE AND APPLICATION METHOD THEREOF	2022/11/16
2022/12481	ABNORMAL DETECTION METHOD OF SWIMMING POOL DROWNING BEHAVIOR BASED ON IMPROVED GAN	2022/11/16
2022/12484	METHOD FOR EXTRACTING AND COMPLETING MULTI-DAY TRAVEL CHAIN	2022/11/16
2022/12492	INFORMATION MANAGEMENT SYSTEM FOR COLLEGE STUDENTS; INNOVATION AND ENTREPRENEURSHIP	2022/11/16
2022/12493	EVALUATION SYSTEM OF MENTAL HEALTH FOR COLLEGE STUDENTS	2022/11/16
2022/12536	DEVICE AND METHOD FOR ATOMIC EMISSION SPECTRUM AND MASS SPECTRUM ANALYSIS OF SHARED INDUCTIVELY COUPLED PLASMA LIGHT SOURCE	2022/11/17
2022/12537	LAYERED RICE BREEDING RACK	2022/11/17

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2022/12538	A DISPOSABLE MULTIFUNCTIONAL RECTAL HEMOSTATIC EXHAUST TUBE	2022/11/17
2022/12539	A COSMETOLOGY METHOD FOR FACIAL ANTI-AGING AND CONTOURING	2022/11/17
2022/12548	A METHOD FOR ANALYZING TECHNOLOGY ADOPTION IN SMALL-MEDIUM ENTERPRISES BASED ON A TECHNOLOGY ACCEPTANCE MODEL	2022/11/17
2022/12554	DYNAMIC FIN ALIGNMENT SYSTEM	2022/11/17
2022/12677	DIETARY FIBER GRANULE FOR LOWERING BLOOD SUGAR AND PREPARATION METHOD THEREOF	2022/11/22
2022/12678	PREPARATION AND APPLICATION OF HIGH-PURITY INSOLUBLE FIBER FROM SOYBEAN DREGS (OKARA)	2022/11/22
2022/12682	PREPARATION METHOD AND APPLICATIONS OF TEA POLYPHENOL MICRO-NANO COMPLEX BASED ON PROTEIN CARRIER	2022/11/22
2022/12732	CADMIUM SULFIDE QUANTUM DOTS AND PREPARATION METHOD THEREOF	2022/11/23
2022/12733	FULL HYDRAULIC INTELLIGENT VERTICAL SHAFT UMBRELLA DRILL	2022/11/23
2022/12734	SEED DRESSING AGENT FOR PROMOTING EARLY AND FAST GROWTH OF PEANUTS AND PREPARATION METHOD THEREOF	2022/11/23
2022/12735	GRINDING WHEEL FOR GRINDING RECLAIMED WAFER	2022/11/23
2022/12736	VERTICAL SHAFT FULL HYDRAULIC ROCK LOADER	2022/11/23
2022/12737	TISSUE CULTURE AND RAPID PROPAGATION METHOD FOR THAMNOCHARIS ESQUIROLII	2022/11/23
2022/12739	TOOLBOX FOR SOIL ENVIRONMENTAL DAMAGE ASSESSMENT	2022/11/23
2022/12740	BINARY METAL CATALYST BASED ON GASIFICATION ASH AND SLAG, PREPARATION METHOD AND APPLICATION THEREOF	2022/11/23
2022/12742	ARTIFICIAL INTELLIGENCE-BASED HEALTHCARE SYSTEM FOR CONTINUOUS HEALTH MONITORING AND PREDICTING DISEASES IN ITS EARLY PHASE	2022/11/23
2022/12745	GROUND SURFACE DEFORMATION	2022/11/23

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	MONITORING METHOD AND SYSTEM BASED ON MULTI-SOURCE MONITORING DATA FUSION	
2022/12753	HAIRDRYER HOLDER	2022/11/23
2022/12781	MODEL AND METHOD FOR IDENTIFYING LARGE-SCALE BURSTY NETWORK TRAFFIC, AND TRAINING METHOD FOR MODEL	2022/11/24
2022/12782	PROTECTIVE COVER FOR ELEVATOR PULLEYS	2022/11/24
2022/12784	A KIND OF MULBERRY WINE AND ITS PRODUCTION METHOD	2022/11/24
2022/12785	A MIXING AND STIRRING DEVICE FOR WATERPROOF COATINGS FOR BUILDING CONSTRUCTION	2022/11/24
2022/12786	A QUINOA WINE AND ITS PREPARATION METHOD	2022/11/24
2022/12787	A LABOR-SAVING CABLE TIGHTENER	2022/11/24
2022/12788	A CELLAR FOR ENSILAGE	2022/11/24
2022/12789	A CLOUD DATABASE BASED IP MANAGEMENT SYSTEM	2022/11/24
2022/12790	CIRCUIT FOR TESTE TEMPERATURES	2022/11/24
2022/12791	A GRAVIMETER ZERO-DRIFT CORRECTION METHOD, APPARATUS AND ELECTRONIC DEVICE	2022/11/24
2022/12820	SCRAPER TYPE TOBACCO TOPPING DEVICE	2022/11/25
2022/12884	A TRACTOR MUFFLER	2022/11/28
2022/12885	MONGOLIAN MEDICINE MERCURY PROCESSING DEVICE	2022/11/28
2022/12889	PSYCHOLOGICAL QUALITY EVALUATION DEVICE FOR INNOVATION AND ENTREPRENEURSHIP EDUCATION CAPABLE OF QUICKLY FITTING WRIST DETECTION	2022/11/28
2022/12890	IMPROVED AGROBACTERIUM TUMEFACIENS- MEDIATED GENETIC TRANSFORMATION METHOD OF SUGARCANE CALLI	2022/11/28
2022/12893	MEDICAL LIQUID DRESSING AND PREPARATION METHOD AND APPLICATION THEREOF	2022/11/28
2022/12894	A METHOD FOR PERFORMING MATHEMATICAL MODELING AND VALIDATION OF POLYMER-POLYMER-SOLVENT COATING	2022/11/28
2022/12896	PERCUTANEOUS LUNG PUNCTURE	2022/11/28

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	FORCEPS CLIP BIOPSY DEVICE	
2022/12897	METHOD AND SYSTEM FOR REALIZING SAFE OPERATION SPACE OF BIG DATA FOR DATA SHARING SERVICE	2022/11/28
2022/12898	A WEARABLE DEVICE TO MONITOR HUMAN HEALTH CONDITION AND RECOMMEND REMEDIES FOR IMPROVING UNHEALTHY CONDITION	2022/11/28
2022/12899	SYSTEM FOR CONGESTION CONTROL USING CONGESTION LOCATION INDICATOR AND SUPPORTING DATA COLLECTOR NODES IN WSN'S USING ML	2022/11/28
2022/12943	TWO-DIMENSIONAL SIMULATION METHOD OF BIO-NANO FLOODING PROCESS IN MICROCHANNEL OF LOW PERMEABILITY RESERVOIR	2022/11/29
2022/12944	COMBINED GRAPE TRELLIS APPLICABLE TO MULTIPLE ENVIRONMENTS	2022/11/29
2022/12954	A METHOD FOR FAULT TOLERANCE IN FOG COMPUTING NETWORK USING CLASSIFICATION AND REPLICATION	2022/11/29
2022/12956	PREPARATION METHOD OF GRAPHITIC CARBON NITRIDE THIN FILM ELECTRODE	2022/11/29
2022/12993	FENCE PILE PRE-EMBEDDER	2022/11/30
2022/12996	PUMPED STORAGE UNIT	2022/11/30
2022/12997	METHOD FOR EXTRACTING AND PURIFYING MANGIFERIN FROM MANGO KERNEL	2022/11/30
2022/12998	SALT-BATH KEROSENE HEATING AND CRACKING SIMULATION TEST METHOD	2022/11/30
2022/13004	GRAPHENE-BASED COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION	2022/11/30
2022/13005	AN INTEGRATED HIGH-PRESSURE OIL PUMP	2022/11/30
2022/13006	AN INTERNET OF THINGS-BASED DRAINAGE PIPES CLEANING ROBOT SYSTEM	2022/11/30
2022/13007	A METHOD FOR PRODUCING BIOETHANOL USING SUGARCANE TRASH AS CHEAP CARBON SOURCE WITH MOLASSES	2022/11/30
2022/13008	A TUBE BENDING DEVICE FOR PROCESSING TUBULAR METAL MATERIALS	2022/11/30

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2022/13009	AN AUXILIARY MARKING DEVICE FOR WATERWAYS	2022/11/30
2022/13016	SYNCHRONOUS WIND WHEEL WITH MULTIPLE ROWS OF TURBINE FAN	2022/11/30
2022/13032	IN-MINE-SHAFT SEISMIC MONITORING DEVICE	2022/12/01
2022/13033	ENVIRONMENT-FRIENDLY PREPARATION METHOD OF CHLOROACETALDEHYDE	2022/12/01
2022/13034	WORKING ASSEMBLY FOR OFFSHORE OIL POLLUTION TREATMENT DEVICE	2022/12/01
2022/13035	A DOUBLE-TRACTION TRANSFER VEHICLE	2022/12/01
2022/13036	METHOD FOR INTEGRATED FARMING OF RICE, RICE FIELD EEL, RED SWAMP CRAYFISH AND CHINESE SOFT-SHELLED TURTLE	2022/12/01
2022/13037	IMPROVEMENT OF PRODUCTION EFFICIENCY OF LARGE PASTA MACHINE BY KALMAN FILTER OPTIMIZATION ALGORITHM	2022/12/01
2022/13042	METHOD FOR SCREENING AND IDENTIFYING SORGHUM SALT-TOLERANT MATERIALS	2022/12/01
2022/13056	METHOD OF PRODUCING ULTRA-HIGH-PURITY PIG IRON BY IRON BATH SMELTING REDUCTION PROCESS	2022/12/01
2022/13057	METHOD FOR LAYING REFRACTORIES OF SMELTING REDUCTION VESSEL	2022/12/01
2022/13058	METHOD AND DEVICE FOR CONTROLLING FOAMED SLAG FURNACE CONDITIONS IN IRON BATH SMELTING REDUCTION	2022/12/01
2022/13071	METHOD FOR PREPARING COMPOSITE CEMENTITIOUS MATERIAL BY USING IRON TAILING POWDER, FINE SLAG POWDER AND DESULFURIZATION ASH	2022/12/02
2022/13072	NOVEL CLINKER-FREE HIGH-PERFORMANCE LOW-COST COMPOSITE CEMENTITIOUS MATERIAL	2022/12/02
2022/13073	METHOD FOR PREPARING EFFICIENT ANTI-BLOCKING SELF-PURIFICATION STEEL SLAG MICROBIAL PERVIOUS CONCRETE	2022/12/02
2022/13074	METHOD FOR CATCHING NICOTINE FROM TOBACCO REDRIED FLUE GAS BY USING MOLECULARLY	2022/12/02

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	IMPRINTED POLYMER	
2022/13075	VISIBLE LIGHT-RESPONSIVE PEANUT-SHAPED BISMUTH VANADATE AND PREPARATION METHOD THEREOF	2022/12/02
2022/13076	A SHRIMP CHILI SAUCE AND A PREPARATION METHOD THEREOF	2022/12/02
2022/13077	MULTIFUNCTIONAL SPORTS EQUIPMENT	2022/12/02
2022/13106	FLAVOR ADDITIVE FOR CIGARETTES AND PREPARATION METHOD THEREFOR	2022/12/02
2022/13113	LAYERED EXTRACTABLE HIGH-PRECISION FREQUENCY ADJUSTMENT SIEVE SHAKER	2022/12/05
2022/13114	MINE UNDERGROUND FILLING MORTAR	2022/12/05
2022/13115	MACROFUNGI PROTECTANT AND APPLICATION THEREOF	2022/12/05
2022/13116	A MODIFIED STYRENE BUTADIENE RUBBER, ITS PREPARATION METHOD AND APPLICATION, A COVERING RUBBER, ITS PREPARATION METHOD AND APPLICATION	2022/12/05
2022/13117	CONVEX-SHAPED CARBON BRUSH OF AUTOMOBILE RIPPLE MOTOR AND PREPARATION METHOD THEREOF	2022/12/05
2022/13122	CONTINUOUS ULTRASONIC AUTOMATIC DEFOAMING DEVICE AND METHOD	2022/12/05
2022/13123	METHOD FOR OBTAINING HIGH OLEIC ACID OILSEED RAPE BASED ON DOUBLE-LOCUS GENOME EDITING	2022/12/05
2022/13124	METHOD FOR PLASMA DEGRADATION OF DEOXYNIVALENOL IN AQUEOUS SOLUTION	2022/12/05
2022/13125	FRACTURE IDENTIFICATION METHOD USING RESERVOIR STRESS DATA	2022/12/05
2022/13127	METHOD AND DEVICE FOR HIERARCHICAL CONTROL METHOD OF URBAN ROAD SECTION BASED ON TRAFFIC FLOW RESILIENCE	2022/12/05
2022/13128	A TESTING MACHINE FOR DETERMINING THE COEFFICIENT OF FRICTION	2022/12/05
2022/13133	A WATER SURFACE CLEANING ROBOT	2022/12/05

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2022/13134	MECHANICAL CLAW	2022/12/05
2022/13135	AUTOMOBILE AUTOMATIC ANTI-COLLISION SYSTEM	2022/12/05
2022/13136	INTELLIGENT EXOSKELETON ARM FOR INFORMATION RECOGNITION	2022/12/05
2022/13137	A THIN-WALLED MULTI-CAVITY MOULD RAPID PROTOTYPING EQUIPMENT	2022/12/05
2022/13138	AN ENVIRONMENTALLY FRIENDLY ANIMAL MANURE TREATMENT DEVICE	2022/12/05
2022/13141	AN AUTOMATED CEILING FAN BLADE CLEANING MACHINE	2022/12/05
2022/13142	A BIO-FOOD WASTE PROCESSING DEVICE	2022/12/05
2022/13143	LASER INDUCED FLUORESCENCE SYSTEM FOR RAPID IN SITU DETECTION OF PETROLEUM HYDROCARBON CONTAMINANTS IN SOIL	2022/12/05
2022/13144	SELECTION METHOD OF SEED TREES WITH EXCELLENT FRUITING CHARACTERS IN NATURAL FOREST PINUS KORAIENSIS SIBE.ET ZUCC	2022/12/05
2022/13202	PHASE-CHANGE HEAT-STORAGE HEAT EXCHANGER FEATURING CONVENIENT DISASSEMBLY AND COMBINING PHOTOVOLTAIC HEATING AND HOT WATER HEATING	2022/12/06
2022/13235	HIGH-EFFICIENCY AND ENERGY-SAVING SMELTING METHOD FOR FAST SLAG MELTING OF LF	2022/12/07
2022/13289	A PENETRATION CRYSTALLIZATION INTERNAL DOPING TYPE TRIPLE COMPOUND IMPERMEABLE AGENT PREPARATION METHOD AND APPLICATION	2022/12/08
2022/13291	METHOD FOR INSTALLING A MOVABLE DECK	2022/12/08
2022/13295	ATTENTION PRE-TRAINING BASED PICTURE QUESTION ANSWERING METHOD	2022/12/08
2022/13296	PROGRESSIVE NEURAL NETWORK BASED MULTI-MODAL EMOTION CLASSIFICATION METHOD	2022/12/08
2022/13297	MPPT-BASED DISTRIBUTED CONTROL METHOD AND DEVICE FOR GRID-CONNECTED CASCADED PHOTOVOLTAIC INVERTERS	2022/12/08

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2022/13334	CONTROLLED AGILE LASER CHAOTIC SIGNAL GENERATOR AND POLYMORPHIC CHAOTIC AGILE LIDAR	2022/12/09
2022/13340	METHOD AND DEVICE FOR MEASURING CONDITION OF TERRAIN AND LANDFORMS	2022/12/09
2022/13373	PNEUMATIC HANDLE AND DENTAL ELEVATOR	2022/12/09
2022/13403	GREEN, COST-SAVING AND EFFICIENT PREVENTION AND CONTROL METHOD FOR TETRANYCHUS CINNABARINUS OF MANIHOT ESCULENTA CRANTZ	2022/12/12
2022/13574	COATED CONTROLLED-RELEASE PESTICIDE FERTILIZER AND PREPARATION METHOD AND APPLICATION THEREOF	2022/12/15
2022/13576	EMULSION STABILIZED BY PURE NATURAL PARTICLE EMULSIFIER AND PREPARATION METHOD THEREFOR	2022/12/15
2022/13582	A PREPARATION OF VISCOSE YARN	2022/12/15
2022/13583	A RIGID-FRAMEWORK SUPPORT CONNECTING FRAME	2022/12/15
2022/13591	LOW-PROTEIN RATION AS FEED FOR PIGS AND PREPARATION METHOD THEREOF	2022/12/15
2022/13592	REINFORCEMENT METHOD OF SHALLOW OVERBURDEN SHIELD TUNNEL BASED ON WEAK STRATUM	2022/12/15
2022/13597	PREPARATION METHOD FOR AND APPLICATION OF PYRAZOLE ACYLHYDRAZONE CONTAINING TRIFLUOROMETHYL THIADIAZOLE UNIT	2022/12/15
2022/13786	CONTAINER FOR RECEIVING DELIVERIES	2022/12/20
2022/13804	HETEROPOLYACID/CO ₂ -BASED CATALYST FOR LOW-TEMPERATURE DENITRATION AND REMOVAL OF H ₂ O AND PREPARATION METHOD AND APPLICATION THEREOF	2022/12/21
2022/13804	HETEROPOLYACID/CO ₂ -BASED CATALYST FOR LOW-TEMPERATURE DENITRATION AND REMOVAL OF H ₂ O AND PREPARATION METHOD AND APPLICATION THEREOF	2022/12/21
2022/13832	A CONSTRUCTION METHOD FOR	2022/12/21

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	COMPLEX FOUNDATION PIT SUPPORT	
2022/13833	A PROTECTIVE DEVICE AND ASSEMBLING METHOD	2022/12/21
2022/13834	A HEIGHT-ADJUSTABLE CONSTRUCTION SUPPORTING FRAME	2022/12/21
2022/13835	A HANGING BASKET FOR BUILDING CONSTRUCTION	2022/12/21
2022/13836	A PIPE NETWORK INSPECTION WELL MOLD	2022/12/21
2022/13837	A FABRICATED MEMBER FOR BUILDINGS	2022/12/21
2022/13838	A TRANSPORTATION DEVICE USED IN A HOSPITAL BUILDING CONSTRUCTION SITE	2022/12/21
2022/13840	A SUPPORT DEVICE WITH A BUFFER PROTECTION MECHANISM	2022/12/21
2022/13841	AN INTERCEPTING DEVICE FOR CONCRETE WITH HIGH AND LOW MARKINGS	2022/12/21
2022/13842	A SORTING DEVICE FOR CONSTRUCTION WASTE	2022/12/21
2022/13843	A DEVICE FOR SPRAYING DUST AND REDUCING TEMPERATURE ON A CONSTRUCTION WORK SURFACE	2022/12/21
2022/13844	A METHOD FOR CONSTRUCTING JOINTED DRAINPIPES ON PREFABRICATED EXTERIOR WALLS OF PREFABRICATED CONCRETE BUILDINGS	2022/12/21
2022/13845	A LARGE-DIAMETER CIRCULAR COLUMN HOOP OF A TOWER CRANE	2022/12/21
2022/13846	A REINFORCEMENT DEVICE USED IN A CANTILEVERED SCAFFOLD	2022/12/21
2022/13847	A THREADING CONSTRUCTION DEVICE FOR ELECTRICAL ENGINEERING	2022/12/21
2022/13848	A SPLICING GUIDE WALL	2022/12/21
2022/13920	METHOD FOR INCREASING ARG CONTENT IN SERUM OF WEANED PIGLETS	2022/12/22
2023/00175	INTRAVAGINAL COTTON TAMPON APPARATUS FOR OESTRUS SYNCHRONIZATION OF SHEEP AND PREPARATION PROCESS	2023/01/03
2023/00178	COMPOUND FEED FOR YOUNG FISH OF TRACHINOTUS OVATUS CAPABLE OF EFFICIENTLY SUBSTITUTING FISH MEAL BY	2023/01/03

Application Number	Patent Title	Filing Date
	ANIMAL AND PLANT COMPOUND PROTEIN	
2023/00179	FEED ADDITIVE CAPABLE OF EFFECTIVELY IMPROVING SUBSTITUTION RATIO OF FISH MEAL IN COMPOUND FEED OF TRACHINOTUS OVATUS	2023/01/03
2023/00198	METHOD FOR MEASURING THERMAL STORAGE STABILITY OF SBS POLYMER MODIFIED BITUMEN BASED ON INFRARED SPECTRUM TECHNOLOGY	2023/01/04
2023/00204	INDUSTRIALIZED PRODUCTION SYSTEM FOR PLEUROTUS OSTREATUS	2023/01/03
2023/00238	METHOD FOR CONTROLLING DEHISCENT TOMATOES	2023/01/05
2023/00287	OPTIMIZATION METHOD OF FUZZY CONTROL SYSTEM IN REACTOR BASED ON GENETIC ALGORITHM	2023/01/06
2023/00288	HARMONIC SUPPRESSION SYSTEM BASED ON STATOR FLUX LINKAGE TRACKING	2023/01/06
2023/00292	MULTIFUNCTIONAL MICROWATER WETLAND TREATMENT APPARATUS	2023/01/06
2023/00293	METHOD FOR PREPARING COMPOUND BLACK TEA CAPABLE OF IMPROVING ANTIOXIDANT ACTIVITY AND AFTERTASTE	2023/01/06
2023/00336	INTELLIGENT PET TRANSPORT BOX	2023/01/09
2023/00463	DEVICE AND METHOD FOR GENERATING BROADBAND OPTICAL FREQUENCY COMB BASED ON ARBITRARY WAVEFORM GENERATOR	2023/01/11
2023/00512	INTELLIGENT GREENHOUSE CONTROL SYSTEM AND METHOD	2023/01/12
2023/00640	ORGANIC FERTILIZER COMPOSTING TREATMENT BOX AND INTELLIGENT COMPOSTING SYSTEM THEREOF	2023/01/16
2023/00644	DEVICE AND METHOD FOR TREATING ACID WASTEWATER FROM COAL MINES BY USING COAL GANGUE	2023/01/16
2023/00702	CABINET-TYPE MULTI-MODEL TEST TUBE MOISTENING AND WASHING MACHINE	2023/01/17
2023/00715	MULTI-WORKING CONDITION OPTIMIZATION DESIGN METHOD OF TURBINE RUNNER UNDER	2023/01/17

Application Number	Patent Title	Filing Date
	MULTI-ENERGY COMPLEMENTARY CONDITION	
2023/01286	P53 POST-TRANSLATIONAL MODIFICATIONS AS MARKERS IN THE DIAGNOSIS AND PROGNOSIS OF A NEURODEGENERATIVE DISEASE	2023/01/31

DESIGNS

Advertisement List for February 2023

Number of Advertised Designs: 134

Application Number	Design Articles	Filing Date
A2019/01599	Blender	2019/10/25
A2020/01278	Cuvette	2020/09/23
A2020/01281	Cuvette	2020/09/23
A2020/01333	LIDDED CONTAINERS	2020/10/06
A2020/01503	MASKS	2020/11/20
A2020/01564	Vaginal applicator	2020/11/30
A2020/01565	Vaginal applicator	2020/11/30
A2021/00484	Bottle and a Cap	2021/05/06
A2021/01129	MESH SUPPORT BLANK	2021/09/21
A2021/01393	SELF-SERVICE FINANCIAL KIOSKS	2021/11/08
A2021/01394	SELF-SERVICE FINANCIAL KIOSKS	2021/11/08
A2021/01399	CONTAINER	2021/11/10
A2022/00054	Automobile	2022/01/18
A2022/00057	PACKAGING	2022/01/20
A2022/00120	CONTAINER	2022/02/07
A2022/00278	ACTUATORS	2022/03/22
A2022/00287	FAUCET	2022/03/24
A2022/00311	ELECTRONIC DEVICES	2022/03/25
A2022/00324	CARS	2022/03/28
A2022/00345	DEVICES	2022/04/01
A2022/00346	DEVICES	2022/04/01
A2022/00347	DEVICES	2022/04/01
A2022/00348	DEVICES	2022/04/01
A2022/00349	AIR FRESHENERS	2022/04/04
A2022/00350	AIR FRESHENERS	2022/04/04
A2022/00351	Container	2022/04/04
A2022/00379	CAMERAS	2022/04/08
A2022/00380	CAMERAS	2022/04/08
A2022/00381	CAMERAS	2022/04/08
A2022/00382	CAMERAS	2022/04/08
A2022/00407	USER INTERFACES	2022/04/19

Application Number	Design Articles	Filing Date
A2022/00408	USER INTERFACES	2022/04/19
A2022/00409	USER INTERFACES	2022/04/19
A2022/00410	GRAPHICAL USER INTERFACES	2022/04/19
A2022/00411	GRAPHICAL USER INTERFACES	2022/04/19
A2022/00412	GRAPHICAL USER INTERFACES	2022/04/19
A2022/00415	HAIR TRIMMER	2022/04/20
A2022/00426	CASES, DIALS AND ALL OTHER ACCESSORIES AND PARTS, FOR WATCHES	2022/04/21
A2022/00487	GRAPHICAL USER INTERFACES	2022/05/09
A2022/00492	GRAPHICAL USER INTERFACE	2022/05/09
A2022/00493	GRAPHICAL USER INTERFACE	2022/05/09
A2022/00531	Wearable Autoinjector	2022/05/16
A2022/00532	Wearable Autoinjector	2022/05/16
A2022/00533	Wearable Autoinjector	2022/05/16
A2022/00534	Wearable Autoinjector	2022/05/16
A2022/00536	VEHICLES	2022/05/17
A2022/00539	Wheel	2022/05/19
A2022/00540	Wheel	2022/05/19
A2022/00541	Wheel	2022/05/19
A2022/00542	Wheel	2022/05/19
A2022/00543	Wheel	2022/05/19
A2022/00545	Wheel	2022/05/19
A2022/00551	GEARBOX CASE COVER	2022/05/20
A2022/00552	GEARBOX CASE COVER	2022/05/20
A2022/00553	GEARBOX CASE COVER	2022/05/20
A2022/00554	GEARBOX CASE COVER	2022/05/20
A2022/00563	ELECTRONIC CIGARETTES	2022/05/24
A2022/00564	Sports Bars	2022/05/24
A2022/00565	Sports Bars for Vehicles	2022/05/24
A2022/00566	Sports Bars for Vehicles	2022/05/24
A2022/00567	Nudge Bars for Vehicles	2022/05/24
A2022/00568	Nudge Bars for Vehicles	2022/05/24
A2022/00569	ELECTRONIC CIGARETTES	2022/05/24
A2022/00584	CHEMILUMINESCENCE IMMUNOASSAY ANALYZER	2022/05/25
A2022/00585	Carton	2022/05/25
A2022/00588	SHORTS MADE FROM DISHCLOTH MATERIAL	2022/05/26
A2022/00589	Container for Food Packing	2022/05/26
A2022/00590	PENS	2022/05/27
A2022/00591	Front Bumper for an Automobile	2022/05/27
A2022/00592	Cooking Appliance	2022/05/27
A2022/00593	Adaptors	2022/05/27
A2022/00596	Hand Brace	2022/05/30
A2022/00597	Hand Brace	2022/05/30
A2022/00598	Hand Brace	2022/05/30
A2022/00599	Ankle Brace	2022/05/30
A2022/00600	Ankle Brace	2022/05/30
A2022/00601	Ankle Brace	2022/05/30
A2022/00604	EAR DROP APPLICATOR	2022/05/31

Application Number	Design Articles	Filing Date
A2022/00640	CONTAINER	2022/06/09
A2022/00642	CONTAINER	2022/06/09
A2022/00674	BATTERY BOX LOCK	2022/06/15
A2022/00685	BATTERY BOX LOCK	2022/06/20
A2022/00694	SET OF MODULAR SHELTERS	2022/06/20
A2022/00754	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00756	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00758	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00760	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00762	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00764	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00766	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00768	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00772	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00774	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00776	ANTI-WRINKLE APPLIANCES	2022/06/30
A2022/00778	ANTI-WRINKLE APPLIANCES	2022/06/30
F2019/01273	Box	2019/09/02
F2020/01504	MASK FILTERS	2020/11/20
F2020/01581	Grate for a Combine Harvester	2020/12/01
F2021/01130	MESH SUPPORT BLANK	2021/09/21
F2021/01374	Storage Tanks	2021/11/05
F2021/01398	Containers	2021/11/09
F2021/01400	CONTAINER	2021/11/10
F2022/00122	CONTAINER	2022/02/07
F2022/00136	INVERTER	2022/02/11
F2022/00142	BATTERY CHARGER	2022/02/11
F2022/00214	Header Board	2022/02/28
F2022/00317	WEAR MEMBER	2022/03/25
F2022/00406	NURSING SCREEN	2022/04/19
F2022/00430	STATIONARY BLADE FOR A HAIR TRIMMER	2022/04/22
F2022/00594	Adaptors	2022/05/27
F2022/00603	Secure Airway Clamp Device	2022/05/31
F2022/00605	EAR DROP APPLICATOR	2022/05/31
F2022/00641	CONTAINER	2022/06/09
F2022/00641	CONTAINER	2022/06/09
F2022/00643	CONTAINER	2022/06/09
F2022/00684	PLANT TRAINING HOOK	2022/06/17
F2022/00687	SEAL DEFORMING MEMBER FOR A CABLE GLAND	2022/06/20
F2022/00689	A SEAL AND CABLE GRIPPING ASSEMBLY FOR A CABLE GLAND	2022/06/20
F2022/00690	SEAL FOR A CABLE GLAND	2022/06/20
F2022/00691	SEAL DEFORMING MEMBER FOR A FOR A CABLE GLAND	2022/06/20
F2022/00692	CABLE GRIPPING MEMBER FOR A CABLE GLAND	2022/06/20
F2022/00693	A SEAL AND CABLE GRIPPING ASSEMBLY FOR A CABLE GLAND	2022/06/20
F2022/00755	ANTI-WRINKLE APPLIANCES	2022/06/30

Application Number	Design Articles	Filing Date
F2022/00757	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00761	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00763	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00765	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00767	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00769	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00771	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00773	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00775	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00777	ANTI-WRINKLE APPLIANCES	2022/06/30
F2022/00779	ANTI-WRINKLE APPLIANCES	2022/06/30

OFFICE PRACTISE NOTICES



NOTICE TO COMPANIES AND INTELLECTUAL PROPERTY COMMISSION CUSTOMERS

2023 SCHEDULE FOR ONLINE PUBLICATION OF THE PATENT JOURNAL

Please take note of the below dates regarding XML and online submissions for purposes of publishing in the Patent Journal. Further take note of the Patent Journal publication dates.

Month	Opening dates	Cut-off dates	Journal Publication Dates
January	03-January-2023	16-January-2023	25-January-2023
February	26-January-2023	13-February-2023	22-February-2023
March	23-February-2023	20-March-2023	29-March-2023
April	30-March-2023	17-April-2023	26-April-2023
May	28-April-2023	22-May-2023	31-May-2023
June	01-June-2023	19-June-2023	28-June-2023
July	29-June-2023	17-July-2023	26-July-2023
August	27-July-2023	21-August-2023	30-August-2023
September	31-August-2023	18-September-2023	27-September-2023
October	28-September-2023	16-October 2023	25-October-2023
November	26-October-2023	20-November-2023	29-November-2023
December	30-November-2023	11-December-2023	20-December-2023
January	02-January-2024	22-January-2024	31-January-2024

The above dates may be changed without a notice.

12 January 2023

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