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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. **(43)** 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 2025/01/27 -

2025/00885 ~ Provisional ~54:HAND PROTECTION AND SANITISATION ~71:Mhlongo, Nonhlanhla Cynthia Thuleleni, 60 Rose Street, Riviera, Pretoria 0084, Gauteng, SOUTH AFRICA, South Africa ~72: Mhlongo, Nonhlanhla Cynthia Thuleleni~

2025/00891 ~ Complete ~54:BIOCHAR-INTEGRATED TREATMENT SYSTEM FOR ENHANCED REMOVAL OF MICROPOLLUTANTS ~71:Dr. Yogesh Pralhadrao Patil, Room No 011, Engineering Chemistry, AISSMS Institute of Information Technology, Pune, 411001, India ~72: Dr. Yogesh Pralhadrao Patil~

2025/00897 ~ Complete ~54:DUAL-CARRIER SYSTEM FOR TREATING HEARING DAMAGE, AND USE THEREOF ~71:EYE & ENT HOSPITAL OF FUDAN UNIVERSITY, No.83 Fenyang Road, Xuhui District, Shanghai, 200031, People's Republic of China;SHANGHAI REFRESHGENE THERAPEUTICS CO., LTD., Building 7, No.160 Ba Sheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai, 201131, People's Republic of China ~72: GAO, Kaiyu;LI, Huawei;SHU, Yilai;TAN, Qingqiao;TANG, Honghai;WANG, Hui;ZHOU, Rui~ 33:CN ~31:202210536327.5 ~32:17/05/2022

2025/00905 ~ Complete ~54:PROTEINS BINDING NKG2D, CD16, AND CEACAM5 ~71:Dragonfly Therapeutics, Inc., 35 Gatehouse Drive, WALTHAM 02451, MA, USA, United States of America;Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America ~72: BEEBE, Amy M.;CHANG, Gregory P.;CHATTOPADHYAY, Souvik;CHEUNG, Ann F.;FAYADAT-DILMAN, Laurence;GRINBERG, Asya;HEIN, Pyae P.;JAUN, Veronica M.;WAGTMANN, Nicolai~ 33:US ~31:63/396,910 ~32:10/08/2022

2025/00909 ~ Complete ~54:ANTI-FGFR3 ANTIBODY CONJUGATE AND MEDICAL USE THEREOF ~71:AIMED BIO INC., 11th FL., MK Tower Bldg., 67, Jeongui-ro, Songpa-gu, Seoul, 05835, Republic of Korea;GENEQUANTUM HEALTHCARE (SUZHOU) CO., LTD., 5th Floor, Building D, No. 398, Ruoshui Rd., Suzhou Industrial Park, Suzhou, Jiangsu, 215123, People's Republic of China ~72: BYEONGKWI MIN;GANG QIN;MINGYU HU;PAUL H. SONG~ 33:CN ~31:PCT/CN2022/101787 ~32:28/06/2022;33:CN ~31:PCT/CN2023/081140 ~32:13/03/2023;33:CN ~31:PCT/CN2023/088092 ~32:13/04/2023

2025/00913 ~ Complete ~54:EIF(ISO)4E PROTEIN VARIANTS FOR RESISTANCE TO MAIZE VIRAL DISEASES ~71:LIMAGRAIN EUROPE, rue Henri Mondor Biopole Clermont-Limagne, France ~72: BASTET, Anna;GALLOIS, Jean-Luc;LAFARGE, Stéphane;ROUSTER, Jacques;SALLAUD, Christophe;VALEILLE, Céline~ 33:EP ~31:22306144.1 ~32:29/07/2022;33:EP ~31:22306145.8 ~32:29/07/2022

2025/00916 ~ Complete ~54:CONTINUOUS SUBGLOTTIC SECRET DRAINAGE DEVICE WITH ADJUSTABLE PRESSURE ~71:JIANGSU CANCER HOSPITAL, No.42 Baiziting Nanjing, People's Republic of China ~72: CHEN Wei;HU Tingting;QIAN Yichun;SHAO Jinlan;WANG Meixiang;YANG Cuimei;YE Zi;YU Jie;ZHANG Linhua~

2025/00899 ~ Complete ~54:MSLN ANTIBODY-DRUG CONJUGATE ~71:NONA BIOSCIENCES (SUZHOU) CO., LTD., Suite 202, Building A3, 218 Xinghu Street, People's Republic of China ~72: CAI, Jiaqiang;GUAN, Guangkuo;WANG, Di;WANG, Xiaoxiao;XIAO, Liang;XUE, Tongtong;ZHANG, Meihong;ZHANG, Wei~ 33:CN ~31:202210922954.2 ~32:02/08/2022;33:CN ~31:202310912034.7 ~32:24/07/2023

2025/00902 ~ Complete ~54:VIRAL VECTOR ~71:University of Sheffield, Western Bank, Firth Court, SHEFFIELD S10 2TN, UNITED KINGDOM, United Kingdom ~72: AZZOUZ, Mimoun;HAUTBERGUE, Guillaume;SHAW, Pamela~ 33:GB ~31:2211638.8 ~32:09/08/2022;33:GB ~31:2211673.5 ~32:10/08/2022

2025/00903 ~ Complete ~54:MYELOID-DERIVED GROWTH FACTOR FOR USE IN TREATING CARDIOGENIC SHOCK ~71:Boehringer Ingelheim International GmbH, Binger Str. 173, INGELHEIM AM RHEIN 55216, GERMANY, Germany;Medizinische Hochschule Hannover, Carl-Neuberg-Straße 1, HANNOVER 30625, GERMANY, Germany ~72: WANG, Yong;WOLLERT, Kai Christoph~ 33:US ~31:63/374,942 ~32:08/09/2022

2025/00908 ~ Complete ~54:METHODS AND COMPOSITIONS FOR CONTROLLING MERISTEM SIZE FOR CROP IMPROVEMENT ~71:PAIRWISE PLANTS SERVICES, INC., 807 East Main Street, Suite 4-100, Durham, United States of America ~72: O'CONNOR, Devin Lee~ 33:US ~31:63/371,079 ~32:11/08/2022

2025/00912 ~ Complete ~54:FOLDABLE ELECTRONIC DEVICE INCLUDING HINGE LOCK STRUCTURE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: GUN LIM;MINSU RHEE~ 33:KR ~31:10-2022-0078823 ~32:28/06/2022;33:KR ~31:10-2022-0098134 ~32:05/08/2022

2025/00915 ~ Complete ~54:VISION BASED SEMI AUTOMATIC BLOOD CROSS MATCH IDENTIFIER AND MICRO-ORGANISMS VIEW MAGNIFIER ~71:JAYAKUMAR, P., Research Faculty, IRC -Kalasalingam Academy of Research and Education, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil, Srivilliputur, India ~72: JAYAKUMAR, P.;PADMANABHAN, S.~ 33:IN ~31:202241022678 ~32:18/04/2022

2025/00883 ~ Provisional ~54:INSULIN DELIVERY AND MONITORING DEVICE ~71:Afrimed Medical Devices, Cnr. Samrand Avenue and Rooihuiskraal Road, CentralPoint Innovation District, South Africa ~72: Afrimed Medical Devices;Malibongwe Ntshingana~

2025/00917 ~ Provisional ~54:METAL WINDOW BEAD FOR GLAZING STEEL AND WOOD WINDOW FRAMES ~71:LAWRENCE BRIAN PRESTON, 28 DIAMANT PARK, 1ST AVE, ERUSMUS, South Africa ~72: LAWRENCE BRIAN PRESTON~

2025/00884 ~ Provisional ~54:FLEXCHANGE BUILDING BRICK & PAVING ~71:Thabo Ezekiel Leonard Mokoena, 3379 Block B Mabopane, South Africa ~72: Thabo Ezekiel Leonard Mokoena~ 33:ZA ~31:1 ~32:24/01/2025

2025/00893 ~ Complete ~54:ALTERNATING POSITIVE AND NEGATIVE PRESSURE TYPE SELF-CLEANING INTEGRATED DUST REMOVAL DEVICE FOR MINING AND USE METHOD THEREOF ~71:Midling Coal Group Shanxi Co., Ltd, Building 5, Shanxi International Finance Center, No. 426 South Zhonghuan Street, Xuefu Industrial Park, Shanxi Comprehensive Reform Zone, Taiyuan City, Shanxi Province, People's Republic of China;Shanxi Xing County Huarun Liansheng Chejia Village Coal Industry Co., Ltd, Chengjiagou Village, Weifen Town, Xing County, Lvliang City, Shanxi Province, People's Republic of China ~72: AN Junpeng;LI Yingming;LIU Shaoze;TAO Qiangsheng;WANG Shouguo~

2025/00898 ~ Complete ~54:TUMOR SAMPLING DEVICE FOR MEDICAL ONCOLOGY ~71:Jiangsu Cancer Hospital, No. 42 Baiziting, Xuanwu District,, Nanjing City, Jiangsu Province, People's Republic of China ~72: TENG, Yue;ZHU, Jingni~ 33:CN ~31:2025100311193 ~32:09/01/2025

2025/00914 ~ Complete ~54:EIF4E KNOCKOUT MAIZE PLANTS FOR VIRAL RESISTANCE ~71:LIMAGRAIN EUROPE, rue Henri Mondor Biopole Clermont-Limagne, France ~72: LAFARGE, Stéphane;ROUSTER, Jacques;SALLAUD, Christophe~ 33:EP ~31:22306144.1 ~32:29/07/2022

2025/00889 ~ Complete ~54:ULTRASONIC SCANNING DEVICE ~71:The Affiliated Hospital of Hebei University, 212 Yuhua East Road, Baoding City, Hebei Province, People's Republic of China ~72: Dandan KONG;Jiuyi YANG~

2025/00887 ~ Complete ~54:ADJUSTABLE HAND GRIP EXERCISER ~71:Shandong University of Finance and Economics, No. 7366, Second Ring East Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Xiaoping YUAN~

2025/00896 ~ Complete ~54:APPARATUS AND METHOD OF DEPLOYING A PIPE WITHIN A BOREHOLE ~71:HYPERTUNNEL IP LIMITED, 1ST FLOOR, THE PAVILLION VIEWPOINT, BASING VIEW, BASINGSTOKE HAMPSHIRE RG21 4RG, UNITED KINGDOM, United Kingdom ~72: JORDAN, Stephan;LANE-NOTT, Patrick;MEEKS, Alan~ 33:GB ~31:2209405.6 ~32:27/06/2022

2025/00900 ~ Complete ~54:THREE-PIECE MOLD DEVICE, SYSTEM, AND METHOD FOR MANUFACTURING OF CONNECTABLE BEVERAGE BOTTLE ~71:HATTAB GLOBAL CORP., 555 Leggett Drive, Unit 111, Canada ~72: HATTAB, Alaa, Mohamed~ 33:US ~31:63/389,117 ~32:14/07/2022;33:US ~31:18/206,896 ~32:07/06/2023

2025/00904 ~ Complete ~54:FORMULATIONS COMPRISING G-CSF AND USES THEREOF ~71:Evive Biotechnology (Shanghai) Ltd, Floor 3, Building 1, No. 400 Fangchun Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, SHANGHAI 201207, CHINA (P.R.C.), People's Republic of China ~72: LI (Deceased), Tiansheng;TAN, Ying;XU, Linfeng~ 33:IB ~31:2022/113560 ~32:19/08/2022

2025/00911 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING ISOTRETINOIN AND PROCESSES FOR PREPARATION AND USES THEREOF ~71:ACROTECH BIOPHARMA INC., 279 Princeton Highstown Road, East Windsor, New Jersey, 08520, United States of America ~72: ARUN JANA;ASHISH ANVEKAR;NAGAPRASAD VISHNUBHOTLA~ 33:IN ~31:202221038020 ~32:01/07/2022

2025/00886 ~ Complete ~54:BASKETBALL PASSING TRAINER ~71:Shandong University of Finance and Economics, No. 7366, Second Ring East Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Xiaoping YUAN~

2025/00888 ~ Complete ~54:ULTRASONIC SCANNER ~71:The Affiliated Hospital of Hebei University, 212 Yuhua East Road, Baoding City, Hebei Province, People's Republic of China ~72: Chen LI;Dandan KONG~

2025/00906 ~ Complete ~54:MTA-COOPERATIVE PRMT5 INHIBITORS FOR USE IN THE TREATMENT OF CANCER ~71:AstraZeneca AB, SÖDERTÄLJE SE-151-85, SWEDEN, Sweden ~72: CHAN, Ho Man;LYNCH, James Thomas~ 33:US ~31:63/397,996 ~32:15/08/2022

2025/00910 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO SYSTEMS FOR GENERATING ELECTRICITY ~71:JACOBS U.K. LIMITED, Cottons Centre, Cottons Lane, London, SE1 2QG, United Kingdom ~72: CHRIS NEWLAND~ 33:GB ~31:2209667.1 ~32:30/06/2022

2025/00881 ~ Provisional ~54:DISTRIBUTION BOARDS ~71:BOTES, Jean, 3566 Jan Frederick Avenue, Randpark Ridge, South Africa ~72: BOTES, Jean~

2025/00882 ~ Provisional ~54:A SYSTEM AND METHOD FOR FACILITATING PAYMENTS VIA MOBILE CARRIER ACCOUNTS ~71:MOOLA AIR (PTY) LTD, 113 Amos Street, Colbyn, South Africa ~72: BOTHMA, Rohan;MURRAY, Joseph John James~

2025/00892 ~ Complete ~54:ADJUSTABLE GARMENT ~71:BEDDY BOO (PTY) LTD, 9 Oakfarm Crescent, South Africa ~72: BROWN, Sara Lynn;NAUDE, Marianne~

2025/00901 ~ Complete ~54:CONNECTABLE BEVERAGE BOTTLE ~71:HATTAB GLOBAL CORP., 555 Leggett Drive, Unit 111, Canada ~72: HATTAB, Alaa, Mohamed~ 33:US ~31:63/389,117 ~32:14/07/2022;33:US ~31:18/206,896 ~32:07/06/2023;33:US ~31:18/220,794 ~32:11/07/2023

2025/00907 ~ Complete ~54:COMPOSITIONS AND METHODS FOR IMPROVING MEMORY AND COGNITION ~71:Sirtsei Pharmaceuticals, Inc., RDU Center, 3000 RDU Center Drive, Suite 130, MORRISVILLE 27560, NC, USA, United States of America ~72: ACKERMANN, Michael Friedrich;BUTTS, Stephen E.;RIGDON, Gregory Cooksey~ 33:US ~31:63/393,049 ~32:28/07/2022

2025/00879 ~ Provisional ~54:FORGETMEKNOT - ONLINE DATA MANAGEMENT SUITE ~71:Steven Young, 36 Waterloo st, Bryanston, South Africa ~72: Steven Young;Steven Young~ 33:ZA ~31:1 ~32:24/01/2025

2025/00880 ~ Provisional ~54:DECENTRALIZED BIOMETRIC AUTHENTICATION SYSTEM AND METHOD FOR PRIVACY-PRESERVING IDENTITY VALIDATION ~71:Malcolm Ilyya Solomon, 6 Princes Place 66 Princes Road Harfield Village, South Africa ~72: Malcolm Ilyya Solomon~ 33:ZA ~31:N/A ~32:24/01/2025

2025/00890 ~ Complete ~54:MEAT STERILIZATION ~71:VAN JAARSVELD, Arthur, 48 Kogans Street, Heidelberg Kloof Nature Estate, South Africa ~72: VAN JAARSVELD, Arthur~ 33:ZA ~31:2023/10808 ~32:23/11/2023

2025/00894 ~ Complete ~54:DEEP LEARNING-BASED METHOD FOR DETECTING SKYLINE ~71:BEIJING INSTITUTE OF SURVEYING AND MAPPING DESIGN, No.15 Yangfangdian Road, Haidian District, People's Republic of China;BEIJING SOCIETY OF SURVEYING AND MAPPING, No.15 Yangfangdian Road, Haidian District, People's Republic of China;BEIJING TONGCHUANG TIANCHENG ENGINEERING SURVEY CO., LTD., No.15 Yangfangdian Road, Haidian District, People's Republic of China;BEIJING ZHONGTIAN ROAD INTELLIGENT CONTROL TECHNOLOGY CO., LTD., Building 5, No.35, Dahuangzhuang, Gaobeidian Town, Chaoyang District, People's Republic of China;MUCHENG SURVEYING AND MAPPING (BEIJING) CO., LTD., Building 5, No.18, Ziyue Road, Chaoyang District, People's Republic of China ~72: CAO, Yuao;GUO, Xiyin;LI, Chengpeng;LIU, Qingli;WANG, Miao;YANG, Bogang;YANG, Gang;ZHANG, Guichun~

- APPLIED ON 2025/01/28 -

2025/00922 ~ Provisional ~54:A ROCK DRILL PISTON ~71:HYDRO POWER EQUIPMENT (PTY) LTD, 19 Precision Street, South Africa ~72: MINNITT, Geoffrey Peter John~

2025/00927 ~ Complete ~54:VALVE ~71:WEIR MINERALS NETHERLANDS B.V., Egtenrayseweg 9, 5928, Netherlands ~72: STROEKEN, Johannes~ 33:GB ~31:2212498.6 ~32:29/08/2022

2025/00929 ~ Complete ~54:DRIFT DETECTION APPARATUS, SYSTEM, AND METHOD ~71:BALTIMORE AIRCOIL COMPANY, INC., 7600 Dorsey Run Road, United States of America ~72: ROUSSELET, Yohann Lilian~ 33:US ~31:63/394,687 ~32:03/08/2022

2025/00932 ~ Complete ~54:SYSTEM FOR WATERING PLANTS ~71:SUPA SOLUTION (PTY) LTD, 5 Emerald Court, Stellenbosch, 7600, Western Cape, South Africa ~72: HEYMANS, Malem Scheepers;REINSTORF, Heinz Otto~ 33:ZA ~31:2022/08610 ~32:02/08/2022

2025/00934 ~ Complete ~54:ANTI-ADRENOMEDULLIN (ADM) ANTIBODY OR ANTI-ADM ANTIBODY FRAGMENT OR ANTI-ADM NON-IG SCAFFOLD FOR USE IN THERAPY OR PREVENTION OF SHOCK ~71:AdrenoMed AG, Neuendorfstraße 15A, HENNIGSDORF 16761, GERMANY, Germany ~72: BERGMANN, Andreas~ 33:EP ~31:22187954.7 ~32:29/07/2022

2025/00941 ~ Complete ~54:SOLID FORMS OF A TRIAZINE DERIVATIVE AS CBL-B MODULATOR ~71:HOTSPOT THERAPEUTICS, INC., 1 Design Center Place, Suite 19-600, Boston, Massachusetts, 02210, United States of America ~72: JON P LAWSON;KEN CARSON;YINGZHI BI~ 33:US ~31:63/388,342 ~32:12/07/2022

2025/00944 ~ Complete ~54:SHORTENED POLYCYSTIN-1 POLYPEPTIDE AND USE THEREOF ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-machi, Chiyoda-ku, Tokyo, 1018535, Japan ~72: HIROSHI MIZUGUCHI;HIROSHI NISHIKAWA;KOUDAI OGURI;KURUMI MINENO;TAKEO HARADA;WAKAKO SAKAMAKI;YOHEI HAYASHI~ 33:JP ~31:2022-124947 ~32:04/08/2022

2025/00920 ~ Provisional ~54:MULTI-LOCK CABLE ANCHOR ~71:Theodore Daniel Swemmer, PO Box 75746, South Africa ~72: Theodore Daniel Swemmer~

2025/00935 ~ Complete ~54:DATA PROCESSING ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: LIIKANEN, Henri;PUURA, Jussi;SANERMA, Simo~ 33:EP ~31:22190213.3 ~32:12/08/2022

2025/00921 ~ Provisional ~54:SYSTEM AND METHOD FOR FINANCIAL ACCOUNTING AND ASSET MANAGEMENT FOR EDUCATIONAL INSTITUTIONS ~71:Simafanele Thokozelwe Namani Mavuso, 11 Troy Close, South Africa;Tatenda Hamandishe, 36 Killarney Street, South Africa ~72: Chab Management and Accounting Services~

2025/00925 ~ Complete ~54:RETAILER CASH HANDLING SYSTEM AND METHOD ~71:SBV SERVICES (PROPRIETARY) LIMITED, SBV House, Corner of 11th Avenue and 8th Street, Houghton, JOHANNESBURG 2198, Gauteng, SOUTH AFRICA, South Africa ~72: NAUDE, Leonard Louw~ 33:ZA ~31:2024/03042 ~32:19/04/2024

2025/00931 ~ Complete ~54:SEALING AIRLOCK FOR DEPOSITION CHAMBER ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Didier MARNEFFE;Philippe DOSSIN;Vincent RUWET~ 33:IB ~31:PCT/IB2022/058335 ~32:05/09/2022

2025/00930 ~ Complete ~54:COMPOUNDS FOR TREATMENT OF CONDITIONS AND DISEASES ~71:STOKE THERAPEUTICS, INC., 45 Wiggins Avenue, United States of America ~72: AZNAREZ, Isabel;CHRISTIANSEN, Anne;HAN, Zhou;LIAU, Gene;MEENA, Meena;TICHO, Baruch~ 33:US ~31:63/369,845 ~32:29/07/2022

2025/00938 ~ Complete ~54:METHODS OF PREPARING NORMALISED NUCLEIC ACID SAMPLES, KITS AND DEVICES FOR USE IN THE METHOD ~71:Wobble Genomics Limited, Suite 2, Ground Floor, Orchard Brae House, 30 Queensferry Road, EDINBURGH EH4 2HS, UNITED KINGDOM, United Kingdom ~72: KUO, Richard Izen~ 33:GB ~31:2211385.6 ~32:04/08/2022

2025/00942 ~ Complete ~54:UNSHAPED REFRACTORY MATERIAL, METHOD OF PRODUCING A MOIST UNSHAPED REFRACTORY MATERIAL AND METHOD OF MAKING A REFRACTORY LINING ~71:REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, Wienerbergstraße 11, 1100, Wien, Austria ~72: DAVID WAPPEL;MICHAEL FREILER;STEFAN EDER~ 33:EP ~31:22192379.0 ~32:26/08/2022

2025/00945 ~ Complete ~54:MUSCLE-SPECIFIC REGULATORY CASSETTES ~71:BOARD OF REGENTS OF THE NEVADA SYSTEM OF HIGHER EDUCATION, ON BEHALF OF THE UNIVERSITY OF NEVADA, RENO, c/o Enterprise & Innovation, University of Nevada, 1664 N. Virginia Street, Mail Stop 321, Reno, Nevada, 89557, United States of America;NEVADA RESEARCH & INNOVATION CORPORATION, 450 Sinclair Street, Mail Stop 0724, Reno, Nevada, 89501, United States of America ~72: CHARIS L HIMEDA;PETER L JONES~ 33:US ~31:63/390,886 ~32:20/07/2022

2025/00936 ~ Complete ~54:CONTINUOUS PRODUCTION OF DRIED MALTED GRAINS ~71:Heineken Supply Chain B.V., Burgemeester Smeetsweg 1, ZOETERWOUDE 2382 PH, THE NETHERLANDS, Netherlands ~72: BEKKERS, Augustinus Cornelius Aldegonde Petrus Albert;VISSCHER, Hendrik Jan;VISSENAEKENS, Johan Franciscus Maria~ 33:EP ~31:22194206.3 ~32:06/09/2022

2025/00923 ~ Provisional ~54:DRILL RIGS ~71:VAN HEERDEN, Willem Frederik, 47 18th Street, Menlo Park, Pretoria 0081, Gauteng, SOUTH AFRICA, South Africa ~72: VAN HEERDEN, Willem Frederik~

2025/00939 ~ Complete ~54:DEVICES, SYSTEMS, AND METHODS FOR ENHANCING THE IMPLEMENTATION OF CONTROL CIRCUITS FOR NUCLEAR INSTRUMENTATION AND CONTROL SYSTEMS ~71:Westinghouse Electric Company LLC, 1000 Westinghouse Drive, Suite 141, CRANBERRY TOWNSHIP 16066, PA, USA, United States of America ~72: BOBKO, Paul A.;TWEEDLE, Thomas~ 33:US ~31:17/813,295 ~32:18/07/2022

2025/00943 ~ Complete ~54:ANTI-TAU MTBR ANTIBODIES AND METHODS TO DETECT CLEAVED FRAGMENTS OF TAU AND USES THEREOF ~71:WASHINGTON UNIVERSITY, One Brookings Drive, St. Louis, Missouri, 63130, United States of America ~72: DAVID HOLTZMAN;HONG JIANG;KANTA HORIE;RANDALL BATEMAN~ 33:US ~31:63/400,345 ~32:23/08/2022;33:US ~31:63/443,317 ~32:03/02/2023;33:US ~31:63/452,291 ~32:15/03/2023

2025/00947 ~ Provisional ~54:TRIBRID BATTERY BUNTER ~71:JACQUES KRUGER, 407 ROAN CRESCENT, RANDJIES PARK, South Africa;LYNETTE MAGASA, 407 ROAN CRESCENT, RANDJIES PARK, South Africa ~72: CHRISTOPHER JOHNSTON~

2025/00937 ~ Complete ~54:DECODING METHOD AND DEVICE, ASSOCIATED COMPUTER PROGRAM AND DATA STREAM ~71:Orange, 111, quai du Président Roosevelt, ISSY-LES-MOULINEAUX 92130, FRANCE, France ~72: ABDOLI, Mohsen;CLARE, Gordon;HENRY, Félix~ 33:FR ~31:2206565 ~32:29/06/2022

2025/00940 ~ Complete ~54:IMMUNOSTIMULATORY ANTI-PD-L1-DRUG CONJUGATES ~71:REGENTS OF THE UNIVERSITY OF MINNESOTA, 600 McNamara Alumni Center 200 Oak St. SE, Minneapolis, Minnesota, 55455, United States of America;SEAGEN INC., 21823 30th Drive SE, Bothell, Washington, 98021, United States of America ~72: ALYSON SMITH;CHRISTOPHER SCOTT NEUMANN;DAVID M FERGUSON;KUNG-PERN WANG;SHYRA J GARDAI~ 33:US ~31:63/394,912 ~32:03/08/2022

2025/00946 ~ Complete ~54:DRY POWDER INHALER ~71:CHIESI FARMACEUTICI S.P.A., Via Palermo, 26/A, 43122, Parma, Italy ~72: DONAL JOSEPH TAYLOR;MARCO DI CASTRI;STUART ROBERT ABERCROMBIE~ 33:EP ~31:22188457.0 ~32:03/08/2022

2025/00924 ~ Complete ~54:BUOYANCY COMPENSATOR INTEGRATED WEIGHT SYSTEM ~71:JOHNSON OUTDOORS INC., 555 Main Street, United States of America ~72: COUZYN, Rhys James~ 33:ZA ~31:2024/01001 ~32:31/01/2024

2025/00926 ~ Complete ~54:STORAGE AND TRANSPORT OF SODIUM HYPOCHLORITE ~71:NUVEST RECOVERY SOLUTIONS (PTY) LTD, 65 Philip Engelbrecht Dr, Meyersdal, 1448, South Africa ~72: IAN TUNNICLIFFE~ 33:ZA ~31:2024/02946 ~32:17/04/2024

2025/00928 ~ Complete ~54:ELECTRON BEAM RADIATION FOR THE STERILIZATION OF MEDIA PRIOR TO INOCULATION WITH FUNGI AND RELATED METHODS ~71:SYLVAN INC., 198 Nolte Dr. Kittanning, United States of America ~72: WACH, Mark~ 33:US ~31:63/399,425 ~32:19/08/2022

2025/00933 ~ Complete ~54:FLAVONOID-DEPENDENT FERTILITY ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: CARTER, Jared;EGGER, Rachel Louise;GREEN, Julie Leonard~ 33:US ~31:63/369,975 ~32:01/08/2022

- APPLIED ON 2025/01/29 -

2025/00974 ~ Complete ~54:RESOURCE CONFIGURATION METHOD AND COMMUNICATION APPARATUS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: GAN, Ming;GONG, Bo;HU, Mengshi;YU, Jian~ 33:CN ~31:202210927210.X ~32:03/08/2022

2025/00950 ~ Provisional ~54:SCELETIUM EXTRACT PRODUCTION METHOD ~71:NHP Global Group, Inc, 4650 Lipscomb St, Palm Bay,, United States of America ~72: GROENEWALD, PIETER WILLEM NICOLAAS~

2025/00959 ~ Complete ~54:PANEL LOCK MECHANISM ~71:HRH RUBBER PRODUCTS CC, 40 First Street, Springs, 1560, South Africa ~72: PAUL MURRAY HARPER~ 33:ZA ~31:2024/00514 ~32:16/01/2024

2025/00969 ~ Complete ~54:NICKEL CATALYSTS FOR REVERSE WATER-GAS SHIFT CATALYSTS AND INTEGRATED FISCHER-TROPSCH PROCESSES ~71:BP (China) Holdings Limited, Room 2101, 21F, Youyou International Plaza, 76 Pujian Road, Pudong, SHANGHAI 200127, SHANGHAI, CHINA (P.R.C.), People's Republic of China;BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: ARMITAGE, Gareth;DENNIS-SMITHER, Ben;DOSKOCIL, Eric;GUO, Meiling;LIU, Xuebin;PATERSON, Alexander James;SUNLEY, John Glenn;UDOH, Christiana~ 33:IB ~31:2022/102630 ~32:30/06/2022;33:IB ~31:2022/102799 ~32:30/06/2022

2025/00973 ~ Complete ~54:INTEGRATED REACTOR, AND CHARGING AND REFUELING SYSTEM AND METHOD ~71:Shanghai Nuclear Engineering Research & Design Institute Co., Ltd., No. 29 Hongcao Road, Xuhui District, SHANGHAI 200233, CHINA (P.R.C.), People's Republic of China ~72: HUANG, Shangqing;LI, Chengwu;LI, Lei;LI, Mengzhi;LIN, Shaoxuan;LIU, Jianwen;MAO, Fei;SHAO, Changlei;WENG, Chenyang;WENG, Na;WU, Wei;ZHU, Xuefeng~ 33:CN ~31:202210939550.4 ~32:05/08/2022

2025/00982 ~ Complete ~54:PHARMACEUTICAL COMPOSITION CONTAINING PYRROLE GASTRIC ACID SECRETION INHIBITOR AND PREPARATION METHOD THEREFOR ~71:Jiangsu Carephar Pharmaceutical Co., Ltd., Building 1, No. 6, Xuzhuang Road, Xuanwu, NANJING 210016, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: HAN, Cheng;SHEN, Juan;SU, Mei~ 33:CN ~31:202210930967.4 ~32:04/08/2022

2025/00985 ~ Complete ~54:STABLE REGULATORY T CELLS AND METHODS OF PRODUCTION ~71:ABATA THERAPEUTICS, INC., 100 Forge Road, Suite 200 Watertown, Massachusetts 02472, United States of America ~72: ANDREA VAN ELSAS;CHRISTINA STRANGE;DEVAPREGASAN MOODLEY;ENOCH KISUBIKA;EUGENE ANTIPOV;FANG XIA;HARISH ADONI;JEFTE DRIJVERS;RICHARD RANSOHOFF;STEPHEN SOFEN;YANBO ZHANG~ 33:US ~31:63/397,704 ~32:12/08/2022;33:US ~31:63/412,032 ~32:30/09/2022;33:US ~31:63/417,422 ~32:19/10/2022

2025/00965 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INCREASING THE AMINO ACID AND PROTEIN CONTENT IN STORAGE ORGANS OF PLANTS ~71:POLOPO LTD., Gan Shlomo, Israel ~72: LIBERMAN-ALONI, Raya;SAPIR-MIR, Maya~ 33:US ~31:63/393,923 ~32:31/07/2022

2025/00970 ~ Complete ~54:PALLADIUM, PLATINUM, AND GOLD CATALYSTS FOR REVERSE WATER-GAS SHIFT AND INTEGRATED FISCHER-TROPSCH PROCESSES ~71:BP (China) Holdings Limited, Room 2101, 21F, Youyou International Plaza, 76 Pujian Road, Pudong, SHANGHAI 200127, SHANGHAI, CHINA (P.R.C.), People's Republic of China;BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: ARMITAGE, Gareth;DENNIS-SMITHER, Ben;DOSKOCIL, Eric;GUAN, Zai Hong;GUO, Meiling;LIU, Xuebin;PATERSON, Alexander James;SUNLEY, John Glenn;UDOH, Christiana~ 33:IB ~31:2022/102685 ~32:30/06/2022;33:IB ~31:2022/102763 ~32:30/06/2022;33:IB ~31:2022/102812 ~32:30/06/2022;33:IB ~31:2022/102976 ~32:30/06/2022

2025/00975 ~ Complete ~54:MANGANESE CATALYSTS FOR REVERSE WATER-GAS SHIFT AND INTEGRATED FISCHER-TROPSCH PROCESSES ~71:BP (China) Holdings Limited, Room 2101, 21F, Youyou International Plaza, 76 Pujian Road, Pudong, SHANGHAI 200127, SHANGHAI, CHINA (P.R.C.), People's Republic of China;BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: ARMITAGE, Gareth;DENNIS-SMITHER, Ben;DOSKOCIL, Eric;GUO, Meiling;LIU, Xuebin;PATERSON, Alexander James;SUNLEY, John Glenn;UDOH, Christiana;WANG, Ning~ 33:IB ~31:2022/102660 ~32:30/06/2022;33:IB ~31:2022/102723 ~32:30/06/2022

2025/00981 ~ Complete ~54:INDOLINE DERIVATIVES AS SEROTONERGIC AGENTS USEFUL FOR THE TREATMENT OF DISORDERS RELATED THERETO ~71:Mindset Pharma Inc., 217 Queen Street West, Suite 401, TORONTO M5V 0R2, ONTARIO, CANADA, Canada ~72: SLASSI, Abdelmalik~ 33:US ~31:63/401,847 ~32:29/08/2022

2025/00961 ~ Complete ~54:CONTINUOUS CASTING SPRAY WATER PERFORMANCE MONITORING AND WATER CONTROL CHEMISTRY ~71:ECOLAB USA INC., 1 ECOLAB PLACE, SAINT PAUL, MINNESOTA 55102, USA, United States of America ~72: DALKE, Shawn;DILIPKUMAR, Rajeev;HOLTZ, Raphael;MLAMBO, Darlington;SCHWARZ, Daniel~ 33:US ~31:63/358,418 ~32:05/07/2022

2025/00962 ~ Complete ~54:NUCLEAR REACTOR WITH AN AXIALLY STRATIFIED FUEL BED ~71:X-ENERGY, LLC, 801 THOMPSON AVENUE, SUITE 300, ROCKVILLE, MARYLAND 20852, USA, United States of America ~72: BROWN, Daniel;KIM, Howard~ 33:US ~31:17/811,400 ~32:08/07/2022

2025/00964 ~ Complete ~54:METHODS OF TREATING NON-SMALL CELL LUNG CANCER USING MESENCHYMAL EPITHELIAL TRANSITION FACTOR (MET)-TARGETED AGENTS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BOYAPATI, Anita;NAVAS, Mario Antonio;PEREZ, Javier;RIETSCHER, Petra~ 33:US ~31:63/374,364 ~32:01/09/2022;33:US ~31:63/519,798 ~32:15/08/2023

2025/00968 ~ Complete ~54:WEAR ASSEMBLY ~71:ESCO Group LLC, 2141 NW 25th Avenue, United States of America ~72: LEEDHAM, Cameron R.;MARTIN, Michael;MORRIS, Ray J.;SNYDER, Christopher D.~ 33:US ~31:63/388,588 ~32:12/07/2022

2025/00976 ~ Complete ~54:INTEGRATED FISCHER-TROPSCH PROCESSES ~71:BP (China) Holdings Limited, Room 2101, 21F, Youyou International Plaza, 76 Pujian Road, Pudong, SHANGHAI 200127, SHANGHAI, CHINA (P.R.C.), People's Republic of China;BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: ARMITAGE, Gareth;DENNIS-SMITHER, Ben;GUO, Meiling;LIU, Xuebin;PATERSON, James;SUNLEY, John Glenn;UDOH, Christiana~

2025/00987 ~ Complete ~54:A CABLE SYSTEM COMPRISING IN-LINE SENSORS ~71:AGI SURETRACK LLC, 8040 Bond Street, Lenexa, Kansas 66214, United States of America ~72: COLE FINCHAM;COREY BARKHURST~ 33:US ~31:17/815,090 ~32:26/07/2022

2025/00988 ~ Complete ~54:A DETERGENT SHEET ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GIRISH MURALIDHARAN;VISHAL MOHAN UDMALE~ 33:EP ~31:22192160.4 ~32:25/08/2022

2025/00990 ~ Provisional ~54:SMART MANUAL ~71:SAKHILE HOPEWELL NTULI, 1351 EXT 8, EMPUMELWENI, South Africa ~72: SAKHILE HOPEWELL NTULI ~

2025/00952 ~ Provisional ~54:DISPOSABLE ATTACHMENT FOR A SURGICAL DEVICE ~71:COBA BIOMEDICAL (PTY) LTD., Unit 5, 23 President Steyn Street, Westdene, Bloemfontein, 9301, South Africa ~72: HENRY WYNAND HUYSAMEN;WILLIAM ALLAN KINNEAR~

2025/00957 ~ Complete ~54:MOUNTING BRACKET ~71:Array Technologies, Inc., 3901 Midway Place NE, ALBUQUERQUE 87109, NM, USA, United States of America ~72: ADDINK, Jason;CHASE, Andrew;CREASY, Lucas;SCHUKNECHT, Nathan~ 33:US ~31:63/022,319 ~32:08/05/2020;33:US ~31:17/315,285 ~32:08/05/2021

2025/00949 ~ Provisional ~54:MILK REPLACER FORMULATIONS WITH ENHANCED CARBOHYDRATE CONTENT FOR IMPROVED GROWTH PERFORMANCE AND COST EFFICIENCY IN PRE-RUMINANT MAMMALS ~71:NHP Global Group, Inc, 4650 Lipscomb St, Palm Bay,, United States of America ~72: GROENEWALD, PIETER WILLEM NICOLAAS~

2025/00953 ~ Provisional ~54:ANGULARLY ADJUSTABLE CONNECTOR ~71:COBA BIOMEDICAL (PTY) LTD., Unit 5, 23 President Steyn Street, Westdene, Bloemfontein, 9301, South Africa ~72: HENRY WYNAND HUYSAMEN;WILLIAM ALLAN KINNEAR~

2025/00956 ~ Complete ~54:METHODS FOR INHIBITING ANGIOGENESIS IN A SUBJECT IN NEED THEREOF ~71:Omeros Corporation, 201 Elliott Avenue West, SEATTLE 98119, WA, USA, United States of America;University of Leicester, University Road, LEICESTER LE1 7RF, LEICESTERSHIRE, UNITED KINGDOM, United Kingdom ~72: DEMOPULOS, Gregory A.;DUDLER, Thomas;SCHWAEBLE, Hans-Wilhelm;TJOELKER, Larry~ 33:US ~31:62/315,857 ~32:31/03/2016

2025/00967 ~ Complete ~54:K-NET DEVICE AND K-NET ~71:GALACTIC TELECOM GROUP, LLC, 940 Thayer Avenue, Suite 7164, United States of America ~72: KAKAIRE, James Kirunda~ 33:US ~31:63/367,436 ~32:30/06/2022

2025/00972 ~ Complete ~54:SORTILIN MODULATORS ~71:Vesper Bio ApS, Hauser Plads 10,4., KØBENHAVN K 1127, DENMARK, Denmark ~72: CASES-THOMAS, Manuel Javier;KJØLBY, Mads Fuglsang;LITTLE, Paul Brian;NYKJÆR, Anders~ 33:EP ~31:22193792.3 ~32:02/09/2022

2025/00978 ~ Complete ~54:120-KG-GRADE ULTRAHIGH-STRENGTH GALVANIZED STEEL SHEET AND MANUFACTURING METHOD THEREFOR ~71:Baoshan Iron & Steel Co., Ltd., No. 885, Fujin Road, Baoshan District, SHANGHAI 201900, CHINA (P.R.C.), People's Republic of China ~72: BI, Wenzhen;CHEN, Meng;WANG, Li;ZHONG, Yong~ 33:CN ~31:202210759562.9 ~32:30/06/2022

2025/00979 ~ Complete ~54:PHOTOVOLTAIC MODULE MOUNT ~71:Array Tech, Inc., 3901 Midway Place NE, ALBUQUERQUE 87109, NM, USA, United States of America ~72: DE FRESART, Benjamin C.;SCHUKNECHT, Nathan~ 33:US ~31:17/816,692 ~32:01/08/2022

2025/00984 ~ Complete ~54:METHOD AND KIT FOR DETECTING SINGLE NUCLEOTIDE POLYMORPHISMS (SNP) BY LOOP-MEDIATED ISOTHERMAL AMPLIFICATION (LAMP) ~71:MAST GROUP LIMITED, Mast House, Derby Road, Liverpool, Merseyside, L20 1EA, United Kingdom ~72: ELIZABETH ANN GILLIES;MONIKA SUWARA~ 33:GB ~31:2210921.9 ~32:26/07/2022

2025/00977 ~ Complete ~54:100 KG-GRADE ULTRAHIGH-STRENGTH GALVANIZED STEEL SHEET AND MANUFACTURING METHOD THEREFOR ~71:Baoshan Iron & Steel Co., Ltd., No.885, Fujin Road, Baoshan District, SHANGHAI 201900, CHINA (P.R.C.), People's Republic of China ~72: BI, Wenzhen;CHEN, Meng;WANG, Li;ZHONG, Yong~ 33:CN ~31:202210759473.4 ~32:30/06/2022

2025/00983 ~ Complete ~54:ANTI-TL1A ANTIBODY FORMULATIONS ~71:CEPHALON LLC, 145 Brandywine Parkway, West Chester, Pennsylvania, 19380, United States of America ~72: SHYAM BHASKERBHAI MEHTA~ 33:US ~31:63/369,638 ~32:27/07/2022

2025/00986 ~ Complete ~54:SYSTEM FOR RECOGNISING CAPSULES IN BEVERAGE DISPENSING MACHINES ~71:G.B. PROGETTI S.R.L., Piazza Cornaggia Medici 50, 27055, Rivanazzano Terme (PAVIA), Italy ~72: ALBERTO ROLLA~ 33:IT ~31:102022000016548 ~32:03/08/2022

2025/00955 ~ Complete ~54:DISTRIBUTION BOARD WITH INTEGRATED BACKUP POWER ~71:OOSTHUIZEN, Hendrik Jacobus, 45 Pauline Street, Constantia Kloof, South Africa ~72: OOSTHUIZEN, Hendrik Jacobus~ 33:ZA ~31:2023/04948 ~32:03/11/2023

2025/00960 ~ Complete ~54:AN INTELLIGENT SYSTEM AND METHOD FOR AUTOMATED FEATURE EXTRACTION AND SUMMARIZATION OF KEY INFORMATION FROM DATA STREAMS ~71:Deepali Vaijinath Sawane, Assistant Professor, Dr. G. Y. Pathrikar College of Computer Science and Information Technology, MGM University, Chhatrapati Sambhajnagar, 431003, Aurangabad, Maharashtra, India;Dr. Sonali Gaikwad, Assistant Professor, Shri Shivaji Science and Arts college, Chikhli, , 443201, Buldhana, Maharashtra, India;Jyotsna Gaikwad, Assistant Professor, Deogiri College, Aurangabad, 431005, Aurangabad, Maharashtra, India ~72: Deepali Vaijinath Sawane;Dr. Sonali Gaikwad;Jyotsna Gaikwad~

2025/00963 ~ Complete ~54:COMMUNICATION DEVICE AND COMMUNICATION METHOD ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 2050 W 190TH STREET SUITE 450, TORRANCE, CA 90504, USA, United States of America ~72: HORIUCHI, Ayako;KANG, Yang;SUZUKI, Hidetoshi~ 33:JP ~31:2022-128348 ~32:10/08/2022

2025/00948 ~ Provisional ~54:AUGMENTED REALITY/VIRTUAL REALITY SMART CELLULAR PHONE HEADSET WITH REAL TIME 3D MAPPING ~71:AHMED WASEEF SAIB, 24 park avenue desainagar, South Africa ~72: AHMED WASEEF SAIB~

2025/00951 ~ Provisional ~54:HAND-HELD TWO-WAY RADIO DEVICE ~71:SEFEKO (PTY) LTD, First Floor, Building D, The Woods, 41 De Havilland Crescent, South Africa ~72: MOUTON, Pieter Kossen;VAN BILJON, Bernardus Daniel;VAN BILJON, Cornelis Hendricus;VAN LEEUWEN, Pierre-André~

2025/00954 ~ Provisional ~54:WATER SAVING METHORDS ~71:Gerhard Jacques Cloete, 112b Norhdene rd, South Africa ~72: Gerhard Jacques Cloete~

2025/00958 ~ Complete ~54:METHODS FOR RENAL FUNCTION DETERMINATION ~71:MediBeacon Inc., 1100 Corporate Square Drive, Helix Center, Suite 175, ST. LOUIS 63132, MO, USA, United States of America ~72: DORSHOW, Richard B.;NEUMANN, William L.;RAJAGOPALAN, Raghavan;ROGERS, Thomas E.~ 33:US ~31:62/577,951 ~32:27/10/2017

2025/00966 ~ Complete ~54:NECTIN-4 MINIPROTEIN CONJUGATES ~71:AKTIS ONCOLOGY, INC., 17 Drydock Avenue, Suite 17-401, United States of America ~72: BLACKWELL, III, William C.;FELDMAN, Paul L.;GOBER, Isaiah Nathaniel;GOODMAN, Brian;KIL, Hyun Joo;RODEN, Matthew;SRIVASTAVA, Ved~ 33:US ~31:63/359,146 ~32:07/07/2022

2025/00971 ~ Complete ~54:OBSTACLE AVOIDANCE TRAJECTORY FOR A MINING VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: HYYPPÄ, Samuel;LIIKANEN, Henri;PUURA, Jussi;VON ESSEN, Tomi~ 33:EP ~31:22190812.2 ~32:17/08/2022

2025/00980 ~ Complete ~54:METHOD FOR OPERATING A SMELTING FURNACE INSTALLATION ~71:Paul Wurth S.A., 32, rue d'Alsace, LUXEMBOURG 1122, LUXEMBOURG, Luxembourg ~72: BANIASADI, Mehdi;DELIKONSTANTIS, Evangelos;DIDELON, Fernand;JI, Jihong;KINZEL, Klaus Peter~ 33:DE ~31:10 2022 121 807.4 ~32:29/08/2022;33:LU ~31:LU502718 ~32:29/08/2022

2025/00989 ~ Complete ~54:LOW NOISE AND ANTI-CAVITATION ROTARY CONTROL VALVE ~71:BRAY INTERNATIONAL, INC., 13333 Westland E Blvd., Houston, Texas, 77041, United States of America ~72: MATHEW VARGHESE;PRAMOD B KUMAR;SARATH KS;SREEHARSHA PARAMASHIVIAIAH~ 33:US ~31:63/392,301 ~32:26/07/2022

- APPLIED ON 2025/01/30 -

2025/01000 ~ Complete ~54:BAKING WITH THERMOSTABLE AMYLOGLucosidase (AMG) VARIANTS (EC 3.2.1.3) AND LOW ADDED SUGAR ~71:Novozymes A/S, Krogshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark ~72: LUNDKVIST, Henrik;VARMING, Camilla~ 33:EP ~31:22193510.9 ~32:01/09/2022

2025/01005 ~ Complete ~54:OBSTACLE DETECTION FOR A MINING VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: PUURA, Jussi;SANERMA, Simo;VON ESSEN, Tomi~ 33:EP ~31:22190805.6 ~32:17/08/2022

2025/01010 ~ Complete ~54:PLATED STEEL SHEET ~71:Nippon Steel Corporation, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 1008071, JAPAN, Japan ~72: ISHII , Kotaro;MITSUNOBU , Takuya;TOKUDA , Kohei;URANAKA , Masaaki~ 33:JP ~31:2022-130521 ~32:18/08/2022

2025/00994 ~ Complete ~54:BOLTING HEAD, BOLTING RIG AND METHOD ~71:Sandvik Mining and Construction Lyon SAS, 19 Avenue Maréchal de Lattre de Tassigny Z.I., MEYZIEU 69330, FRANCE, France ~72: COMBE, Christel;IEHLE, Arsène;POURCENOUX, Jérôme~ 33:EM ~31:24315041.4 ~32:06/02/2024

2025/00998 ~ Complete ~54:COMPUTER-IMPLEMENTED SERVICE PROVIDER PLATFORM ~71:Bright Teeth with Dr Bafana (Pty) Ltd, F120 Osizweni, South Africa ~72: SIBANYONI, Vusumuzi Isaac~ 33:ZA ~31:2024/00973 ~32:30/01/2024

2025/01002 ~ Complete ~54:SECURED APPLICATION-TO-PERSON SMS MESSAGING ~71:Anam Technologies Ltd, 3 Custom House Plaza, IFSC / North Dock, DUBLIN D01 VY76, IRELAND, Ireland ~72: CAHILL, Martin;LOOI, Kwok Onn~ 33:EP ~31:22186458.0 ~32:22/07/2022

2025/01009 ~ Complete ~54:METHODS AND SYSTEMS FOR TRANS-CERVICAL DELIVERY OF AGENTS ~71:Oregon Health & Science University, 3181 SW Sam Jackson Park Road, Mail Code L106TT, PORTLAND 97239, OR, USA, United States of America ~72: GUO, Jian;JENSEN, Jeffrey;LEUNG, Philberta;SLAYDEN, Ov~ 33:US ~31:63/388,375 ~32:12/07/2022

2025/00999 ~ Complete ~54:ONE-TUBE RT-QPCR FULLY PREMIXED REACTION REAGENT, USE, AND RT-QPCR METHOD ~71:SHANGHAI BIOGERM MEDICAL TECHNOLOGY CO., LTD.,

1303,1304,1305,1306,1307,1309, Building 3, No.1588, Shanghai-Hangzhou Highway, Fengxian District, People's Republic of China ~72: GU, Dongdong;HOU, Qiaoli;MA, Binheng;ZHAO, Baihui~ 33:CN
~31:CN202211045852.3 ~32:30/08/2022

2025/01003 ~ Complete ~54:BAKING WITH THERMOSTABLE AMG GLUCOSIDASE VARIANTS (EC 3.2.1.3) AND LOW OR NO ADDED EMULSIFIER ~71:Novozymes A/S, Krogshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark ~72: LUNDKVIST, Henrik;VARMING, Camilla~ 33:EP ~31:22193506.7 ~32:01/09/2022

2025/01004 ~ Complete ~54:A METHOD FOR PREPARING A BAKED PRODUCT WITH REDUCED FAT ~71:Novozymes A/S, Krogshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark ~72: AKBAR, Sajid;KUMAR, Jusci~ 33:IN ~31:202241051427 ~32:08/09/2022

2025/00991 ~ Provisional ~54:PORTABLE SOLAR GEYSER (NATURAL CONVECTION) ~71:THOMAS ARNOLDES DU TOIT, DRANKENSBERG VILLA UNIT 14, South Africa ~72: THOMAS ARNOLDES DU TOIT~

2025/00993 ~ Provisional ~54:TENSION INDICATOR DEVICE ~71:NIXON, Timothy Edward Piggott, 37 Company Road, Mrandi, CENTURION 0149, Gauteng, SOUTH AFRICA, South Africa ~72: NIXON, Timothy Edward Piggott~

2025/00996 ~ Complete ~54:OPTICAL FLOW BASED VIDEO INTER PREDICTION ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: A, Jeeva Raj;KOTECHA, Sagar;SETHURAMAN, Sriram~ 33:IN ~31:201931010751 ~32:19/03/2019

2025/01006 ~ Complete ~54:TRIAZINONE DERIVATIVES AS NLRP3 INHIBITORS ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BOUCHE, Lea Aurelie;GUBA, Wolfgang;JAESCHKE, Georg;MESCH, Stefanie Katharina;SHANNON, Jonathan Martin;STEINER, Sandra;TOSSTORFF, Andreas Michael~ 33:EP ~31:22206271.3 ~32:09/11/2022

2025/01008 ~ Complete ~54:NOVEL COMPOUNDS AS MODULATORS OF NLRP3 INHIBITION ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BOUCHE, Lea Aurelie;GUBA, Wolfgang;JAESCHKE, Georg;JOHNSTON, Heather Jennifer;MESCH, Stefanie Katharina;SHANNON, Jonathan Martin;STEINER, Sandra~ 33:EP ~31:22211843.2 ~32:07/12/2022;33:EP ~31:23173506.9 ~32:16/05/2023

2025/01007 ~ Complete ~54:TRIAZINONE DERIVATIVES AS NLRP3 INHIBITORS ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BOUCHE, Lea Aurelie;GUBA, Wolfgang;JAESCHKE, Georg;MESCH, Stefanie Katharina;SHANNON, Jonathan Martin~ 33:EP ~31:22206287.9 ~32:09/11/2022

2025/00992 ~ Provisional ~54:INTELLIGENT MUSICAL KEYBOARD MODULE ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: RADEMAN, Marco;VENTER, Mike;WOLMARANS, Wikus~

2025/00995 ~ Complete ~54:OPTICAL FLOW BASED VIDEO INTER PREDICTION ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: A, Jeeva Raj;KOTECHA, Sagar;SETHURAMAN, Sriram~ 33:IN ~31:201931010751 ~32:19/03/2019

2025/00997 ~ Complete ~54:BENZOAZEPIN OXAZOLIDINONE COMPOUNDS AND METHODS OF USE ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72:

BRAUN, Marie-Gabrielle;ELLIOTT, Richard;HANAN, Emily;HEALD, Robert Andrew;MACLEOD, Calum;STABEN, Steven T.~ 33:US ~31:62/188,029 ~32:02/07/2015

2025/01001 ~ Complete ~54:MIXING CHAMBER ~71:Productos Citrosol, S.A., Partida Alameda, Parcela C, POTRIES (VALENCIA) 46721, SPAIN, Spain ~72: DOMÍNGUEZ CASCANT, Raul;ISNARDO MORANT, María José;MORATAL MARTÍ, Francesc;MOTTURA LERDA, Martín Carlos;ORTEGA NAVARRO, Jesus;PARRA CARBONELL, Javier~ 33:ES ~31:P202230656 ~32:15/07/2022

- APPLIED ON 2025/01/31 -

2025/01012 ~ Provisional ~54:A VALVE SYSTEM FOR THE CONTROL OF LIQUID FLOW IN A MICROFLUIDIC CHANNEL ON A LAB-ON-CHIP DEVICE ~71:CSIR, Scientia, Meiring Naude Road, Brummeria, Pretoria, 0184, South Africa ~72: MANFRED RUDOLF SCRIBA;MASIBULELE TIMOTHY KAKAZA~

2025/01017 ~ Complete ~54:INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION TECHNIQUES WITH REDUCED POST-PROCESSING DELAY ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg 1-35, 1101 CN, Amsterdam Zuid Oost, Netherlands ~72: HEIKO PURNHAGEN;KRISTOFER KJOERLING;LARS VILLEMOES;PER EKSTRAND~ 33:US ~31:62/662,296 ~32:25/04/2018

2025/01041 ~ Complete ~54:USE OF MANGANESE-CONTAINING COMPOUND IN REDUCING LEVEL OF URIC ACID OF MAMMALIAN SUBJECT ~71:Shanghai Shiqu Pharmaceutical Technology Co., Ltd., Suite 103, Building 4, 1588 Lian Hang Road, (Courtyard 18/29, Lane 481, Pujiang Town, Minhang District), Minhang District, SHANGHAI 201114, CHINA (P.R.C.), People's Republic of China ~72: ZENG, Xiaodong;ZHANG, Shiyi;ZHAO, Xin~ 33:IB ~31:2022/106050 ~32:15/07/2022

2025/01048 ~ Complete ~54:NUCLEAR FUEL CHARGING/DISCHARGING AND POSITION AUTOMATIC TRACKING SYSTEM AND METHOD ~71:Shanghai Nuclear Engineering Research & Design Institute Co., Ltd., No. 29 Hongcao Road, Xuhui District, SHANGHAI 200233, CHINA (P.R.C.), People's Republic of China ~72: DANG, Halei;HAO, Haoran;HONG, Qian;SHEN, Yanrong;WU, Guikai;YANG, Bo;YANG, Qingxiang~ 33:CN ~31:202210956195.1 ~32:10/08/2022

2025/01013 ~ Provisional ~54:OPTICAL COMMUNICATION ~71:Ahlers, David, Chris Hani Street, South Africa ~72: AHLERS, David~

2025/01020 ~ Complete ~54:INSTALLATION AND METHOD FOR AUTOMATICALLY DETERMINING THE SEX OF A CHICK ~71:Egg-Chick Automated Technologies, Zone Industrielle de Keriell-Penhoat, 364 Rue Magellan, PLOUEDERN 29800, FRANCE, France ~72: CHANU, Romaric;SALAUN, Damien~ 33:FR ~31:2401671 ~32:20/02/2024

2025/01025 ~ Complete ~54:NOVEL BINDING MOLECULES BINDING TO L1CAM ~71:DEUTSCHES KREBSFORSCHUNGSZENTRUM STIFTUNG DES ÖFFENTLICHEN RECHTS, Im Neuenheimer Feld 280, 69120, Heidelberg, Germany;ELTHERA AG, c/o Domizilagentur Baarerstrasse 43, 6300 Zug, Switzerland ~72: ANNETTE SCHMIDT;FLAVIO MEHLI;GERHARD MOLDENHAUER;GUNTHER SPOHN;PETER ALTEVOGT;SANDRA LÜTTGAU~ 33:EP ~31:22196917.3 ~32:21/09/2022

2025/01039 ~ Complete ~54:USES OF BIFIDOBACTERIUM LONGUM TRANSITIONAL MICROORGANISM ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BLANCHARD, Carine;BOULANGE, Claire Laurence Lucie Marie;CAVIN, Jean-Baptiste;HOLVOET, Sébastien;KWONG CHUNG, Cheong Kwet Choy;RAMBOUSEK, Simona~ 33:EP ~31:22183945.9 ~32:08/07/2022;33:EP ~31:22204954.6 ~32:01/11/2022

2025/01018 ~ Complete ~54:OPTICAL FIBER CABLE AND SYSTEM AND METHOD OF DISTRIBUTING ULTRA HIGH POWER USING THE SAME ~71:Maclean, LLC, 3632 Dauphin Street, Suite 101-B, MOBILE 36605 , AL, USA, United States of America ~72: MCKENNA, Edward;WALLACE Jr. , Gerald Leon~ 33:US ~31:63/140,736 ~32:22/01/2021;33:US ~31:63/266,144 ~32:29/12/2021

2025/01019 ~ Complete ~54:IMPLANTS AND METHODS OF USE AND ASSEMBLY ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: BARMES, Frank;DACOSTA, Albert;DOGUÉ, Joseph;LEE, Daniel;OBERT, Richard;PAXSON, Robert David~ 33:US ~31:62/661,945 ~32:24/04/2018

2025/01022 ~ Complete ~54:CONTROLLING CONTAMINANTS DURING FERMENTATION ~71:NEWLEAF SYMBIOTICS, INC., 1005 North Warson Rd., Brdg Park, United States of America ~72: KELLEY, Aaron;NEUMANN, Anthony~ 33:US ~31:63/391,007 ~32:21/07/2022

2025/01031 ~ Complete ~54:A CLEANING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: BALU KUNJUPILLAI;GIRISH MURALIDHARAN;VISHAL MOHAN UDMALE~ 33:EP ~31:22192162.0 ~32:25/08/2022

2025/01032 ~ Complete ~54:DELAMANID-CONTAINING SOLID DISPERSION ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-machi, Chiyoda-ku, Tokyo, 1018535, Japan ~72: ATSUYA NAKAMURA;JUNICHI KAWASAKI~ 33:JP ~31:2022-122027 ~32:29/07/2022

2025/01042 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BAKER, Darryl;KERSEY, Robert~

2025/01023 ~ Complete ~54:PHOTOCATALYST EXTRUSION METHODS, PHOTOCATALYST EXTRUDATES, AND PHOTOREACTORS EMPLOYING PHOTOCATALYST EXTRUDATES ~71:SYZYGY PLASMONICS INC., 3250 South Sam Houston Parkway East, United States of America ~72: CHAPMAN, Jonathan Morris;HERRERA GUTIERREZ, Danniela Cristina;KHATIWADA, Suman;METTU, Anilkumar;ROBATJAZI, Hossein;SHADABIPOUR, Parisa;SHAH, Shreya~ 33:US ~31:63/392,848 ~32:27/07/2022

2025/01043 ~ Complete ~54:WATER ELECTROLYSIS SYSTEM AND METHOD ~71:VERNET VACCHIANI, Martin Ruben, Heine 230, Villa del Lago, VILLA CARLOS PAZ CP 5152, ARGENTINA, Argentina;VERNET, Lourdes, 6 Fairfax Circle, SHREWSBURY 17361, PA, USA, United States of America ~72: CAPELLO, Jorge Adrián;VERNET VACCHIANI, Martin Ruben~

2025/01045 ~ Complete ~54:3-ETHYLAMINO-INDOLE DIMERS AS SEROTONERGIC AGENTS USEFUL FOR THE TREATMENT OF DISORDERS RELATED THERETO ~71:Mindset Pharma Inc., 217 Queen Street West, Suite 401, TORONTO M5V 0R2, ONTARIO, CANADA, Canada ~72: ARAUJO, Joseph A.;SLASSI, Abdelmalik~ 33:US ~31:63/395,499 ~32:05/08/2022

2025/01027 ~ Complete ~54:A DETERGENT SHEET ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GIRISH MURALIDHARAN;VISHAL MOHAN UDMALE~ 33:EP ~31:22192164.6 ~32:25/08/2022

2025/01037 ~ Complete ~54:HOT ROLLING WITH RESIDUAL ELEMENTS ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Ronan JACOLOT;Thierry IUNG~ 33:IB ~31:PCT/IB2022/058704 ~32:15/09/2022

2025/01036 ~ Complete ~54:DATA SPLITTING FOR MULTI-PATH TRANSMISSIONS ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: LIN CHEN;MENGZHEN WANG;TAO QI;WANFU XU;WEIQIANG DU~

2025/01050 ~ Complete ~54:CRYSTAL FORM OF PYRAZOLOPYRIMIDINE ESTER COMPOUND AND PREPARATION METHOD THEREFOR ~71:Shanghai Maius Pharmaceutical Co. Ltd., Room 913, Building 1, No.515, Huanke Road, Pudong New Area, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: GUO, Yekun;HU, Xiang;HUANG, Dujian;SHI, Mingfeng~ 33:CN ~31:202210984692.2 ~32:17/08/2022

2025/01034 ~ Complete ~54:A DETERGENT SHEET ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GIRISH MURALIDHARAN;VISHAL MOHAN UDMALE~ 33:EP ~31:22192160.4 ~32:25/08/2022

2025/01040 ~ Complete ~54:PEBBLE BED BEAM CONVERTER ~71:Northstar Medical Technologies, LLC, 1800 Gateway Blvd., BELOIT 53511, WI, USA, United States of America ~72: DANIELS, Melissa;MUELLER, Bryant;SISSON, Richard~ 33:US ~31:63/398,107 ~32:15/08/2022

2025/01046 ~ Complete ~54:ANTI-VIRAL COMPOUNDS ~71:Infex Therapeutics Limited, Mereside, Alderley Park, MACCLESFIELD SK10 4TG, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: BLADES, Kevin;BUNT, Adam;COOPER, Ian;KIRKHAM, James;LYTH, David;ORR, David;SMITH, Oliver;WILKINSON, Andrew~ 33:GB ~31:2213400.1 ~32:13/09/2022;33:GB ~31:2307524.5 ~32:19/05/2023

2025/01047 ~ Complete ~54:TREATMENT OF URTICARIA USING JAK INHIBITORS ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: BROWN, Kurt Andrew;DOS SANTOS, Leandro Luiz;IYENGAR, Vijay Krishna;LEE, James;SAILER, Cornelius P.;SMITH, Susan Harless~ 33:US ~31:63/395,613 ~32:05/08/2022

2025/01051 ~ Complete ~54:COPOLYMER AND ITS USE AS COATING ~71:ETH ZUERICH, Raemistrasse 101 / ETH Transfer, 8092, Zuerich, Switzerland;UNIVERSITA DEGLI STUDI DI MILANO, Via Festa del Perdono, 7, 20122, Milano, Italy ~72: CASERI, Walter Remo;D'ELIA, Marco Francesco;MAGNI, Mirko;NIEDERBERGER, Markus Josef;TRASATTI, Stefano Pierpaolo Marcello~ 33:EP ~31:22425031.6 ~32:20/07/2022

2025/01011 ~ Provisional ~54:SMITH ENERGY REVOLUTION (SER) SYSTEM: WASTE-TO-ENERGY AND CARBON CAPTURE INNOVATION ~71:Ralston Emmanuel Smith, 152 Laezonia, Centurion, South Africa ~72: Ralston Emmanuel Smith~ 33:SZ ~31:January2025 ~32:30/01/2025;33:US ~31:63/751,853 ~32:30/01/2025

2025/01033 ~ Complete ~54:1-(NAPHTHALEN-2-YL)-3-AZABICYCLO[3.1.0]HEXANE FOR TREATING MAJOR DEPRESSIVE DISORDER ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-machi, Chiyoda-ku, Tokyo 1018535, Japan ~72: BRIAN ROTHMAN;EVA KOHEGYI~ 33:US ~31:63/403,624 ~32:02/09/2022

2025/01038 ~ Complete ~54:INFORMATION PROCESSING DEVICE AND METHOD ~71:Sony Group Corporation, 1-7-1, Konan, Minato-ku, TOKYO 1080075, JAPAN, Japan ~72: HAYASHI, Kao;KATO, Tsuyoshi;KUMA, Satoru~ 33:JP ~31:2022-166711 ~32:18/10/2022

2025/01044 ~ Complete ~54:PDE4B INHIBITOR AND USE THEREOF ~71:Xizang Haisco Pharmaceutical Co., Ltd., Xingfu Jiayuan Economic Development Zone, Jieba Town, Naidong District, LHOKA 856099, TIBET, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Lei;CHENG, Fengkai;GENG, Pengxin;HUANG, Shuai;LI, Yao;LIN, Xiao;REN, Lei;SHI, Zongjun;TANG, Pingming;WANG, Jie;YAN, Pangke;YANG, Shuang;ZHANG, Chen;ZHANG, Xiaohai~ 33:CN ~31:202210950666.8 ~32:09/08/2022;33:CN ~31:202211075118.1 ~32:02/09/2022;33:CN ~31:202211323499.0 ~32:27/10/2022;33:CN ~31:202211744316.2 ~32:24/11/2022;33:CN ~31:202310041300.3 ~32:12/01/2023;33:CN ~31:202310161801.5

~32:24/02/2023;33:CN ~31:202310269232.6 ~32:20/03/2023;33:CN ~31:202310366104.3
 ~32:07/04/2023;33:CN ~31:202310441682.9 ~32:23/04/2023;33:CN ~31:202310550529.X
 ~32:16/05/2023;33:CN ~31:202310667178.0 ~32:07/06/2023;33:CN ~31:202310911699.6 ~32:25/07/2023

2025/01024 ~ Complete ~54:EPCAM IMMUNOCONJUGATES AND USES THEREOF ~71:CYTOMX THERAPEUTICS, INC., 151 OYSTER POINT BOULEVARD, SUITE 400, SOUTH SAN FRANCISCO, CALIFORNIA 94080, USA, United States of America;IMMUNOGEN, INC., 830 WINTER STREET, WALTHAM, MASSACHUSETTS 02451, USA, United States of America ~72: JING, Chaoran;LIU, Bob, Y.;RANGAN, Vangipuram;SAHA, Sharmistha;WESTIN, Eric Henry~ 33:US ~31:63/388,486 ~32:12/07/2022

2025/01014 ~ Provisional ~54:METHOD OF VERIFYING AUTHORISATION OF A TRANSACTION ASSOCIATED WITH PRODUCTS TO BE RECEIVED BY A VEHICLE ~71:DENNIS VERNON TAYLOR, 21 HILLCREST DRIVE BEACON BAY, South Africa ~72: DENNIS VERNON TAYLOR~

2025/01015 ~ Provisional ~54:WOVEN AND NON-WOVEN TEXTILE PRODUCTS AND FABRICS WITH CAPABILITIES FOR THE SLOW RELEASE OF NATURAL BIOACTIVES ~71:African Applied Chemical (Pty) Ltd, Lot BBLF01, Biopark Building, The Innovation Hub, 1 Mark Shuttleworth Road,, South Africa;Applied Protein Biotechnologies (Pty) Ltd, 530 Jessie Collins street, South Africa ~72: Alexander Zawaira;Mthokozisi Sibanda;Stephanus Marais~

2025/01028 ~ Complete ~54:SARS-COV2 MAIN PROTEASE INHIBITORS ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, California, 94404, United States of America ~72: CHRISTOPHER J SWANK;DEVAN NADUTHAMBI;EDA Y CANALES;GREGORY F CHIN;HENOK H KINFE;JASON K PERRY;JESSICA L MCKINLEY;JOSHUA J VAN VELDHUIZEN;KEVIN X RODRIGUEZ;MICHAEL R MISH;SCOTT D SCHROEDER;SCOTT E LAZERWITH;STEPHEN E AMMANN;WENG K CHANG;XINPEI CAI~ 33:US ~31:63/370,629 ~32:05/08/2022;33:US ~31:63/375,522 ~32:13/09/2022;33:US ~31:63/476,359 ~32:20/12/2022;33:US ~31:63/482,750 ~32:01/02/2023;33:US ~31:63/486,156 ~32:21/02/2023;33:US ~31:63/508,350 ~32:15/06/2023

2025/01029 ~ Complete ~54:PROCESS AND APPARATUS FOR THE EVALUATION OF VALUABLE METALS IN ELECTRONIC SCRAP ~71:UMICORE, Rue du Marais 31, 1000, Brussels, Belgium ~72: JORIS LAUWERS;MAARTEN SPRENGERS;STEVEN ART~ 33:EP ~31:22189478.5 ~32:09/08/2022

2025/01049 ~ Complete ~54:GAS INJECTOR FOR SHAFT INJECTION IN A BLAST FURNACE ~71:Paul Wurth S.A., 32, rue d'Alsace, LUXEMBOURG 1122, LUXEMBOURG, Luxembourg ~72: DE GRUITER, Christian;KINZEL, Klaus Peter;KRÄMER, Philipp~ 33:LU ~31:502720 ~32:29/08/2022

2025/01016 ~ Complete ~54:INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION TECHNIQUES WITH REDUCED POST-PROCESSING DELAY ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg 1-35, 1101 CN, Amsterdam Zuid Oost, Netherlands ~72: HEIKO PURNHAGEN;KRISTOFER KJOERLING;LARS VILLEMOES;PER EKSTRAND~ 33:US ~31:62/662,296 ~32:25/04/2018

2025/01021 ~ Complete ~54:REMOTE ONBOARDING SYSTEM ~71:CAPITEC BANK LIMITED, 5 Neutron Road, Techno Park, South Africa ~72: BOTHA, Amrei;BRITTAN, Gillian;LEMBETHE, Sithembile;MAHUNGU, Ntsakisi;MAPHALA, Lawrence;MASHELE, Zandile;MBABALA, Mnoneleli;MFEKA, Shanice;MOGALE, Miemie;MURANGARI, Mary-Anne;RAMMANAWAR, Ashveer;SMIT, Coetzee;TSHUMA, Lingani~ 33:ZA ~31:2023/10302 ~32:06/11/2023

2025/01026 ~ Complete ~54:ANTI-TROP2 ANTIBODY AND CONJUGATE THEREOF ~71:GENEQUANTUM HEALTHCARE (SUZHOU) CO., LTD., 5th Floor, Building D, No. 398, Ruoshui Rd., Suzhou Industrial Park, Suzhou, Jiangsu, 215123, People's Republic of China ~72: DONG YANG;GANG QIN;HANWEN XU;MINGYU

HU;PAUL H. SONG;YAJUN SUN~ 33:CN ~31:PCT/CN2022/106014 ~32:15/07/2022;33:CN
~31:PCT/CN2023/086107 ~32:04/04/2023;33:CN ~31:PCT/CN2023/088115 ~32:13/04/2023

2025/01030 ~ Complete ~54:ROTARY TELESCOPIC HANDLER ~71:MAGNI REAL ESTATE S.R.L., Via
Vespucci, 2, 41013, Castelfranco Emilia, Italy ~72: RICCARDO MAGNI~ 33:IT ~31:102022000016590
~32:04/08/2022

2025/01035 ~ Complete ~54:SYSTEM FOR SYNCING A HARVESTER WITH AN AUTONOMOUS GRAIN CART
~71:RAVEN INDUSTRIES, INC, P.O. Box 5107, Sioux Falls, South Dakota, 57117-5107, United States of
America ~72: ALEX JOHN WEIDENBACH;BRANDON JOSEPH ROTH;GUSTAVO DE ALMEIDA
MARTINS;JACOB DAVID DEINES;JOEL JARED KOCER;KOBY KEVIN JACKSON;MATTHEW K
RUST;MATTHEW MICHAEL ROTTINGHAUS~ 33:US ~31:63/369,127 ~32:22/07/2022

- APPLIED ON 2025/02/03 -

2025/01052 ~ Provisional ~54:PORTABLE COOKER ~71:Richard Douglas Chadwick, 2098, Way 2242, Oman
~72: Richard Chadwick~

2025/01053 ~ Provisional ~54:AUTOMATED MACHINE FOR MANUFACTURING SELF-CLEANSING PADS
AND DIAPER ~71:MULWELI SIGABE, 620 VYEBOOM, VUWANI, South Africa ~72: MULWELI SIGABE~

2025/01055 ~ Provisional ~54:GOLD-BACKED, DIGITALLY INTEGRATED POWER PURCHASE AGREEMENT
SYSTEM FOR RENEWABLE ENERGY FINANCING ~71:Kamir Lala, 163 Bree Street, South Africa ~72: Kamir
Lala~

2025/01058 ~ Complete ~54:QUADRATIC OPTIMAL CONTROL METHOD AND SYSTEM FOR
PHOTOVOLTAIC POWER SUPPLY SYSTEM BASED ON FIXED TIME CONSISTENCY ~71:HARBIN
INSTITUTE OF TECHNOLOGY, No. 92 Xidazhi St., Nangang Harbin, People's Republic of China ~72: HE,
Junbiao;NING, Jiangming;WANG, Yanmin;XU, Qingyun~ 33:CN ~31:202411648875.2 ~32:19/11/2024

2025/01059 ~ Complete ~54:BINDING MOLECULES FOR THE TREATMENT OF CANCER ~71:BOEHRINGER
INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: GARCIA-MARTINEZ, Juan,
Manuel;GLASER, Stephan;HANSEN, Gale Lee;KASTURIRANGAN, Srinath;KUENKELE, Klaus-Peter;VOYNOV,
Vladimir H.;WERNITZNIG, Andreas;ZHENG, Chao~ 33:EP ~31:22185100.9 ~32:15/07/2022

2025/01060 ~ Complete ~54:NOTCHED OPENER DISCS ~71:PRECISION PLANTING LLC, 23207 Townline
Road, Tremont, United States of America ~72: HODEL, Jeremy;SOLBERG, Jordan Charles~ 33:US
~31:63/375,139 ~32:09/09/2022;33:US ~31:63/375,143 ~32:09/09/2022;33:US ~31:63/385,568
~32:30/11/2022;33:US ~31:63/434,649 ~32:22/12/2022;33:US ~31:63/434,659 ~32:22/12/2022;33:US
~31:63/434,667 ~32:22/12/2022

2025/01065 ~ Complete ~54:SEEDING SYSTEM ~71:PRECISION PLANTING LLC, 23207 Townline Road,
Tremont, United States of America ~72: HODEL, Jeremy;SOLBERG, Jordan Charles~ 33:US ~31:63/375,139
~32:09/09/2022;33:US ~31:63/375,143 ~32:09/09/2022;33:US ~31:63/385,568 ~32:30/11/2022;33:US
~31:63/434,649 ~32:22/12/2022;33:US ~31:63/434,659 ~32:22/12/2022;33:US ~31:63/434,667
~32:22/12/2022

2025/01066 ~ Complete ~54:SEEDING SYSTEM ~71:PRECISION PLANTING LLC, 23207 Townline Road,
Tremont, United States of America ~72: DILLE, Mitchell R;HODEL, Jeremy~ 33:US ~31:63/375,139
~32:09/09/2022;33:US ~31:63/375,143 ~32:09/09/2022;33:US ~31:63/385,568 ~32:30/11/2022;33:US

~31:63/434,649 ~32:22/12/2022;33:US ~31:63/434,659 ~32:22/12/2022;33:US ~31:63/434,667
~32:22/12/2022

2025/01068 ~ Complete ~54:HOT ROLLING WITH RESIDUAL ELEMENTS ~71:ARCELORMITTAL, 24-26
Boulevard d'Avranches, Luxembourg ~72: Ronan JACOLOT;Thierry IUNG~ 33:IB ~31:PCT/IB2022/058708
~32:15/09/2022

2025/01074 ~ Complete ~54:AN HDAC INHIBITOR FOR TREATING CANCER WITH A MODIFIED STK11
ACTIVITY OR EXPRESSION ~71:TANGO THERAPEUTICS, INC., 201 Brookline Ave, Suite 901, Boston,
Massachusetts, 02215, United States of America ~72: CHENGYIN MIN;LEANNE G AHRONIAN~ 33:US
~31:63/395,503 ~32:05/08/2022;33:US ~31:63/422,723 ~32:04/11/2022;33:US ~31:63/490,217
~32:14/03/2023;33:US ~31:63/496,290 ~32:14/04/2023

2025/01075 ~ Complete ~54:FUNGICIDE COMPOSITION ~71:UPL Limited, UPL House, 610 B/2, Bandra
Village, Off Western Express Highway, Bandra-East, MUMBAI 400 051, MAHARASHTRA, INDIA, India ~72:
DESAI, Sujata Dhondiram;PATIL, Samadhan~ 33:IN ~31:202221038377 ~32:04/07/2022

2025/01076 ~ Complete ~54:CONTINUOUS HYDRODEOXYGENATION OF LIGNIN TO JET-RANGE
AROMATIC HYDROCARBONS ~71:Alliance for Sustainable Energy, LLC, c/o National Renewable Energy
Laboratory, 15013 Denver West Parkway, GOLDEN 80401, CO, USA, United States of America;Massachusetts
Institute of Technology, 77 Massachusetts Avenue, CAMBRIDGE 02139, MA, USA, United States of America
~72: BECKHAM, Gregg Tyler;ROMAN, Yuriy;STONE, Michael L.;WEBBER, Matthew S.~ 33:US ~31:63/395,067
~32:04/08/2022

2025/01078 ~ Provisional ~54:UNIBOUND ~71:ANDREW BILLA KLEIN, R2216 KLIPGAT, NEW STAND, South
Africa ~72: ANDREW BILLA KLEIN~

2025/01079 ~ Provisional ~54:MULTIVERSE ~71:ANDREW BILLA KLEIN, R2216 KLIPGAT, NEW STAND,
South Africa ~72: ANDREW BILLA KLEIN~

2025/01054 ~ Provisional ~54:HOLLOW ROCK BOLT SYSTEM ~71:Theodore Daniel Swemmer, PO Box 75746,
South Africa ~72: Theodore Daniel Swemmer~

2025/01071 ~ Complete ~54:PROCESS FOR PREPARING A HIGH-PURITY NICKEL SULPHATE SOLUTION
~71:UMICORE, 31, Rue du Marais, 1000, Brussels, Belgium ~72: JAN LUYTEN;JORIS ROOSEN;WANNES DE
MOOR;WERNER VERDICKT~ 33:EP ~31:22191867.5 ~32:24/08/2022

2025/01056 ~ Provisional ~54:AUTOMATED PERFUME FORMULATION AND PRODUCTION SYSTEM WITH
INTEGRATED ASSESSMENT AND QUALITY CONTROL ~71:The Perfume Movement FZE, Sheikh Rashid
Tower, Dubai World Trade Centre. HD-203, 23rd Floor, United Arab Emirates ~72: ALZEERA, Ameer
Mahmood;ELIZUR, Roy;HOOPER, Lionel Andrew;HOULSBY, Paul Thomas;JACOBI, Ori;MERKAZY,
Ran;ROSENZWEIG, Arnon;SADOT, Avner~

2025/01069 ~ Complete ~54:BISPECIFIC ANTI-C-KIT AND ANTI-CD203C ANTIGEN-BINDING MOLECULES
AND USES THEREOF ~71:GRANULAR THERAPEUTICS LIMITED, c/o Kreston Reeves LLP, Innovation House,
Ramsgate Road, Sandwich, CT13 9FF, United Kingdom ~72: ORLA MARGARET CUNNINGHAM;WILLIAM
JAMES JONATHAN FINLAY~ 33:US ~31:63/393,036 ~32:28/07/2022

2025/01072 ~ Complete ~54:WAVE ENERGY CONVERTER ~71:COLUMBIA POWER TECHNOLOGIES, INC.,
2150 Wise Street, #5702, Charlottesville, Virginia, 22905, United States of America ~72: MICHAEL L
ONDUSKO;PUKHA LENEE-BLUHM;ZHE ZHANG~ 33:US ~31:17/941,101 ~32:09/09/2022

2025/01062 ~ Complete ~54:SEED DELIVERY SYSTEM ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: BAKER, Ryan;HODEL, Jeremy~ 33:US ~31:63/375,139 ~32:09/09/2022;33:US ~31:63/375,143 ~32:09/09/2022;33:US ~31:63/385,568 ~32:30/11/2022;33:US ~31:63/434,649 ~32:22/12/2022;33:US ~31:63/434,659 ~32:22/12/2022;33:US ~31:63/434,667 ~32:22/12/2022

2025/01081 ~ Provisional ~54:MODULAR CONCRETE BLOCK FOR SOLAR PANEL MOUNTING ~71:Synergistec Pty Ltd, 15 Beverley lane, Simbhiti Eco Estate, South Africa ~72: Jeffrey Forte~

2025/01064 ~ Complete ~54:METHOD OF SEED DELIVERY ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HODEL, Jeremy~ 33:US ~31:63/375,139 ~32:09/09/2022;33:US ~31:63/375,143 ~32:09/09/2022;33:US ~31:63/385,568 ~32:30/11/2022;33:US ~31:63/434,649 ~32:22/12/2022;33:US ~31:63/434,659 ~32:22/12/2022;33:US ~31:63/434,667 ~32:22/12/2022

2025/01073 ~ Complete ~54:PHARMACEUTICAL COMPOSITION AND METHOD OF USING SAME ~71:VEGENICS PTY LIMITED, Suite 0403, Level 4, 650 Chapel Street, South Yarra, Victoria, 3141, Australia ~72: ANGUS TESTER;MICHAEL GEROMETTA;OLGA BUCZEK;RU CAO~ 33:US ~31:63/374,366 ~32:01/09/2022

2025/01061 ~ Complete ~54:SEED DELIVERY SYSTEM ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: BAKER, Ryan;HODEL, Jeremy;STRANG, Keith T~ 33:US ~31:63/375,139 ~32:09/09/2022;33:US ~31:63/375,143 ~32:09/09/2022;33:US ~31:63/385,568 ~32:30/11/2022;33:US ~31:63/434,649 ~32:22/12/2022;33:US ~31:63/434,659 ~32:22/12/2022;33:US ~31:63/434,667 ~32:22/12/2022

2025/01070 ~ Complete ~54:A DETERGENT SHEET ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GIRISH MURALIDHARAN;VISHAL MOHAN UDMALE~ 33:EP ~31:22192167.9 ~32:25/08/2022

2025/01080 ~ Provisional ~54:SNAPGUIDE ~71:SAKHILE HOPEWELL NTULI, 1351 EXT 8, EMPUMELWENI, South Africa ~72: SAKHILE HOPEWELL NTULI ~

2025/01057 ~ Provisional ~54:A HEAT EXCHANGER ~71:WILSON, Ross, William, 24 SLOANE STREET, BRYANSTON, 2090, SOUTH AFRICA, South Africa ~72: WILSON, Ross, William~

2025/01063 ~ Complete ~54:SUB-TRENCH OPENER ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HODEL, Jeremy;NOREEN, Trenton~ 33:US ~31:63/375,139 ~32:09/09/2022;33:US ~31:63/375,143 ~32:09/09/2022;33:US ~31:63/385,568 ~32:30/11/2022;33:US ~31:63/434,649 ~32:22/12/2022;33:US ~31:63/434,659 ~32:22/12/2022;33:US ~31:63/434,667 ~32:22/12/2022

2025/01067 ~ Complete ~54:ELECTROLYTIC CELLS, TREATMENT OF WATER, AND METHODS OF USE ~71:ECKELBERRY, Nicholas, 1736 N. Van Ness Ave., Los Angeles, United States of America ~72: AKAGI, Yukio;ECKELBERRY, Nicholas;HOWARD, Talbott~ 33:US ~31:63/358,682 ~32:06/07/2022

2025/01077 ~ Complete ~54:ASSEMBLY FOR THE CONVEYANCE AND UNLOADING OF FRUIT AND VEGETABLE PRODUCTS ~71:Unitec S.p.A., Via Provinciale Cotignola, 20/9, LUGO 48022, ITALY, Italy ~72: BENEDETTI, Luca~ 33:IT ~31:102022000016602 ~32:04/08/2022

- APPLIED ON 2025/02/04 -

2025/01082 ~ Provisional ~54:WIXOM MANGANESE BASED BATTERY ~71:Kuziwa Charles Katso, unit 49 , Golden Oaks Complex, 55 pretoria Road . comet, Boksburg, Gauteng, 1459, South Africa ~72: Kuziwa Charles Katso~

2025/01091 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITION OF KRAS ~71:Lawrence Livermore National Security, LLC, 7000 East Avenue, P.O. Box 808, L-703, LIVERMORE 94550, CA, USA, United States of America;Leidos Biomedical Research, Inc., P.O. Box B 1050, Boyles Street, FREDERICK 21702, MD, USA, United States of America;TheRas, Inc., 1 Corporate Drive, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BRASSARD, Christopher John;CHAN, Albert Hay Wah;LIAO, Tao;LIGHTSTONE, Felice;MACIAG, Anna Elzbieta;PEI, Jun;SIMANSHU, Dharendra Kumar;TURNER, David Michael;WALLACE, Eli;WANG, Bin;WEHN, Paul;XU, Rui;YANG, Yue;ZHANG, Zuhui~ 33:US ~31:63/395,699 ~32:05/08/2022;33:US ~31:63/386,285 ~32:06/12/2022;33:US ~31:63/496,873 ~32:18/04/2023

2025/01095 ~ Complete ~54:GLASS MELTING PROCESS WITH VERY LOW TO ZERO-CO2 EMISSION ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Louvain-la-Neuve, Belgium ~72: BRUNO SYMOENS;FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:22183458.3 ~32:06/07/2022

2025/01101 ~ Provisional ~54:HOFFMAN'S GREENBUILD SOLUTION'S ~71:ASHLEY JONATHAN HOFFMAN I/D 6311025235081, 19 CALCIAM ROAD VANGUARD ESTATE ATHLONE, South Africa ~72: ASHLEY JONATHAN HOFFMAN~

2025/01083 ~ Provisional ~54:ECOCONNECT: A SMART WASTE MANAGEMENT SYSTEM FOR URBAN AND MUNICIPAL WASTE ~71:Ndivhuwo Mathode, 70 Mercury Drive, South Africa ~72: Ndivhuwo Mathode~

2025/01088 ~ Complete ~54:PRESSURE REDUCER ASSEMBLY ~71:Hans Sasserath GmbH & Co. KG, Mühlenstraße 62, KORSCHENBROICH 41352, GERMANY, Germany ~72: HECKING, Willi~ 33:DE ~31:20 2024 100 548.1 ~32:05/02/2024

2025/01092 ~ Complete ~54:MOISTURE-ACTIVATED CHLORINE DIOXIDE-RELEASING POWDER AND METHOD OF MANUFACTURE ~71:Phiex Technologies, Inc., One Boston Place, Suite 2600, BOSTON 02108, MA, USA, United States of America ~72: BARENBERG, Sumner;CAMERON, Robert;TIAN, Xiao~ 33:US ~31:17/882,280 ~32:05/08/2022

2025/01098 ~ Complete ~54:GLASS MELTING PROCESS WITH VERY LOW TO ZERO-CO2 EMISSION ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Louvain-la-Neuve, Belgium ~72: BRUNO SYMOENS;FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:22183454.2 ~32:06/07/2022

2025/01135 ~ Provisional ~54:NAMELA TAXI APP ~71:MOTUBATSE MICKEY MAGOA, 51 Mashupye Street, South Africa ~72: MOTUBATSE MICKEY MAGOA~

2025/01086 ~ Provisional ~54:AN ORAL HYGIENE PRODUCT ~71:FARAGO, Laci Zoltan, 2 Leiden Avenue, Menkenkop, MOSSELBAY 6520, Western Cape, SOUTH AFRICA, South Africa ~72: FARAGO, Laci Zoltan~

2025/01090 ~ Complete ~54:METHODS AND APPARATUS FOR RESOURCE SELECTION AND CONGESTION CONTROL FOR SL-PRS ~71:InterDigital Patent Holdings, Inc., 200 Bellevue Parkway, Suite 300, WILMINGTON 19809, DE, USA, United States of America ~72: DENG, Tao;HASEGAWA, Fumihiko;HOANG, Tuong;LEE, Moon IL;MARINIER, Paul;RAO, Jaya;SHAH, Kunjan~ 33:US ~31:63/395,551 ~32:05/08/2022;33:US ~31:63/421,810 ~32:02/11/2022;33:US ~31:63/445,549 ~32:14/02/2023

2025/01100 ~ Complete ~54:COMPOSITE MESH ~71:LIMITED LIABILITY COMPANY COMPOSITE GROUP CHELYABINSK, Paveletskaya 2nd st., 36, building 1, office 303, g. Chelyabinsk, 454047, Russian Federation ~72: BELIAEV, Oleg Yurievich~ 33:RU ~31:2022121505 ~32:08/08/2022

2025/01085 ~ Provisional ~54:FOLDABLE STORAGE TRAYS ~71:BUDDY TRAY (PTY) LTD., 28 Montebello Avenue, Sunningdale, MILNERTON 7441, Western Cape, SOUTH AFRICA, South Africa ~72: ENGELBRECHT, Morgan Leon;MULLER, Jean-Pierre~

2025/01089 ~ Complete ~54:USE OF A THERAPEUTIC AGENT WITH PHOSPHODIESTERASE-7 INHIBITORY ACTIVITY FOR THE TREATMENT AND PREVENTION OF DISEASES ASSOCIATED WITH CHRONIC FATIGUE, EXHAUSTION AND/OR EXERTIONAL INTOLERANCE ~71:MITODICURE GMBH, Robert-Schuman-Ring 104, Germany ~72: WIRTH, Klaus~ 33:EP ~31:22191022.7 ~32:18/08/2022;33:EP ~31:23160645.0 ~32:08/03/2023

2025/01096 ~ Complete ~54:GLASS MELTING PROCESS WITH VERY LOW TO ZERO-CO2 EMISSION ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Louvain-la-Neuve, Belgium ~72: BRUNO SYMOENS;FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:22183455.9 ~32:06/07/2022

2025/01084 ~ Provisional ~54:SHARPS SAFETY ~71:DU PLOOY, Johann, 7 Bluff Way, Mindarie, Australia ~72: DU PLOOY, Johann~

2025/01093 ~ Complete ~54:HYDRAULIC HOSE LOOM ASSEMBLY ~71:ELM GLOBAL PTE LTD, 133 New Bridge Road, Singapore ~72: JANSE VAN VUUREN, Gert Stephanus;MCMILES, Brett Cambell~ 33:AU ~31:2023903557 ~32:06/11/2023;33:AU ~31:2024900916 ~32:03/04/2024

2025/01094 ~ Complete ~54:GLASS MELTING PROCESS WITH VERY LOW TO ZERO-CO2 EMISSION ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Louvain-la-Neuve, Belgium ~72: BRUNO SYMOENS;FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:22183459.1 ~32:06/07/2022

2025/01099 ~ Complete ~54:METHODS OF TREATING CHRONIC MYELOID LEUKEMIA USING THE TYROSINE KINASE INHIBITOR VODOBATINIB ~71:SUN PHARMA ADVANCED RESEARCH COMPANY LIMITED, 17/B, Mahal Industrial Estate, Off Mahakali Caves Road, India ~72: CHIMOTE, Geetanjali Chandrashekhar;RAMANATHAN, Vikram;TALLURI, Ravi Sankar Prasad~ 33:IN ~31:202221048373 ~32:25/08/2022;33:IN ~31:202221048415 ~32:25/08/2022

2025/01087 ~ Complete ~54:SYSTEM AND METHOD FOR OPERATING A MINING MACHINE WITH RESPECT TO A GEOFENCE USING A DYNAMIC OPERATION ZONE ~71:JOY GLOBAL SURFACE MINING INC., 401 E. Greenfield Avenue, United States of America ~72: MALEGAM, Keshad Darayas~

2025/01097 ~ Complete ~54:ENERGY EFFICIENT AND DURABLE HYBRID GLASS MELTING FURNACE ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Ottignies-Louvain-la-Neuve, Belgium ~72: FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:22183449.2 ~32:06/07/2022

- APPLIED ON 2025/02/05 -

2025/01127 ~ Complete ~54:DRILLING TOOL CHANGER DEVICE AND A METHOD FOR MAKING THE CHANGE ~71:FELIPE IZQUIERDO GONZALEZ, Calle Raúl Labbé #12613, Oficina 322 Comuna de Lo Barnechea, Ciudad de Santiago - Región Metropolitana, Chile;RAUL PATRICIO BIZAMA ALMENDRAS, Calle

Raúl Labbé #12613, Oficina 322 Comuna de Lo Barnechea, Ciudad de Santiago - Región Metropolitana, Chile
~72: FELIPE IZQUIERDO GONZALEZ;RAUL PATRICIO BIZAMA ALMENDRAS~ 33:WO
~31:PCT/IB2022/056473 ~32:13/07/2022

2025/01112 ~ Complete ~54:HETEROAROMATIC COMPOUNDS FOR THE TREATMENT OF NEUROLOGICAL DISORDERS ~71:SUVEN LIFE SCIENCES LIMITED, 6th Floor, Serene Chambers, Road – 5, Avenue – 7, India
~72: BADANGE, Rajesh Kumar;BENADE, Vijay;BOJJA, Kumar;JASTI, Venkateswarlu;JAYARAJAN, Pradeep;MANCHINEELLA, Sravanthi;MOHAMMED, Abdul Rasheed;NIROGI, Ramakrishna;SHINDE, Anil Karbhari;SUBRAMANIAN, Ramkumar~ 33:IN ~31:202241048743 ~32:26/08/2022

2025/01106 ~ Complete ~54:BACKWARD-COMPATIBLE INTEGRATION OF HARMONIC TRANSPOSER FOR HIGH FREQUENCY RECONSTRUCTION OF AUDIO SIGNALS ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg 1-35, 1101 CN, Amsterdam Zuidooost, Netherlands ~72: HEIKO PURNHAGEN;LARS VILLEMOES;PER EKSTRAND~ 33:US ~31:62/475,619 ~32:23/03/2017

2025/01107 ~ Complete ~54:MANUFACTURING PROCESS AND MANUFACTURING DEVICE FOR COMPOSITE RUBBER SANDWICH VIBRATION REDUCTION STRUCTURE ~71:Taiyuan University of Science and Technology, No.66 Waliu Road, Wanbailin District, Taiyuan City, Shanxi Province, 030020, People's Republic of China ~72: MENG, Wenjun;QIAO, Guansen;REN, Hong;SUN, Xiaoxia;SUN, Zhengyu;YAN, Bijuan;YIN, Xuan;ZHAO, Xiaoxia;ZHAO, Zhangda~ 33:CN ~31:202410171038.9 ~32:06/02/2024

2025/01118 ~ Complete ~54:SINGLE-STAGE PROCESS AND DEVICE FOR PRODUCING REFORMED PYROLYSIS OIL AND HYDROGEN-RICH PYROLYSIS GAS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., HANSASTRASSE 27C, 80686 MÜNCHEN, GERMANY, Germany ~72: APFELBACHER, Andreas;DASCHNER, Robert;MEIDENBAUER, Simon;NEIDEL, Johannes~ 33:DE ~31:10 2022 123 547.5 ~32:14/09/2022

2025/01128 ~ Complete ~54:HSL PROTEIN, GENE, VECTOR, CELL, COMPOSITION AND USE THEREOF, AND METHOD FOR IMPROVING HERBICIDE RESISTANCE OF CROPS ~71:CENTRAL CHINA NORMAL UNIVERSITY, No. 152 Luoyu Road, Hongshan District, Wuhan, People's Republic of China ~72: DONG, Jin;LIN, Hongyan;YANG, Guangfu~ 33:CN ~31:202210963026.0 ~32:11/08/2022

2025/01111 ~ Complete ~54:APPARATUS FOR AUTONOMOUS FUNCTIONS IN AQUATIC ZONES ~71:Dr. Akhilesh Kumar Pandey, Associate Professor, Department of Electronics and Communication Engineering , SNTD Women's University, Juhu Tara Rd, Daulat Nagar, Santacruz (West), Mumbai 400049, Maharashtra, India;Dr. Deepak Kumar Jarwal, Department of ECE, SoT, Pandit Deendayal Energy University, Raysan village, PDEU, Gandhinagar, Gujarat, 382007, India;Dr. Devesh Mishra, Project Lead, IIT Indore, Indore - 453552, Madhya Pradesh, India;Dr. Saiyed Salim Sayeed, Director, Institute of Technology and Management, Maharajganj, Uttar Pradesh -273303, India;Dr. Supriya Jaiswal, Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh - 177005, India ~72: Dr. Akhilesh Kumar Pandey;Dr. Deepak Kumar Jarwal;Dr. Devesh Mishra;Dr. Saiyed Salim Sayeed;Dr. Supriya Jaiswal~

2025/01115 ~ Complete ~54:HERBICIDAL COMPOSITION COMPRISING AZINE COMPOUNDS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: BURHOP, Annina;DOMBO, Peter;HARTMUELLER, Martin;LOPEZ CARRILLO, Veronica;SEITZ, Thomas;WITSCHHEL, Matthias~ 33:EP ~31:22184617.3 ~32:13/07/2022

2025/01117 ~ Complete ~54:ASYMMETRIC IN-LOOP FILTERS AT VIRTUAL BOUNDARIES ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: HONG, Seungwook;PANUSOPONE, Krit;WANG, Limin~ 33:US ~31:63/388,385 ~32:12/07/2022

2025/01119 ~ Complete ~54:SMARTPHONE MOTION TRACKING SYSTEM ~71:GENIUS SPORTS SS, LLC, 312 E. 1ST STREET, 5TH FLOOR, LOS ANGELES, CALIFORNIA 90012, USA, United States of America ~72: CHANG, Alexa, Chen, Lan;CHANG, Yu-Han;HO, Tracey, Chui, Ping;KING, Kevin, William;MAHESWARAN, Rajiv, Tharneswaran;SU, Jeffrey, Wayne~ 33:US ~31:63/388,495 ~32:12/07/2022

2025/01124 ~ Complete ~54:CYCLIC PEPTIDE DERIVATIVE, METHOD FOR PRODUCING SAME, AND COMPOSITION ~71:DKS CO. LTD., 55, Nishishichijo Higashikubo-cho, Shimogyo-ku, Kyoto-shi, Kyoto, 6008873, Japan ~72: KOHEI MATSUMOTO;KOSUKE YASUI;SHICHIDAI TANABE;TAKESHI SHOSU;YUMA KARITA~ 33:JP ~31:2022-124810 ~32:04/08/2022;33:JP ~31:2022-159060 ~32:30/09/2022

2025/01102 ~ Provisional ~54:ADAPTIVE RESISTANCE EXERCISE METHOD, DEVICE, AND SYSTEM ~71:HOFSTEE, Erik Jan Willem, 290 Bootes Street, South Africa ~72: HOFSTEE, Erik Jan Willem~

2025/01114 ~ Complete ~54:SUSTAINABLE ANTIOXIDANT COMPOSITION, USE THEREOF AND POLYMER COMPOSITION COMPRISING THE SAME ~71: BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: ISHAQUE, Michael;TENG, Gang;WANG, Zhen;YUAN, Guo, Liang~ 33:CN ~31:PCT/CN2022/105434 ~32:13/07/2022

2025/01113 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING MYASTHENIA GRAVIS ~71:NMD PHARMA A/S, Palle Juul-Jensens Boulevard 82, Denmark ~72: BASTIAS, Jorge Armando Quiroz;BOLD, Jane Mary;CHIN, Eva Rose;FLAGSTAD, Peter;GRØNNEBÆK, Thomas Skjærlund;HUTCHISON, John Blundell;JENSEN, Klaus Gjervig;KELLY, Nicholas Michael;KNUTSEN, Lars J.S.;NIELSEN, Ole Bækgaard;NORDHOLM, Lars;PEDERSEN, Thomas Holm~ 33:EP ~31:22199117.7 ~32:30/09/2022;33:EP ~31:23159662.8 ~32:02/03/2023

2025/01126 ~ Complete ~54:BRINP2-DERIVED PEPTIDE COMPOSITIONS FOR TREATING OBESITY AND WEIGHT MANAGEMENT ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Office of the General Counsel Building 170, 3rd Floor, Main Quad, P.O. Box 20386, Stanford, California, 94305-2038, United States of America ~72: KATRIN JENNIFER SVENSSON;LAETITIA VOILQUIN~ 33:US ~31:63/370,200 ~32:02/08/2022

2025/01104 ~ Provisional ~54:ROUND PICNIC TABLE ~71:Rose Moleboge Ndhundhuma, 05 Leadwood Creascent, South Africa ~72: Rose Moleboge Ndhundhuma~

2025/01110 ~ Complete ~54:METHOD FOR PREPARATION OF LISDEXAMFETAMINE DIMESYLATE DISPERSIBLE TABLET ~71:ATHENA PHARMACEUTIQUES SAS, Espace Arnold De Ville 12, Rue Georges Blandon, France ~72: CHANDWANI, Omprakash Doulatram;CHAUDHARI, Amol Yuvraj;CHAUDHARI, Mahendra Baliram;NEHETE, Nitin Pandharinath;SHAHANE, Anita Kunal~ 33:IN ~31:202411066703 ~32:03/09/2024

2025/01120 ~ Complete ~54:METHODS FOR DIAGNOSING ADVANCED LIVER FIBROSIS OR LIVER CIRRHOSIS ~71:GENFIT, 885 AVENUE EUGÈNE AVINÉE, 59120 LOOS, FRANCE, France ~72: CARON, Alexandra;DEHORNIS, Morgane;HAJJI, Yacine;MAGNANENSI, Jérémy;MAJD, Zouher;ROSENQUIST, Christian~ 33:EP ~31:22306063.3 ~32:13/07/2022

2025/01123 ~ Complete ~54:HETEROCYCLIC COMPOUND CAPABLE OF INHIBITING PRMT5•MTA AND USE THEREOF ~71:XIZANG HAISCO PHARMACEUTICAL CO., LTD., Xingfu Jiayuan Economic Development Zone, Jieba Town, Naidong District, Lhoka, Tibet, 856099, People's Republic of China ~72: CHEN ZHANG;HAOLIANG ZHANG;JIANCHENG WANG;JINGZHENG ZHAO;LONG WANG;NAICHENG GUI;PANGKE YAN;PINGMING TANG;SHUAI HUANG;YAO LI;ZONGJUN SHI~ 33:CN ~31:202210803253.7 ~32:07/07/2022;33:CN ~31:202210866886.2 ~32:22/07/2022;33:CN ~31:202210962185.9 ~32:11/08/2022;33:CN ~31:202211079984.8 ~32:05/09/2022;33:CN ~31:202211457720.1 ~32:18/11/2022

2025/01125 ~ Complete ~54:SYSTEM AND METHOD FOR VIBRATION-BASED ROTATIONAL SPEED MEASUREMENT ~71:CORNELL PUMP COMPANY LLC, 16261 Southeast 130th Avenue, Clackamas, Oregon, 97015, United States of America ~72: AARON ARTHUR WEISS;JOSHUA BARKSDALE~ 33:US ~31:63/373,238 ~32:23/08/2022

2025/01129 ~ Complete ~54:INTAGLIO PRINTING PROCESSES FOR PRODUCING SECURITY FEATURES MADE OF OXIDATIVE DRYING INTAGLIO INKS ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: BRIGNOLI, Yann;LEFEBVRE , Olivier;MAGNIN, Patrick;SABOURIN, Maxime~ 33:EP ~31:22183328.8 ~32:06/07/2022

2025/01131 ~ Complete ~54:TRANSFERRIN RECEPTOR BINDING PROTEINS AND CONJUGATES ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ALAM, Riazul;ALVARADO, Alberto;ANDREWS, Forest Hoyt;BABB, Nicholas Alan;BALASUBRAMANIAM, Deepa;CHAUVIGNE-HINES, Lacie;CORTEZ, Guillermo S.;CROY, Johnny Eugene;DRIVER, David Albert;FELLOWS, Ross Edward;GIRARD, Daniel;GONZALEZ VALCARCEL, Isabel C.;KULKARNI, Nalini Hosahalli;LAWRENCE, Scott Alan;LIU, Feng;TANI, Hiroaki;YORK, Jeremy S.~ 33:US ~31:63/396,065 ~32:08/08/2022;33:US ~31:63/496,465 ~32:17/04/2023

2025/01133 ~ Complete ~54:REAR FLOOR PANEL AND STRUCTURAL ASSEMBLY FOR A MOTOR VEHICLE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Joël WILSIUS~ 33:IB ~31:PCT/IB2022/059611 ~32:07/10/2022

2025/01122 ~ Complete ~54:NEW DRUG COMPLEX ~71:KOWA COMPANY, LTD., 6-29, Nishiki 3-chome, Naka-ku, Nagoya-shi, Aichi, 4608625, Japan ~72: HIDEO YOSHIDA;KAHORI HOSONO;KENICHI SUZUKI;NOBUHIRO FUJIMAKI~ 33:JP ~31:2022-128536 ~32:10/08/2022

2025/01132 ~ Complete ~54:VEHICLE DASH PANEL ASSEMBLY ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Dan HASENPOUTH;Joël WILSIUS~ 33:IB ~31:PCT/IB2022/058553 ~32:12/09/2022

2025/01134 ~ Provisional ~54:MSC FOR VEHICLE APPARATUS ~71:HUATIAN WOODWORK, A2 4 ESSEX STREET MEADOWDALE, South Africa ~72: LI TONGDE~

2025/01103 ~ Provisional ~54:FOLDABLE PICNIC TABLE ~71:Rose Moleboge Ndhundhuma, 05 Leadwood Creascent, South Africa ~72: Rose Moleboge Ndhundhuma~

2025/01105 ~ Provisional ~54:ROUND PICNIC CHAIR ~71:Rose Moleboge Ndhundhuma, 05 Leadwood Creascent, South Africa ~72: Rose Moleboge Ndhundhuma~

2025/01108 ~ Complete ~54:ANTI-CD73 ANTIBODIES AND USES THEREOF ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: ALMAGRO, Juan Carlos;BUONPANE, Rebecca A.;NASTRI, Horacio G.;STEWART, Shaun M.;ZHOU, Jing~ 33:US ~31:62/956,847 ~32:03/01/2020

2025/01109 ~ Complete ~54:SYSTEM AND METHOD FOR OPERATING A MINING MACHINE WITH RESPECT TO A GEOFENCE USING A DYNAMIC OPERATION ZONE ~71:JOY GLOBAL SURFACE MINING INC., 401 E. Greenfield Avenue, United States of America ~72: MALEGAM, Keshad Darayas~ 33:US ~31:18/434,565 ~32:06/02/2024

2025/01116 ~ Complete ~54:METHODS FOR DIAGNOSING ADVANCED LIVER FIBROSIS OR LIVER CIRRHOSIS ~71:GENFIT, 885 AVENUE EUGÈNE AVINÉE, 59120 LOOS, FRANCE, France ~72: CARON,

Alexandra;DEHORNOIS, Morgane;HAJJI, Yacine;MAGNANENSI, Jérémy;MAJD, Zouher;ROSENQUIST, Christian~ 33:EP ~31:22306062.5 ~32:13/07/2022

2025/01121 ~ Complete ~54:AN APPARATUS, A METHOD AND A COMPUTER PROGRAM FOR VIDEO CODING AND DECODING ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ASTOLA, Pekka;LAINEMA, Jani~ 33:FI ~31:20225662 ~32:13/07/2022

2025/01130 ~ Complete ~54:USE OF RESIN ACIDS AS DEFENSE GENE INDUCERS FOR BIOTIC STRESS IN PLANTS ~71:Action Pin, 30 Rue Gambetta, DAX 40100, FRANCE, France ~72: HUET, Camille;MOLLA, Gérard~ 33:FR ~31:2209793 ~32:27/09/2022;33:EP ~31:22198819.9 ~32:29/09/2022

- APPLIED ON 2025/02/06 -

2025/01154 ~ Complete ~54:SALES DATA MONITORING AND PROCESSING SYSTEM AND METHOD ~71:E CENTIVE (PTY) LTD., First Floor Euro Centre, 363 Rivonia Boulevard, RIVONIA, Sandton 2128, Gauteng, SOUTH AFRICA, South Africa ~72: DE CARVALHO, Nelson;FUTCHER, Bronwynn;KRUGER, Dawid Tobias;NENGOBELA, Philton;SINGH, Satish Kumar~

2025/01163 ~ Complete ~54:AQUEOUS MIXTURES OF NOVEL POLY(HYDROXYALKANOATES) ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard, Bainbridge, Georgia, 39817, United States of America ~72: Joe B GRUBBS III;KARSON DURIE;MICHAEL J JOYCE;MICHAEL MANG;PHILLIP VAN TRUMP~ 33:US ~31:63/393,474 ~32:29/07/2022

2025/01142 ~ Complete ~54:HEATING EQUIPMENT FOR DISTRIBUTED PHOTOVOLTAIC SEMICONDUCTOR POWER GENERATION ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: DUAN Kunjie;GUO Yufei;LI Wei;REN Yixin;WANG Kai;WANG Wenfang;WANG Xinlian;WANG Yarui;ZHANG Feipeng;ZHANG Renqi~

2025/01146 ~ Complete ~54:OPTICAL DETECTION DEVICE FOR SEMICONDUCTOR EQUIPMENT ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: GUO Yufei;HUA Chunfei;HUANG Xiaoya;LIU Zhiqing;REN Yixin;WANG Chaoyong;WANG Kai;WANG Wenfang;WANG Yarui;ZHANG Feipeng~

2025/01151 ~ Complete ~54:A FOOT MEASUREMENT DEVICE ~71:City University of Macau, Avenida Padre Tomás Pereira Taipa, Macau, People's Republic of China ~72: Dingbang Luh;Yulin Zhao~

2025/01153 ~ Complete ~54:A METHOD FOR MULTI-LEVEL TONAL ADAPTIVE SCANNING IN AN EXTENDED RANGE OF SOUND FREQUENCIES ~71:HEARING REHABILITATION CENTER "MELFON", LTD., Profsoyuznaya ulitsa 78, str. 1, Moscow, 117393, Russian Federation ~72: Khanykov Vladimir Vladimirovich;Pasyuta Sergey Mikhailovich;Sirotkin Valeriy Stepanovich~ 33:RU ~31:2024122645 ~32:07/08/2024

2025/01143 ~ Complete ~54:DISPLAY DEVICE FOR ANALYZING ENGLISH TEACHING SENTENCES ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: GUO Yanli;GUO Yufei;LIU Aiqin;TANG Yijuan;WANG Wenfang;ZHANG Xiangyu;ZHANG Yuanyang~

2025/01145 ~ Complete ~54:FOREST GARDEN TYPE BUILDING STRUCTURE ~71:Jinggangshan University, Jinggangshan University, No. 28 Xueyuan Road, Qingyuan District, Ji'an City, Jiangxi Province, 343009, People's Republic of China ~72: HU, Ming;YANG, Kai~

2025/01147 ~ Complete ~54:SEMICONDUCTOR SILICON PHOTOVOLTAIC MODULE ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: GUO Junji;GUO Yufei;LI Wei;LI Yanhua;LIU Zhiqing;PAN Hui;WANG Chaoyong;WANG Wenfang;ZHANG Renqi;ZHAO Jun~

2025/01150 ~ Complete ~54:WAIST AND HIP CIRCUMFERENCE MEASURING DEVICE ~71:City University of Macau, Avenida Padre Tomás Pereira Taipa, Macau, People's Republic of China ~72: Dingbang Luh;Yulin Zhao~

2025/01162 ~ Complete ~54:AMINOHETEROARYL KINASE INHIBITORS ~71:ALLORION THERAPEUTICS INC, 22 Strathmore Road, Natick, Massachusetts, 01760, United States of America ~72: DAI CHENG;GUOSHENG WU;JIANWEI CHE;PENGFEI LEI;QIMING YUE;SEN ZENG;WEI HAN;XIAOBO ZHOU;XIAOHANG YIN;YANG ZHOU;YANGYIN XIE;YUHONG FU;ZEQIANG XIE;ZHIXIANG HE~ 33:CN ~31:PCT/CN2022/109075 ~32:29/07/2022;33:CN ~31:PCT/CN2022/128578 ~32:31/10/2022;33:CN ~31:PCT/CN2023/078781 ~32:28/02/2023

2025/01149 ~ Complete ~54:METHOD FOR ENGLISH CONVERSATION LEARNING BASED ON CLOUD COMPUTING ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China;Pingdingshan No.7 Middle School, Pingdingshan No.7 Middle School, Daxiangshan Road, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China;WANG Zhiyuan, Building 9, Area A, Haima Park, Guancheng Hui Nationality District, Zhengzhou City, Henan Province, 450016, People's Republic of China ~72: LI Bing;WANG Zhiyuan;ZHANG Luyan;ZHANG Wan~

2025/01139 ~ Provisional ~54:SANITISING AGENT ~71:Olgentsine Holdings (Pty) Ltd, 2 Seder Villas, Seder Street, South Africa ~72: JORDAAN, Marius~

2025/01155 ~ Complete ~54:SALES MANAGEMENT SYSTEM AND METHOD FOR OEMS ~71:E CENTIVE (PTY) LTD., First Floor Euro Centre, 363 Rivonia Boulevard, RIVONIA, Sandton 2128, Gauteng, SOUTH AFRICA, South Africa ~72: DE CARVALHO, Nelson;FUTCHER, Bronwynn;KRUGER, Dawid Tobias;NENGOBELA, Philton;SINGH, Satish Kumar~

2025/01156 ~ Complete ~54:TRYPTAMINES AND METHODS OF TREATING MOOD DISORDERS ~71:GILGAMESH PHARMACEUTICALS, INC., 113 University Place, Suite 1019, United States of America ~72: CUNNINGHAM, Michael;KRUEGEL, Andrew Carry~ 33:US ~31:63/397,037 ~32:11/08/2022

2025/01166 ~ Complete ~54:BIAXIALLY-ORIENTED BIODEGRADABLE FILM ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard, Bainbridge, Georgia, 39817, United States of America ~72: ADAM JOHNSON;BRAD RODGERS;JERRI DIRENZO;LAURA EMERY;SATYABRATA SAMANTA~ 33:US ~31:63/369,997 ~32:01/08/2022

2025/01136 ~ Provisional ~54:INVIDO-GUARD NANO-MICRODOT SENSOR THEFT PREVENTION & TRACKING SYSTEM ~71:Calvin Peu, Villa Nessa, Brooklands Estate, Kosmosdal, South Africa ~72: Calvin Peu~

2025/01138 ~ Provisional ~54:AN AIR-RELEASE VALVE ~71:MILLER, James Douglas, Laughing Waters Farm, Munster, 4278, SOUTH AFRICA, South Africa ~72: MILLER, James Douglas~

2025/01140 ~ Complete ~54:COMPOSITE CATALYST FOR PREPARATION OF 1,3-BUTADIENE FROM ETHANOL, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Hebei Marketing Company of PetroChina Co., Ltd., Gaozhuang Oil Depot, 370 meters east of Gaozhuang Village, Luquan District, Shijiazhuang City, Hebei Province, 050200, People's Republic of China;Liaoning Petrochemical University, No.1 West Section

of Dandong Road, Wanghua District, Fushun City, Liaoning Province, 113001, People's Republic of China ~72: BAI, Yingzhi;CAI, Yulin;HAN, Qiao;HE, Jing;KANG, Lei;SUN, Na;WANG, Yujia~

2025/01144 ~ Complete ~54:FOREIGN LANGUAGE TRANSLATION DEVICE FOR REAL-TIME VOICE TRANSLATION ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: GUO Yufei;HOU Jingwen;WANG Wenfang;WEI Linna;ZHANG Jipei;ZHANG Xingxing~

2025/01148 ~ Complete ~54:APPLICATION OF OSAGO12 PROTEIN AND ITS ENCODING GENE IN REGULATING PLANT RESISTANCE TO RICE DWARF VIRUS ~71:Fujian Agriculture and Forestry University, No. 15 Shangxiadian Road, Cangshan District, Fuzhou City, Fujian Province, People's Republic of China ~72: Wu Jianguo;Wu Ming;Zhang Shuai;Zhao Shanshan~ 33:CN ~31:2024110928157 ~32:09/08/2024;33:CN ~31:2024111150557 ~32:14/08/2024

2025/01152 ~ Complete ~54:CRYSTALLINE FORMS OF CFTR MODULATORS ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ALES MEDEK;BEILI ZHANG;BRYAN FRIEMAN;CARL L ZWICKER;COREY DON ANDERSON;FABRICE PIERRE;JASON MCCARTNEY;JENNIFER LU;JEREMY J CLEMENS;JICONG LI;JINGLAN ZHOU;KEVIN J GAGNON;MARK THOMAS MILLER;MICHAEL WALDO;MUNA SHRESTHA;PETER (DECEASED) GROOTENHUIS;PRASUNA PARASELLI;SARA E SWIFT;SARA SABINA HADIDA RUAH;THOMAS CLEVELAND;TIMOTHY RICHARD COON;YI SHI~ 33:US ~31:62/886,565 ~32:14/08/2019;33:US ~31:63/015,903 ~32:27/04/2020

2025/01157 ~ Complete ~54:A WINDOW BLIND HEADRAIL ~71:LOUVER LITE LIMITED, ASHTON ROAD, HYDE CHESHIRE SK 14 4BG, GREAT BRITAIN, United Kingdom ~72: GREENING, Andrew~ 33:GB ~31:2210299.0 ~32:13/07/2022

2025/01159 ~ Complete ~54:END PIECE OF DRILL PIPE, DRILL PIPE ASSEMBLY AND METHOD ~71:Sandvik Mining and Construction Tools AB, Valsverksstråket 14, SANDVIKEN 811 34, SWEDEN, Sweden ~72: AZIZOGLU, Yagiz;CHAVAN, Vitthal~ 33:EP ~31:22192053.1 ~32:25/08/2022

2025/01257 ~ Provisional ~54:AJUSTABLE ~71:David John Drake Hawkins, 8 Sentinel Road, 8 Brackenhyrst, South Africa ~72: David Hawkins;David John Drake Hawkins~

2025/01137 ~ Provisional ~54:COMPLIANCE SYSTEM AND METHOD ~71:HARMSE, Jacob Cornelius Christoffel, 8 Theo Street, Wilkoppies, South Africa;HARMSE, Michael David, 92 Marula, 1 Oukraal Blvd, Hazeldean, Tyger Valley, South Africa ~72: HARMSE, Jacob Cornelius Christoffel;HARMSE, Michael David~

2025/01141 ~ Complete ~54:SAFETY MONITORING SYSTEM FOR VESSEL SEWAGE DISCHARGE BASED ON DUAL MONITORING DURING SAILING AND BERTHING ~71:Anhui Medical College, 632 Furong Road, Hefei City, Anhui Province, 230601, People's Republic of China;Anhui Wanzhouqing Environmental Technology Co., Ltd., No. 600, Chizhushan Middle Road, Guandou Street, Jiujiang District, Wuhu City, Anhui Province, 241006, People's Republic of China;UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA, No. 96, Jinzhai Road, Hefei City, Anhui Province, 230022, People's Republic of China ~72: HU, Aimin;TANG, Yong;TAO, Changyou;WANG, Zhiyong;XU, Guangwei;YAN, Jialai~

2025/01160 ~ Complete ~54:COMPOSITIONS INCLUDING MULTI-AGONIST PEPTIDES AND METHODS OF MANUFACTURE AND USE ~71:Pep2Tango Therapeutics Inc., 12050 Wetherfield Lane, POTOMAC 20854, MD, USA, United States of America ~72: DANHO (Deceased), Waleed;GHOSH, Soumitra S.;RONDINONE, Cristina Martha~ 33:US ~31:63/389,769 ~32:15/07/2022;33:US ~31:63/435,723 ~32:28/12/2022

2025/01164 ~ Complete ~54:MODULATORS OF ALPHA-1 ANTITRYPSIN ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ALES MEDEK;BRAD D MAXWELL;CHARLENE TSAY;CHRISTOPHER DAVID POFF;DANIEL TYLER RICHTER;EMILY ELIZABETH ALLEN;JEFFERY ALLEN GLADDING;JEFFREY BRADEN SPERRY;KATHLEEN PAIGE SOKOLOWSKY;MARIAM ZAKY;MENGQI LI;MICHAEL J BOYD;MICHELLE LAI-CHEN;Robert Francis Fimognari Jr.;Ronald Lee Grey Jr.;SIMON GIROUX;TONY Z SCOTT;XIAOXU WANG~ 33:US ~31:63/405,080 ~32:09/09/2022;33:US ~31:63/489,543 ~32:10/03/2023

2025/01168 ~ Complete ~54:MEDICAL DEVICE BOX FOR EFFICIENT ACCESS ~71:SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES, No. 279 Zhouzhu Road Pudong New Area, People's Republic of China ~72: HUANG Xiyuan;LI Lanying;SUN Yingxuan~

2025/01161 ~ Complete ~54:EPIDERMAL GROWTH FACTOR RECEPTOR TYROSINE KINASE INHIBITORS IN COMBINATION WITH HGF-RECEPTOR INHIBITORS FOR THE TREATMENT OF CANCER ~71:AstraZeneca AB, SÖDERTÄLJE SE-151-85, SWEDEN, Sweden ~72: DANGELO, Gina;HARTMAIER, Ryan~ 33:US ~31:63/367,949 ~32:08/07/2022;33:US ~31:63/370,501 ~32:05/08/2022

2025/01167 ~ Complete ~54:DIMENSIONALLY STABLE BIODEGRADABLE FILM ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard, Bainbridge, Georgia, 39817, United States of America ~72: ADAM JOHNSON;JERRI DIRENZO;LAURA EMERY;SATYABRATA SAMANTA~ 33:US ~31:63/369,997 ~32:01/08/2022

2025/01256 ~ Provisional ~54:AJUSTABLE ~71:David John Drake Hawkins, 8 Sentinel Road, 8 Brackenhyrst, South Africa ~72: David John Drake Hawkins~

2025/01158 ~ Complete ~54:COMPOSITIONS, SYSTEMS, AND METHODS FOR REGULATION OF HEPATITIS B VIRUS THROUGH TARGETED GENE REPRESSION ~71:Tune Therapeutics, Inc., 1930 Boren Ave, Floor 5, SEATTLE 98101, WA, USA, United States of America ~72: BLACK, Joshua B.;CONGDON, Kendra;COSGROVE, Brian;DEAN, Jason;GOUGH, Veronica;JONES, Britta~ 33:US ~31:63/399,634 ~32:19/08/2022;33:US ~31:63/472,236 ~32:09/06/2023;33:US ~31:63/531,309 ~32:07/08/2023

2025/01165 ~ Complete ~54:WEARABLE DEVICE FOR ANIMALS WITH MULTIPLE COMMUNICATION CHANNELS ~71:HALTER USA INC., 201 Spear Street Suite 1100, San Francisco, California, 94105, United States of America ~72: JONATHAN CLARK;RUAN NEL~ 33:NZ ~31:790929 ~32:01/08/2022

- APPLIED ON 2025/02/07 -

2025/01179 ~ Complete ~54:PREPARATION METHOD OF LYOPHILIZED PLATELET (LP) AND USE OF LP IN PREPARATION OF TRAUMATIC HEMOSTATIC PRODUCT ~71:ARMY MEDICAL UNIVERSITY, PEOPLE'S LIBERATION ARMY, PRC, No. 30, Gaotanyan Main Street, Shapingba District, Chongqing, 400038, People's Republic of China ~72: CHEN, Can;CHEN, Lin;DAI, Chenglin;DU, Wenjuan;JIA, Yijun;JIANG, Renqing;LIU, Song;YANG, Haoyang;ZHONG, Xin;ZONG, Zhaowen~ 33:CN ~31:202510035666.9 ~32:08/01/2025

2025/01169 ~ Provisional ~54:SELF-LOCKING RE-USABLE - PLUMBING CONNECTOR ~71:Hendrik Jakobus van Wyk, 3 Ashford Crescent, Brookside Village, South Africa ~72: Hendrik Jakobus van Wyk~

2025/01188 ~ Complete ~54:EMULSION EXPLOSIVE COMPOSITIONS AND METHODS OF USE ~71:LOCUS SOLUTIONS IPCO, LLC, 30600 Aurora Road, Suite 180, United States of America ~72: KNESEL, Gabriela;SILVA, Ronney;SMITH, Greg~ 33:US ~31:63/394,782 ~32:03/08/2022

2025/01190 ~ Complete ~54:METHOD FOR ESTABLISHING A CONTROL CONNECTION, MOBILE TERMINAL, SET COMPRISING A MOBILE TERMINAL AND A HOUSEHOLD APPLIANCE AND METHOD FOR

RETROFITTING A HOUSEHOLD APPLIANCE ~71:JURA ELEKTROAPPARATE AG, Kaffeeweltstrasse 10, Switzerland ~72: Amir KARIMIAN~ 33:EP ~31:22206470.1 ~32:09/11/2022

2025/01195 ~ Complete ~54:AMORPHOUS SOLID DISPERSIONS COMPRISING NAPORAFENIB ~71:Novartis AG, Lichtstrasse 35, BASEL 4056, SWITZERLAND, Switzerland ~72: GRANER, Oliver;HARLACHER, Cornelius Stephan;HOOTON, Jennifer Claire;IYER, Raman;SETHURAMAN, Vijay~ 33:US ~31:63/370,989 ~32:10/08/2022

2025/01173 ~ Provisional ~54:WHISTLE APP ~71:Clemence Themba Mvulane, Kings Park, South Africa;Nqojiwe Emah Nduli, 305 Phola Park, South Africa ~72: Clemence Themba Mvulane;Nqojiwe Emah Nduli~

2025/01178 ~ Complete ~54:DEVICES, SYSTEMS, AND METHODS FOR PUBLIC/PRIVATE KEY AUTHENTICATION ~71:ARCULUS HOLDINGS, LLC, 500 Memorial Drive Somerset, New Jersey, 08873, United States of America ~72: ADAM LOWE~ 33:US ~31:63/135,157 ~32:08/01/2021;33:US ~31:63/271,545 ~32:25/10/2021

2025/01180 ~ Complete ~54:MAGNETIC MOLECULARLY IMPRINTED PHOTONIC CRYSTAL SENSOR, PREPARATION METHOD AND APPLICATION THEREOF ~71:QILU UNIVERSITY OF TECHNOLOGY (SHANDONG ACADEMY OF SCIENCES), No.3501 Daxue Road, Changqing District, Jinan, Shandong, 250353, People's Republic of China ~72: HE, Jinxing;LV, Lei;WANG, Xin;ZHAO, Xiaolei~ 33:CN ~31:202410553961.9 ~32:07/05/2024

2025/01183 ~ Complete ~54:A METHOD SUITABLE FOR DEEP AREA AND EDGE AREA PROSPECTING OF PORPHYRY COPPER POLYMETALLIC DEPOSITS ~71:Kunming University of Science and Technology, No. 253 Xuefu Road, Wuhua District, Kunming City, Yunnan Province, 650033, People's Republic of China;Yunnan Diqing NonFerrous Metal Co., Ltd., Pulang Copper Mine, Gezan Village, Gezan Township, Shangri-La City, Yunnan Province, 674408, People's Republic of China ~72: Fan Yang;Jie Xu;Jinhua Wei;Junji Lu;Lei Wang;Liang Li;Lianrong Wu;Shenjin Guan;Tao Ren;Yan Su;Youcai Sha;Yufeng Deng~ 33:CN ~31:202410864193.9 ~32:30/06/2024

2025/01194 ~ Complete ~54:HUMANIZED ANTIBODIES AGAINST CD79B ~71:ATB Therapeutics, Rue de la Science 8, AYE 6900, BELGIUM, Belgium ~72: HOURY, Max;KIPRIJANOV, Sergej;MAGY, Bertrand~ 33:EP ~31:22189322.5 ~32:08/08/2022

2025/01197 ~ Complete ~54:METHOD AND APPARATUS FOR SERVICE CONTINUITY IN A PERSONAL INTERNET-OF-THINGS (IOT) NETWORK (PIN) ~71:InterDigital Patent Holdings, Inc., 200 Bellevue Parkway, Suite 300, WILMINGTON 19809, DE, USA, United States of America ~72: ABBAS, Taimoor;AHMAD, Saad;CHOUDHURY, Shalini;GAZDA, Robert;PURKAYASTHA, Debashish;SETHI, Anuj;STARSINIC, Michael~ 33:US ~31:63/396,838 ~32:10/08/2022

2025/01198 ~ Complete ~54:SALTS OF N-[4-(4-[[2-(DIMETHYLAMINO)ETHYL]AMINO]-3-METHYL-1H-PYRAZOLO[3,4-D]PYRIMIDIN-6-YL)-2-FLUOROPHENYL]-2,5-DIFLUOROBENZENESULFONAMIDE AND CRYSTALLINE FORMS THEREOF ~71:Thryv Therapeutics Inc., 999 De Maisonneuve West Boulevard, Suite 1250, MONTREAL H3A 3L4, QUÉBEC, CANADA, Canada ~72: DAI, Wenying;KHALIFA, Maroua;VIDAL, Marc;WANG, Liyu~ 33:US ~31:63/368,208 ~32:12/07/2022

2025/01202 ~ Complete ~54:USE OF AN ALKANEDIOL AS HERBICIDE ~71:APEO – AGRONOMICAL PLANT EXTRACTS & ESSENTIAL OILS, Passage des Déportés 2, 5030, Gembloux, Belgium ~72: BÉRÉNICE FONCOUX;HAISSAM JIJAKLI;SIMON DAL MASO~ 33:BE ~31:BE2022/5561 ~32:11/07/2022

2025/01203 ~ Complete ~54:SYNTHESIS OF SUBSTITUTED 1-ARYL-1'-HETEROARYL COMPOUNDS AND SUBSTITUTED 1,1'-BIHETEROARYL COMPOUNDS, AND ANALOGUES THEREOF ~71:ARBUTUS BIOPHARMA CORPORATION, 25th Floor, 700 West Georgia Street, Vancouver, British Columbia, V7Y 1B3, Canada ~72: ANDREW G COLE;DUYAN NGUYEN;GANAPATI REDDY PAMULAPATI;JAN MICHELLE SPINK;JEREMY MASON;MAHESH KUMAR PALLERLA;SEYMA OZTURK~ 33:US ~31:63/398,452 ~32:16/08/2022

2025/01206 ~ Complete ~54:INTEGRATED HIGH-TEMPERATURE OIL-SUBMERGED MOTOR ~71:CHINA NATIONAL OFFSHORE OIL CORP, No. 25 Chaoyangmen North Street, Dongcheng District, People's Republic of China;CNOOC ENERGY TECHNOLOGY & SERVICES LIMITED, No. 6, Dongzhimenwai Xiaojie, Dongcheng District, People's Republic of China ~72: FU Jun;HUANG Linggang;HUANG Xinchun;LI Lingxi;LIANG Enwu;LIU Min;MIAO Jie;SHI Xuanwei;YUAN Bo;ZHANG Rong;ZHANG Shuangshuang;ZHENG Tianyu~ 33:CN ~31:202310513543.2 ~32:09/05/2023

2025/01207 ~ Complete ~54:COATING KIT AND METHOD FOR REPAIR AND/OR RECONSTITUTION OF RUBBER AND/OR METAL WORN AREAS ~71:BERTECH PANAMÁ S.A., Corregimiento 24 de Diciembre, Galera 22,, Ciudad de Panama, PANAMA CITY, Panama ~72: LANG, Pedro;PICON BERNIER, Francisco;PICON BERNIER, Marco~

2025/01176 ~ Complete ~54:SUPPORT ASSEMBLY FOR A SOLAR PANEL ~71:AFRICA NEW ENERGIES LIMITED, 308 Ewell Road, United Kingdom ~72: KHAN, Saad Saleem;LARKIN, Stephen;NISAR, Hamza;OMAR, Muhammad;USMAN, Muhammad;ZAINAB, Chaudhry~

2025/01182 ~ Complete ~54:MOUSE ~71:Heilongjiang Institute of Construction Technology, No. 999 Xueyuan Road, Hulan District, Harbin City, Heilongjiang Province, 150025, People's Republic of China ~72: FAN, Liping;GAO, Tingting;HUANG, Jinhua;LIU, Bin;WAN, Tingting~

2025/01172 ~ Provisional ~54:AUTOMATIC BALL MACHINE ~71:ATKINS, Michael, 5 Linaria Street, Weltevredenpark, South Africa;DE FREITAS, José Jorge, 8 Magaliesberg Road, Noordheuwil, South Africa ~72: ATKINS, Michael;DE FREITAS, José Jorge~

2025/01181 ~ Complete ~54:INTERMEDIATE PREPARATION APPARATUS ~71:Anhui Medical College, No. 632 Furong Road, Hefei City, Anhui Province, 230601, People's Republic of China ~72: CHENG, Jie;JIANG, Dayuan;LIU, Jiachen;ZHU, Xiaoyu~

2025/01186 ~ Complete ~54:METHOD FOR RAPIDLY SCREENING WEIGHT-INCREASING DEGREE OF BIAN CHICKEN ~71:SHANXI AGRICULTURAL UNIVERSITY, No. 81 Longcheng Street, Xiaodian District, Taiyuan City, People's Republic of China ~72: ZHANG, Qi~ 33:CN ~31:202410378173.0 ~32:29/03/2024

2025/01193 ~ Complete ~54:HETEROCYCLIC COMPOUNDS, COMPOSITIONS THEREOF, AND METHODS OF TREATMENT THEREWITH ~71:BeiGene Switzerland GmbH, Aeschengraben 27, BASEL 4051, SWITZERLAND, Switzerland ~72: BIAN, Yichao;CHEN, Jie;LI, Xiaoyu;LIU, Huaqing;SUN, Hanzhi;WANG, Ce;WANG, Zhiwei;YU, Chao~ 33:IB ~31:2022/111871 ~32:11/08/2022;33:IB ~31:2022/121125 ~32:23/09/2022;33:IB ~31:2023/079087 ~32:01/03/2023;33:IB ~31:2023/093212 ~32:10/05/2023

2025/01199 ~ Complete ~54:NOVEL SALT OF IMIDAZO[1,2-A]PYRIDINE COMPOUND, CRYSTALLINE FORM THEREOF, AND PREPARATION METHOD ~71:JEIL PHARMACEUTICAL CO.,LTD., 343, Sapyeong-daero Seocho-gu, Seoul, 06543, Republic of Korea;ONCONIC THERAPEUTICS INC., 11F, 12 Teheran-ro 26-gil, Gangnam-gu, Seoul, 06236, Republic of Korea ~72: JUNG GI AN;SEONG HYEON JEON;SEUNG MIN HONG;SUNG HWA KIM~ 33:KR ~31:10-2022-0095088 ~32:29/07/2022

2025/01170 ~ Provisional ~54:CIRCUMCISION DEVICE ~71:Tanya Gabel, 10 Fiford Crescent, South Africa;Iris Gabel, 10 Fiford Crescent, South Africa ~72: Iris Gabel;Tanya Gabel~

2025/01175 ~ Provisional ~54:ROUNND PICNIC TABLE ~71:Rose Moleboge Ndhundhuma, 05 leadwood Creascent, South Africa ~72: Rose Moleboge Ndhundhuma~

2025/01189 ~ Complete ~54:INFUSED OBJECT CONTAINER AND INFUSING DEVICE ~71:NINGBO SMAL ELECTRICS CO., LTD., NO. 737-1 XINJIAN NORTH ROAD, People's Republic of China ~72: DONG, Yuejun;YU, Yingli~ 33:CN ~31:202221920930.5 ~32:21/07/2022

2025/01177 ~ Complete ~54:USE OF ROLUPERIDONE TO TREAT NEGATIVE SYMPTOMS AND DISORDERS, INCREASE NEUROPLASTICITY, AND PROMOTE NEUROPROTECTION ~71:MINERVA NEUROSCIENCES, INC., 1601 Trapelo Road, Suite 284, Waltham, Massachusetts, 02451, United States of America ~72: REMY HENRI LUTHRINGER~ 33:US ~31:62/720,667 ~32:21/08/2018;33:US ~31:62/831,535 ~32:09/04/2019

2025/01204 ~ Complete ~54:DEVICE FOR THE OPTICAL IMAGING OF FILTERING SEPTA AND FILTRATION APPARATUS EQUIPPED WITH IT ~71:DIEMME FILTRATION S.R.L., 16, Via Gessi, 48022, Lugo (RA), Italy ~72: ANDREA BASSI;DAVIDE COLLINI;PIETRO NEGRINI;ROBERTO DARDI~ 33:IT ~31:102022000021021 ~32:12/10/2022

2025/01171 ~ Provisional ~54:DIGITIP INNOVATION ~71:Wesley Mooi, 11 Juliana Street, Ontdekkerspark, South Africa ~72: Wesley Mooi~

2025/01185 ~ Complete ~54:WHEAT GRAIN MOXIBUSTION EXTRUSION FORMING DEVICE ~71:Ningbo Zhenhai Longsai Medical Group, No. 51 Huancheng West Road, Zhaobaoshan Street, Zhenhai District, Ningbo City, Zhejiang Province, People's Republic of China ~72: Enlin Zhang;Jiale Pan;Keying Bao;Qing Su;Yudi Gao;Zhujun Wu~

2025/01187 ~ Complete ~54:CISTANCHE DESERTICOLA FERMENTED YOGURT AND PREPARATION METHOD THEREFOR ~71:GANSU KAIYUAN BIOTECHNOLOGY DEVELOPMENT CENTER LIMITED LIABILITY COMPANY, 846 Beihuan Road, Ganzhou District, Zhangye City, People's Republic of China;HEXI UNIVERSITY, 846 Beihuan Road, Ganzhou District, Zhangye City, People's Republic of China ~72: JIAO, Yang;LI, Li;LUO, Guanghong;MIAO, Huan;WANG, Danxia;WANG, Jin;WANG, Lijuan;WANG, Nanbin;WU, Fang;YANG, Shenghui;ZHANG, Xifeng~

2025/01191 ~ Complete ~54:AN ELECTRO-HYDRAULIC CENTRAL CONTROL SYSTEM FOR UNMANNED PLATFORMS ~71:CHINA NATIONAL OFFSHORE OIL CORP., No. 25 Chaoyangmen North Street, Dongcheng District, People's Republic of China;CNOOC ENERGY TECHNOLOGY & SERVICES LIMITED, No. 6, Dongzhimenwai Xiaojie, Dongcheng District, People's Republic of China ~72: CHEN Lu;HE Chao;HUANG Xinchun;LI Hongzhen;LI Yanhui;LIANG Enwu;LUAN Dejie;MIAO Jie;QIN Qiang;SHI Xuanwei;XUE Hailin;ZHANG Rong;ZHANG Shuangshuang;ZHANG Yi;ZHENG Tianyu~ 33:CN ~31:202310513541.3 ~32:09/05/2023

2025/01192 ~ Complete ~54:SOLID FORMULATION OF INSECTICIDAL MIXTURES HAVING PARTICULARLY GOOD DISPERSION PROPERTIES ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: EGGER, Holger;ZUMSANDE, Laura~ 33:EP ~31:22183985.5 ~32:08/07/2022

2025/01205 ~ Complete ~54:COMBINATION GENERATOR AND ALTERNATOR ARRANGEMENTS FOR USE IN DIRECT CURRENT CHARGING OF ELECTRIC VEHICLES ~71:MAYMAAN RESEARCH, INC., 3904 N. 29th Avenue, Hollywood, Florida, 33020, United States of America ~72: DORON SHMUELI;EITAN SHMUELI;YEHUDA SHMUELI~ 33:US ~31:63/396,262 ~32:09/08/2022

2025/01200 ~ Complete ~54:USES OF CARBON PRODUCED FROM A METHOD FOR THE MATERIAL TREATMENT OF RAW MATERIALS ~71:MERENAS TRUST REG., Meierhofstr.2, Vaduz, FL-9490, Liechtenstein ~72: KARL-HEINZ HEMMERLE~ 33:EP ~31:22183760.2 ~32:08/07/2022

2025/01174 ~ Provisional ~54:AI-DRIVEN ADAPTIVE POWER MANAGEMENT SYSTEM ~71:PRETORIUS, Marco, 6 Aster Avenue, South Africa ~72: PRETORIUS, Marco~

2025/01184 ~ Complete ~54:MACROBIOTIC SCALP PASTE ~71:Yonghai Zhu, No. 711 Northwest Road, Qiaotou Town, Yongjia County, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Yonghai Zhu~

2025/01196 ~ Complete ~54:OPERATING IN A NETWORK WITH VARIABLE POWER ~71:InterDigital Patent Holdings, Inc., 200 Bellevue Parkway, Suite 300, WILMINGTON 19809, DE, USA, United States of America ~72: ALFARHAN, Faris;COMSA, Virgil;LEE, Moon-il;MARINIER, Paul;STERN-BERKOWITZ, Janet A.~ 33:US ~31:63/395,997 ~32:08/08/2022

2025/01201 ~ Complete ~54:DEVICE AND METHOD FOR THE MATERIAL TREATMENT OF RAW MATERIALS AND CARBON PRODUCED BY THE METHOD ~71:MERENAS TRUST REG., Meierhofstr.2, Vaduz, FL-9490, Liechtenstein ~72: KARL-HEINZ HEMMERLE~ 33:EP ~31:22183741.2 ~32:08/07/2022

- APPLIED ON 2025/02/10 -

2025/01212 ~ Provisional ~54:IMPROVEMENT IN THE MATERIAL USED FOR RAZOR BLADES ~71:ANGELOS, Komninos George, 23 Joseph Avenue, NORTHCLIFF, Johannesburg 2195, Gauteng, SOUTH AFRICA, South Africa;LAWRENCE, Allen Preston, 1 Manly, 1 Van Der Kloof Road, RUIMSIG, Roodepoort 1732, Gauteng, SOUTH AFRICA, South Africa ~72: LAWRENCE, Allen Preston~

2025/01226 ~ Complete ~54:A DEVICE FOR AMNIOCENTESIS SAMPLING IN OBSTETRICS AND GYNECOLOGY ~71:HENAN PROVINCIAL PEOPLE'S HOSPITAL, No. 7 Weiwu Road, Jinshui District, Zhengzhou City, Henan Province, 450003, People's Republic of China ~72: Mao Yanke~

2025/01229 ~ Complete ~54:DEVELOPMENT OF AN ETHANOL SENSOR BASED ON VERTICALLY ALIGNED SNO₂/TiO₂ HETEROJUNCTION NANOWIRE USING GLAD TECHNIQUE ~71:Dr. Biraj Shougaijam, Department of Electronics & Communication Engineering, Manipur Technical University, Takyelpat, Imphal-795004, Manipur, India;Professor (Dr.) Aheibam Dinamani Singh, Department of Electronics & Communication Engineering, National Institute of Technology Manipur, Langol, Imphal-795004, Manipur, India;Sapam Bikesh, Department of Electronics & Communication Engineering, National Institute of Technology Manipur, Langol, Imphal-795004, Manipur, India ~72: Dr. Biraj Shougaijam;Professor (Dr.) Aheibam Dinamani Singh;Sapam Bikesh~

2025/01232 ~ Complete ~54:A VOTING SYSTEM USING BLOCKCHAIN ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: HIRVE, Tejas;MORE, Manisha Nandan;SARADE, Tejas;TEJWANI, Dream;WARBHE, Tejas;WASEKAR, Tejas~

2025/01236 ~ Complete ~54:A COALMINE EMISSIONS EXPLORER SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: AVAARU, Sravan;BAMBAL, Sumedh;GUPTA, Surabhi;H., Suraj;MANDE, Smita;NAIK, Sumit;RAINA, Sumit~

2025/01246 ~ Complete ~54:APPARATUS FOR THERMALLY TREATING A SUBSTANCE ~71:THERMAL PROCESSING SOLUTIONS GMBH, Schloßstraße 32, 5282 Braunau am Inn-Ranshofen, Austria ~72: WERNER WIGGEN~ 33:AT ~31:A 50615/2022 ~32:09/08/2022

2025/01208 ~ Provisional ~54:METHOD AND SYSTEM FOR SECURE CONTACTLESS PAYMENT PROCESSING ON HMS DEVICES ~71:Katheho Mokoena, 8594 Riga Street, Cosmo City, Roodepoort, South Africa, 8594 Riga Street, Cosmo City, South Africa;Sinxolo Nyamakazi, 14th Rd, South Africa ~72: Katheho Mokoena~

2025/01209 ~ Provisional ~54:WOTWOT ~71:LUCELLE SHEVONNE HENRY, 1202 THE FRANKLIN, 4 PRITCHARD STREET, South Africa ~72: LUCELLE SHEVONNE HENRY~ 33:ZA ~31:12 ~32:07/02/2025

2025/01210 ~ Provisional ~54:CO-OP ~71:LUCELLE SHEVONNE HENRY, 1202 THE FRANKLIN, 4 PRITCHARD STREET, South Africa ~72: LUCELLE SHEVONNE HENRY~ 33:ZA ~31:12 ~32:07/02/2025

2025/01213 ~ Complete ~54:SYSTEM FOR INTELLIGENT SOIL FRACTURE PRIORITY FLOW ANALYSIS AND ENVIRONMENTAL RESPONSE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: HUANG Xuezheng;JIANG Zhongfeng;LI Weiyang;LIANG Feng;TIAN Junfeng;WANG Yong;WU Li;ZHANG Peixin;ZHANG Yuchan~

2025/01214 ~ Complete ~54:METHOD FOR CONSTRUCTING ONCORHYNCHUS MYKISS OVARIAN GRANULOSA CELL LINE BASED ON GROWTH FACTORS AND APPLICATION THEREOF ~71:Heilongjiang River Fisheries Research Institute, Chinese Academy of Fishery Sciences, NO.232 Hesong Street, Daoli District, Harbin, Heilongjiang Province, 150070, People's Republic of China ~72: GE Kaibo;GU Wei;HUANG Tianqing;LIU Enhui;WANG Bingqian;WANG Gaochao;XU Gefeng~

2025/01216 ~ Complete ~54:LIGHT-ADJUSTABLE LED LAMP ~71:JIANGSU STAR LIGHTING CO.,LTD., Building 10, No. 4, the Taihu Lake Road, Tinghu District, Yancheng City, Jiangsu Province, 224000, People's Republic of China ~72: HUANG, Zhixiang;JING, Wei;TANG, Yonghong;ZHANG, Min;ZHU, Jinjun~ 33:CN ~31:202410250939.7 ~32:05/03/2024

2025/01219 ~ Complete ~54:GRASSLAND CARBON SINK SAMPLING DEVICE ~71:NANTONG INSTITUTE OF TECHNOLOGY, NO. 211 YONGXING ROAD, CHONGCHUAN DISTRICT, NANTONG CITY, People's Republic of China ~72: WANG, Zhiguo;YANG, Zhichao;ZHAO, Wei~

2025/01220 ~ Complete ~54:AUTOMATIC SPRAYING DEVICE FOR TRANSFER POINT OF COAL CONVEYOR AND USE METHOD THEREOF ~71:Inner Mongolia Shuangxin Coal Mine Co., Ltd., Halabragou South Liujiagou, Changqing Village, Talahao Town, Dongsheng District, Ordos City, Inner Mongolia Autonomous Region, 017000, People's Republic of China ~72: Bo Yu;Guohui Wen;Hui Wang;Jianbo Zhang;Jianxin Gao;Lei Wang;Meng Han;Min Li;Pu Miao;Runze Dong;Xiaochen Yu;Zengfu Zhao;Zhensheng Peng~ 33:CN ~31:202411440489.4 ~32:16/10/2024

2025/01221 ~ Complete ~54:METHOD FOR SUPPRESSING BLUE-GREEN ALGAE BY ESTABLISHING SUBMERGED VEGETATION IN EUTROPHIC WATER BODY ~71:Chinese Research Academy of Environmental Sciences, No.8 Dayangfang, Anwai Beiyuan, Chaoyang District, Beijing, 100012, People's Republic of China ~72: LI, Caole;LIU, Shanbao;WANG, Fan;WANG, Shujun;WANG, Yizhe;ZENG, Linghui;ZHANG, Qiuying~

2025/01222 ~ Complete ~54:METHOD FOR REAL-TIME ENGLISH TRANSLATION BASED ON ARTIFICIAL INTELLIGENCE ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China;NANJING NORMAL UNIVERSITY, No.1 Wenyuan Road, Xianlin University City, Nanjing, Jiangsu Province, 210024, People's Republic of China ~72: GUO Chenyu;KANG Yuxin;WANG Yan;YANG Yan;YU Ruixue;ZHANG Yifei~

2025/01223 ~ Complete ~54:PUBLIC INTEREST LITIGATION EVIDENCE COLLECTION EXPLORATION BOX ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: WANG Yongjun~

2025/01227 ~ Complete ~54:VOLTAGE-REGULATED ANTENNA BEAMFORMING ASSEMBLY ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: KHAN, Saad Saleem;OMAR, Muhammad;ROBINSON, Justyna;USMAN, Muhammad;ZAINAB, Chaudhry~

2025/01233 ~ Complete ~54:AN EXCESS SHOPPING PROVOKER TROLLY SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: MANDE, Smita Samrat;RANANAVARE, Vanshika;RANAWARE, Meghraj;RANE, Kunal;RANE, Vedant;RASAL, Omkar;RASKAR, Soham~

2025/01234 ~ Complete ~54:AN ADVANCED MAZE-SOLVING ROBOT WITH AUTONOMOUS NAVIGATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JOSHI, Anita;SHENDE, Riddhi;SHENGDE, Unnati;SHERGARDWALA, Qusai;SHETE, Deep;SHEWALKAR, Yash~

2025/01237 ~ Complete ~54:AN ADVANCED POWER CONTROL SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: MUSALE, Prajakta Prakash;PARDESHI, Devang;PARDESHI, Karansingh;PARDESHI, Omeshwarsingh;PARDESHI, Tanishq;PAREEK, Shyam~

2025/01239 ~ Complete ~54:MENTAL REHABILITATION TRAINING DEVICE FOR AUTISTIC CHILDREN ~71:Shanghai Children's Hospital, No. 355 Luding Road, Putuo District, Shanghai City, 200062, People's Republic of China ~72: Chen Li;Wang Yu~ 33:CN ~31:2024119728071 ~32:30/12/2024

2025/01240 ~ Complete ~54:ASPHALT MIXTURE GRADATION OPTIMIZATION METHOD BASED ON FRACTAL DIMENSIONS OF MINERAL AGGREGATE ~71:CHINA RAILWAY THIRD DIVISION GROUP CO., LTD., No.269 Yingze Street, yingze district, Taiyuan, People's Republic of China;CHINA RAILWAY THIRD DIVISION GROUP FIFTH ENGINEERING CO., LTD., No.1 Shuncheng East Street, Yuci District, Jinzhong City, People's Republic of China ~72: CAI, Xiao;DENG, huiqi;FAN, Lizhi;FENG, Li;FU, Chongyang;LI, Yingjie;MU, Tingbai;NIU, Jingfeng;SUN, Longhua;WAN, Yungan;WANG, Ping;WU, Yongzhen;XIE, Xiaofeng;ZHANG, Xugang;ZHANG, Zefeng~

2025/01243 ~ Complete ~54:QUANTITATIVE METHOD OF DETERMINING A MENTAL STATUS BASED ON DRD1 AND/OR DRD5, AND ITS APPLICATION THEREOF ~71:SHI, Xiandong, 64 Sandy Hollow Road, Port Washington, United States of America ~72: CHENG, Xingguo;JI, Yue;SHI, Xiandong;TAN, Jianyou;YAN, Zhanqing~ 33:US ~31:63/370,375 ~32:03/08/2022

2025/01247 ~ Complete ~54:DEVICE FOR PROVIDING A PLASMA ~71:THERMAL PROCESSING SOLUTIONS GMBH, Schloßstraße 32, 5282 Braunau am Inn-Ranshofen, Austria ~72: WERNER WIGGEN~ 33:AT ~31:A50614/2022 ~32:09/08/2022

2025/01248 ~ Complete ~54:FAD DRYER REGULATING SYSTEM AND METHOD ~71:ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP, Boomsesteenweg 957, 2610 Wilrijk, Belgium ~72: FREDERICO LACQUET SILVA;GEERT HELLEMANS~ 33:US ~31:63/405,663 ~32:12/09/2022

2025/01250 ~ Complete ~54:HUMAN CONE PHOTORECEPTOR OPTOGENETIC CONSTRUCTS ~71:Institute of Molecular and Clinical Ophthalmology Basel (IOB), Mittler Strasse 91, BASEL CH-4031, SWITZERLAND,

Switzerland ~72: GYÖRGY, Bence; ROSKA, Botond; SCHOLL, Hendrik P.N.~ 33:US ~31:63/397,180
~32:11/08/2022; 33:US ~31:63/400,095 ~32:23/08/2022

2025/01251 ~ Complete ~54:PROMOTERS FOR SPECIFIC EXPRESSION OF GENES IN CONE
PHOTORECEPTORS ~71:Institute of Molecular and Clinical Ophthalmology Basel (IOB), Mittler Strasse 91,
BASEL CH-4031, SWITZERLAND, Switzerland ~72: JÜTTNER, Josephine; ROSKA, Botond; SCHOLL, Hendrik
P.N.; SPIRIG, Stefan~ 33:US ~31:63/397,183 ~32:11/08/2022; 33:US ~31:63/399,824 ~32:22/08/2022

2025/01255 ~ Provisional ~54:CLUB EDENIA ~71:MANDISA NOKULUNGA MAGAGULA, 4764 THEMBA
STREET MHLUZI EXT 2, South Africa ~72: MANDISA NOKULUNGA MAGAGULA~

2025/01254 ~ Complete ~54:FAP-TARGETED ANTIBODY-DRUG CONJUGATES ~71:ONCOMATRYX
BIOPHARMA, S.L., 801-B PARQUE TECNOLOGICO DE BIZKAIA, Spain ~72: FABRE, Myriam; FERRER,
Cristina; GARCIA, Ribas Ignacio; MORENO, Ruiz Pablo; SIMON, Laureano~ 33:EP ~31:22382713.0
~32:26/07/2022

2025/01253 ~ Complete ~54:RABIES G PROTEIN AND USES THEREOF ~71:Icosavax, Inc., 1930 Boren
Avenue, Suite 1000, SEATTLE 98101, WA, USA, United States of America ~72: FELDHAUS,
Andrew; HOLTZMAN, Douglas~ 33:US ~31:63/371,148 ~32:11/08/2022

2025/01211 ~ Provisional ~54:JOZI STREET ~71:LUCELLE SHEVONNE HENRY, 1202 THE FRANKLIN, 4
PRITCHARD STREET, South Africa ~72: LUCELLE SHEVONNE HENRY~ 33:ZA ~31:12 ~32:07/02/2025

2025/01217 ~ Complete ~54:URBAN ECOLOGICAL RUNOFF SIMULATION AND MANAGEMENT SYSTEM
~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan
Province, People's Republic of China ~72: HUANG Xuezheng; JIANG Zhongfeng; LI Weiyan; LIANG Feng; TIAN
Junfeng; WANG Yong; WU Li; ZHANG Peixin; ZHANG Yuchan~

2025/01224 ~ Complete ~54:FORENSIC DEVICE FOR ENVIRONMENTAL MONITORING IN PUBLIC
INTEREST LITIGATION ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng
District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: WANG Yongjun~

2025/01230 ~ Complete ~54:LIQUID RING VACUUM SYSTEM ~71:TRIPPLE STONE TRADING (PTY) LTD., 30
Frangipani Avenue, SAFARI GARDEN, Rustenburg 0299, North West, SOUTH AFRICA, South Africa ~72: van
JAARVELD, Dawid Timothy~ 33:ZA ~31:2023/10380 ~32:08/11/2023

2025/01235 ~ Complete ~54:AN IMAGE ENCRYPTION SYSTEMS AND METHODS USING STEGANOGRAPHY
AND XOR OPERATIONS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD,
UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: GARGOTE,
Soham; GHADGE, Somnath; JAIN, Sneha; JAIN, Sneha; NIMALE, Soham; SOMANI, Tanuj; TANPURE, Sharda~

2025/01238 ~ Complete ~54:PREPARATION METHOD OF PHOTOVOLTAIC COATING MATERIALS ~71:Anhui
Science and Technology University, No. 9 Donghua Road, Fengyang County, Anhui Province, 233100, People's
Republic of China ~72: Dong Yue; Dong Yuxin; Li Zhisheng; Luo Yuting; Xu Zhimei; Yang Liu; Zhou Mengying~
33:CN ~31:2024118745898 ~32:19/12/2024

2025/01242 ~ Complete ~54:AEROSOL-GENERATING ARTICLE COMPRISING UPSTREAM ELEMENT
~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BAUR, Guillaume Bastien~ 33:EP
~31:22185340.1 ~32:15/07/2022

2025/01252 ~ Complete ~54:BEARING TEMPERATURE REDUCTION THROUGH BUSHING MODIFICATION
~71:Primetals Technologies USA LLC, 5895 Windward Parkway, ALPHARETTA 30005, GA, USA, United States

of America ~72: GOW, Ian;OSGOOD, Peter N.;SCHEFFLER, Kenneth R.;WINSLOW, Earl S.;WOJTKOWSKI, Thomas C.~ 33:IB ~31:2022/043731 ~32:16/09/2022

2025/01241 ~ Complete ~54:BIOSIMULATION MATERIAL FORMED BY FOAMING PROCESS, PREPARATION METHOD THEREFOR, AND USE THEREOF ~71:ZHONGXIN JUCHENG MEDICAL TECHNOLOGY CO., LTD., No. 101, Floor 5, Building 4, Courtyard 7, Xingmao 1st Street, BDA Tongzhou District, Beijing, 101102, People's Republic of China ~72: LI, Xingwang;LI, Xinze;ZHANG, Guoxin;ZHAO, Rongnan~ 33:CN ~31:202211184808.0 ~32:27/09/2022

2025/01244 ~ Complete ~54:AN IMPROVED PROCESS FOR PREPARING ANTIVIRAL PHOSPHONATE ANALOGUES ~71:CIPLA LIMITED, Cipla House Peninsula Business Park, Ganpatrao Kadam Marg Lower Parel, India ~72: DAS, Arijit;SAWANT, Ashwini~ 33:IN ~31:202221045237 ~32:08/08/2022

2025/01215 ~ Complete ~54:INTEGRATED SYSTEM FOR RAINWATER MULTI-STAGE QUALITY TREATMENT AND EFFICIENT REUSE UNDER LOW-IMPACT DEVELOPMENT ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: HUANG Xuezheng;JIANG Zhongfeng;LI Weiyang;LIANG Feng;TIAN Junfeng;WANG Yong;WU Li;ZHANG Peixin;ZHANG Yuchan~

2025/01218 ~ Complete ~54:DEVICE FOR HATCHING SALMON AND TROUT EGGS ~71:Heilongjiang River Fisheries Research Institute, Chinese Academy of Fishery Sciences, NO.232 Hesong Street, Daoli District, Harbin, Heilongjiang Province, 150070, People's Republic of China ~72: FAN Peng;GE Kaibo;GU Wei;HUANG Tianqing;LI Datian;LIU Enhui;SUN Yunchao;WANG Gaochao;XU Gefeng~

2025/01225 ~ Complete ~54:A QUALITY INSPECTION DEVICE SUITABLE FOR MANUFACTURING ASSEMBLY LINES ~71:Zhengzhou University of Aeronautics, No.2 Daxue Middle Road, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: Chen Chen;Li Jing;Li Ruonan;Liu Yumin;Wang Dongfan;Wang Guodong;Xue Li;Zhou Haofei;Zhu Dongsheng;Zou Yan~

2025/01228 ~ Complete ~54:SCRAPER CONVEYOR WITH TAIL COAL REMOVAL STRUCTURE ~71:Inner Mongolia Shuangxin Coal Mine Co., Ltd., Halabragou South Liujiagou, Changqing Village, Talahao Town, Dongsheng District, Ordos City, Inner Mongolia Autonomous Region, 017000, People's Republic of China ~72: Aidong Sun;Bo Yu;Chenyang Wu;Fengrui Zhu;Guanglei Zhou;Guohui Wen;Hailong Ren;Huiqin Wang;Lei Wu;Mingtao Xie;Xin Li;Yujie Wu~ 33:CN ~31:202411539039.0 ~32:31/10/2024

2025/01231 ~ Complete ~54:OVERHEAD ELECTRICAL LINE PROTECTION SYSTEM ~71:Radio Surveillance Technologies (Pty) Ltd, Accfin House, 17 Scott Street, South Africa ~72: NARAINSAMY, Selvanathan~ 33:ZA ~31:2024/08882 ~32:22/11/2024

2025/01245 ~ Complete ~54:DEVICE FOR PROVIDING A PLASMA ~71:THERMAL PROCESSING SOLUTIONS GMBH, Schloßstraße 32, 5282 Braunau am Inn-Ranshofen, Austria ~72: WERNER WIGGEN~ 33:AT ~31:A50613/2022 ~32:09/08/2022

2025/01249 ~ Complete ~54:COMPOUNDS FOR TREATING CANCER ~71:GENESIS THERAPEUTICS, INC., 1440 Chapin Avenue, Suite 385, Burlingame, California, 94010, United States of America ~72: ADAIT NAGLE;BEN SKLAROFF;BRANDON REINUS;CHRISTOPHER P BURKE;EVAN NATHANIEL FEINBERG;INDRAWAN MCALPINE;JOE FRED NAGAMIZO;MARTIN INDARTE;NICHOLAS SIMON STOCK;VAN VENROOY, Alexis;WOJCIECH PIOTR SWIDERSKI~ 33:US ~31:63/406,081 ~32:13/09/2022;33:US ~31:63/419,451 ~32:26/10/2022;33:US ~31:63/435,170 ~32:23/12/2022;33:US ~31:63/536,249 ~32:01/09/2023

- APPLIED ON 2025/02/11 -

2025/01273 ~ Complete ~54:LIPID FORMULATIONS ~71:SISAF LTD, 3 Huxley Road, United Kingdom ~72: DEHSORKHI, Ashkan;KARGAR, Negeen;SAFFIE-SIEBERT, Roghieh Suzanne;SUTERA, Flavia;TORABI-POUR, Nasrollah~ 33:GB ~31:2210794.0 ~32:22/07/2022

2025/01277 ~ Complete ~54:METHODS OF ADMINISTERING BELUMOSUDIL FOR TREATMENT OF CHRONIC GRAFT VERSUS HOST DISEASE ~71:KADMON CORPORATION, LLC, 55 Corporate Drive, Bridgewater, United States of America ~72: EIZNHAMER, David;KRENZ, Heidi~

2025/01283 ~ Complete ~54:PROSTHETIC HEART VALVE ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: BUKIN, Michael;GUROVICH, Nikolai;HAN, Jiangxue;NGUYEN, Tammy;PHAM, Bich Hoang~ 33:US ~31:63/399,604 ~32:19/08/2022;33:US ~31:63/399,626 ~32:19/08/2022

2025/01260 ~ Complete ~54:DRUG DELIVERY DEVICE FOR BRONCHIAL ASTHMA AND USING METHOD ~71:THE 3rd AFFILIATED HOSPITAL OF CHANGCHUN UNIVERSITY OF CHINESE MEDICINE, No. 1643 Jingyue Street, Jingyue High tech Industrial Development Zone, Changchun City, Jilin Province, 130021, People's Republic of China;THE AFFILIATED HOSPITAL TO CHANGCHUN UNIVERSITY OF CHINESE MEDICINE, No. 1478 Gongnong Road, Chaoyang District, Changchun City, Jilin Province, 130103, People's Republic of China ~72: LI, Minglin;LIU, Jimin;PAN, Hao;ZHU, Tonggang~

2025/01267 ~ Complete ~54:SYSTEM FOR MONITORING PAVEMENT PERFORMANCE BASED ON ARTIFICIAL INTELLIGENCE AND METHOD THEREOF ~71:HARBIN INSTITUTE OF TECHNOLOGY, No. 92, Xidazhi Street, Nangang District, Harbin City, Heilongjiang Province, 150006, People's Republic of China;Harbin Qu'an Transportation Technology Co., Ltd., Zone 1H, floor 2, No. 7, Shunyi Street, Nangang District, Harbin, Heilongjiang, 150090, People's Republic of China ~72: GAO Xiuyun;LIU Yan;PEI Zhongshi;WU Hongmei;YI Junyan;ZHOU Wenyi~ 33:CN ~31:2024110713259 ~32:06/08/2024

2025/01278 ~ Complete ~54:METHODS OF ADMINISTERING BELUMOSUDIL IN COMBINATION WITH CYP3A INDUCERS AND/OR PROTON PUMP INHIBITORS ~71:KADMON CORPORATION, LLC, 55 Corporate Drive, Bridgewater, United States of America ~72: PATEL, Jeegar;SCHUELLER, Olivier~

2025/01282 ~ Complete ~54:COMPOSITION WITH REDUCED SALT CONCENTRATION FOR PRODUCING A BIOCIDES ~71:NM 5473 Ltd., 8 Be'eri Street, TEL AVIV 6468208, ISRAEL, Israel ~72: BARAK, Ayala~ 33:US ~31:63/398,558 ~32:17/08/2022

2025/01266 ~ Complete ~54:BRIDGED TRICYCLIC CARBAMOYLPIRIDONE COMPOUNDS AND USES THEREOF ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: CHU, HANG;GONZALEZ BUENROSTRO, ANA Z.;HAN, XIAOCHUN;HURTLEY, ANNA E.;JIANG, LAN;LI, JIAYAO;SCHWARZWALDER, GREGG M.;SHIVAKUMAR, DEVLEENA M.;VON BARGEN, MATTHEW J.;WU, QIAOYIN;YANG, HONG~ 33:US ~31:63/328,061 ~32:06/04/2022;33:US ~31:63/476,873 ~32:22/12/2022

2025/01280 ~ Complete ~54:CERIUM- AND ZIRCONIUM-BASED MIXED OXIDE ~71:Rhodia Operations, 9 rue des Cuirassiers, Immeuble Silex 2, Solvay, LYON 69003, FRANCE, France ~72: HERNANDEZ, Julien;IFRAH, Simon;JORGE COELHO MARQUES, Rui Miguel;XU, Delong;ZHU, Ling~ 33:IB ~31:2022/111999 ~32:12/08/2022

2025/01258 ~ Provisional ~54:ZYTEC RETAIL REWARDS CHECKOUT SYSTEM ~71:Kennett Technical Services cc, Unit 66, Hazy Ridge, 9 Swallow Lane, South Africa ~72: Barrie Charles Kennett~

2025/01270 ~ Complete ~54:ECONOMIC WELL-BEING EVALUATION METHOD INTEGRATING SATELLITE REMOTE SENSING AND SURVEY DATA ~71:China Institute of Water Resources and Hydropower Research, 20, Chegongzhuang West Road, Haidian District, Beijing, 100038, People's Republic of China ~72: Akiyuki Kawasaki;CUI Shiai;DING Xiaohui;Elhadi Adam;JIANG Wei;LIU Jie;LONG Tengfei;PANG Zhiguo;YAN Denghua~

2025/01272 ~ Complete ~54:ANTI-CD161 ANTIBODIES AND USES THEREOF ~71:IMMUNITAS THERAPEUTICS, INC., 830 Winter St., 2nd Floor, Waltham, Massachusetts, 02451, United States of America ~72: ALEXANDRIA FUSCO;ALISON TISDALE;ELIZABETH SCANLON;EMILY ROSENTRATER;FRANO IRVINE;GEORGE PUNKOSDY;MICHAEL BATTLES;ULI BIALUCHA~ 33:US ~31:63/236,122 ~32:23/08/2021

2025/01340 ~ Provisional ~54:METHOD AND SYSTEM FOR CONSTRAINT-BASED PREDICTIVE DECISION INTELLIGENCE IN ADAPTIVE NETWORKS ~71:K2018045519 South Africa (Pty) Ltd, 27 Grace Crescent, South Africa ~72: Benjamin Derrick Spies~

2025/01263 ~ Complete ~54:BRIDGED TRICYCLIC CARBAMOYLPYRIDONE COMPOUNDS AND USES THEREOF ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: CHU, HANG;GONZALEZ BUENROSTRO, ANA Z.;HAN, XIAOCHUN;HURTLEY, ANNA E.;JIANG, LAN;LI, JIAYAO;SCHWARZWALDER, GREGG M.;SHIVAKUMAR, DEVLEENA M.;VON BARGEN, MATTHEW J.;WU, QIAOYIN;YANG, HONG~ 33:US ~31:63/328,061 ~32:06/04/2022;33:US ~31:63/476,873 ~32:22/12/2022

2025/01276 ~ Complete ~54:BELUMOSUDIL METABOLITES AND USES THEREOF IN THE TREATMENT OF CHRONIC GRAFT-VERSUS-HOST DISEASE ~71:KADMON CORPORATION, LLC, 55 Corporate Drive, Bridgewater, United States of America ~72: PATEL, Jeegar;SCHUELLER, Olivier~

2025/01268 ~ Complete ~54:FOUNDATION PIT SUPPORT AND REINFORCEMENT STRUCTURE ~71:Anhui Water Conservancy Technical College, No. 18 Dongmenhe Road, Hefei City, Anhui Province, 231603, People's Republic of China ~72: GUO Mengmeng;WANG Chunxiu;ZHANG Shengfeng;ZHU Bingqing~

2025/01271 ~ Complete ~54:AN EARLY WARNING METHOD OF URINARY TRACT INFECTION DURING STROKE REHABILITATION BASED ON BIG DATA ~71:The Second Affiliated Hospital of Anhui University of Chinese Medicine, No.300, Shouchun Road, Luyang District, Hefei City, Anhui Province, 230000, People's Republic of China ~72: Xiaodan Yang~

2025/01275 ~ Complete ~54:STRENGTH-ENHANCED ENGINEERED STRUCTURAL MATERIALS, AND METHODS FOR FABRICATION AND USE THEREOF ~71:INVENTWOOD INC., 4467 Technology Drive, Room 3104, College Park, United States of America;UNIVERSITY OF MARYLAND, COLLEGE PARK, UM Ventures, 0134 Lee Building, 7809 Regents Drive, College Park, United States of America ~72: BRADSHAW, Allan;DAI, Jiaqi;HU, Liangbing;LIU, Yu~ 33:US ~31:63/399,795 ~32:22/08/2022

2025/01284 ~ Complete ~54:COMPOUND AS VOLTAGE-GATED SODIUM CHANNEL INHIBITOR ~71:Guangzhou Fermion Technology Co., Ltd., Room 2502-2504, Tower A, Guanzhou Life Science Innovation Center, Haizhu District, GUANGZHOU 510005, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: DENG, Daiguo;LEI, Zengrong;LU, Jieliang;ZHONG, Wenhe~ 33:CN ~31:202210971471.1 ~32:12/08/2022;33:CN ~31:202211124412.7 ~32:15/09/2022

2025/01259 ~ Complete ~54:FILM-MULCHING MICRO RIDGE-FURROW HOLE-SOWING DROUGHT-RESISTANT CULTIVATION METHOD FOR PROSO CEREAL CROPS ~71:Inner Mongolia Agricultural University, No.306 Zhaowuda Road, Saihan District, Hohhot City, Inner Mongolia Autonomous Region, 010018, People's Republic of China;Oat Industry Research Center of Inner Mongolia Agricultural University, No. 96 Daxue East Road, Saihan District, Hohhot City, Inner Mongolia Autonomous Region, 010013, People's Republic of China

~72: LIU, Jinghui;MI, Junzhen;WANG, Jinjin;WANG, Lin;WANG, Peixin;WANG, Xiquan;XU, Zhongshan;ZHANG, Junzhen;ZHAO, Baoping~

2025/01261 ~ Complete ~54:LEG FLEXIBILITY STRETCHING TRAINING DEVICE FOR PATIENTS WITH MYOSITIS AND SARCOPENIA ~71:AFFILIATED HOSPITAL OF HEBEI UNIVERSITY, No. 212 Yuhua East Road, Lianchi District, Baoding City, Hebei Province, People's Republic of China ~72: WANG Zhimin;WU Xiaoxi;YANG Ling;ZHANG Xia~

2025/01262 ~ Complete ~54:MULTILINGUAL ADAPTIVE TEXT ONLINE TRANSLATION METHOD ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: GENG Sha;LIU Ning;ZHENG Zheng~

2025/01265 ~ Complete ~54:RED MUD-BASED ROAD GROUTING MATERIAL AND PREPARATION METHOD THEREOF ~71:GUANGXI TRANSPORTATION SCIENCE AND TECHNOLOGY GROUP CO.,LTD., No. 158 Xinkang West Road, Xixiangtang District, Nanning, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: JIANG Tinghui;JIAO Xiaodong;LI Shuyang;XIONG Kuiyuan;YAN Zhiming;ZHANG Yangpeng;ZHONG Min~

2025/01269 ~ Complete ~54:ESTIMATION METHOD FOR DAMAGE RATE OF HOUSING PROPERTY CAUSED BY TYPHOON FLOOD DISASTERS ~71:China Institute of Water Resources and Hydropower Research, 20, Chegongzhuang West Road, Haidian District, Beijing, 100038, People's Republic of China ~72: Akiyuki Kawasaki;JIANG Wei;LUO Gan;PANG Zhiguo;SHANG Yizi;SONG Wenlong;WANG Yanyun;YAN Denghua~

2025/01274 ~ Complete ~54:PLEUROTUS PULMONARIUS STRAIN FOR DECOLORIZATION AND COD DEGRADATION IN SEWAGE AND USE THEREOF ~71:Jilin Agricultural University, No.2888, Xincheng Street, Nangan District, Changchun City, Jilin Province, 130118, People's Republic of China ~72: HU Jiajun;LI Xuefei;LI You;LI Yu;TUO Yonglan;ZHANG Bo;ZHANG Tong~ 33:CN ~31:2022116961569 ~32:28/12/2022

2025/01281 ~ Complete ~54:ALUMINUM-SILICON-PLATED STEEL PLATE AND THERMOFORMED COMPONENT, AND MANUFACTURING METHODS THEREFOR ~71:Baoshan Iron & Steel Co., Ltd., No. 885, Fujin Road, Baoshan District, SHANGHAI 201900, CHINA (P.R.C.), People's Republic of China ~72: JIN, Xinyan;LIU, Hao;MA, Xuedan;TAN, Ning~ 33:CN ~31:202210869048.0 ~32:22/07/2022

2025/01285 ~ Complete ~54:COMPOSITION FOR DISSOLVING AN OILY COMPOUND IN WATER ~71:AFFIX LABS OY, P.O. Box 176, Helsinki, 00101, Finland ~72: KASPAR KOCH;STAN COENRARD MARIE FRANSSEN~ 33:NL ~31:2032600 ~32:26/07/2022

2025/01264 ~ Complete ~54:EROSION-RESISTANT CONCRETE AND PREPARATION METHOD THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China;St.Petersburg State University of Architecture and Civil Engineering, 4th Red Army No.2 Street, St. Petersburg, Russian Federation ~72: Korolev Evgeny Valerievich;LI Xiaodong;ZHAO Yaqi~

2025/01279 ~ Complete ~54:METHODS OF ADMINISTERING BELUMOSUDIL FOR TREATMENT OF CHRONIC GRAFT VERSUS HOST DISEASE IN PATIENT SUBPOPULATIONS ~71:KADMON CORPORATION, LLC, 55 Corporate Drive, Bridgewater, United States of America ~72: PATEL, Jeegar~

- APPLIED ON 2025/02/12 -

2025/01318 ~ Complete ~54:FLUORESCENT PROBE METHOD GENE DETECTION KIT ~71:ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, NO. 168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: ZHANG, Hongzhen;ZHAO, Feng~

2025/01332 ~ Complete ~54:FILLER METAL FOR WELDING OF DISSIMILAR WELDS ~71:Outokumpu Oyj, Salmisaarenranta 11, HELSINKI 00180, FINLAND, Finland ~72: LINDNER, Stefan~ 33:EP ~31:22189097.3 ~32:05/08/2022

2025/01316 ~ Complete ~54:FULLY AUTOMATIC ATTACHING TYPE LASER DIE-CUTTING APPARATUS AND PROCESS ~71:SICHUAN XINFURUI TECHNOLOGY DEVELOPMENT CO., LTD., Huazheng Electronic Industrial Park, Group 8, Haifeng Village, Hebian Town, Mianyang High-tech Zone, Mianyang, Sichuan, 621000, People's Republic of China ~72: FAN YANG;KANGKANG WANG;WENLONG YIN~ 33:CN ~31:202411974909.7 ~32:31/12/2024

2025/01326 ~ Complete ~54:BATTERY CABINET AND ENERGY STORAGE SYSTEM USING SAME ~71:BYD COMPANY LIMITED, No. 3009, BYD Road, Pingshan, People's Republic of China ~72: CAO, Hu;SUI, Jiahai;YIN, Xiaoqiang;YIN, Xueqin~ 33:CN ~31:202210987305.0 ~32:17/08/2022

2025/01333 ~ Complete ~54:IMPROVED ENZYMIC MODIFICATION OF PHOSPHOLIPIDS IN FOOD ~71:INTERNATIONAL N&H DENMARK APS, Parallelvej 16, 2800, Kongens Lyngby, Denmark ~72: ADITYA BHALLA;AURÉLIE GAMMELIN;CAROL MARIE FIORESI;DONALD E WARD;JENS FRISBAEK SØRENSEN;LENE KRAGH;LONE BROEND MILLER;MENG HONG HENG;ROBERT JAMES PRATT II;STEVEN SUNGJIN KIM;SVEND HAANING;TINA LILLAN JØERGENSEN;VINNI HØYER LILLELUND~ 33:US ~31:63/368,530 ~32:15/07/2022

2025/01315 ~ Complete ~54:DATA SORTING AND CLASSIFICATION DEVICE FOR MANAGING SCIENTIFIC AND ENGINEERING RESEARCH ~71:HAOJING COLLEGE OF SHAANXI UNIVERSITY OF SCIENCE & TECHNOLOGY, UNIFIED WEST ROAD, FENGXI NEW CITY, XIXIAN NEW AREA, People's Republic of China ~72: YANG, Zhe~

2025/01317 ~ Complete ~54:HEPATITIS B VIRUS (HBV) KNOCKOUTS ~71:EMENDO BIO INC., 1013 Centre Road, Suite 403-b Wilmington, Delaware 19805, United States of America ~72: RAFI EMMANUEL~ 33:US ~31:63/224,581 ~32:22/07/2021

2025/01328 ~ Complete ~54:ANTIBODY-DRUG CONJUGATE INCLUDING MUTANT FC REGION ~71:Daiichi Sankyo Company, Limited, 3-5-1, Nihonbashi Honcho, Chuo-ku, TOKYO 1038426, JAPAN, Japan ~72: CHIHARA, Masataka;HARA, Kyoko;KADOHIRA, Mariko;NAGAOKA, Nobumi;SHINOZAKI, Naoya;TSUDA, Masashi~ 33:JP ~31:2022-135598 ~32:29/08/2022

2025/01288 ~ Provisional ~54:FRAGRANCE DISPLAY AND DISPENSING ARRANGEMENT FOR EVENTS ~71:PERFUME ARTS COLLECTION (PTY) LTD., 14 Cormorant Street, La Como Lifestyle Estate, PARKHAVEN, Boskburg 1459, Gauteng, SOUTH AFRICA, South Africa ~72: GOUVEIA, Chantel Gomes~

2025/01292 ~ Provisional ~54:GUMMIES AND JELLY SWEETS SHAPED LIKE SOFTWARE APP ICONS AND EMOJIS ~71:Shaun Sehopotso Molokwane, Ga-Kgapane, Mesopotamia, South Africa ~72: Shaun Sehopotso Molokwane~

2025/01302 ~ Complete ~54:ROAD SOLID WASTE-BASED CEMENTING MATERIAL FOR REPLACING CEMENT AND PREPARATION METHOD THEREOF ~71:GUANGXI TRANSPORTATION SCIENCE AND TECHNOLOGY GROUP CO.,LTD., No. 158 Xinkang West Road, Xixiangtang District, Nanning, Guangxi Zhuang

Autonomous Region, People's Republic of China ~72: HUANG Zeguo;JIANG Tinghui;JIAO Xiaodong;LI Biyun;LI Shuyang;LIU Binqing;ZHANG Yangpeng;ZHU Songyue~

2025/01312 ~ Complete ~54:BUSINESS ADMINISTRATION TEACHING TOOL ~71:HAOJING COLLEGE OF SHAANXI UNIVERSITY OF SCIENCE & TECHNOLOGY, UNIFIED WEST ROAD, FENGXI NEW CITY, XIXIAN NEW AREA, XI'AN CITY, People's Republic of China ~72: ZHENG, Xubao~

2025/01322 ~ Complete ~54:MULTIPLE TIME ALIGNMENT TIMERS ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DEGHEL, Matha;LADDU, Keeth, Saliya, Jayasinghe~ 33:FI ~31:20225686 ~32:22/07/2022

2025/01325 ~ Complete ~54:MULTISTAGE MULTIPHASE HEAT TREATMENT METHOD FOR IMPROVING TOUGHNESS OF HIGH-STRENGTH LOW-ALLOY STEEL WORKPIECE ~71:BEIJING RESEARCH INSTITUTE OF MECHANICAL&ELECTRICAL TECHNOLOGY CO., LTD.CAM, No.18 Xueqing Road, People's Republic of China ~72: Chao JIANG;Decheng WANG;Ping LUO;Wenliang ZHANG;Xianjun LI~ 33:CN ~31:202410109909.4 ~32:26/01/2024

2025/01331 ~ Complete ~54:GOLF SIMULATOR SYSTEM AND METHOD ~71:TMRW Sports, Inc., 807 South Orlando Avenue, Suite J, WINTER PARK 32789, FL, USA, United States of America ~72: ARMSTRONG, Scott;MACAULAY, Andrew;MCCARLEY, Michael M.~ 33:US ~31:63/399,840 ~32:22/08/2022

2025/01286 ~ Provisional ~54:ELECTRONIC SUBSCRIBER IDENTIFICATION MODULE PLATFORM ~71:VAN DER MERWE, Cornelius Maartin, 11 Clara Anna Fontein Blvd, Clara Anna Fontein Estate, Vissershok rd, South Africa ~72: VAN DER MERWE, Cornelius Maartin~

2025/01290 ~ Provisional ~54:CLEANING DEVICE ~71:UYS, Thompson Johannes, 12 Fynbos Street, De Meule Estate, South Africa ~72: UYS, Thompson Johannes~

2025/01297 ~ Complete ~54:AUTOMATED CUTTING STRUCTURE FOR METAL WIRES USED IN CARBON BRUSH FORMING MACHINE ~71:Zhejiang Industry And Trade Vocational College, No.717, Fudong Road, Lucheng District, Wenzhou City, Zhejiang Province, 325002, People's Republic of China ~72: GAO, Yao;JIA, Chenjing;LI, Yong;TU, Zeyang~

2025/01301 ~ Complete ~54:A BIM-BASED MEASURING DEVICE FOR BUILDING CONSTRUCTION ~71:Chongqing Polytechnic University of Electronic Technology, No. 76, Daxuecheng East Road, Shapingba District, Chongqing City, 401331, People's Republic of China ~72: Yan Liao~

2025/01304 ~ Complete ~54:AUTOMATIC PACKAGING DEVICE FOR LITHIUM BATTERY CELL COATING ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: LI Naigen;ZHA Guojun;Zhang, Xianglin~

2025/01306 ~ Complete ~54:A METHOD AND SYSTEM FOR ASPHALT PAVEMENT MAINTENANCE DECISION- MAKING CONSIDERING MULTI-DIMENSIONAL INFLUENCING FACTORS ~71:CHANG'AN UNIVERSITY, Middle-section of Nan'er Huan Road, Yanta District, Xi'an City, Shanxi Province, 710000, People's Republic of China ~72: Bo YUAN;Chaofan WANG;Jun HAO;Lili PEI;Xueli HAO;Yulong WU;Zhaoyun SUN;Zhenzhen XING~ 33:CN ~31:2025100178996 ~32:06/01/2025

2025/01309 ~ Complete ~54:GENE THERAPY VECTORS FOR TREATING HEART DISEASE ~71:Tenaya Therapeutics, Inc., 171 Oyster Point Boulevard, Suite 500, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: LOMBARDI, Laura~ 33:US ~31:62/976,160 ~32:13/02/2020;33:US ~31:63/047,633 ~32:02/07/2020

2025/01319 ~ Complete ~54:RAW MATERIAL SLICING EQUIPMENT FOR BAMBOO WEAVING CRAFTS
~71:ANHUI ZHENHUA WICKER WOVEN ARTS AND CRAFTS CO., LTD, North of Fuying Rd, Huanggang Town,
Funan County, Fuyang City, Anhui Province, 236300, People's Republic of China ~72: Ma Kaixue;Ma Meng~

2025/01327 ~ Complete ~54:ENERGY STORAGE SYSTEM ~71:BYD COMPANY LIMITED, No. 3009, BYD
Road, Pingshan, People's Republic of China ~72: CAO, Hu;SUI, Jiahai;YIN, Xiaoqiang;YIN, Xueqin~ 33:CN
~31:202222168701.9 ~32:17/08/2022;33:CN ~31:202222175392.8 ~32:17/08/2022

2025/01334 ~ Complete ~54:A PROCESS FOR PRODUCING MANGANESE SULPHATE MONOHYDRATE
~71:MANGANESE METAL COMPANY (PTY) LTD, 15 Heyneke Street, Mbombela, Mpumalanga, 1200, South
Africa ~72: ANCA NACU;PAUL SAVAGE;WALTER FOURIE~ 33:GB ~31:2212989.4 ~32:06/09/2022

2025/01339 ~ Complete ~54:NOVEL INHIBITORS OF HISTONE METHYLTRANSFERASE NUCLEAR
LOCALISATION ~71:THE COUNCIL OF THE QUEENSLAND INSTITUTE OF MEDICAL RESEARCH, 300
Herston Road, Herston, Australia ~72: RAO, Sudha~ 33:AU ~31:2022901957 ~32:13/07/2022

2025/01287 ~ Provisional ~54:A SUPPORT ~71:ROON, Selwin, Jakobus, Emiel, 258B RIGEL AVENUE SOUTH,
WATERKLOOF RIDGE, PRETORIA, 0181, SOUTH AFRICA, South Africa ~72: ROON, Selwin, Jakobus, Emiel~

2025/01299 ~ Complete ~54:COMBINED DEVICE FOR EXTRACTING LITHIUM FROM LITHIUM-CONTAINING
SALT LAKE BRINE ~71:Qinghai Qaidam Comprehensive Geological and Mineral Exploration Institute (Qinghai
Salt Lake Geological Survey Institute), No.12 Kunlun South Road, Golmud City, Haixi Prefecture, Qinghai
Province, People's Republic of China ~72: CHEN Qi;GUO Min;LI Wenwen;LIU Liang;TIE Ying;YIN
Lucheng;YUAN Hongzhan;ZHANG Chan;ZHAO Xuebing~

2025/01305 ~ Complete ~54:RADIO SPECTRUM MONITORING DEVICE FOR PLATEAUS BASED ON DATA
ENCRYPTION ~71:Xizang Chengfengyuan Technology Co., Ltd., No. 602, Building A, Lhasa Innovation and
Entrepreneurship Park, Lhasa Economic and Technological Development Zone, Lhasa,
Xizang Autonomous Region, People's Republic of China ~72: Luo Changhai;Zhang Jie~ 33:CN
~31:2024104698143 ~32:18/04/2024

2025/01311 ~ Complete ~54:CONSTRUCTION COST ACCOUNTING WORKBENCH ~71:XINYU UNIVERSITY,
NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: DONG,
Lianjie;FENG, Sixin;HUANG, Ying;WANG, Juan;WEI, Fang~

2025/01321 ~ Complete ~54:TRANSMISSION OF CONTROL INFORMATION ASSOCIATED WITH SIDELINK
POSITIONING REFERENCE SIGNAL ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO,
FINLAND, Finland ~72: KUMAR, Dileep;LIU, Yong;MICHALOPOULOS, Diomidis;PANZNER, Berthold;SAHIN,
Taylan;SÄILY, Mikko;WILDSCHEK, Torsten~

2025/01324 ~ Complete ~54:SYSTEM AND METHOD FOR MONITORING AND CONTROLLING AIR QUALITY
IN AN ENCLOSED SPACE ~71:BREATHESAFE PTY LTD, 62 Mica Street, Australia ~72: DAO,
Gordon;JOHNSTONE, Nicholas Liam;PERKINS, Tommi Bell;VAN OEVEREN, Sebastiaan Brecht~ 33:AU
~31:2022902399 ~32:22/08/2022

2025/01337 ~ Complete ~54:ANTI CANCER COMBINATIONS COMPRISING CHEMOTHERAPY
~71:ASTELLAS PHARMA INC., 2-5-1, Nihonbashi-Honcho, Chuo-ku, Tokyo, 103-8411, Japan ~72: MAMORU
TASAKI;TAKEYUKI NAGASHIMA~ 33:EP ~31:22190139.0 ~32:12/08/2022

2025/01289 ~ Provisional ~54:TOILET ~71:JOHANNES JACOBUS PETRUS VAN WYK, 8 Windsor Place, 10
Nicholson Avenue, South Africa ~72: JOHANNES JACOBUS PETRUS VAN WYK~

2025/01294 ~ Complete ~54:UNDERGROUND AUXILIARY TRANSPORTATION SYSTEM BASED ON VEHICLE-ROAD COLLABORATIVE POSITIONING ~71:Inner Mongolia Shuangxin Coal Mine Co., Ltd., Halabragou South Liujiagou, Changqing Village, Talahao Town, Dongsheng District, Ordos City, Inner Mongolia Autonomous Region 017000, People's Republic of China ~72: Aidong Sun;Bo Yu;Bo Zhai;Deqing Ma;Feng Bao;Lingcai Ran;Runze Dong;Tao Yue;Xin Li;Yongtao Wang;Yu Ding;Yujie Wu;Zekun Wu~ 33:CN ~31:202411449521.5 ~32:17/10/2024

2025/01298 ~ Complete ~54:GREEN HIGH-PERFORMANCE POLYCARBOXYLATE SUPERPLASTICIZER AND PREPARATION METHOD THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: HU Hongwei;LI Xiaodong;LI Xiaoyan~

2025/01300 ~ Complete ~54:CROSS DOMAIN COLLABORATIVE CONTROL SYSTEM AND METHOD FOR UNMANNED INTELLIGENT UNITS ~71:Hainan Flyer Science and Technology Co.,Ltd., Room 01, 03, 04, 23A (24th) Floor, Unit 2, Haikuo Sky Guorui City (Boshiyuan) Office Building, No. 10 East Daying Road, Meilan District, Haikou City, Hainan Province, 570203, People's Republic of China ~72: Chen Jun;Li Xinghong;Weng Zelong~

2025/01307 ~ Complete ~54:DRUG CONSUMABLES STORAGE SHELF ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: FU, Haobo;FU, Huanhuan;HUANG, Qin;LI, Lingying;LI, Yiqun;SUN, Yun~

2025/01313 ~ Complete ~54:PORTABLE DRAWING PLATE FOR BUSINESS MANAGEMENT ~71:HAOJING COLLEGE OF SHAANXI UNIVERSITY OF SCIENCE & TECHNOLOGY, UNIFIED WEST ROAD, FENGXI NEW CITY, XIXIAN NEW AREA, People's Republic of China ~72: ZHENG, Xubao~

2025/01329 ~ Complete ~54:A METHOD OF MANAGEMENT OF FLY ASHES FROM THE COMBUSTION OF PETROLEUM PRODUCTS ~71:Re-Solve Sp. z o.o., ul. Toruńska 52, MALBORK 82-200, POLAND, Poland ~72: CYMAŃSKI, Mateusz;OLEJARCZYK, Małgorzata;PAUKSZTA, Dominik;SZOSTAK, Marek;SZYMAŃSKA, Joanna;URBANIĄK, Włodzimierz;ZIUZIAKOWSKI, Kamil~ 33:PL ~31:P.441757 ~32:18/07/2022;33:PL ~31:P.441758 ~32:18/07/2022;33:PL ~31:P.441759 ~32:18/07/2022;33:PL ~31:P.441763 ~32:18/07/2022

2025/01336 ~ Complete ~54:ANTI CANCER COMBINATIONS COMPRISING CHEMOTHERAPY ~71:ASTELLAS PHARMA INC., 2-5-1, Nihonbashi-Honcho, Chuo-ku, Tokyo, 103-8411, Japan ~72: TAKEYUKI NAGASHIMA~ 33:EP ~31:22190142.4 ~32:12/08/2022

2025/01338 ~ Complete ~54:THERAPEUTIC COMPOSITION, METHODS, AND USES FOR THE CONTROL OF SEIZURES ~71:NEUROPRO THERAPEUTICS, INC., PO Box 698 Yachats, Oregon 97498, United States of America ~72: DARYL W HOCHMAN~ 33:US ~31:63/398,480 ~32:16/08/2022

2025/01291 ~ Provisional ~54:ROCK BOLT WITH DETACHABLE PREFABRICATED PADDLES ~71:DURINS BOON MINING (PTY) TLD, 2 Avenue de la Sante, BelAire Winelands Estate, South Africa ~72: CAWOOD, Martin~

2025/01293 ~ Complete ~54:FOREST FIRE PROTECTION METHOD AND DEVICE BASED ON INDUSTRIAL INTERNET ~71:BOZHOU VOCATIONAL AND TECHNICAL COLLEGE, NO. 1625 YAODU ROAD, QIAOCHENG DISTRICT, BOZHOU CITY,, People's Republic of China ~72: TAN, ChengBing~

2025/01296 ~ Complete ~54:METHOD AND APPLICATION OF EXPRESSING SWEET PLANT PROTEIN USING MICROORGANISMS ~71:Shanghai Genryan Biotechnology Co., Ltd, 5th Floor, Building 11, No. 6055 Jinhai Road, Fengxian District, Shanghai, People's Republic of China;Shanghai Trichoderma Biotechnology Co.,

Ltd, No. 2915 Yanqian Road, Qingcun Town, Fengxian District, Shanghai, People's Republic of China ~72: CAI Wanchuan;YAO Xueling~

2025/01308 ~ Complete ~54:GENE THERAPY VECTORS FOR TREATING HEART DISEASE ~71:Tenaya Therapeutics, Inc., 171 Oyster Point Boulevard, Suite 500, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: LOMBARDI, Laura~ 33:US ~31:62/976,160 ~32:13/02/2020;33:US ~31:63/047,633 ~32:02/07/2020

2025/01310 ~ Complete ~54:TEACHING MODEL FOR NEUROLOGY NURSING ~71:THE FIRST AFFILIATED HOSPITAL OF HENAN UNIVERSITY OF CM, NO. 19 RENMIN ROAD, JINSHUI DISTRICT, ZHENGZHOU CITY, People's Republic of China ~72: QIN, Yuanling~

2025/01330 ~ Complete ~54:METHOD FOR PRODUCING AMINES ~71:Consejo Superior de Investigaciones Científicas (CSIC), C/ Serrano 117, MADRID 28006, SPAIN, Spain;Universitat Politècnica de València, Servicio de Promoción y Apoyo a Investigación, Innovación y Transferencia i2T Camí de Vera, s/n Edificio 8G - Acceso A - Planta 3, VALENCIA 46022, SPAIN, Spain ~72: CETERONI, Ilaria;LLOPIS PÉREZ, Sebastián;PRIETO GONZÁLEZ, Gonzalo~ 33:ES ~31:P202230686 ~32:27/07/2022

2025/01295 ~ Complete ~54:METHOD FOR TESTING NDUFAF2 GENE COPY NUMBER BASED ON MULTIPLEX LIGATION-DEPENDENT PROBE AMPLIFICATION ~71:Women and Children's Medical Center Affiliated With Guangzhou Medical University, No. 9 Jinsui Road, Tianhe District, Guangzhou City, Guangdong Province, 510665, People's Republic of China ~72: CHEN, Chen;FU, Fang;JIANG, Fan;LI, Ru;LIAO, Can~ 33:CN ~31:202411237777.X ~32:04/09/2024

2025/01303 ~ Complete ~54:3D MODEL AUTOMATIC SCANNING DEVICE ~71:SHAANXI RAILWAY INSTITUTE, NO.1 EAST SECTION OF ZHANBEI STREET, LINWEI DISTRICT, People's Republic of China ~72: HE, Guowei;JU, Xinfeng;LI, Ligong;LIU, Haiwan;LIU, Shun;LIU, Xinqiang;TIAN, Zhenghua;WANG, Tao;WU, Di~ 33:CN ~31:202510090583X ~32:20/01/2025

2025/01314 ~ Complete ~54:VISUAL DATA DISPLAY DEVICE FOR MANAGEMENT SCIENCE AND ENGINEERING RESEARCH ~71:HAOJING COLLEGE OF SHAANXI UNIVERSITY OF SCIENCE & TECHNOLOGY, UNIFIED WEST ROAD, FENGXI NEW CITY, XIXIAN NEW AREA, People's Republic of China ~72: YANG, Zhe~

2025/01320 ~ Complete ~54:VACUUM PUMP ~71:SHAHIM, Clinton Frederick, 8 Campbell Road, Brendavere, South Africa ~72: SCHMITT, Karl-Heinz;SHAHIM, Clinton Frederick;VISSER, Rudi~ 33:ZA ~31:2022/09359 ~32:22/08/2022

2025/01335 ~ Complete ~54:IMAGE DECODING METHOD AND APPARATUS BASED ON NEURAL NETWORK, IMAGE ENCODING METHOD AND APPARATUS BASED ON NEURAL NETWORK, AND DEVICE THEREOF ~71:HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD., No.555, Qianmo Road, Binjiang District, Hangzhou, 310051, People's Republic of China ~72: FANGDONG CHEN;XIAOYANG WU;ZONGMIAO YE~ 33:CN ~31:202210834031.1 ~32:14/07/2022

2025/01323 ~ Complete ~54:POLYMORPHIC FORM OF GLP-1R AGONIST, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:THERAPEUTICS (SUZHOU) NEW DRUG RESEARCH AND DEVELOPMENT CO., LTD, Unit 603, Building B1, BioBAY Phase I, No. 218 Xinghu Street, Suzhou Industrial Park, Suzhou, China (Jiangsu) Pilot Free Trade Zone Suzhou, People's Republic of China ~72: HU, Yang;NIU, Zhangming;ZHANG, Long~ 33:CN ~31:202210843897.9 ~32:18/07/2022;33:CN ~31:202210845410.0 ~32:18/07/2022

- APPLIED ON 2025/02/13 -

2025/01350 ~ Complete ~54:MACHINE FOR TRANSPARENT ENCRYPTION AND SECURE FILE SHARING IN CLOUD STORAGE ~71:Nour Mahmoud Khafajah, Mustafa Kamel St., Eastern District, P.O Box 21141, Irbid, Jordan;Osama Ahmed Khashan, Research and Innovation Centers, Rabdan Academy, P.O. Box 114646, Abu Dhabi, United Arab Emirates ~72: Nour Mahmoud Khafajah;Osama Ahmed Khashan~

2025/01353 ~ Complete ~54:MOULD AND METHOD FOR MAKING A CAP FOR A CONTAINER ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: PIERO MARETTI;ROBERTO MONDINI~ 33:IT ~31:102022000019038 ~32:16/09/2022

2025/01362 ~ Complete ~54:ENTERPRISE RISK MANAGEMENT AND PROTECTION ~71:Sontiq, Inc., 920 Franklin Square Drive, Suite 250, NOTTINGHAM 21236, MD, USA, United States of America ~72: MARCHINI, Kyle Andrew;PASCUAL, III, Alphonse Roland;VAN DYKE, James E.~ 33:US ~31:63/395,573 ~32:05/08/2022;33:US ~31:63/417,525 ~32:19/10/2022

2025/01342 ~ Provisional ~54:A COLLAPSIBLE PROTECTIVE HOUSING FOR A LOAF OF BREAD ~71:Maryna Van Den Berg, 32 MOLTENO ROAD, ZWARTKOP,, South Africa ~72: Maryna Van Den Berg~

2025/01360 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: AUSSANT, Emmanuel~ 33:GB ~31:2210341.0 ~32:14/07/2022

2025/01368 ~ Complete ~54:STACKABLE MOULDED CONTAINER WHICH IS MADE OF A THERMOPLASTIC MATERIAL AND HAS A HANDLE ~71:B. BRAUN AVITUM AG, Schwarzenberger Weg 73-79, Germany ~72: DINGWERTH, Lena;FIEBIG, Dinah;HAGE, Thorsten~ 33:DE ~31:10 2022 118 053.0 ~32:19/07/2022

2025/01341 ~ Provisional ~54:A DEVICE FOR HANGING PICTURE FRAMES AND OTHER OBJECTS TO A VERTICAL SUPPORT SURFACE ~71:NEW IDEAS (PTY) LTD., 52A Dawnclyffe Road, Westville, Durban, South Africa ~72: ANDRE SEAN ARNULPHY;ETIENNE IVAN ARNULPHY;ROGER JEAN ARNULPHY~

2025/01343 ~ Complete ~54:METHODS FOR DETECTING AAV ~71:GENZYME CORPORATION, 500 Kendall Street, United States of America ~72: JIN, Xiaoying;LIU, Lin;O'RIORDAN, Catherine, R.;ZHANG, Kate~ 33:US ~31:62/375,314 ~32:15/08/2016

2025/01346 ~ Complete ~54:PROKARYOTIC EXPRESSION PLASMID FOR RECOMBINANT FELINE MACROPHAGE-COLONY STIMULATING FACTOR (FM-CSF), METHOD OF CONSTRUCTING SAME AND USE THEREOF ~71:Shanghai Veterinary Research Institute, CAAS (Shanghai Branch of China Animal Health and Epidemiology Center), No.518, Ziyue Road, Minhang District, People's Republic of China ~72: LI, Guoxin;LIU, Liping;LIU, Yun;YU, Lingxue~ 33:CN ~31:CN 2025100938814 ~32:21/01/2025

2025/01345 ~ Complete ~54:AN APPARATUS FOR DETECTING PARTIAL DISCHARGE ~71:OMEGA AVIATION LIMITED, 14 Devoke Way, Walton-On-Thames, United Kingdom ~72: HAMID, Aaiza;KHAN, Saad Saleem;LARKIN, Stephen;OMAR, Muhammad;QAYYUM, Hafza;SIDDIQUE, Husnain;USMAN, Muhammad~

2025/01349 ~ Complete ~54:FORWARD-LEANING CUSHIONING EXERCISE BIKE ~71:QINGDAO KINGDOM HEALTH INDUSTRY CO., LTD, No.117, Jifu Road, Chengyang District, Qingdao, People's Republic of China ~72: CHEN, Wensheng;MAO, Yongjun;SUN, Rongjian;WANG, Zhixiong~

2025/01359 ~ Complete ~54:COATING FOR MEDICAL DEVICE ~71:BIOTYX MEDICAL (SHENZHEN) CO., LTD., 4F, Building No.4, Jinxiu Science Park, Wuhe Avenue, Longhua District, Shenzhen, People's Republic of

China ~72: LI, Haifeng;LI, Yunfei;QI, Haiping;ZHANG, Deyuan;ZHANG, Wanqian~ 33:CN ~31:202210907948.X
~32:29/07/2022

2025/01367 ~ Complete ~54:STACKABLE MOULDED CONTAINER FOR A MEDICAL / PHARMACEUTICAL
PREPARATION, WHICH MOULDED CONTAINER IS MADE OF A THERMOPLASTIC MATERIAL ~71:B.
BRAUN AVITUM AG, Schwarzenberger Weg 73-79, Germany ~72: DINGWERTH, Lena;FIEBIG, Dinah;HAGE,
Thorsten~ 33:DE ~31:10 2022 118 053.0 ~32:19/07/2022

2025/01357 ~ Complete ~54:VISUAL ANALYSIS OF SPERM DNA FRAGMENTATION ~71:VITRUVIANMD PTE
LTD, 3 Fraser Street, No. 05-24, DUO Tower, Singapore ~72: JACOBS, Byron Alexander;LIN, Pu-Ju;SHAIK,
Ifthakaar~ 33:ZA ~31:2022/11329 ~32:17/10/2022

2025/01366 ~ Complete ~54:SODIUM CHANNEL BLOCKING COMPOUNDS, DERIVATIVES THEREOF, AND
METHODS OF THEIR USE ~71:Latigo Biotherapeutics, Inc., 1300 Rancho Conejo Blvd., Suite 305, THOUSAND
OAKS 91320 , CA, USA, United States of America ~72: BAJJI, Ashok;BALKOVEC, James Michael;KAUFMAN,
Michael D.~ 33:US ~31:63/405,094 ~32:09/09/2022;33:US ~31:63/405,096 ~32:09/09/2022;33:US
~31:63/405,120 ~32:09/09/2022;33:US ~31:63/405,151 ~32:09/09/2022

2025/01351 ~ Complete ~54:MARALIXIBAT SOLID FORMS, INTERMEDIATES AND PROCESSES OF MAKING
SAME ~71:MIRUM PHARMACEUTICALS, INC., 989 E Hillsdale Blvd., Suite 300, United States of America ~72:
PHIASIVONGSA, Pasit~ 33:US ~31:63/406,556 ~32:14/09/2022

2025/01356 ~ Complete ~54:NOVEL SELECTIVE INHIBITORS OF LYSYL OXIDASES ~71:SYNTARA LIMITED,
20 Rodborough Road, Frenchs Forest, New South Wales, 2086, Australia ~72: ALISON DOROTHY
FINDLAY;DIETER WOLFGANG HAMPRECHT;MANDAR DEODHAR;WOLFGANG JAROLIMEK~ 33:AU
~31:2022902483 ~32:29/08/2022

2025/01371 ~ Provisional ~54:CLEANFLOW/UROCLEASE ~71:MR TSHEGOFATSO VUSI MAPHALLE, 137
TAMARIND STREET LOTUS GARDENS PRETORIA WEST, South Africa ~72: MR TSHEGOFATSO VUSI
MAPHALLE~

2025/01364 ~ Complete ~54:MINING TRAILER, MINING VEHICLE AND METHOD ~71:Sandvik Mining and
Construction Lyon SAS, 19 Avenue Maréchal de Lattre de Tassigny, MEYZIEU 69330, FRANCE, France ~72:
BARRAUD, Remy;DEMI, Laurent~ 33:EP ~31:22315245.5 ~32:25/10/2022

2025/01365 ~ Complete ~54:METHOD FOR PREPARING HIGH-PURITY VANADIUM CHEMICALS FROM
VANADIUM RAW MATERIALS HAVING HIGH MOLYBDENUM CONTENTS ~71:GfE Metalle und Materialien
GmbH, Höfener Straße 45, NÜRNBERG 90431, GERMANY, Germany ~72: BEYER, Thomas;RADKE,
Matthias;WITTMANN, Thomas~

2025/01370 ~ Complete ~54:VHH ANTIBODY CONJUGATES ~71:ABDERA THERAPEUTICS INC., 901
Gateway Blvd., South San Francisco, United States of America ~72: ABRAMS, Michael J.;JUDGE, Adam
Daniel;MACKAY, Douglas Bruce;MANDEL, Alexander Laurence;VISWAS, Raja Solomon~ 33:US
~31:63/373,183 ~32:22/08/2022

2025/01354 ~ Complete ~54:DRINKING VESSEL WITH MAGNETIC CLOSURE MECHANISM AND LATCHING
CLOSURE MECHANISM ~71:RUNWAY BLUE, LLC, 250 S 850 E Lehi, Utah, 84043, United States of America
~72: DAVID O MEYERS;JOHN R OMDAHL II;PAUL JAMES FAERBER~ 33:US ~31:63/402,266
~32:30/08/2022

2025/01355 ~ Complete ~54:METHODS OF TREATMENT OF NASH USING MUTANT FGF-21 PEPTIDE CONJUGATES ~71:89BIO, INC., 655 Montgomery Street, Suite 1500, San Francisco, California, 94111, United States of America ~72: HARRY H MANSBACH;MAYA MARGALIT~ 33:US ~31:63/373,352 ~32:24/08/2022;33:US ~31:63/373,694 ~32:26/08/2022;33:US ~31:63/382,058 ~32:02/11/2022;33:US ~31:63/482,078 ~32:30/01/2023;33:US ~31:63/494,011 ~32:04/04/2023;33:US ~31:63/510,041 ~32:23/06/2023

2025/01344 ~ Complete ~54:EUKARYOTIC EXPRESSION PLASMID FOR RECOMBINANT PORCINE MACROPHAGE-COLONY STIMULATING FACTOR (PM-CSF), METHOD OF CONSTRUCTING SAME AND USE THEREOF ~71:Shanghai Veterinary Research Institute, CAAS (Shanghai Branch of China Animal Health and Epidemiology Center), No.518, Ziyue Road, Minhang District, People's Republic of China ~72: LI, Guoxin;LIU, Liping;LIU, Yun;YU, Lingxue~ 33:CN ~31:CN202510086178.0 ~32:20/01/2025

2025/01348 ~ Complete ~54:TRAINING APPARATUS WITH DOUBLE SWING ARMS ~71:QINGDAO KINGDOM HEALTH INDUSTRY CO., LTD, No.117, Jifu Road, Xifu Town Street, Chengyang District, Qingdao, People's Republic of China ~72: CHEN, Wensheng;MAO, Yongjun;SUN, Rongjian;WANG, Zhixiong~

2025/01352 ~ Complete ~54:SUTURING INSTRUMENT ~71:THE FOURTH MEDICAL CENTER, CHINESE PLA GENERAL HOSPITAL, 51 Fucheng Road, Haidian District, Beijing, 100048, People's Republic of China ~72: CHANG LIU;CHUNBAO LI;HONGPING DUAN;JUN ZHAO;LONG WANG;MINGXIN WANG;SHOUHAN LIN;TONG ZHANG;XINYANG PENG;YAOTING WANG;ZEHAO WANG~ 33:CN ~31:2023111905571 ~32:15/09/2023

2025/01361 ~ Complete ~54:CRYSTAL FORM OF PYRAZOLOPYRIMIDINE ESTER COMPOUND AND PREPARATION METHOD THEREFOR ~71:Shanghai Maius Pharmaceutical Co. Ltd., Room 913, Building 1, No.515, Huanke Road, Pudong New Area, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: GUO, Yekun;HU, Xiang;HUANG, Dujian;SHI, Mingfeng~ 33:CN ~31:202210984527.7 ~32:17/08/2022

2025/01347 ~ Complete ~54:LONG-ACTING AMYLIN RECEPTOR AGONISTS AND USES THEREOF ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ABRAHAM, Milata Mary;BRIERE, Daniel Anthony;GUO, Lili;KEYSER, Samantha Grace Lyons;LEE, John;QU, Hongchang~ 33:US ~31:63/155,894 ~32:03/03/2021

2025/01363 ~ Complete ~54:THERAPY COMPRISING ANTI-CD19 ANTIBODY AND EZH2 MODULATORS ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: HEITMÜLLER, Christina;REDDY, Archana;SCHAADT, Eveline~ 33:US ~31:63/398,634 ~32:17/08/2022;33:US ~31:63/417,812 ~32:20/10/2022

2025/01358 ~ Complete ~54:CELL CRYOPRESERVATIVE FORMULATIONS AND METHODS OF USE ~71:ASTELLAS INSTITUTE FOR REGENERATIVE MEDICINE, 9 Technology Drive, United States of America ~72: HACHIYA, Shohei;INOUE, Atsushi;KOJIMA, Hiroyuki;PAULSEN, Samantha Jean~ 33:US ~31:63/400,382 ~32:23/08/2022;33:US ~31:63/430,976 ~32:07/12/2022

2025/01369 ~ Complete ~54:THERMAL DESALINATION SYSTEM ~71:RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK, 230 West 41th Street, 7th Floor,, United States of America;SUN FRESH WATER, LLC, 8 Spanish Waters Drive, Ormond Beach, United States of America ~72: D'ALBA, Joseph James;FARINICK, George;ST. PIERRE, George Victor~ 33:US ~31:63/389,678 ~32:15/07/2022;33:US ~31:63/401,874 ~32:29/08/2022;33:US ~31:63/488,636 ~32:06/03/2023;33:US ~31:63/503,086 ~32:18/05/2023

- APPLIED ON 2025/02/14 -

2025/01397 ~ Complete ~54:POWER BAND FIXATOR FOR POWER RACK ~71:Maxim Andreevich Chernyaev, ul. Yasnogorskaya, d. 17, korp. 2, kv. 312, Moscow, 117463, Russian Federation ~72: Maxim Andreevich Chernyaev~ 33:RU ~31:2025100132 ~32:09/01/2025

2025/01372 ~ Provisional ~54:ARTIFICIAL INTELLIGENCE SEARCH ENGINES APPS NATURAL LANGUAGE PROCESSING,MACHINE LEARNING APPS SCANNING TYPE TRANSLATOR PEN OVER TEXT TO SPEECH - ARTIFICIAL INTELLIGENCE SEARCH ENGINES APPS SCAN WORDS, PHRASES, OR FULL SENTENCES WITH OUR DIGITAL SCANNING PEN TO TURN THEM INTO AUDIO SPEAK LANGUAGES ALOUD.THIS CAN BE DONE WITH ARTIFICIAL INTELLIGENCE SEARCH ENGINES APPS BUILT-IN SMARTPHONES,AND TABLETS. ~71:AHMED WASEEF SAIB, 24 park avenue desainagar, South Africa ~72: AHMED WASEEF SAIB~

2025/01376 ~ Provisional ~54:AN ANTI-BLAST SHUTTER ~71:ITA SECURITY PRODUCTS AND SERVICES COMPANY (PTY) LTD, 245 3rd Avenue Bredell, Kempton Park, 1619, South Africa ~72: KENNETH LOUIS KOEN~

2025/01417 ~ Complete ~54:ACTOR-CRITIC LEARNING AGENT PROVIDING AUTONOMOUS OPERATION OF A TWIN ROLL CASTING MACHINE ~71:NUCOR CORPORATION, 1915 Rexford Road, United States of America ~72: BLEJDE, Walter N.;CHIU, George T. C.;NOONING, Robert Gerard;PARKES, Ivan David;RUAN, Jianqi;SUNDARAM, Neera Jain~ 33:US ~31:63/389,697 ~32:15/07/2022;33:US ~31:63/448,911 ~32:28/02/2023

2025/01413 ~ Complete ~54:MULTI-DOMAIN BINDING MOLECULES ~71:Immunocore Limited, 92 Park Drive, Milton Park, ABINGDON OX14 4RY, UNITED KINGDOM, United Kingdom ~72: GEORGES, Amandine;HEARTY, Stephen;MAK, Lok Hang~ 33:US ~31:63/371,861 ~32:18/08/2022

2025/01422 ~ Complete ~54:DLL3 BINDING MOLECULES AND USES THEREOF ~71:ABDERA THERAPEUTICS INC., 901 Gateway Blvd., United States of America ~72: ABRAMS, Michael J.;CUMMINS, Emma Jane;JUDGE, Adam Daniel;MANDEL, Alexander Laurence;VISWAS, Raja Solomon~ 33:US ~31:63/373,184 ~32:22/08/2022;33:US ~31:63/477,261 ~32:27/12/2022

2025/01394 ~ Complete ~54:MULTI-MODAL RESPONSE PREDICTION METHOD AND SYSTEM FOR IMMUNOTHERAPY OF HEPATOCELLULAR CARCINOMA ~71:Nanfeng Hospital, Southern Medical University, 1838 North Guangzhou Avenue, Baiyun District, Guangzhou City, Guangdong Province, People's Republic of China ~72: JIANG Pu;WANG Jiaren;XIAO Lushan~

2025/01395 ~ Complete ~54:FALL ARREST SOLUTION ~71:SASOL SOUTH AFRICA LIMITED, Sasol Place 50 Katherine Street Sandton, South Africa ~72: LOMBARD, Jacques;REDELINGHUIS, Anton~ 33:ZA ~31:2024/01848 ~32:05/03/2024

2025/01398 ~ Complete ~54:A TRAIN AND METHOD OF ADAPTING/OPERATING A TRAIN ~71:ROBERT PHILLIP BRIGDEN, 20 Oranje Avenue, Gallo Manor, Sandton, 2052, South Africa ~72: ROBERT PHILLIP BRIGDEN~ 33:ZA ~31:2024/01658 ~32:27/02/2024

2025/01404 ~ Complete ~54:A KEY BLANK, A KEY, AND A CYLINDER LOCK AND KEY COMBINATION ~71:WINLOC AG, P.O. Box 4233, Switzerland ~72: WIDÉN, Bo~ 33:US ~31:17/892,938 ~32:22/08/2022

2025/01409 ~ Complete ~54:PROCESS FOR RECYCLING POLYETHYLENE TEREPHTHALATE DETERMINED BY INTRINSIC VISCOSITY OF POLYETHYLENE TEREPHTHALATE ~71:REVALYU RESOURCES GMBH, Reinhard-Heraeus-Ring 23, Germany ~72: MAKHIJA, Suresh L.;NEUMANN, Christian;YEOLA, Dhanvant~ 33:EP ~31:22196676.5 ~32:20/09/2022

2025/01477 ~ Provisional ~54:TITLE DEED FINANCING ~71:Sibusiso Kekana, 56 Woburn Circle, Chartwell North Estate, South Africa ~72: Sibusiso Kekana~ 33:ZA ~31:1 ~32:01/02/2025;33:ZA ~31:2 ~32:01/02/2025

2025/01373 ~ Provisional ~54:FIRE HYDRANT ROCKET ~71:John S.E Bezuidenhout, 8 Martha Street, Kloofendal Ext 3, Roodepoort, Gauteng, South Africa; Trevor Kilian, 867 Duiker Street, Allensnek, Roodepoort, Gauteng, 1709, South Africa ~72: Trevor Kilian~

2025/01381 ~ Complete ~54:BREEDING METHOD OF BREEDING PIGS WITH GRAIN SAVING, HIGH LITTER SIZE AND ENVIRONMENTAL PROTECTION ~71:Institute of Animal Husbandry, Henan Academy of Agricultural Sciences, NO.116,Huayuan Road, Jinshui District, Zhengzhou City, Henan Province, 450003, People's Republic of China ~72: GUO Yaping;REN Qiaoling;WANG Xianwei;XING Baosong;YUAN Liwei;ZHANG Hanbing;ZHANG Jiaqing;ZHANG Yongqian~

2025/01382 ~ Complete ~54:PREPARATION PROCESS FOR WATER-SOLUBLE POLYMER LUMINESCENT MATERIAL ~71:LiaoNing Petrochemical University, No. 1, West Section of Dandong Road, Wanghua District, Fushun City, Liaoning Province, People's Republic of China ~72: Shiguang Wan;Shijia Zhou;Shuangshuang Sun;Xiaorong Wang;Ying Yu;Yuanchao He~

2025/01384 ~ Complete ~54:PROCESS FOR COLLABORATIVE IMPROVEMENT OF SOIL BY MICROORGANISMS AND PLANTS ~71:China Railway Academy Group Co., Ltd., 118 Xiyuecheng Street, Jinniu District, Chengdu City, Sichuan Province, 610000, People's Republic of China ~72: CHEN, Wenyan;FU, Rongjie;GAO, Xu;JIANG, Yirun;LI, Shaohua;LI, Tingshan;LIU, Che;QIAO, Shijie;TANG, Wei;WANG, Zhike;YUAN, Pengzhou;ZHAO, Zheng;ZHOU, Xiaoyong~

2025/01386 ~ Complete ~54:CARBON EMISSION SOURCE CLASSIFICATION AND EVALUATION SYSTEM AND METHOD THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: PEI Xiaohong;XU Zihan~

2025/01390 ~ Complete ~54:VALVE UNIT ~71:Evolution Valves (Pty) Ltd., 47 Regency Drive, South Africa ~72: DAVIS, John Mark~ 33:ZA ~31:2024/01352 ~32:14/02/2024

2025/01393 ~ Complete ~54:METHOD FOR TARGET POSITIONING BASED ON GEOGRAPHIC INFORMATION OF MONOCULAR CAMERA ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, Henan Province, 467041, People's Republic of China ~72: CHEN Lianjun;DING Leixiang;GUO Huanhuan;LU Chunyang;WEN Feng;YANG Yun~

2025/01378 ~ Complete ~54:ECOLOGICAL COFFERDAM SUITABLE FOR WETLAND ECOLOGICAL RESTORATION ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: HU Hui;LIU Biao;WANG Yunqiu;ZHANG Ruibo;ZHANG Tingting~

2025/01406 ~ Complete ~54:A KEY BLANK, A CODED KEY AND A CYLINDER LOCK AND KEY SYSTEM WITH IMPROVED STOP ARRANGEMENT ~71:WINLOC AG, P.O. Box 4233, Switzerland ~72: WIDÉN, Bo~ 33:US ~31:17/892,931 ~32:22/08/2022

2025/01419 ~ Complete ~54:FOOD PRODUCT ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: ANNE ZANTINGE;CHRISTOPHER SABATER-LUENTZEL;EVERT VERMANDEL;JENS KOCH;RENATE GEMMA JACOBINE MARIA JACOBS;THOMAS GEORG FRIEDL;TINO RUBESA~ 33:EP ~31:22191841.0 ~32:24/08/2022

2025/01410 ~ Complete ~54:PROCESS FOR RECYCLING POLYETHYLENE TEREPHTHALATE USING A WASHING REACTOR ~71:REVALYU RESOURCES GMBH, Reinhard-Heraeus-Ring 23, Germany ~72: MAKHIJA, Suresh L.;NEUMANN, Christian;YEOLA, Dhanvant~ 33:EP ~31:22196684.9 ~32:20/09/2022

2025/01389 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF WOOD-BASED BORON ADSORBENT ~71:Qinghai Normal University, No.38, Wusixi Road, Chengxi District, Xining, Qinghai, People's Republic of China ~72: Chen Wei;Dong Wenwen;Gao Feiyu;Shi Wei;Sun Pengyu;Sun Zhe;Xue Jimin;Zhang Hengyuan;Zhu Xirui~ 33:CN ~31:2024111077890 ~32:13/08/2024

2025/01401 ~ Complete ~54:RADIOTHERAPY SHEET ~71:ALPHA TAU MEDICAL LTD., 5 Kiryat Hamada Street, Jerusalem, Israel ~72: ARAZI, Lior;DOMANKEVICH, Vered;GAT, Amnon;KELSON, Itzhak;LAX, Shai;LEVY, Dor;MAGEN, Ofer;SCHMIDT, Michael;SEGAL, Ronen~ 33:US ~31:63/405,441 ~32:11/09/2022

2025/01403 ~ Complete ~54:CX3CR1-BINDING COMPOUNDS, USES THEREOF AND RELATED METHODS ~71:ABLYNX N.V., Technologiepark 21, Belgium;SANOFI, 46 Avenue de la Grande, France ~72: LORENT, Eric;MEONI, Paolo;VERHELST, Judith~ 33:EP ~31:22306067.4 ~32:18/07/2022

2025/01380 ~ Complete ~54:POWER BAND FIXATOR FOR GYM RACK ~71:Maxim Andreevich Chernyaev, Yasnogorskaya ul., d. 17, korp. 2, kv. 312, Moscow, 117463, Russian Federation ~72: Maxim Andreevich Chernyaev~ 33:RU ~31:2024133733 ~32:11/11/2024

2025/01399 ~ Complete ~54:A CALCULATION METHOD AND SYSTEM FOR AIRFLOW-ICE CRYSTAL COUPLED INTERACTION IN A COMPRESSOR ~71:Beihang University, No.37 Xueyuan Road, Haidian District, Beijing,P.R. China, People's Republic of China ~72: Bu Xueqin;Lin Guiping;Yu Jia~ 33:CN ~31:2024105224178 ~32:28/04/2024

2025/01405 ~ Complete ~54:PORTABLE CONSUMER ELECTRONIC APPARATUS ~71:SOLAR OUTDOOR LIGHTING SOLUTIONS LIMITED, Harwood House, 43 Harwood Road,, United Kingdom ~72: MAXWELL-BATTEN, Marcus;WONG, Pak Yin Brian~ 33:GB ~31:2211243.7 ~32:02/08/2022

2025/01414 ~ Complete ~54:PROCESS FOR RECYCLING POLYETHYLENE TEREPHTHALATE USING DIFFERENT MONO-ETHYLENE GLYCOL LEVELS ~71:REVALYU RESOURCES GMBH, Reinhard-Heraeus-Ring 23, Germany ~72: MAKHIJA, Suresh L.;NEUMANN, Christian;YEOLA, Dhanvant~ 33:EP ~31:22196682.3 ~32:20/09/2022

2025/01418 ~ Complete ~54:2-HYDROXYPROPYL-BETA-CYCLODEXTRIN AS A CANCER THERAPY NEOADJUVANT OR ADJUVANT ~71:UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, 1 Jan Smuts Avenue, Johannesburg, 2050, South Africa ~72: MANDEEP KAUR;NAAZIYAH ABDULLA;RUTH ARONSON;RUVESH PILLAY;SHANEN PERUMAL~ 33:ZA ~31:2022/08061 ~32:20/07/2022

2025/01423 ~ Provisional ~54:FANTRACK ~71:KHOLOFELO MARUPUTLA JUNIOR MASHATOLE, FLAT NO.375, LITTLE MANHATTAN, South Africa ~72: KHOLOFELO MARUPUTLA JUNIOR MASHATOLE~

2025/01388 ~ Complete ~54:DEVICE FOR DETECTING BEARING CAPACITY OF BRIDGE FOUNDATION CONVENIENT FOR POSITIONING ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CHEN Weili;JIA Senchun;YIN Zhenyu;ZHANG Qihang~

2025/01392 ~ Complete ~54:A REINFORCED CAST-IN-PLACE PILE FOR MARINE ENGINEERING AND A CONSTRUCTION METHOD THEREOF ~71:Beibu Gulf University, No. 12 Binhai Avenue, Binhai New Town,

Qinnan District, Qinzhou City, Guangxi Zhuang Autonomous Region, 535011, People's Republic of China ~72: Chunxiao Wei;Guosheng Yang;Jun Xu;Qing Li;Yang Huang;Zhenliang Lin~

2025/01396 ~ Complete ~54:COMPOSITIONS FOR REMOVING NECROTIC OR INFECTED TISSUES FROM BODY SURFACE LESIONS AND FROM ORAL CAVITY ~71:DEBx Medical Holding B.V., Boompjes 40, ROTTERDAM 3011 XB, THE NETHERLANDS, Netherlands ~72: BIGNOZZI, Carlo Alberto;CARINCI, Francesco;COGO, Alberto~

2025/01402 ~ Complete ~54:HIGH SINR SYNCHRONIZED-BEAMS MOBILE NETWORK AND BASE-STATION ANTENNA DESIGN ~71:MATSING, INC., 12 Mauchly, Unit O Irvine, United States of America ~72: MATITSINE, Serguei;MATYTSINE, Leonid;WILSON, John Stewart~ 33:US ~31:63/397,113 ~32:11/08/2022

2025/01408 ~ Complete ~54:METHOD AND SYSTEM FOR THE AUTOMATED DETECTION OF CONVEYOR BELT FAULTS ~71:Aleksey Gennadevich Pridorozhnyi, ul. Bolshaya Filevskaya, d.3, korp.4, kv.235, Moscow, 121087, Russian Federation ~72: Aleksey Gennadevich Pridorozhnyi~ 33:RU ~31:2023103875 ~32:20/02/2023

2025/01412 ~ Complete ~54:STABILISED SILICIC ACID SOLUTIONS ~71:Barlaa B.V., Herengracht 40, MUIDEN 1398 AB, THE NETHERLANDS, Netherlands ~72: CEPANEC, Ivica~ 33:EP ~31:22188329.1 ~32:02/08/2022

2025/01420 ~ Complete ~54:TISSUE FACTOR ANTIBODY-DRUG CONJUGATES AND USES THEREOF ~71:EXELIXIS, INC., 1851 Harbor Bay Parkway, Alameda, California, 94502, United States of America ~72: BRIAN ALAN MENDELSON;MAXINE BAUZON;PENELOPE M DRAKE;ROBYN M BARFIELD;SEEMA KANTAK;TIFFANY UNSULANGI~ 33:US ~31:63/404,447 ~32:07/09/2022;33:US ~31:63/498,233 ~32:25/04/2023

2025/01379 ~ Complete ~54:MEDICINE-FOOD HOMOLOGOUS EIGHT-TREASURE LIQUID WITH HEALTH-CARE EFFECT AND PREPARATION METHOD THEREFOR ~71:Rui'an Meimin Winery, No. 16 Yucai Road, Changqiao, Tangxia Town, Rui'an City, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Haoxiang HUANG;Zuohua HUANG~

2025/01383 ~ Complete ~54:INTELLIGENT DETECTION METHOD AND SYSTEM FOR PAVEMENT HIDDEN DISEASES ~71:GUANGXI TRANSPORTATION SCIENCE AND TECHNOLOGY GROUP CO.,LTD., No. 158 Xinkang West Road, Xixiangtang District, Nanning, Guangxi Zhuang Autonomous Region, People's Republic of China;Xi'an University of Architecture and Technology, No. 13, Middle Section of Yanta Road, Beilin District, Xi'an, Shaanxi Province, People's Republic of China ~72: GUO Zirui;JIANG Tinghui;JIAO Xiaodong;LI Hui;LI Shuyang;LIU Wenhuan;PANG Jinsong;XIONG Kuiyuan;YAN Zhiming;ZHANG Yangpeng~

2025/01385 ~ Complete ~54:STRUCTURE ADJUSTMENT AND CONTROL METHOD FOR PINUS YUNNANENSIS LOW-FUNCTION FOREST ~71:Institute of Highland Forest Science, Chinese Academy of Forestry, Bailongsi, Panlong District, Kunming City, Yunnan Province, 650233, People's Republic of China ~72: CUI, Kai;CUI, Yongzhong;GAO, Chengjie;LI, Jin;SUN, Xiaomei;ZHANG, Tianyang~

2025/01387 ~ Complete ~54:WATER SAMPLING DEVICE FOR EXTRACTING GAS FROM WATER ~71:Qinghai 906 Engineering Survey and Design Institute, No.278 Delingha Road, Xining City, Qinghai Province, 810010, People's Republic of China;Qinghai Bureau of Environmental Geology Exploration, No. 77 Haiyan Road, Xining City, Qinghai Province, 810010, People's Republic of China ~72: PAN Peichong;QIN Guangxiong;ZHAO Zhen;ZHENG Yuejun~

2025/01391 ~ Complete ~54:PORTABLE AUXILIARY STRUCTURE FOR ANIMAL VACCINATION ~71:Gansu Sheep Breeding Technology Extension Station, Huangcheng Town, Sunan Yugu Autonomous County, Zhangye

City, Gansu Province, 734031, People's Republic of China ~72: Huiqin LV;Jingxuan ZHANG;Wei LI;Weitao DOU;Yujun ZHAO~

2025/01416 ~ Complete ~54:SYSTEM, METHOD AND PROCESS FOR MUON TOMOGRAPHY FOR BLOCK CAVING ~71:IDEON TECHNOLOGIES INC., 4611 Viking Way, Unit 150, Canada ~72: SCHOUTEN, Douglas William~ 33:US ~31:63/403,908 ~32:06/09/2022

2025/01374 ~ Provisional ~54:A HOIST ASSEMBLY WITH A MANUAL OVERRIDE SYSTEM ~71:REBELLO, Glenton William, 708 Old Pretoria Main Road, Wynberg, SANDTON 2090, SOUTH AFRICA, South Africa ~72: REBELLO, Glenton William;WILLOUGHBY, Ryan~

2025/01375 ~ Provisional ~54:CHEMICALLY END-ANCHORED HYBRID ROCK ANCHOR ~71:DURINS BOON MINING (PTY) TLD, 2 Avenue de la Sante, BelAire Winelands Estate, South Africa ~72: CAWOOD, Martin~

2025/01377 ~ Complete ~54:SOLID WASTE-BASED GROUTING MATERIAL FOR ROAD REPAIR AND PREPARATION METHOD THEREOF ~71:GUANGXI TRANSPORTATION SCIENCE AND TECHNOLOGY GROUP CO.,LTD., No. 158 Xinkang West Road, Xixiangtang District, Nanning, Guangxi Zhuang Autonomous Region, People's Republic of China;Xi'an University of Architecture and Technology, No. 13, Middle Section of Yanta Road, Beilin District, Xi'an, Shaanxi Province, People's Republic of China ~72: HUANG Zeguo;JIAO Xiaodong;LI Biyun;LI Hui;LI Shuyang;LIU Wenhuan;PANG Jinsong;XIONG Kuiyuan;YAN Zhiming;ZHANG Yangpeng~

2025/01400 ~ Complete ~54:MILK DERIVED EXOSOMES AND USES THEREOF ~71:VIRGINIA TECH INTELLECTUAL PROPERTIES, INC., 901 PRICES FORK ROAD, 3RD FLOOR, VIRGINIA TECH HOLTZMAN ALUMNI CENTER, BLACKSBURG, VIRGINIA 24061, USA, United States of America ~72: GOURDIE, Robert, G.;JOURDAN, Linda, Jane;MARSH, Spencer~ 33:US ~31:63/389,744 ~32:15/07/2022

2025/01407 ~ Complete ~54:SYSTEM AND METHOD FOR SCANNING THE CONDITION OF A STEEL CORD CONVEYOR BELT OF A BELT CONVEYOR ~71:Aleksey Gennadevich Pridorozhnyi, ul. Bolshaya Filevskaya, d.3, korp.4, kv.235, Moscow, 121087, Russian Federation ~72: Aleksey Gennadevich Pridorozhnyi~ 33:RU ~31:2023101713 ~32:26/01/2023

2025/01411 ~ Complete ~54:PLATED STEEL MATERIAL ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 1008071, JAPAN, Japan ~72: GOTO, Yasuto;ISHII, Kotaro;MITSUNOBU, Takuya;SAITO, Mamoru;TOKUDA, Kohei~ 33:JP ~31:2022-136497 ~32:30/08/2022

2025/01415 ~ Complete ~54:PROCESS FOR RECYCLING POLYETHYLENE TEREPHTHALATE USING GASEOUS AND/OR LIQUID MONO-ETHYLENE GLYCOL ~71:REVALYU RESOURCES GMBH, Reinhard-Heraeus-Ring 23, Germany ~72: MAKHIJA, Suresh L.;NEUMANN, Christian;YEOLA, Dhanvant~ 33:EP ~31:22196680.7 ~32:20/09/2022

2025/01421 ~ Complete ~54:OLEFIN METATHESIS BY REACTIVE DISTILLATION ~71:CHEVRON PHILLIPS CHEMICAL COMPANY LP, P.O. Box 4910, The Woodlands, Texas 77387-4910, United States of America ~72: ENRIQUE J MANCILLAS;JARED T FERN;JEFFREY C GEE;PAUL D HOBSON;SEAN K MCLAUGHLIN;STEVEN M BISCHOF;WEI QI~ 33:US ~31:17/821,375 ~32:22/08/2022

- APPLIED ON 2025/02/17 -

2025/01430 ~ Complete ~54:ARTIFICIAL INTELLIGENCE-BASED NUMERIC PREDICTION AND DECISION SUPPORT SYSTEM ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District,

Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CAI, Jing;KOU, Mengtian;LI, Qihong;LI, Yajie;LIU, Yuxiao;ZHANG, Yao~

2025/01456 ~ Complete ~54:HETEROCYCLIC SIK INHIBITORS ~71:PFIZER INC., 66 Hudson Boulevard East, New York, United States of America ~72: BOOTSMA, Andrea Nicole;EBNER, David Christopher;KUNG, Daniel Wei-Shung;PERRY, Matthew Alexander;SCHMITT, Daniel Copley;STROHBACH, Joseph Walter;THORARENSEN, Atli~ 33:US ~31:63/376,480 ~32:21/09/2022

2025/01458 ~ Complete ~54:WHEEL AXLE SUSPENSION BEARING ASSEMBLY ~71:VDL WEWELER B.V., 10, Ecofactorij, WC APELDOORN, Netherlands ~72: JANSEN OP DE HAAR - OUDSHOORN, Joerie Rutgerus Hermanus;SCHRIER, Tom~ 33:NL ~31:2033055 ~32:16/09/2022

2025/01461 ~ Complete ~54:WEAR ASSEMBLY FOR EARTH WORKING EQUIPMENT ~71:ESCO GROUP LLC, 2141 NW 25th Avenue, United States of America ~72: CROWE, Michael, Dean;LEEDHAM, Cameron, R.~ 33:US ~31:63/395,216 ~32:04/08/2022

2025/01478 ~ Provisional ~54:RATE MY TENANT/LANLORD/BUYER/SELLER ~71:Tarryn Elaine Burger, 1044 Brackehill Street, South Africa ~72: Tarryn Elaine Burger~

2025/01446 ~ Complete ~54:AUXILIARY TEACHING DEVICE FOR MANAGEMENT SCIENCE ~71:Xinyu University, No. 2666, Sunshine Avenue, High Tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: HUANG Renjing;LI Xuezhu;TANG Lu;WEN Rou;XIE Lianping;ZHANG Li~

2025/01429 ~ Complete ~54:BUILDING ENERGY CONSUMPTION PREDICTION METHOD BASED ON ARTIFICIAL INTELLIGENCE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CAI, Jing;CHEN, Yao;LIU, Yuxiao;WANG, Xiaohui;ZHANG, Yao;ZHANG, Zilu~

2025/01437 ~ Complete ~54:METHOD AND SYSTEM FOR PREDICTING DEFORMATION OF DEEP FOUNDATION PIT SUPPORTING STRUCTURE BASED ON VMD AND ESN ALGORITHMS ~71:CCCC SECOND HARBOR ENGINEERING COMPANY LTD., No.11,Jinyinhu Road, Dongxihu District, Wuhan City, Hubei Province, People's Republic of China;CCCC WUHAN ZHI XING INTERNATIONAL ENGINEERING CONSULTING COMPANY LIMITED, 17th Floor, Block A, Huazhong Zhongjiaocheng, No. 668, Qiangwei Road, Economic and Technological Development Zone, Wuhan City, Hubei Province, People's Republic of China ~72: Binbin Guo;Boyang Cui;Chuang Zhou;Fuqiang Chen;Guojiao Wen;Jinzhu Zhu;Lu Zhao;Miao Zhang;Panpan Li;Shangang Wang;Weijia Liu;Wen Liu;Xiaohong Gao;Xin Jiang;Xue Wang;Zhenlong Wang;Zhuo Chen~ 33:CN ~31:202410667339.0 ~32:28/05/2024

2025/01440 ~ Complete ~54:MASKED CYTOKINE POLYPEPTIDES ~71:XILIO DEVELOPMENT, INC., 828 Winter Street, Waltham, Massachusetts, 02451, United States of America ~72: DEBORAH MOORE LAI;DHEERAJ TOMAR;HUAWEI QIU;MARGARET KAROW;PARKER JOHNSON;RAPHAEL ROZENFELD;RONAN O'HAGAN~ 33:US ~31:62/737,803 ~32:27/09/2018;33:US ~31:62/888,276 ~32:16/08/2019;33:US ~31:62/891,199 ~32:23/08/2019

2025/01463 ~ Complete ~54:GAME MONITORING SYSTEM ~71:Angel Group Co., Ltd., 4600, Aono-cho, HIGASHIOMI-SHI 5270232, SHIGA, JAPAN, Japan ~72: SHIGETA , Yasushi~ 33:JP ~31:2022-130332 ~32:18/08/2022

2025/01469 ~ Complete ~54:METHODS AND APPARATUS FOR CONTROLLED DISCHARGE OF COMPONENTS FROM A TUBE ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon

Street, EC4A 4AB, LONDON, UNITED KINGDOM, United Kingdom ~72: CLARKSON, Jay Simon;MALLAM, Ben Geoffrey~ 33:GB ~31:2213993.5 ~32:26/09/2022

2025/01474 ~ Complete ~54:SUGARCANE GRASPING AND THROWING SYSTEM BASED ON VISION AND MECHANICAL ARM END EFFECTOR AND METHOD THEREOF ~71:Guangdong Ocean University, No.1 Haida Road, Mazhang District, Zhanjiang City, People's Republic of China;Institute of agricultural machinery research, Chinese Academy of Tropical Agricultural Sciences, No. 3 Huxiu Road, Mazhang District, Zhanjiang City, People's Republic of China ~72: Ge Chang;Hou Mingxin;Huang Tao;Meng Qinghe;Niu Zhaojun;Ou Zhongqing;Song Gang~

2025/01476 ~ Complete ~54:TYK2 INHIBITORS AND USES THEREOF ~71:SUDO BIOSCIENCES LIMITED, 3rd Floor 1 Ashley Road, United Kingdom ~72: DEL RIO GANCEDO, Susana;EDWARDS, Richard James;PANDEY, Anjali~ 33:US ~31:63/400,686 ~32:24/08/2022

2025/01454 ~ Complete ~54:HUMAN BODY HEALTH MANAGEMENT METHOD AND SYSTEM BASED ON GEOTHERMAL ENERGY ~71:GUIZHOU YOU PIN SLEEP HEALTH INDUSTRY CO., LTD, 4 / F, No. 17, Smart Industrial Park, Bijiang District, Tongren City, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;MAO, Chengyu;WANG, Shengxiang;YANG, Dingguang~

2025/01457 ~ Complete ~54:BEARING BRACKET WITH STRUT ATTACHMENT AND WHEEL AXLE SUSPENSION INCLUDING SUCH A BEARING BRACKET ~71:VDL WEWELER B.V., 10, Ecofactorij, WC APELDOORN, Netherlands ~72: AALDERINK, Derk, Geert;SCHRIER, Tom~ 33:NL ~31:2033053 ~32:16/09/2022

2025/01434 ~ Complete ~54:HEAT-RESISTANT ENTEROCOCCUS FAECIUM STRAIN AS WELL AS SCREENING METHOD AND APPLICATION THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: LI, Leilei;LI, Xiaokang;LIU, Junhong;LIU, Yaqiong;YE, Yanxin;ZHANG, Yachen~

2025/01525 ~ Provisional ~54:TEXTURED VINYL SHEET FOR DECORATIVE AND CUSTOMIZABLE SURFACE APPLICATIONS ~71:Omeida Trading 419cc T/A Tornado Branding Solutions, Unit 5/16 Kamchan Centre, 175 Khuzimpi Shezi Road, South Africa ~72: Julian Robert~ 33:ZA ~31:1 ~32:16/02/2025

2025/01442 ~ Complete ~54:PI3K-A INHIBITORS AND METHODS OF USE THEREOF ~71:D.E. Shaw Research, LLC, 120 West 45th Street, 39th Floor, NEW YORK 10036, NY, USA, United States of America;Relay Therapeutics, Inc., 399 Binney Street, 2nd Floor, CAMBRIDGE 02139, MA, USA, United States of America ~72: ATIENZA, Bren-Jordan;BERTRAND-LAPERLE, Megan;BOEZIO, Alessandro;BOUSQUET, Yves;BURNIE, Andrew J.;CHEN, Fei;CHITALE, Sampada;DENINNO, Michael Paul;DIPIETRO, Lucian V.;FRIDRICH, Cary Griffin;GELOZIA, Shorena;GIGUERE, Jean-Benoit;GIORDANETTO, Fabrizio;GUNAYDIN, Hakan;JOBIN-DES LAURIERS, Antoine;KRUEGER, Elaine B.;KURUKULASURIYA, Ravi;LANDAGARAY, Elodie;LARIVÉE, Alexandre;LEE, Jessica;LEPITRE, Thomas;LESCARBEAU, Andre;MADER, Mary M.;MAERTENS, Gaetan;MCLEAN, Thomas H.;MOHAMED, Tarek;OUTIN, Johanne;PAL, Mohan;PAN, Yue;PECHERSKY, Yakov;PIERCE, Levi Charles Thomas;RAYNOR, Kevin David;SHORTSLEEVES, Kelley C.;STURINO, Claudio;TANG, Yong;TANVEER, Kashif;TAYLOR, Alexander M.;THORAT, Rakesh;VEMULA, Naresh;WALTERS, W. Patrick;WANG, Qi;ZHANG, Hanmo~ 33:US ~31:63/017,571 ~32:29/04/2020;33:US ~31:63/066,489 ~32:17/08/2020

2025/01425 ~ Provisional ~54:EMBEDDED AI-POWERED DIAGNOSTIC CHIP ~71:MICHAEL OLUWASEYE OKI, UNIT 45, 281 VON WILLICH AVENUE, South Africa ~72: MICHAEL OLUWASEYE OKI~

2025/01468 ~ Complete ~54:RADIOPHARMACEUTICALS ~71:AdvanCell Isotopes Pty Limited, Level 7, 167 Macquarie Street, SYDNEY 2000, NEW SOUTH WALES, AUSTRALIA, Australia ~72: KUAN, Kevin;PUTTICK, Simon;TIEU, William~ 33:AU ~31:2022902273 ~32:11/08/2022;33:AU ~31:2022902274 ~32:11/08/2022

2025/01433 ~ Complete ~54:DISPLAY DEVICE FOR FINANCIAL SECURITIES INVESTMENT STATISTICS ~71:Tongling University, No. 1335, Cuihu 4th Road, Tongguan Dist., Tongling, Anhui, People's Republic of China ~72: Yu Xie~

2025/01426 ~ Provisional ~54:SELF-LOCKING BUMP PLATE FOR BARRIER RETENTION ~71:VICTOR, Christiaan, Unit 6, Jacobin Business Park, 85 Jacoba str, South Africa ~72: VICTOR, Christiaan~

2025/01445 ~ Complete ~54:SEALED CONTAINER FOR INTERNATIONAL TRADE LOGISTICS TRANSPORTATION ~71:Xinyu University, No. 2666, Sunshine Avenue, High Tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: HUANG Renjing;LI Xuezhu;WEN Rou;XIE Lianping;ZENG Xiaorong;ZHANG Li~

2025/01447 ~ Complete ~54:DUAL-PHONE CAR MOUNT DEVICE FOR CD SLOT INTEGRATION ~71:Dr. Santosh Kumar Kudtarkar, FLAME University, Gat No. 1270, Lavale, off. Pune Bengaluru Highway, Pune-412115, Maharashtra, India;Dr. Sitaram Soni, FLAME University, Gat No. 1270, Lavale, off. Pune Bengaluru Highway, Pune - 412115, Maharashtra, India ~72: Dr. Santosh Kumar Kudtarkar;Dr. Sitaram Soni~

2025/01452 ~ Complete ~54:BUSINESS ENGLISH WRITING COMPARISON AND EXPLANATION DEMONSTRATION DEVICE ~71:Xinyu University, No. 2666, Sunshine Avenue, High Tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: HUANG Renjing;LI Lei;LI Xuezhu;WEN Rou;XIE Lianping;ZHANG Li~

2025/01464 ~ Complete ~54:MULTI-DOMAIN BINDING MOLECULES ~71:Immunocore Limited, 92 Park Drive, Milton Park, ABINGDON OX14 4RY, UNITED KINGDOM, United Kingdom ~72: HEARTY, Stephen;KIRK, Peter;MAK, Lok Hang~ 33:US ~31:63/371,863 ~32:18/08/2022

2025/01473 ~ Complete ~54:ORAL FORMULATIONS OF ABIRATERONE ACETATE AND METHOD OF MANUFACTURING THEREOF ~71:BDR PHARMACEUTICALS INTERNATIONAL PRIVATE LIMITED, 407-408, Sharda Chambers, New Marine Lines, Mumbai, Maharashtra, 400020, India ~72: BADIGER ARAVIND MANAPPA;JADAV AKSHAYKUMAR SAMPATSINH;JAYASWAL NILAY MANIKANT;PANCHAL SAMIRKUMAR BABULAL;SHAH DHARMESH MAHENDRABHAI;SHARMA MUKESHKUMAR SUBHASHCHANDRA;TRIVEDI MADHAVKUMAR DILIPBHAI~ 33:IN ~31:202221044843 ~32:05/08/2022

2025/01424 ~ Provisional ~54:CABLE TIE CONNECTOR AND EXTENDER ~71:Lukas Boshoff, Unit 4 Faerie View, 100 Mayo Lane, Faerie Glen, South Africa ~72: Lukas Boshoff~

2025/01438 ~ Complete ~54:INTELLIGENT BODY POSITION PAD FOR AUTOMATIC ADJUSTMENT DURING SURGERY ~71:Zhongshan City People's Hospital, No.2, Sunwen East Road, Zhongshan, Guangdong, People's Republic of China ~72: Ping Yi;Suhui Huang;Zheng Liu;Zhihong Zhang~ 33:CN ~31:202411220221X ~32:02/09/2024

2025/01443 ~ Complete ~54:BIOLOGICAL CELL CULTURE DEVICE ~71:Xinyu University, No. 2666, Sunshine Avenue, High Tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: HUANG Renjing;LI Xuezhu;WEN Rou;XIE Lianping;ZENG Xiaorong;ZHANG Li~

2025/01436 ~ Complete ~54:APPLICATION OF NON-DESTRUCTIVE TESTING TECHNOLOGY IN ROADWAY DISPLACEMENT MONITORING ~71:Huating Coal Group Co., Ltd., No. 46, Sunjiashan Community, Qijiachuan

Village, Xinyao Town, Chongxin County, Pingliang City, Gansu Province, People's Republic of China; North China Institute of Science and Technology, No. 467 Xueyuan Street, Sanhe City, Langfang City, Hebei Province, People's Republic of China ~72: Chen Long; Gao Chao; Li Junjun; Li Peng; Li Yongjun; Li Zhixiang; Ma Jinsheng; Ren Yuanda; Tian Bin; Wang Jiangning; Wang Longfei; Wu Jun; Zhao Feng~

2025/01459 ~ Complete ~54: THREADED ROCK BOLT AND NUT ASSEMBLY WITH ASYMMETRIC THREAD ~71: INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, Aeroton, South Africa ~72: KNOX, Greig~ 33:ZA ~31:2022/08058 ~32:20/08/2022

2025/01470 ~ Complete ~54: APPARATUS AND METHOD FOR MEASURING PARTICLE SIZE AND RELATED PARAMETERS OF SOLID PARTICLES IN A TURBULENT MULTIPHASE FLOW ~71: BLUE CUBE TECHNOLOGY (PTY) LTD, Unit Ramp (Mill Square) Ground floor Anglo African Building, 4 Plein Street, Stellenbosch, South Africa ~72: DU PLESSIS, Francois Eberhardt; LE ROUX, Petrus Albertus~ 33:GB ~31:2211206.4 ~32:01/08/2022

2025/01439 ~ Complete ~54: A BLASTING TOOL ~71: LUBBE, Gert, Petrus, 74 GRIETJIE HOEWES, PHALABORWA, 1390, SOUTH AFRICA, South Africa ~72: LUBBE, Gert, Petrus~

2025/01450 ~ Complete ~54: BUSINESS ENGLISH WRITING MODEL ESSAY TEACHING DISPLAY DEVICE ~71: Xinyu University, No. 2666, Sunshine Avenue, High Tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: HUANG Renjing; LI Xuezhu; TANG Lu; WEN Rou; XIE Lianping; ZHANG Li~

2025/01455 ~ Complete ~54: BIOMARKERS OF LYSOSOMAL STORAGE DISEASE ~71: GENZYME CORPORATION, 450 Water Street, Cambridge, MA, United States of America ~72: DAVISON, Matthew Douglas; KOEHLER, Matthew Christopher; WANG, Hongge; WOOD KLINGER, Katherine; XIA, Tai-He; ZHANG, Bailin~ 33:US ~31:63/390,377 ~32:19/07/2022; 33:EP ~31:22201741.0 ~32:14/10/2022; 33:US ~31:63/444,659 ~32:10/02/2023

2025/01465 ~ Complete ~54: MULTI-DOMAIN BINDING MOLECULES ~71: Immunocore Limited, 92 Park Drive, Milton Park, ABINGDON OX14 4RY, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: CONROY, Paul; HEARTY, Stephen; MAHON, Tara; MAK, Lok Hang; OVERTON, David~ 33:US ~31:63/371,866 ~32:18/08/2022; 33:US ~31:63/498,980 ~32:28/04/2023

2025/01472 ~ Complete ~54: A MUTANT INSECTICIDAL PROTEIN VIP3 AND ITS APPLICATION ~71: QINGDAO KINGAGROOT SEED SCIENCE CO., LTD., No.53, Qinglonghe Road, Huangdao District, Qingdao, Shandong, 266000, People's Republic of China ~72: BO CHEN; HUARONG LI; LEI LIAN; YONGCHUN WU~ 33:CN ~31:202211069297.8 ~32:01/09/2022; 33:CN ~31:202310225662.8 ~32:09/03/2023

2025/01427 ~ Provisional ~54: A METHOD OF, AND A SYSTEM FOR, GENERATING A SIMULATED GEOLOGICAL ENVIRONMENT ~71: EHLERS, Paul, 8 Fuschia Street, Namibia ~72: EHLERS, Paul~

2025/01428 ~ Complete ~54: APPLICATIONS OF TOLCAPONE AS PD-1/PD-L1 INHIBITOR AND ANTI-TUMOR DRUG ~71: Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CHENG, Meidie; FAN, Yanru; HONG, Jun; HU, Chenxi; JIA, Yitong; JING, Lei; REN, Yahui; ZHANG, Sijin; ZHENG, Mengmeng; ZHI, Shuangcheng~

2025/01460 ~ Complete ~54: MONITORING WEAR ASSEMBLES, SYSTEMS, AND METHODS FOR MINING EQUIPMENT ~71: CARRIERE INDUSTRIAL SUPPLY LIMITED, 190 Magil Street, Walden Industrial Park, Canada ~72: LEVESQUE, Pierre, R~ 33:US ~31:63/396,169 ~32:08/08/2022

2025/01432 ~ Complete ~54:METHOD FOR PREPARING LIQUID ORGANIC FERTILIZER FROM PLATEAU SUMMER VEGETABLE WASTE, AND COMPOSITE MICROBIAL INOCULUM ~71:Gansu Agricultural University, No.1 Yingmen Village, Anning District, Lanzhou City, Gansu Province, 730070, People's Republic of China ~72: CHEN, Xiaolong;CHU, Run;LI, Ze~

2025/01441 ~ Complete ~54:PREPARATION METHOD OF LIQUID AGRICULTURAL MICROBIAL INOCULANT CONTAINING POLY F-GLUMATIC ACID AND APPLICATION ~71:SICHUAN UNIVERSITY OF SCIENCE AND ENGINEERING, 519 Huixing Road, Ziliujing District, Zigong City, People's Republic of China ~72: BI, Changfu;FAN, Kai;GUI, Yuan;LI, Li;LI, Shuang;LI, Zhongxuan;LIAO, Yuting;LIU, Genqiao;LIU, Jun;WANG, Chuan;WANG, Fengqing;ZHOU, Lihong~

2025/01466 ~ Complete ~54:INHIBITORS OF KIF18A AND USES THEREOF ~71:Accent Therapeutics, Inc., 1050 Waltham Street, LEXINGTON 02421, MA, USA, United States of America ~72: DANIELS, Matthew H.;DUNCAN, Kenneth W.;ERICSSON, Anna;LEE, Matthew R.;SPARLING, Brian Andrew;TASKER, Andrew Stewart;ZABLOCKI, Mary-Margaret~ 33:US ~31:63/399,003 ~32:18/08/2022;33:US ~31:63/463,617 ~32:03/05/2023

2025/01467 ~ Complete ~54:CONTROLLING A MOBILE MINING VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: AHA, Liisa;KUIVANEN, Ilkka;LIKANEN, Henri;PUURA, Jussi~ 33:EP ~31:22192619.9 ~32:29/08/2022

2025/01444 ~ Complete ~54:A TEMPERATURE REGULATING SMART BABY BOTTLE SYSTEM ~71:Dishant Pradhan, Academic Specialist, Department of Design, Art, and Performances, FLAME University, Pune, Maharashtra - 412115, India;Dr. Amit Kundal, Associate Professor, Department of Design, Art, and Performances, FLAME University, Pune, Maharashtra - 412115, India;Dr. Mritunjay Kumar, Assistant Professor, Department of Design, Art, and Performances, FLAME University, Pune, Maharashtra - 412115, India;Shamit Shrivastav, Associate Professor of Practice, Department of Design, Art, and Performances, FLAME University, Pune, Maharashtra - 412115, India ~72: Dishant Pradhan;Dr. Amit Kundal;Dr. Mritunjay Kumar;Shamit Shrivastav~

2025/01448 ~ Complete ~54:BREEDING METHOD FOR MICROPTERUS SALMOIDES ~71:Luohe Yuanhui District Livestock and Aquatic Technology Center, Agricultural and Rural Bureau of Yuanhui District, No. 103 Changjiang Road, Luohe City, Henan Province, 462000, People's Republic of China ~72: CAO Yinhua;GONG Xijia;GUO Jingying;GUO Qianqian;HU Junna;LIN Gangling;LIU Yuanyuan;LUO Ziqiang;SAI Gaiyun;YU Shiliang;ZHANG Yi~

2025/01451 ~ Complete ~54:CONTROL METHOD FOR GRID-FORMING WIND TURBINE GENERATOR SYSTEM ~71:Goldwind Science&Technology Co., Ltd, No. 8 Boxing 1st Road, Beijing Economic and Technological Development Zone, Beijing City, 071000, People's Republic of China ~72: Aisikaer;JING Shuang;LI Yan;LV Liangnian;WU Lei;YANG Zhiqian~

2025/01471 ~ Complete ~54:PREPARATION AND USE OF QUINAZOLINONE DERIVATIVE AS KINASE INHIBITOR ~71:HAISCO PHARMACEUTICAL GROUP CO., LTD., No.17, Sanxiang Avenue, Zedang Town, Shannan City, Tibet, 856000, People's Republic of China ~72: CHEN ZHANG;LEI CHEN;LINKUN HE;PANGKE YAN;PENGCHENG WANG;PINGMING TANG;SHAOHUI SHI;TIANBO SHU;YAO LI;YUNPENG PEI;ZONGJUN SHI~ 33:CN ~31:202210848185.6 ~32:19/07/2022;33:CN ~31:202211051796.4 ~32:30/08/2022;33:CN ~31:202211292824.1 ~32:21/10/2022;33:CN ~31:202211432056.5 ~32:16/11/2022;33:CN ~31:202310003195.4 ~32:03/01/2023;33:CN ~31:202310329117.3 ~32:30/03/2023;33:CN ~31:202310502696.7 ~32:06/05/2023

2025/01431 ~ Complete ~54:IMPLANTABLE MULTI-CHANNEL MULTI-LAYER SHORT FIBER CORE-SPUN YARN AND SPINNING METHOD THEREOF ~71:Shandong Lianrun New Material Technology Co., Ltd, Huayang

Road West and Changjie Road South, Tai'erzhuang District, Zaozhuang City, Shandong Province, 277400, People's Republic of China ~72: LI, Yang;MIAO, Mingzhu;SHEN, Qi;SONG, Jing;SONG, Junyi;SUN, Qichang;ZHANG, Shufeng;ZHONG, Jun;ZHU, Pei~ 33:CN ~31:202411390496.8 ~32:08/10/2024

2025/01435 ~ Complete ~54:POSTPARTUM RECOVERY TRAINING DEVICE FOR OBSTETRICS ~71:Shanxi Fenyang Hospital, No. 186, Shengli Road, Fenyang, Shanxi, People's Republic of China ~72: Lina Su~

2025/01449 ~ Complete ~54:DRIVER FATIGUE DETECTION AND ALERT SYSTEM ~71:Dr. Santosh Kumar Kudtarkar, FLAME University, Gat No. 1270, Lavale, off. Pune Bengaluru Highway, Pune- 412115, Maharashtra, India;Dr. Sitaram Soni, FLAME University, Gat No. 1270, Lavale, off. Pune Bengaluru Highway, Pune - 412115, Maharashtra, India ~72: Dr. Santosh Kumar Kudtarkar;Dr. Sitaram Soni~

2025/01462 ~ Complete ~54:TREATMENT OF FASCIOSIS ~71:Intervet International B.V., Wim de Körverstraat 35, BOXMEER 5831 AN, THE NETHERLANDS, Netherlands ~72: BERGER, Michael;SONDERN, Ulrich~ 33:EP ~31:22193586.9 ~32:02/09/2022

2025/01475 ~ Complete ~54:LIGHTWEIGHT DRILL ~71:SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD, 9 GERHARDUS ROAD, ELANDSFONTEIN, South Africa ~72: MARIUS IMANIEL ACKERMANN~ 33:ZA ~31:2022/09409 ~32:23/08/2022

2025/01453 ~ Complete ~54:PASSIVATING REMEDIATION AGENT FOR ARSENIC POLLUTION IN FARMLAND SOIL AND ITS USAGE METHOD ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: Chunyang LU;Feng WEN;Haocheng QIAN;Huijie LI;Miaoxing ZHAO;Panpan GUO;Shenghang LIU;Teng WANG;Zizhen QIAO~

- APPLIED ON 2025/02/18 -

2025/01486 ~ Complete ~54:ZINC-ION BATTERY ELECTROLYTE AND PREPARATION METHOD THEREOF AND ZINC-ION BATTERY ~71:Yancheng Teachers University, No. 50 Kaifang Avenue, Yancheng City, Jiangsu Province, 224000, People's Republic of China ~72: CHANG, Yingna;LIU, Yu;LV, Rongguan;SONG, Kefan;WANG, Jindi;WU, Huayu;XING, Rong;YAN, Xiaoli;YUE, Mohan~ 33:CN ~31:202510005555.3 ~32:02/01/2025

2025/01493 ~ Complete ~54:ANTENNA ~71:DETNET SOUTH AFRICA (PTY) LTD, Block 1B Foundershill Office Park, Centenary st, Modderfontein,, South Africa ~72: DE VILLIERS-KOK, Kari;LOUW, Gerhard Brink~ 33:ZA ~31:2024/04504 ~32:11/06/2024

2025/01498 ~ Complete ~54:DEVICE FOR SIMULATING AND OBSERVING CAVITATION OF LUBRICATING OIL ON TEXTURED SURFACE ~71:Southwest Forestry University, No. 300, Bailong Temple, Panlong District, Kunming City, Yunnan Province, 650224, People's Republic of China ~72: CHEN, Long;CHEN, Wengang;LIU, Dechun;NIU, Wanyun;QIU, Zhaoling;WEI, Xinyue;XIA, Minhua;XIAO, Siyuan~

2025/01509 ~ Complete ~54:INTELLIGENT RECOGNITION AND ALERT METHODS AND SYSTEMS ~71:AI CONCEPTS, LLC, 121 Greenway Boulevard, Carrollton, Georgia, United States of America ~72: SAMPLES, Johnathan~ 33:US ~31:17/866,645 ~32:18/07/2022

2025/01491 ~ Complete ~54:HIGH AND LOW TEMPERATURE TEST DEVICE FOR POWER BATTERY OF NEW ENERGY VEHICLE ~71:Jilin Communications Polytechnic, No. 63 Xindiantai Street,, Changchun City, Jilin Province, 130012, People's Republic of China ~72: GAO, Shuai;JIN, Shouling;KONG, Chunhua;QU, Yingkai;QU, Zetong;ZHAO, Wei;ZHAO, Zihan~ 33:CN ~31:202411052328.8 ~32:02/08/2024

2025/01499 ~ Complete ~54:PROCESS FOR THE PREPARATION OF AN EXTRACELLULAR VESICLE COMPOSITION, EXTRACELLULAR VESICLE COMPOSITION AND USE THEREOF ~71:Revatis SA, Avenue de l'Hôpital 11/34, LIEGE B-4000, BELGIUM, Belgium ~72: CEUSTERS, Justine;DUYSENS, Julien;GRAIDE, Hélène;SANDERSEN, Charlotte;SERTEYN, Didier~ 33:BE ~31:2024/5098 ~32:19/02/2024

2025/01503 ~ Complete ~54:MODULAR ARC FAULT PROTECTION SYSTEM ~71:DEHN SE, Hans-Dehn-Strasse 1, 92318, Neumarkt i.d.OPf., Germany ~72: ANDREAS SCHUMACHER;CHRISTIAN STAUDIGL;STEFAN DIETWEGER;THOMAS GOTTSCHALK~ 33:DE ~31:10 2024 104 687.2 ~32:20/02/2024

2025/01517 ~ Complete ~54:THERMO-MECHANICAL SYSTEM FOR LONG-TERM ENERGY STORAGE WITH ZERO-POLLUTION FOOTPRINT ~71:JOHANNES CORNELIUS MARIA VAN OVERVELD, Queensway road, Kingswharf quay 27, apt 124 Gibraltar , GX11 1AA, United Kingdom;TIM HENDRIK M KEMLAND, Europort Road, Eurocity, Carrara, apt 908 Gibraltar, GX11 1AA, United Kingdom ~72: DRAGOLJUB PETKOVSKI;GJORGJI JOVANOVSKI;JOHANNES CORNELIUS MARIA VAN OVERVELD;TIM HENDRIK M KEMLAND~ 33:MK ~31:2022/378 ~32:20/07/2022

2025/01511 ~ Complete ~54:NON-ORIENTED ELECTRICAL STEEL FOR ELECTRIC VEHICLE DRIVE MOTOR, AND MANUFACTURING METHOD THEREFOR ~71:BAOSHAN IRON & STEEL CO., LTD., 885 FUJIN ROAD, BAOSHAN DISTRICT, SHANGHAI, 201900, People's Republic of China ~72: FANG, Xianshi;HAO, Yunwei;WANG, Bo;ZHANG, Feng;ZHOU, Lin~ 33:CN ~31:202210977542.9 ~32:15/08/2022

2025/01524 ~ Complete ~54:THE CONTROL OF NEMATODES ~71:Magrix (Pty) Ltd., 23 Clifton Avenue, LYTTTELTON MANOR EXT 3, Centurion 0157, Gauteng Province, SOUTH AFRICA, South Africa ~72: LOCKINGTON, Ian Richard;NOOME, Hildsley Dagmar Owen~ 33:ZA ~31:2022/07928 ~32:18/07/2022

2025/01485 ~ Complete ~54:MODELING AND SIMULATION METHOD FOR FACE GEAR PAIR NUTATION REDUCER ~71:Fuzhou University, Fuzhou University, No.2 Wulongjiangbei Avenue, Fuzhou University Town, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China ~72: JIA Chao;LI Qinghai;LU Ling~

2025/01489 ~ Complete ~54:METHOD FOR REMEDIATION AND TREATMENT OF LEAD POLLUTION IN FARMLAND SOIL ~71:Henan College of Surveying and Mapping, No. 30 Gongmao Road, Baisha Park, Zhengdong New District, Zhengzhou City, Henan Province, 451464, People's Republic of China;Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: Chunyang LU;Haocheng QIAN;Huijie LI;Panpan GUO;Ruyi XU;Shenghang LIU;Teng WANG;Zhan LIU;Ziying SONG;Zizhen QIAO~

2025/01495 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF A WOOD-BASED HEAVY METAL ADSORBENT ~71:Qinghai Normal University, No.38, Wusixi Road, Chengxi District, Xining, Qinghai, People's Republic of China ~72: Chen Wei;Dong Wenwen;Gao Feiyu;Shi Wei;Sun Pengyu;Sun Zhe;Xue Jimin;Zhang Hengyuan;Zhu Xirui~ 33:CN ~31:2024111073334 ~32:13/08/2024

2025/01500 ~ Complete ~54:ELECTRONIC PAYMENTS ~71:PERILS, Kent Simon, 77 Longway Avenue, 17 Nielsen Way, Lorraine, South Africa ~72: PERILS, Kent Simon~ 33:ZA ~31:2024/01184 ~32:07/02/2024

2025/01510 ~ Complete ~54:AN AUXILIARY DEVICE FOR OVARIAN CYST PUNCTURE AND PREVENTION OF LEAKAGE ~71:XIANGYA HOSPITAL OF CENTRAL SOUTH UNIVERSITY, No. 87 Xiangya Road, Kaifu District, Changsha City, Hunan Province, 410008, People's Republic of China ~72: Shuyi Li~ 33:CN ~31:202422651394.9 ~32:31/10/2024

2025/01514 ~ Complete ~54:TRANSFORMING VIDEO DATA USING NON-SEPARABLE PRIMARY TRANSFORMS ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: COBAN, Muhammed Zeyd;GARUS, Patrick;KARCZEWICZ, Marta;RAY, Bappaditya;SEREGIN, Vadim~ 33:US ~31:63/379,422 ~32:13/10/2022;33:US ~31:63/385,678 ~32:01/12/2022;33:US ~31:18/485,707 ~32:12/10/2023

2025/01519 ~ Complete ~54:MILD WASH COMPOSITION WITH BIODEGRADABLE THICKENER AND ENHANCED MICROBIOTA IMPACT ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: MINGJUN YUAN;NICHOLAS ARTHUR VELEZIS;TIRUCHERAI VARAHAN VASUDEVAN~ 33:EP ~31:22197980.0 ~32:27/09/2022

2025/01492 ~ Complete ~54:PLANT LEAF DISEASE CLASSIFICATION METHOD BASED ON LIGHTWEIGHT DEEP LEARNING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CAI, Zhaopeng;HE, Hao;KAN, Jingrun;LI, Jiawei;SONG, Hongyun;XU, Laixiang;ZHANG, Fengyue~

2025/01497 ~ Complete ~54:METAL SURFACE DEFECT DETECTION DEVICE ~71:Tongling University, No. 1335, Cuihu 4th Road, Tongling City, Anhui Province, People's Republic of China ~72: Du FeiXiang;Shu ShuLi;Wang Qian;Wang Wei;Wang ZhongLiang;Xu Ling~

2025/01501 ~ Complete ~54:ARC FAULT PROTECTION SYSTEM ~71:DEHN SE, Hans-Dehn-Strasse 1, 92318, Neumarkt i.d.OPf., Germany ~72: ANDREAS SCHUMACHER;CHRISTIAN STAUDIGL;STEFAN DIETWEGER;THOMAS GOTTSCHALK~ 33:DE ~31:10 2024 104 681.3 ~32:20/02/2024

2025/01507 ~ Complete ~54:INTEGRATION OF TRANSFER DEVICES IN A HIGH-BAY WAREHOUSE ~71:AMOVA GMBH, Wiesenstrasse 30, Germany ~72: Bernd BÜDENBENDER;Volker BRÜCK~ 33:DE ~31:10 2022 129 323.8 ~32:07/11/2022

2025/01512 ~ Complete ~54:FLEXIBLE MULTI-LINK OPERATION ARCHITECTURE ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: CHAN, Patrick Poon-Cheuk;FREDERIKS, Guido Robert;HARRSEN, John Thomas;HOMCHAUDHURI, Sandip;KATAR, Srinivas;KUCHAREWSKI, Nicholas;SINGH, Harinder~ 33:US ~31:17/952,227 ~32:24/09/2022

2025/01515 ~ Complete ~54:ACTRII ANTIBODY FIXED UNIT DOSE TREATMENTS ~71:Versanis Bio, Inc., Lilly Corporate Center, INDIANAPOLIS 46285, INDIANA, USA, United States of America ~72: KLINKSTEIN, Lloyd B.~ 33:US ~31:63/373,684 ~32:26/08/2022;33:US ~31:63/378,128 ~32:03/10/2022

2025/01518 ~ Complete ~54:METHOD AND APPARATUS FOR MAKING OBJECTS WITH A COMPOSITE MATERIAL COMPRISING A NATURAL MATERIAL ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: FABRIZIO PUCCI;FIORENZO PARRINELLO~ 33:IT ~31:102022000017838 ~32:31/08/2022

2025/01479 ~ Provisional ~54:WOVEN WIRE UNDERGROUND OVERHEAD SAFETY SHIELD ~71:Eziload Mining (Pty) Ltd., Plot 67, Vlakplaas 20, Tarlton, 1749, SOUTH AFRICA, South Africa ~72: LAWRENCE, Allen Preston;WHYTE, Shane Rodger~

2025/01483 ~ Complete ~54:IMPROVED CRADIS RISK ASSESSMENT METHOD FOR NATURAL GAS PIPELINES BASED ON CSFNS AND CHOQUET INTEGRAL METHOD ~71:Liaoning Petrochemical University, No. 1, West Section of Dandong Road, Wanghua District, Fushun City, Liaoning Province, 113001, People's

Republic of China ~72: CAO, Jiangtao;LI, Jinna;LIU, Siyu;SHI, Huiyuan;TENG, Cailian;ZHAO, Taoyan;ZHU, Pengfei~

2025/01490 ~ Complete ~54:PLANT LEAF DISEASE IDENTIFICATION METHOD BASED ON NOVEL DEEP LEARNING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CAI, Zhaopeng;HE, Hao;KAN, Jingrun;LI, Jiawei;SONG, Hongyun;XU, Laixiang;ZHANG, Fengyue~

2025/01502 ~ Complete ~54:ARC FAULT PROTECTION SYSTEM AND METHOD OF CONFIGURING AND/OR INITIALIZING AN ARC FAULT PROTECTION SYSTEM ~71:DEHN SE, Hans-Dehn-Strasse 1, 92318, Neumarkt i.d.OPf., Germany ~72: ANDREAS SCHUMACHER;CHRISTIAN STAUDIGL;STEFAN DIETWEGER;THOMAS GOTTSCHALK~ 33:DE ~31:10 2024 104 685.6 ~32:20/02/2024

2025/01506 ~ Complete ~54:A MULTI ANGLE SHOOTING DEVICE FOR MODELING ORACLE BONE SCRIPT FONTS ~71:Harbin Institute of Technology, No. 92, Xidazhi Street, Nangang District, Harbin City, Heilongjiang Province, 150001, People's Republic of China ~72: Cao Haoqi;Li Yanxi;She Ruolin;Xu Jiachen;Yang Yingzhen~

2025/01513 ~ Complete ~54:MAGNETIC FLUID CONNECTOR ~71:Northstar Medical Technologies, LLC, 1800 Gateway Blvd., BELOIT 53511, WI, USA, United States of America ~72: BROKISH, Kirsten;LUST, Dorian~ 33:US ~31:63/368,822 ~32:19/07/2022;33:US ~31:63/390,716 ~32:20/07/2022;33:US ~31:63/440,218 ~32:20/01/2023

2025/01520 ~ Complete ~54:GROUP A STREPTOCOCCUS VACCINE ANTIGEN ~71:UNIVERSITÉ LIBRE DE BRUXELLES, Avenue Franklin D. Roosevelt 50, 1050, Bruxelles, Belgium ~72: ANNE MONIQUE ROBERTE BOTTEAUX;PIERRE LADISLAS EDITH MARIE ROBERT SMEESTERS~ 33:EP ~31:22206633.4 ~32:10/11/2022

2025/01523 ~ Complete ~54:DRILLING OR BOLTING APPARATUS AND RELATED METHODS ~71:J.H. FLETCHER & CO., P O Box 2187, United States of America ~72: BURGESS, Robert, D.~ 33:US ~31:63/390,386 ~32:19/07/2022;33:US ~31:63/398,912 ~32:18/08/2022

2025/01480 ~ Provisional ~54:VARIABLE STIFFNESS HYBRID ROCK ANCHOR ~71:DURINS BOON MINING (PTY) TLD, 2 Avenue de la Sante, BelAire Winelands Estate, South Africa ~72: CAWOOD, Martin~

2025/01481 ~ Provisional ~54:EDUCATIONAL PLATFORM ~71:PHETO, Olefile, 21 Langeberg place, Azaleapark,, South Africa ~72: PHETO, Olefile~

2025/01487 ~ Complete ~54:HOLLOW MICRONEEDLE ~71:Shaanxi Yungu Zhonghui Biopharmaceutical Co., Ltd., Room 310, 3rd Floor, Building F, Central and Western Land Port Financial Town, No. 99 Port Avenue, International Port Area, Xi'an City, Shaanxi Province, 710000, People's Republic of China ~72: DENG, Wu;HU, Chaoyan~ 33:CN ~31:202411865494.X ~32:18/12/2024

2025/01494 ~ Complete ~54:KEY CONTROL SYSTEM AND METHOD ~71:W.T.F.M INVESTMENTS (PTY) LTD., 93 Turffontein Road, Stafford, TURFFONTEIN, Johannesburg 2140, Gauteng, SOUTH AFRICA, South Africa ~72: ANGELOS, Komninos George~ 33:ZA ~31:2024/01744 ~32:29/02/2024

2025/01496 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF A NOVEL FUNCTIONALIZED WOOD-BASED MATERIAL MODIFIED WITH MEGLUMINE ~71:Qinghai Normal University, No.38, Wusixi Road, Chengxi District, Xining, Qinghai, People's Republic of China ~72: Chen Wei;Dong Wenwen;Gao Feiyu;Shi Wei;Sun Pengyu;Sun Zhe;Xue Jimin;Zhang Hengyuan;Zhu Xirui~ 33:CN ~31:2024111079167 ~32:13/08/2024

2025/01504 ~ Complete ~54:CENTRAL DEVICE FOR AN ARC FAULT PROTECTION SYSTEM ~71:DEHN SE, Hans-Dehn-Strasse 1, 92318, Neumarkt i.d.OPf., Germany ~72: ANDREAS SCHUMACHER;CHRISTIAN STAUDIGL;STEFAN DIETWEGER;THOMAS GOTTSCHALK~ 33:DE ~31:10 2024 104 688.0 ~32:20/02/2024

2025/01505 ~ Complete ~54:A CHINESE PAINTING DISPLAY PLATFORM ~71:Zhengzhou University of Aeronautics, No.2 Daxue Middle Road, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: Cheng Yudan;Ma Kexiang;Ran Yu;Zhao Yingchao;Zhou Bowan~

2025/01508 ~ Complete ~54:IMIDAZOPYRIDINE COMPOUNDS, PREPARATION THEREOF AND THERAPEUTIC USES THEREOF ~71:SANOFI, 46 Avenue de la Grande, France ~72: ARRANZ PLAZA, Maria Esther;AUGER, Florian Alain;BEGIS, Guillaume;BERNARDELLI, Patrick;CERTAL, Victor;DEVILLERS, Ingrid;DUTEIL, Virginie Rosine;MARCIREAU, Christophe;SLOWINSKI, Franck;ZHANG, Jidong~ 33:EP ~31:22186122.2 ~32:20/07/2022

2025/01516 ~ Complete ~54:A PROCESS FOR REMOVING PARTICULATE MATTER FROM A WASTE GAS STREAM ~71:RUBBER NANO PRODUCTS (PROPRIETARY) LIMITED, 34 Bird Street Central, Gqeberha, 6001, South Africa ~72: ROBERT MICHAEL BOSCH~ 33:ZA ~31:2022/08354 ~32:27/07/2022

2025/01521 ~ Complete ~54:CYCLIC UREA THIAZOLYL COMPOUNDS FOR TREATMENT OF HSV ~71:ASSEMBLY BIOSCIENCES, INC., 331 Oyster Point Boulevard, 4th Floor South San Francisco, California, 94080, United States of America ~72: HASSAN PAJOUHESH;JIAN ZHANG;JIAXIN YU;MARK BURES;MICHAEL WALKER;MIN ZHONG~ 33:US ~31:63/401,877 ~32:29/08/2022;33:US ~31:63/445,427 ~32:14/02/2023;33:US ~31:63/472,494 ~32:12/06/2023

2025/01522 ~ Complete ~54:RETINOL DERIVATIVE OR ITS SALT, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:SHENZHEN HUJIA TECHNOLOGY CO., LTD., Room 201, Building A, No. 1, Qianwan 1st Road, People's Republic of China ~72: LI, Menggeng;LIANG, Ling;LIU, Zhao;NIE, Xin;SHU, Peng;WANG, Jing;ZHAO, Nan~ 33:CN ~31:202311346467.7 ~32:17/10/2023

2025/01482 ~ Provisional ~54:AUTOMATED CASHLESS SYSTEM FOR DISTRIBUTION AND EXCHANGE OF LPG CYLINDERS ~71:GAS2GO (PTY) LTD, 11 Grayhawk Crescent, Sunningdale, South Africa ~72: TBA~

2025/01484 ~ Complete ~54:COMPUTER SYSTEM AND USER IDENTITY RECOGNITION METHOD AND APPARATUS THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: DUAN, Na;SHI, Chunlei;WAN, Fei;WANG, Binbin;ZHENG, Zheng~

2025/01488 ~ Complete ~54:SOIL CADMIUM POLLUTION PASSIVATION REMEDIATION AGENT FOR FARMLAND AND ITS APPLICATION METHOD ~71:Henan College of Surveying and Mapping, No. 30 Gongmao Road, Baisha Park, Zhengdong New District, Zhengzhou City, Henan Province, 451464, People's Republic of China;Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: Chunyang LU;Haocheng QIAN;Hongmin ZHANG;Huijie LI;Ruyi XU;Shenghang LIU;Teng WANG;Zhan LIU;Ziying SONG;Zizhen QIAO~

2025/01526 ~ Provisional ~54:SITUS CCBT APP ~71:BOTHWELL MSIMANGO, 76 BECKER STREET, African Intellectual Property Organization (OAPI) ~72: BOTHWELL MSIMANGO~ 33:ZA ~31:1 ~32:14/02/2025

- APPLIED ON 2025/02/19 -

2025/01537 ~ Complete ~54:A DUAL-MODE SYNTHETIC MOTION DEMONSTRATION TEACHING AID WITH VARIABLE VIEWING ANGLE TRAJECTORY MARKS ~71:Yantai University, No. 30, Qingquan Road, Laishan

District, Yantai City, Shandong Province, 264005, People's Republic of China ~72: Sitong Niu;Weimin Chen;Zhuoqun Yu~

2025/01528 ~ Provisional ~54:SUBTERRANEAN ARTIFICIAL AQUIFER ~71:Ramoshaba Lebogang Cliff, P.O Box 3530, South Africa ~72: Ramoshaba Lebogang Cliff~

2025/01532 ~ Complete ~54:METHOD FOR PRODUCING MAGNETITE CONCENTRATE POWDER FROM IRON OXIDE ORE ~71:SHI, Qijie, Chengshi Yangguang, Jizhou Street Office, Nanjiang County, Bazhong City, Sichuan Province, 635600, People's Republic of China ~72: SHI, Linling;SHI, Qijie~

2025/01538 ~ Complete ~54:SLUDGE-BASED HARD CARBON SODIUM ANODE MATERIAL AND PREPARATION METHOD THEREOF ~71:Chongqing Electric Power College, No. 9, Dianli Fourth Village, Huangjueping Street, Jiulongpo District, Chongqing, People's Republic of China;Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: DONG Shanshan;FU Haoka;HAN Ershuai;LI Hengbin;LIU Lele;WANG Lei;WANG Xutao;ZHANG Lilin;ZHANG Zhiyuan;ZHOU Hengtao~

2025/01553 ~ Complete ~54:ORAL FORMULATIONS COMPRISING POROUS SILICA PARTICLES AND MEDICAL USES THEREOF ~71:SIGRID THERAPEUTICS AB, 7A Odenplan, Norrtullsgatan 6, Sweden ~72: BAEK, Jeanha;BENGTSSON, Tore;BORG, Melissa Louise;JOHNSTON, Eric;ROBERT-NICOUD, Ghislaine Monique Nicole~ 33:GB ~31:2212240.2 ~32:23/08/2022

2025/01541 ~ Complete ~54:A DETERMINATION METHOD OF CRITICAL VALUE OF KEY PARAMETERS IN GROUND TEST OF ICE CRYSTAL ICING OF ENGINE COMPONENTS ~71:Beihang University, No.37 Xueyuan Road, Haidian District, Beijing, People's Republic of China ~72: Bu Xueqin;Huang Ping;Jin Haichuan;Lin Guiping;Liu Zonghui;Yu Jia~ 33:CN ~31:2024101919290 ~32:21/02/2024

2025/01555 ~ Complete ~54:CONVEYOR BELT CLEANER BLADE WEAR MONITORING SYSTEM ~71:FLEXIBLE STEEL LACING COMPANY, 2525 Wisconsin Avenue, United States of America ~72: DEVRIES, Brett E.~ 33:US ~31:63/400,224 ~32:23/08/2022;33:US ~31:63/452,616 ~32:16/03/2023

2025/01529 ~ Complete ~54:MAJOR GENE AHFTB02 CONTROLLING FLOWERING TIME OF PEANUT, MOLECULAR MARKERS THEREOF AND APPLICATIONS THEREOF ~71:Shandong Agricultural University, 61 Daizong Street, Tai'an City, Shandong Province, 271018, People's Republic of China ~72: Li Huadong;Li Xing;Li Yuying;Liu Fengzhen;Luo Lu;Wan Yongshan;Yu Haiyang;Zhang Kun~ 33:CN ~31:2024116054611 ~32:12/11/2024

2025/01531 ~ Complete ~54:ANESTHETIC MASK FOR PREVENTING GASTRIC TUBE FROM LEAKING DURING GENERAL ANESTHESIA INDUCTION MASK VENTILATION ~71:AFFILIATED HOSPITAL OF HEBEI UNIVERSITY, No. 212 Yuhua East Road, Lianchi District, Baoding City, Hebei Province, People's Republic of China ~72: LI Yongle;WU Xiaoxi;YANG Ling~

2025/01539 ~ Complete ~54:AN AUTOMATIC WET-DRY CYCLE PROCESSING DEVICE FOR CEMENT-STABILIZED TAILINGS SPECIMENS ~71:Yantai University, No. 30, Qingquan Road, Laishan District, Yantai City, Shandong Province, 264005, People's Republic of China ~72: Baihui Zhu;Tanglong Zuo;Zhuoqun Yu;Zixian Zhang~

2025/01544 ~ Complete ~54:MICROCHANNEL-BASED EXTRACTION OF METAL IONS FROM SOLUTIONS ~71:KAMANJAB 72 LIMITED, 20-22 Wenlock Road, United Kingdom ~72: KHAN, Saad Saleem;NISAR, Hamza;OMAR, Muhammad;SIDDIQUE, Husnain;USMAN, Muhammad~

2025/01550 ~ Complete ~54:IMMUNE CELLS HAVING CO-EXPRESSED TGFBR SHRNAS ~71:ARSENAL BIOSCIENCES, INC., 329 Oyster Point Blvd, United States of America ~72: BEZMAN, Natalie;CASBON, Amy-Jo;COOPER, Aaron;GAGNON, John;GRAY-RUPP, Levi;HALL, Jason;LITTERMAN, Adam;SINGH, Brenal~ 33:US ~31:63/375,519 ~32:13/09/2022;33:US ~31:63/489,840 ~32:13/03/2023;33:US ~31:63/495,867 ~32:13/04/2023;33:US ~31:63/516,484 ~32:28/07/2023

2025/01560 ~ Complete ~54:PROSTHETIC HEART VALVE ~71:Edwards Lifesciences Corporation, One Edwards Way, IRVINE 92614, CA, USA, United States of America ~72: BUKIN, Michael;GUROVICH, Nikolai;LAVON, Karin;LEVI, Tamir S.~ 33:US ~31:63/401,538 ~32:26/08/2022

2025/01530 ~ Complete ~54:METHOD FOR SELECTING SUPERIOR PAULOWNIA CLONES BASED ON EVALUATIONS CONDUCTED DURING SEEDLING AND YOUNG STAND STAGES ~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: DUAN, Wei;FENG, Yanzhi;LIU, Siqin;QIAO, Jie;WANG, Baoping;YANG, Chaowei;ZHAO, Yang~

2025/01542 ~ Complete ~54:OIL DRIP COLLECTION DEVICE FOR LUBRICATING OIL ~71:Fudis Petrochemical Technology (Huludao) Co., Ltd., No. 8, Gaoxin 10th Road, High tech Industrial Development Zone, Longgang District, Huludao City, Liaoning Province, 125000, People's Republic of China;TianJin Product Quality Inspection Technology Research Institute, No. 26, Kaihua Road, Huayuan Industrial Zone, Xiqing District, Tianjin, 300384, People's Republic of China ~72: BIAN, Hui;CHEN, Lei;LI, Siming;LIU, Shuzhen;TONG, Lili;WU, Qian;ZHANG, Xuedan~

2025/01551 ~ Complete ~54:A PALLET AND A METHOD OF MANUFACTURING THEREOF ~71:X-TYRE GLOBAL (PTY) LIMITED, 135 Cumberland Road,, South Africa ~72: FILEN, Oscar~ 33:ZA ~31:2022/09701 ~32:22/08/2022

2025/01558 ~ Complete ~54:INDAZOLE DERIVATIVES AS SEROTONERGIC AGENTS USEFUL FOR THE TREATMENT OF DISORDERS RELATED THERETO ~71:Mindset Pharma Inc., 217 Queen Street West, Suite 401, TORONTO M5V 0R2, ONTARIO, CANADA, Canada ~72: SLASSI, Abdelmalik~ 33:US ~31:63/401,856 ~32:29/08/2022

2025/01561 ~ Complete ~54:OBICETRAPIB AND EZETIMIBE COMBINATION TREATMENT AND FIXED DOSE PHARMACEUTICAL COMPOSITIONS ~71:NewAmsterdam Pharma B.V., Gooimeer 2-35, NAARDEN 1411 DC, THE NETHERLANDS, Netherlands ~72: CRAIG, Joanne Lesley;CUI, Sheng;DAVIDSON, Michael Harvey;DITMARSCH, Marc;KASTELEIN, Johannes Jacob Pieter~ 33:US ~31:63/399,755 ~32:22/08/2022;33:IB ~31:2022/075957 ~32:19/09/2022;33:US ~31:63/483,574 ~32:07/02/2023;33:US ~31:63/501,313 ~32:10/05/2023

2025/01546 ~ Complete ~54:SYSTEM FOR MOVING WORKING MACHINE AND LOGISTIC METHOD IN MINING OR QUARRY ~71:SLEIPNER FINLAND OY, Puistokatu 2 A, Finland ~72: HÖYLÄ, Teijo;MIETTINEN, Joonas~ 33:FI ~31:20225731 ~32:17/08/2022

2025/01554 ~ Complete ~54:LOCO-REGIONAL PERFUSION OF A KIDNEY ~71:DINAQOR AG, Wagistrasse 25, 8952, Schlieren, Switzerland ~72: JOSEF EL ANDARI;MARK DEHDASHTIAN;ÉDUARD AYUSO LÓPEZ~ 33:US ~31:63/399,713 ~32:21/08/2022

2025/01557 ~ Complete ~54:TRICYCLIC ARYL DERIVATIVES, AND COMPOSITIONS AND METHODS THEREOF ~71:Ensem Therapeutics, Inc., 880 Winter Street, Suite 1003, WALTHAM 02451, MA, USA, United States of America ~72: LI, Mingzong;LIU, Tao~ 33:US ~31:63/393,570 ~32:29/07/2022

2025/01562 ~ Complete ~54:EARTH BORING ROTARY BIT AND METHOD ~71:Sandvik Mining and Construction Tools AB, Valsverksstråket 14, SANDVIKEN 811 34 , SWEDEN, Sweden ~72: DEVIREDDI, Bala Balaji~ 33:IN ~31:202221052989 ~32:16/09/2022

2025/01534 ~ Complete ~54:RHEUMATISM IMMUNE PAIN RELIEF DEVICE ~71:AFFILIATED HOSPITAL OF HEBEI UNIVERSITY, No. 212 Yuhua East Road, Lianchi District, Baoding City, Hebei Province, People's Republic of China ~72: LI Yongle;WANG Zhimin;YANG Ling~

2025/01547 ~ Complete ~54:RECOVERING URANIUM FROM A URANYL NITRATE SOLUTION ~71:X-ENERGY, LLC, 801 THOMPSON AVENUE, SUITE 300, ROCKVILLE, MARYLAND 20852, USA, United States of America ~72: LINNEEN, Nicholas;TILTON, Alex~ 33:US ~31:17/876,517 ~32:28/07/2022

2025/01552 ~ Complete ~54:DOPPLER EFFECT BASED SYSTEM AND METHOD OF MEASURING ON-AXIS OF SURFACE MOVEMENT ~71:MEASURE-IPR APS, c/o Bygning 108 Frederiksborgvej 399 Himmerlev, Denmark ~72: GRUNER HANSON, Vagn Steen;LASSE, Høi;LINDE JAKOBSEN, Michael;SLOTH JENSEN, Kåre~ 33:DK ~31:PA202200784 ~32:24/08/2022

2025/01527 ~ Provisional ~54:GRIP COVER FOR HANDRAILS ~71:JACOBUS JONATHAN JACOB, SWARTS, Plot 339, Dinie Estates Road, Kroondal, South Africa ~72: JACOBUS JONATHAN JACOB, SWARTS~

2025/01533 ~ Complete ~54:LUBRICATING OIL LUBRICITY TESTING BENCH ~71:Fudis Petrochemical Technology (Huludao) Co., Ltd., No. 8, Gaoxin 10th Road, High tech Industrial Development Zone, Longgang District, Huludao City, Liaoning Province, 125000, People's Republic of China;TianJin Product Quality Inspection Technology Research Institute, No. 26, Kaihua Road, Huayuan Industrial Zone, Xiqing District, Tianjin, 300384, People's Republic of China ~72: BIAN, Hui;CHEN, Lei;SUN, Ke;TONG, Lili;WANG, Ying;WU, Yunlong;ZHANG, Xuedan~

2025/01536 ~ Complete ~54:A SURFACE MODIFICATION TREATMENT DEVICE FOR RECYCLED RUBBER GRANULES FROM WASTE TIRES ~71:Yantai University, No. 30, Qingquan Road, Laishan District, Yantai City, Shandong Province, 264005, People's Republic of China ~72: Zhuoqun Yu;Zimeng Li~

2025/01548 ~ Complete ~54:SILICON-BASED FLUORIDE ACCEPTOR GROUPS FOR RADIOPHARMACEUTICALS ~71:TECHNISCHE UNIVERSITÄT MÜNCHEN, ARCSSTRASSE 21, D-80333, MÜNCHEN, GERMANY, Germany ~72: BECK, Roswitha;DEISER, Sandra Michaela;FAHNAUER, Markus, Frederik;FENZL, Sebastian, Alexander;FISCHER, Sebastian;GÜNTHER, Thomas;HOLZLEITNER, Nadine;KUNERT, Jan-Philip;STOPPER, León;URTZ-URBAN, Nicole;WESTER, Hans-Jürgen~ 33:EP ~31:22187845.7 ~32:29/07/2022

2025/01559 ~ Complete ~54:FUSION PROTEIN INHIBITORS OF KLK5 ~71:BioCryst Pharmaceuticals, Inc., 4505 Emperor Blvd., Suite 200, DURHAM 27703, NC, USA, United States of America ~72: BABU, Yarlagadda S.;CHEN, Xilin~ 33:US ~31:63/390,780 ~32:20/07/2022

2025/01540 ~ Complete ~54:A VIBRATION DECONTAMINATION DEVICE OF POLYMER FIBER FOR WASTE TIRE RECYCLING WITH ADJUSTABLE AMPLITUDE ~71:Yantai University, No. 30, Qingquan Road, Laishan District, Yantai City, Shandong Province, 264005, People's Republic of China ~72: Jianpeng Yang;Tian Wang;Wenxu Li;Zelu Dong;Zhuoqun Yu~

2025/01543 ~ Complete ~54:PHOTINIA x FRASERI CULTIVATION SUBSTRATE AND PREPARATION METHOD THEREOF ~71:Anhui Science and Technology University, No.9 Donghua Road, Fengyang County, Chuzhou City, Anhui province, 233100, People's Republic of China ~72: HU Jin;LI Jie;LI Xiaoye;LIU Airong;REN Yuhe;SHI Xiaowei;WAN Mei;YIN Ni;ZHANG Yuanbing;ZHAO Kunkun~

2025/01549 ~ Complete ~54:CONDITIONAL HANDOVER WITH A TARGET DUAL CONNECTIVITY CONFIGURATION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: AWADA, Ahmad;CHANDRASHEKAR, Subramanya;GÜRSU, Halit Murat;KARABULUT, Umur;SELVAGANAPATHY, Srinivasan;SPAPIS, Panagiotis;STANCZAK, Jędrzej~ 33:IN ~31:202241043264 ~32:28/07/2022

2025/01556 ~ Complete ~54:1,2-SUBSTITUTED 3-OXOPYRAZOLIDINE DERIVATIVES AS PROSTAGLANDIN E2 RECEPTOR 4 (EP4) AGONISTS FOR THE TREATMENT OF GASTROINTESTINAL AND PULMONARY DISEASES ~71:Nxera Pharma UK Limited, Granta Park, Great Abington, CAMBRIDGE CB21 6DG, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: BROWN, Giles Albert;CONGREVE, Miles Stuart;SWAIN, Nigel Alan;WHITEHURST, Benjamin~ 33:GB ~31:2211234.6 ~32:02/08/2022

2025/01535 ~ Complete ~54:METHOD FOR PREPARING SCALE INHIBITION AND DISPERSION AGENT FOR WET-PROCESS PHOSPHORIC ACID ONE-STAGE CONCENTRATION SYSTEM ~71:Kunming University of Science and Technology, No.727 JingMing South Road, Chenggong District, Kunming City, Yunnan Province, 650500, People's Republic of China ~72: HE, Jingyao;WANG, Jianhong;WANG, Langlang;WANG, Xueqian;ZHAO, Chaoqin~

2025/01545 ~ Complete ~54:COMPOSITIONS AND DOSAGE FORMS FOR TREATMENT OF HPV INFECTION AND HPV-INDUCED NEOPLASIA ~71:ANTIVA BIOSCIENCES, INC., 555 Twin Dolphin Drive, Suite 620, United States of America ~72: ALDOUS, Barry;ARGADE, Ankush;DANIELS, Oranee;GADIRAJU, Ramakrishna;JIANG, Siyi;LI, Runyan;MADERIS, Gail;MAHALINGAM, Ravichandran;QIN, Zhaoyang;WALTER, Sarah;ZHAO, Zhengle~ 33:US ~31:63/391,283 ~32:21/07/2022;33:US ~31:63/400,661 ~32:24/08/2022;33:CN ~31:202211206517.7 ~32:30/09/2022;33:US ~31:63/412,143 ~32:30/09/2022

- APPLIED ON 2025/02/20 -

2025/01597 ~ Provisional ~54:SJM AI:PROJECT & TUTOR ASSISTANT ~71:Steven-John Marais, 15 Silver Street,, South Africa ~72: Steven-John Marais~

2025/01567 ~ Provisional ~54:WASHA SNEAKER WASHING MACHINE ~71:Xolani Zondo, 453 Corlett Drive, South Africa ~72: Xolani Zondo~

2025/01574 ~ Complete ~54:METHOD AND SYSTEM FOR GENERATING ABSTRACT OF SMART CONTRACT BASED ON LARGE LANGUAGE MODEL AND SEMANTIC ENHANCEMENT ~71:Hainan University, No. 58, Renmin Avenue, Meilan District, Haikou City, Hainan Province, People's Republic of China ~72: Wenkai LI;Xiaoqi LI;Yingjie MAO;Zongwei LI~ 33:CN ~31:202410980531.5 ~32:22/07/2024

2025/01579 ~ Complete ~54:ENERGY-SAVING TUNNEL LIGHTING SYSTEM ~71:Fujian Guozhu Construction Engineering Co., Ltd., No. 47 Baizhang Street, Baizhang Town, Minqing County, Fuzhou City, Fujian Province, 350804, People's Republic of China;Fujian University of Technology, No. 69 Xuefu South Road, Shangjie Town, Minhou County,, Fuzhou City, Fujian Province, 350108, People's Republic of China;Fuzhou University, No. 2 Wulongjiang North Avenue, Fuzhou University City, Fuzhou City, Fujian Province, 350108, People's Republic of China;Zhongxing Huajun Construction Co., Ltd., Room 2408, Peak Headquarters Building, No. 1569 Fenghai Road, Fengze District, Quanzhou City, Fujian Province, 362046, People's Republic of China ~72: CHEN, Xiang;XIAO, Zhenke;ZHANG, Wei;ZHANG, Yuanchao~ 33:CN ~31:202411779670.8 ~32:05/12/2024

2025/01584 ~ Complete ~54:ANTIBODIES TO CD3 AND BCMA, AND BISPECIFIC BINDING PROTEINS MADE THEREFROM ~71:Shanghai EpimAb Biotherapeutics Co., Ltd., 6th Floor, Building 2, 4560 Jinke Road, Pudong New District, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: GONG, Shiyong;HUANG,

Lini;SHUAI, Zhengrong;WU, Chengbin;WU, Danqing;WU, Xuan;ZHANG, Amin;ZHANG, Rui~ 33:IB
~31:2019/120991 ~32:26/11/2019;33:IB ~31:2020/111796 ~32:27/08/2020

2025/01587 ~ Complete ~54:APPARATUS AND METHOD FOR DRYING AND STYLING HAIR ~71:JEMELLA LIMITED, Bridgewater Place, Water Lane, Leeds, Yorkshire, LS11 5BZ, United Kingdom ~72: ADAM STONE;ALEX HARRISON;ANTHONY SARGEANT;ED SURRIDGE;LIAM WRIGHT;RICHARD GOLD;ROBERT WEATHERLY;TIM HONE;TIMOTHY MOORE~ 33:GB ~31:1910869.5 ~32:30/07/2019

2025/01583 ~ Complete ~54:COMPOUNDS AND METHODS FOR THE TARGETED DEGRADATION OF ANDROGEN RECEPTOR ~71:Arvinas Operations, Inc., 5 Science Park, 395 Winchester Avenue, NEW HAVEN 06511, CT, USA, United States of America ~72: CREW, Andrew P.;DONG, Hanqing;SNYDER, Lawrence B.;WANG, Jing~ 33:US ~31:62/950,815 ~32:19/12/2019;33:US ~31:63/032,473 ~32:29/05/2020;33:US ~31:63/089,497 ~32:08/10/2020

2025/01585 ~ Complete ~54:APIXABAN FILM PRODUCT AND USES THEREOF ~71:TAHO Pharmaceuticals Ltd., 3F, No. 550, Ruiguang Rd., Neihu Dist., TAIPEI CITY 11492, TAIWAN (R.O.C.), Taiwan, Province of China ~72: LEE, Catherine;LU, Tachien~ 33:US ~31:63/208,134 ~32:08/06/2021

2025/01588 ~ Complete ~54:POLYPEPTIDES BINDING TO A SPECIFIC EPITOPE OF THE NEONATAL FC RECEPTOR ~71:ABLYNX NV, Technologiepark 21, Belgium;SANOFI, 46 Avenue de la Grande, France ~72: BERTRAND, Thomas;BOUTTON, Carlo;DE WITTE, Wilbert;STAELENS, Stephanie;VAN BOGAERT, Tom;VERHELST, Judith~ 33:EP ~31:22306120.1 ~32:27/07/2022

2025/01595 ~ Complete ~54:ANIMAL THERAPEUTIC COMPOSITIONS AND ASSOCIATED METHODS ~71:KoDiscovery, LLC, 701 East Pratt Street, BALTIMORE 21202, MD, USA, United States of America ~72: KO, Young Hee~ 33:US ~31:63/391,261 ~32:21/07/2022

2025/01596 ~ Complete ~54:FREE-PISTON ENGINE ~71:CARBALLADA, Manuel Exposito, Hildebrando José da Silva, nº 529, Baisso São João 88304200 Itajai / Santa Catarina, Brazil, Santa Catarina, Brazil ~72: CARBALLADA, Manuel Exposito~ 33:BR ~31:1020220153574 ~32:03/08/2022

2025/01577 ~ Complete ~54:ASYNCHRONOUS FLOTATION SEPARATION METHOD FOR MARMATITE AND IRON SULFIDE MINERAL ~71:Kunming University of Science and Technology, No. 68 Wenchang Road, No. 121 Street, Kunming City, Yunnan Province, 650032, People's Republic of China ~72: MA, Yuanlin;QI, Jing;TONG, Xiong;WANG, Changtao;XIE, Ruiqi;XIE, Xian~ 33:CN ~31:202410493900.8 ~32:24/04/2024

2025/01580 ~ Complete ~54:USE OF GHNFXL1 GENE IN IMPROVING SALT TOLERANCE AND/OR COLD TOLERANCE OF GOSSYPIUM PLANT ~71:INSTITUTE OF COTTON RESEARCH, CHINESE ACADEMY OF AGRICULTURAL SCIENCES, No. 38 Huanghe Avenue, Development Zone, Anyang, 455000, People's Republic of China ~72: Kunlun HE;Shuai WANG;Xiang REN;Xiaoyu PEI;Xingxing WANG;Xiongfeng MA;Xiugui CHEN;Yu GAO;Yu LIANG;Yuzhi ZHANG;Zhenyu WANG~ 33:CN ~31:2024119436942 ~32:26/12/2024

2025/01570 ~ Complete ~54:BLASTING DRILLING DEVICE FOR TUNNEL BLASTING CONSTRUCTION ~71:Fujian Guozhu Construction Engineering Co., Ltd., No. 47 Baizhang Street, Baizhang Town, Mingqing County, Fuzhou City, Fujian Province, 350804, People's Republic of China;Fujian University of Technology, No. 69 Xuefu South Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China;Fuzhou University, No. 2 Wulongjiang North Avenue, Fuzhou University City, Fuzhou City, Fujian Province, 350108, People's Republic of China;Zhongqi Huahao Construction Co., Ltd., No. 18 Yinguang Road, Gunong Farm, Changtai District, Zhangzhou City, Fujian Province, 363999, People's Republic of China;Zhongxing Huajun Construction Co., Ltd., Room 2408, Peak Headquarters Building, No. 1569 Fenghai Road, Fengze District,

Quanzhou City, Fujian Province, 362046, People's Republic of China ~72: CHEN, Xiang;LIN, Yu;XIAO, Zhenke;ZHANG, Wei;ZHANG, Yuanchao~ 33:CN ~31:202411779819.2 ~32:05/12/2024

2025/01573 ~ Complete ~54:THYMOPOIETIN SUSTAINED-RELEASE NANOPARTICLE, PREPARATION METHOD, AND APPLICATION ~71:The First Affiliated Hospital of Hainan Medical University, No.31 Longhua Road, Longhua District, Haikou, Hainan Province, 570102, People's Republic of China ~72: Baichuan LIANG;Hailong TIAN;Shaojiang ZHENG;Xiaodian ZHANG;Yang CHEN~

2025/01564 ~ Provisional ~54:MECHANICAL DOOR OPENING MECHANISM ~71:MAKHANYA, MONDLI STANSLAUS, 11 Royal Palms, Cnr. Malibongwe and Western Bypass, Sharonlea Ext 17, South Africa ~72: MAKHANYA, MONDLI STANSLAUS~

2025/01569 ~ Complete ~54:METHOD AND SYSTEM FOR VESSEL OPERATION SIMULATION BASED ON GEOGRAPHIC ENVIRONMENT SIMULATION ~71:Zhejiang International Maritime College, No. 268 Haitian Avenue, Lincheng New District, Zhoushan City, Zhejiang Province, 316021, People's Republic of China ~72: Jinbao LIU;Wei HE;Xiaoxing PENG;Yibing WANG;Zhihao HAN~ 33:CN ~31:2024116939263 ~32:25/11/2024

2025/01575 ~ Complete ~54:LUNG BIOPSY PUNCTURE NEEDLE GUIDING DEVICE ~71:Yichang Central People's Hospital (First Clinical Medical College of Three Gorges University, Central People's Hospital Affiliated to Three Gorges University), No. 183, Yiling Avenue, Yichang, Hubei, People's Republic of China ~72: Gan Mu;Jun Xiang;Yu Liu~

2025/01581 ~ Complete ~54:VENTILATING MASSAGE SEAT FOR AGRICULTURAL MACHINERY DRIVING ~71:Anhui Science And Technology University, No. 9 Donghua Road (Fengyang Campus), Fengyang County, Anhui Province, 233100, People's Republic of China ~72: CAO, Bo;HAN, Luyao;LIN, Xiaqi;WANG, Jian;ZHU, Siyi~

2025/01592 ~ Complete ~54:METHODS, SYSTEMS AND COMPUTER-READABLE MEDIA FOR TRAINING DOCUMENT TYPE PREDICTION MODELS, AND USE THEREOF FOR CREATING ACCOUNTING RECORDS ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: ANWAR, Muhammed;CHEAH, Soon-Ee;DESAI, Khantil;WEINER, Leah;XIE, Holly~ 33:AU ~31:2022902412 ~32:23/08/2022;33:AU ~31:2022903391 ~32:11/11/2022

2025/01566 ~ Provisional ~54:SYSTEM AND METHOD FOR PROXIMITY-BASED DIGITAL BILLBOARD MESSAGING USING FM/RDS TECHNOLOGY ~71:Stallone Mushota, 15, Homestead, South Africa ~72: Stallone Mushota~

2025/01571 ~ Complete ~54:CUTTING DEVICE FOR ROAD BRIDGE CONSTRUCTION ~71:Fujian Guozhu Construction Engineering Co., Ltd., No. 47 Baizhang Street, Baizhang Town, Minqing County, Fuzhou City, Fujian Province, 350804, People's Republic of China;Fujian University of Technology, No. 69 Xuefu South Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China;Fuzhou University, No. 2 Wulongjiang North Avenue, Fuzhou University City, Fuzhou City, Fujian Province, 350108, People's Republic of China;Zhongxing Huajun Construction Co., Ltd., Room 2408, Peak Headquarters Building, No. 1569 Fenghai Road, Fengze District, Quanzhou City, Fujian Province, 362046, People's Republic of China ~72: CHEN, Xiang;XIAO, Zhenke;YANG, Yan;ZHANG, Wei~ 33:CN ~31:202411939537.4 ~32:26/12/2024

2025/01576 ~ Complete ~54:AN ADJUSTABLE BRACKET ~71:BEUKES, Dewald, 1026 MARTHA ROAD, ELDORAIGNE, 0157, PRETORIA, SOUTH AFRICA, South Africa ~72: BEUKES, Dewald~ 33:ZA ~31:2023/08548 ~32:06/03/2024

2025/01582 ~ Complete ~54:SOIL SAMPLING DEVICE WITH LAYERED SAMPLING FUNCTION ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: HU Hui;LIU Biao;WANG Yunqiu;ZHANG Ruibo;ZHANG Tingting~

2025/01591 ~ Complete ~54:PROCESS FOR THE EXTRACTION OF PHRAGMALIN DERIVATIVES FROM ENTANDROPHRAGMA CAUDATUM SEED AND PREPARATION OF PHARMACEUTICALLY ACTIVE LIMONIDS ~71:DICOT PHARMA AB, St. Olofsgatan 11 A, Sweden ~72: MALMBERG, Catarina;WESTMAN, Jacob~ 33:SE ~31:2251130-7 ~32:30/09/2022

2025/01589 ~ Complete ~54:METAL POWDER FOR ADDITIVE MANUFACTURING ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Laura DEL RIO FERNANDEZ;Manuel SÁNCHEZ PONCELA;Rosalia REMENTERIA FERNANDEZ;Verónica SUAREZ FERNANDEZ~ 33:IB ~31:PCT/IB2022/060030 ~32:19/10/2022

2025/01593 ~ Complete ~54:CUTTING ELEMENTS INCLUDING BINDER MATERIALS HAVING MODULATED MORPHOLOGIES, EARTH-BORING TOOLS INCLUDING SUCH CUTTING ELEMENTS, AND RELATED METHODS OF MAKING AND USING SAME ~71:Baker Hughes Oilfield Operations LLC, 17021 Aldine Westfield Road, HOUSTON 77073, TX, USA, United States of America ~72: ROBERTSON, Andrew~ 33:US ~31:63/369,486 ~32:26/07/2022

2025/01598 ~ Provisional ~54:VERTICAL FARMING SOLUTION ~71:Kgaugelo Tshokwe, Boundary Road, 58 Glen Eagles, Jackal Creek Golf Estate, South Africa ~72: Kgaugelo Tshokwe~ 33:ZA ~31:1 ~32:18/02/2025

2025/01563 ~ Provisional ~54:LIFTING TOOL FOR CARGO EDGE PROTECTORS IN FREIGHT SECURING OPERATIONS ~71:Steenkamp, Crystal Lèchè, 4 Jameson Street Strandvale, South Africa ~72: Crystal Lèchè Steenkamp~

2025/01565 ~ Provisional ~54:DRYING BINS ~71:MAYO MACS SA (PTY) LTD, D16, Road 1054, Schagen, South Africa ~72: GROBLER, Heinrich Christof;JOUBERT, Johannes Wilhelmus;JOUBERT, Nicolaas Johannes Jakobus~

2025/01568 ~ Complete ~54:INTERACTIVE METHOD AND APPARATUS FOR APPLICATION SCENARIO SIMULATION TARGETING VISUAL SIGNALS IN VESSELS ~71:Zhejiang International Maritime College, No. 268 Haitian Avenue, Lincheng New District, Zhoushan City, Zhejiang Province, 316021, People's Republic of China ~72: Jianhua JIANG;Wei HE;Xiaoxing PENG;Yibing WANG;Zhihao HAN~ 33:CN ~31:202411691274X ~32:25/11/2024

2025/01572 ~ Complete ~54:METHOD FOR PREPARING NANOSPHERE PRESERVATIVE ~71:Ji'an College, Ji'an South Avenue, Jizhou District, Ji'an City, Jiangxi Province, 343000, People's Republic of China ~72: FENG, Wenwen;GUO, Qi;HU, Wenwen;LEI, Qian;LIU, Yuying;PENG, Weifu;XIAO, Liqiong;XIAO, Na;ZHOU, Cong;ZHOU, Huang;ZHOU, Ningping~

2025/01578 ~ Complete ~54:DRAINAGE DEVICE FOR A ROAD AND BRIDGE ~71:Fujian Guozhu Construction Engineering Co., Ltd., No. 47 Baizhang Street, Baizhang Town, Minqing County, Fuzhou City, Fujian Province, 350804, People's Republic of China;Fujian University of Technology, No. 69 Xuefu South Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China;Fuzhou University, No. 2 Wulongjiang North Avenue, Fuzhou University City, Fuzhou City, Fujian Province, 350108, People's Republic of China;Zhongxing Huajun Construction Co., Ltd., Room 2408, Peak Headquarters Building, No. 1569 Fenghai Road, Fengze District, Quanzhou City, Fujian Province, 362046, People's Republic of China ~72: CHEN, Xiang;XIAO, Zhenke;YANG, Yan;ZHANG, Wei~ 33:CN ~31:202411975572.1 ~32:30/12/2024

2025/01586 ~ Complete ~54:FACTOR XII (F12) IRNA COMPOSITIONS AND METHODS OF USE THEREOF
~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge,
Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;KARYN SCHMIDT;MARK K
SCHLEGEL~ 33:US ~31:63/232,840 ~32:13/08/2021

2025/01590 ~ Complete ~54:SECURITY FOR SIDELINK (SL) UE-TO-UE RELAY
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: FU, Zhang;WANG,
Cheng;WIFVESSON, Monica~ 33:CN ~31:PCT/CN2022/123479 ~32:30/09/2022

2025/01594 ~ Complete ~54:ANTI-SEZ6 ANTIBODY DRUG CONJUGATES ~71:AbbVie Inc., 1 N. Waukegan
Road, NORTH CHICAGO 60064, IL, USA, United States of America ~72: FAIVRE, Emily Jean;O'HAINMHIRE,
Eoghainin;PHILLIPS, Andrew C.;REILLY, Regina M.~ 33:US ~31:63/373,668 ~32:26/08/2022

- APPLIED ON 2025/02/21 -

2025/01609 ~ Complete ~54:LOAD DISTRIBUTION DEVICE ~71:CRAIG DAVID DAVIES, 3 Martha Street,
Kloofendal Ext. 3, Roodepoort, South Africa;GORDON DANIEL DAVIES, 12 Maroela Road, Dal Fouche, Springs,
Gauteng, 1559, South Africa ~72: CRAIG DAVID DAVIES;GORDON DANIEL DAVIES~ 33:ZA ~31:2023/10810
~32:23/11/2023

2025/01611 ~ Complete ~54:ANTIBODY RESISTANT MODIFIED RECEPTORS TO ENHANCE CELL-BASED
THERAPIES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United
States of America ~72: MOORE, Michael;MURPHY, Andrew J.;PANEA, Casandra;ROMERO HERNÁNDEZ,
Annabel;SLEEMAN, Matthew;YANCOPOULOS, George, D.;ZHANG, Liang~ 33:US ~31:63/377,444
~32:28/09/2022;33:US ~31:63/578,729 ~32:25/08/2023

2025/01612 ~ Complete ~54:GENETICALLY MODIFIED MICE EXPRESSING COMPONENTS OF HUMAN
CELLULAR IMMUNE SYSTEM ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road,
Tarrytown, United States of America ~72: GUO, Chunguang;GURER, Cagan;MACDONALD, Lynn;MCWHIRTER,
John;MURPHY, Andrew J.;TU, Naxin;VORONINA, Vera~ 33:US ~31:63/376,706 ~32:22/09/2022;33:US
~31:63/383,213 ~32:10/11/2022

2025/01618 ~ Complete ~54:SEPARATE PARALLEL ZONE HYDROFORMYLATION REACTION ~71:Johnson
Matthey Davy Technologies Limited, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM,
United Kingdom ~72: WALTERS, Matthew Thomas Alastair;WILLIAMS, Michael Gavin John~ 33:GB
~31:2213997.6 ~32:26/09/2022

2025/01626 ~ Complete ~54:PEPTIDE FOR THE TREATMENT OF DISEASES ASSOCIATED WITH
APOLIPOPROTEIN AI OR TRANSTHYRETIN INVOLVEMENT ~71:Centro de Ingeniería Genética y
Biotecnología, Ave. 31, Nº 15802, entre 158 y 190, Cubanacán, PLAYA 11300, LA HABANA, CUBA, Cuba ~72:
CHINEA SANTIAGO, Glay;DOMÍNGUEZ HORTA, Maria del Carmen;GONÁLEZ BLANCO, Sonia;GUILLÉN
NIETO, Gerardo Enrique;HERRERA WONG, Mónica;MARTÍNEZ DONATO, Gillian;PAEZ MEIRELES,
Rolando;RAMOS GÓMEZ, Yassel;SERRANO DÍAZ, Anabel;UBIETA GÓMEZ, Raimundo;VENEGAS
RODRÍGUEZ, Rafael~ 33:CU ~31:2022-0040 ~32:22/07/2022

2025/01628 ~ Complete ~54:ARYL-TRIAZOLYL AND RELATED GPR84 ANTAGONISTS AND USES THEREOF
~71:LIMINAL BIOSCIENCES LIMITED, 3rd Floor, 1 Ashley Road, Altrincham, Cheshire WA14 2DT, United
Kingdom ~72: ELYSE BOURQUE;JEREMY GREEN;JULIEN MARTEL;MYLÈNE DE LÉSÉLEUC;NADIA MICHEL
NASSER;SHAUN ABBOTT~ 33:US ~31:63/394,381 ~32:02/08/2022

2025/01603 ~ Complete ~54:AN R-TYPE LARYNGEAL STENOSIS EXPANSION STENT WITH AN INNER SLEEVE ~71:QuZhou People's Hospital (The Central Hospital Of Qu Zhou), No. 100, Minjiang Avenue, Kecheng District, Quzhou City, Zhejiang Province, People's Republic of China ~72: Fu Yin;Jiang Bingjie;Jiang Liyin;Li Huimei;Yu Xiangchun;Zhang Weihong;Zhao Chenyang~

2025/01624 ~ Complete ~54:COMPOSITION COMPRISING BIODEGRADABLE MICROCAPSULES ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: AUSSANT, Emmanuel;HARRISON, Ian Michael~ 33:EP ~31:22186452.3 ~32:22/07/2022

2025/01621 ~ Complete ~54:BEVERAGE OR FOODSTUFF PREPARATION SYSTEM ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: KOLLEP, Alexandre;NOTH, André;PAILLARD, Olivier;VUAGNIAUX, Didier~ 33:EP ~31:22187725.1 ~32:29/07/2022

2025/01601 ~ Provisional ~54:A METHOD OF, AND A SYSTEM FOR, FACILITATING CASHLESS TIPPING OF CAR GUARDS IN PARKING AREAS ~71:STIRK, Ronald Charles, 60 Black Kite Close, Falcon View Estate, South Africa ~72: STIRK, Ronald Charles~

2025/01614 ~ Complete ~54:PERSONAL CARE COMPOSITION WITH POST BIOTIC BLEND ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BOYD, Thomas;FAN, Aixing;GRIGNARD, Jacques Roger;LI, Min;MAO, Junhong;OLVERA, David;SHAHANI, Komal;SOLIMAN, Nadia~ 33:US ~31:63/402,915 ~32:31/08/2022

2025/01623 ~ Complete ~54:BEVERAGE OR FOODSTUFF PREPARATION SYSTEM ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: KOLLEP, Alexandre;NOTH, André;PAILLARD, Olivier;VUAGNIAUX, Didier~ 33:EP ~31:22187701.2 ~32:29/07/2022

2025/01602 ~ Provisional ~54:BLOCK MAKING MACHINE ~71:HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED, 220 Rondebult Road Libradene, Boksburg, 1459, South Africa ~72: GEORGE BURROW~

2025/01622 ~ Complete ~54:BEVERAGE OR FOODSTUFF PREPARATION SYSTEM ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: KOLLEP, Alexandre;NOTH, André;PAILLARD, Olivier;VUAGNIAUX, Didier~ 33:EP ~31:22187694.9 ~32:29/07/2022

2025/01616 ~ Complete ~54:OPTICAL SPLITTER AND OPTICAL NETWORK SYSTEM ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: FU, Xin;JIANG, Yongshuo;PAN, Zirui~ 33:CN ~31:202222242549.4 ~32:24/08/2022

2025/01627 ~ Complete ~54:TRUNCATING THE DISTRIBUTION OF MODULUS PROPERTIES IN NATURAL POPULATIONS OF WOOD ~71:InventWood Inc., 5971 Jefferson Station, Ste. 100, FREDERICK 21703, MD, USA, United States of America ~72: BRADSHAW, Allan;WINTEROWD, Jack G.~ 33:US ~31:63/400,332 ~32:23/08/2022

2025/01606 ~ Complete ~54:DYNAMIC ANALYSIS METHOD FOR DYNAMIC PERFORMANCE OF S-SHAPED GEAR PLANETARY GEAR TRAIN ~71:Fuzhou University, Fuzhou University, No.2 Wulongjiangbei Avenue, Fuzhou University Town, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China ~72: JIA Chao;LI Qinghai;LU Ling~

2025/01625 ~ Complete ~54:MUTANT PROMOTING HOMOLOGOUS PAIRING OF HEAVY AND LIGHT CHAINS OF MULTISPECIFIC ANTIBODY ~71:Innovent Biologics (Suzhou) Co., Ltd., 168 Dongping Street,

Suzhou Industrial Park, SUZHOU 215123, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: GAO, Changshou;ISSAFRAS, Hassan;WANG, Yi;YANG, Xiao~ 33:CN ~31:202210915171.1 ~32:22/07/2022;33:CN ~31:202310261507.1 ~32:17/03/2023

2025/01600 ~ Provisional ~54:A GRID HANDLING APPARATUS ~71:NELL, Johannes, 471 QUEENS CRESCENT, LYNNWOOD, PRETORIA, 0081, South Africa ~72: NELL, Johannes~

2025/01605 ~ Complete ~54:PHARMACEUTICAL PREPARATION CONTAINING ZANGYINCHEN AND ASTRAGALI RADIX AND APPLICATION THEREOF ~71:Qinghai Minzu University, No.3 Bayizhonglu, Chengdong District, Xining City, Qinghai Province, 810007, People's Republic of China ~72: WANG Jiuli~

2025/01599 ~ Provisional ~54:COMPOSITE SAFETY NET FOR CONCUSSION WAVE MITIGATION ~71:NICAUD COMPANIES 22 (PTY) LTD, Platinum Industrial Park, 88 van Belkum Street, South Africa ~72: FLANAGAN, Fredrick William~

2025/01608 ~ Complete ~54:ZANGYINCHEN (SWERTIA MUSSOTII) COMPOUND MEDICINE AND APPLICATION THEREOF ~71:Qinghai Minzu University, No.3 Bayizhonglu, Chengdong District, Xining City, Qinghai Province, 810007, People's Republic of China ~72: WANG Jiuli~

2025/01610 ~ Complete ~54:CRAWLER-TYPE INTELLIGENT FIRE SUPPRESSION EQUIPMENT FOR THREE-SOFT COAL SEAM WITH MUD-DESTABILIZED ROADWAY FLOOR ~71:Zhalainuoer Coal Industry Co., Ltd, No.17, Yulin Street, Zhalainuoer Mining Area, Manzhouli City, Inner Mongolia Autonomous Region, 021410, People's Republic of China ~72: HOU, Lei;LI, Lin;LI, Qinghai;LI, Zhe;WANG, Guohui;YAN, Shouqing;YANG, Yue;ZHANG, Jinliang;ZHAO, Yu;ZHOU, Peijun~

2025/01613 ~ Complete ~54:METAL POWDER FOR ADDITIVE MANUFACTURING ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Hassan GHASSEMI-ARMAKI;Manuel SÁNCHEZ PONCELA;Md SHAMSUJJOHA;Rosalia REMENTERIA FERNANDEZ;Venkata Sai Ananth CHALLA~ 33:IB ~31:PCT/IB2022/060032 ~32:19/10/2022

2025/01604 ~ Complete ~54:CONVENIENTLY POSITIONED DIESEL LUBRICITY TESTING DEVICE ~71:TianJin Product Quality Inspection Technology Research Institute, No. 26, Kaihua Road, Huayuan Industrial Zone, Xiqing District, Tianjin, 300384, People's Republic of China;Tianjin University, No. 135, Yaguan Road, Jinnan District, Tianjin, 300354, People's Republic of China ~72: BIAN, Hui;CHEN, Lei;LI, Huafei;PAN, Lun;SUN, Ke;TONG, Lili;ZHANG, Xuedan~

2025/01620 ~ Complete ~54:BEVERAGE OR FOODSTUFF PREPARATION SYSTEM ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: KOLLEP, Alexandre;NOTH, André;PAILLARD, Olivier;VUAGNIAUX, Didier~ 33:EP ~31:22187711.1 ~32:29/07/2022

2025/01630 ~ Complete ~54:HETEROARYL CARBOXAMIDE AND RELATED GPR84 ANTAGONISTS AND USES THEREOF ~71:LIMINAL BIOSCIENCES LIMITED, 3rd Floor, 1 Ashley Road, Altrincham, Cheshire WA14 2DT, United Kingdom ~72: ELYSE BOURQUE;JEREMY GREEN;JULIEN MARTEL;MYLÈNE DE LÉSÉLEUC;NADIA MICHEL NASSER;SHAUN ABBOTT~ 33:US ~31:63/394,371 ~32:02/08/2022

2025/01615 ~ Complete ~54:INTIMATE CARE COMPOSITION WITH POST BIOTIC BLEND ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BOYD, Thomas;CHUNG, Stephy Qianwen;FAN, Aixing;GRIGNARD, Jacques Roger;LI, Min;MAO, Junhong;OLVERA, David;SHAHANI, Komal;SOLIMAN, Nadia~ 33:US ~31:63/402,864 ~32:31/08/2022

2025/01607 ~ Complete ~54:A BIG DATA-BASED MEDICINE USE RISK ASSESSMENT METHOD ~71:The Second Affiliated Hospital of Anhui University of Chinese Medicine, No.300, Shouchun Road, Luyang District, Hefei City, Anhui Province, 230000, People's Republic of China ~72: Xiaodan Yang~

2025/01617 ~ Complete ~54:RECYCLING OF CATALYST COATED MEMBRANE COMPONENTS ~71:Johnson Matthey Public Limited Company, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: GORDON, Ross;HART, Gareth~ 33:GB ~31:2217268.8 ~32:18/11/2022;33:GB ~31:2218972.4 ~32:15/12/2022

2025/01619 ~ Complete ~54:METHODS AND TOOLS RELATING TO CATALYST CARRIERS ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: CLARKSON, Jay Simon;MALLAM, Ben Geoffrey;ROBINSON, Andrew~ 33:GB ~31:2213603.0 ~32:16/09/2022

2025/01629 ~ Complete ~54:SUBSTITUTED PYRIDONE GPR84 ANTAGONISTS AND USES THEREOF ~71:LIMINAL BIOSCIENCES LIMITED, 3rd Floor, 1 Ashley Road, Altrincham, Cheshire WA14 2DT, United Kingdom ~72: ELYSE BOURQUE;JEREMY GREEN;JULIEN MARTEL;MYLÈNE DE LÉSÉLEUC;SHAUN ABBOTT~ 33:US ~31:63/394,372 ~32:02/08/2022

2025/01631 ~ Complete ~54:FROTH FLOTATION CELL ~71:A.N.T Trust, 20 Belgrade Avenue, Spartan Ext 2, South Africa ~72: TERBLANCHE, Andre Nardus (Jnr);TERBLANCHE, Andre Nardus (Snr)~ 33:ZA ~31:2022/08480 ~32:29/07/2022

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

Application Number	Assignor	Assignee
2010/01885	AVENG AFRICA (PTY) LTD	COLOSSAL CONCRETE PRODUCTS (PTY) LTD.
2008/06885	DEEBAR MINING & INDUSTRIAL SUPPLIES CC	RAIL-VEYOR SYSTEMS, INC.
2008/06886	DEEBAR MINING & INDUSTRIAL SUPPLIES CC	RAIL-VEYOR SYSTEMS, INC.
2007/10819	DEEBAR MINING & INDUSTRIAL SUPPLIES CC	RAIL-VEYOR SYSTEMS, INC.
2009/06593	TOTAL RAFFINAGE MARKETING	TOTALENERGIES ONETECH
2016/04910	TOTAL SA	TOTALENERGIES ONETECH
2014/02589	TOTAL SA	TOTALENERGIES ONETECH
2022/02808	AMBRI INC.	AMBRI ACQUISITION, LLC
2007/11161	TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION	KABUSHIKI KAISHA TOSHIBA
2021/06377	XRIS CORPORATION	KONINKLIJKE PHIIPS N.V.
2022/09050	HAYES, KERRY CAMPBELL, ROBERT KENNETH	TRACTIVE MOTION TECHNOLOGIES PTY LTD
2017/06791	MINING AND PROCESS SOLUTIONS PTY LTD	COVORO MINING SOLUTIONS, LLC
2016/01566	MINING AND PROCESS SOLUTIONS PTY LTD	COVORO MINING SOLUTIONS, LLC
2021/07524	GOLDFINCH BIO, INC.	GFB (ABC), LLC
2021/02190	GOLDFINCH BIO, INC.	GFB (ABC), LLC
2022/04269	GOLDFINCH BIO, INC.	GFB (ABC), LLC
2021/08000	GOLDFINCH BIO, INC.	GFB (ABC), LLC

Application Number	Assignor	Assignee
2022/05717	UNIVERSITY OF SOUTHERN CALIFORNIA	CHAUDHARY, PREET M.
2022/05717	CHAUDHARY, PREET M.	ANGELES THERAPEUTICS, INC.
2019/03767	UNIVERSITY OF SOUTHERN CALIFORNIA	CHAUDHARY, PREET M.
2019/03767	CHAUDHARY, PREET M.	ANGELES THERAPEUTICS, INC.
2021/08272	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	THYSSENKRUPP UHDE GMBH
2022/00225	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	THYSSENKRUPP UHDE GMBH
2024/06730	JAMES S. MAYFIELD	MATT'S ARM, LLC
2024/00273	IONIQA TECHNOLOGIES B.V.	IONIQA SOLUTIONS B.V.
2024/00322	IONIQA TECHNOLOGIES B.V.	IONIQA SOLUTIONS B.V.
2024/00919	IONIQA TECHNOLOGIES B.V.	IONIQA SOLUTIONS B.V.
2024/05538	IONIQA TECHNOLOGIES B.V.	IONIQA SOLUTIONS B.V.
2015/02849	QUINCY BIOSCIENCE, LLC	STILLWATERS BIOSCIENCE GROUP, LLC
2014/03577	QUINCY BIOSCIENCE, LLC	STILLWATERS BIOSCIENCE GROUP, LLC
2017/03411	QUINCY BIOSCIENCE, LLC	STILLWATERS BIOSCIENCE GROUP, LLC
2014/01577 2018/08386	F.HOFFMANN-LA ROCHE AG ABBVIE BIOTHERAPEUTICS INC. and ABBVIE INC.	CINCOR PHARMA, INC. ABBVIE MANUFACTURING MANAGEMENT UNLIMITED COMPANY
2020/03447	TOTAL MARKETING SERVICES	TOTALENERGIES ONETECH
2021/01701	TOTAL MARKETING SERVICES	TOTALENERGIES ONETECH
2011/09307	TOTAL MARKETING SERVICES	TOTALENERGIES ONETECH
2019/08495	THERAVANCE BIOPHARMA R&D IP, LLC	ALFASIGMA S.P.A.
2017/05176	TRIGEMINA, INC.	TONIX PHARMACEUTICALS HOLDING CORP.
2017/05176	TONIX PHARMACEUTICALS HOLDING CORP.	TONIX PHARMA LIMITED
2023/03477	SHUMKA, JASON and SHUMKA, THOMAS	METSO OUTOTEC USA INC.
2016/08831	ST GEORGE'S HOSPITAL MEDICAL SCHOOL	CITY, UNIVERSITY OF LONDON
2022/10444	"CHEMIMMUNE THERAPEUTICS" LIMITED LIABILITY COMPANY	NEBOLSIN, VLADIMIR EVGENIEVICH
2021/00191	EXFO INC.	EXFO SOLUTIONS SAS
2021/00985	TOTAL MARKETING SERVICES	TOTALENERGIES ONETECH
2018/06320	JAN HEDNER, LUDGER GROTE and KAJ STENLOFHEDNER	CEREUS PHARMA AB
2013/02467	ELECTRICITE DE FRANCE	SECLAB FR
2013/04695	ELECTRICITE DE FRANCE	SECLAB FR
2019/08341	BIG C ROCK ENGINEERING CC	DU ROCK INVESTMENTS (PTY) LTD
2022/08441	LI, XINZHONG	WUHU SINO-HYDROGEN NEW ENERGY TECHNOLOGY CO., LTD.
2021/09762	INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES	INNER MONGOLIA DAGONG GRASS AND LIVESTOCK CO., LTD.
2021/00376	METRION BIOSCIENCES LTD	TEMMUNE THERAPEUTICS COMM.V.
2023/07663	XI'AN POLYTECHNIC UNIVERSITY ZHEIJANG WEIYING	ZHEIJANG WEIYING INTELLIGENT TECHNOLOGY CO. LTD

Application Number	Assignor	Assignee
	INTELLIGENT TECHNOLOGY CO. LTD	
2024/09750	2021/601747/07	KYLE ADRIAN BARCLAY
2020/00680	NANOSTRING TECHNOLOGIES, INC.,	F. HOFFMANN-LA ROCHE AG and BRUKER SPATIAL BIOLOGY, INC.
2023/09613	ALEXANDER HUWE and REIMUND DANN	GREENBUL ENGINEERING EOOD
2020/02372	HYDRA BIOSCIENCES, LLC	BOEHRINGER INGELHEIM INTERNATIONAL GMBH
2023/11722	VAN SCHALKWYK, LEANNE	PIENAAR, ZAHNE
2021/00063	DESICCARE, INC.	INTEGRA SPECIALITY PRODUCTS, INC.
2021/01563	VAN WEES INNOVATIONS B.V.	FORTEX AIR B.V.
2009/02397	PRESS SPINNING & STAMPING COMPANY (PTY) LTD	PRESS SPINNING (2024) (PTY) LTD

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2019/04574	CLARIANT PLASTICS & COATINGS LTD	AVIENT SWITZERLAND GMBH
2012/06820	CLARIANT PLASTICS & COATINGS (ITALIA) S.P.A.	AVIENT COLORANTS ITALY S.R.L.
2012/06819	CLARIANT PLASTICS & COATINGS (ITALIA) S.P.A.	AVIENT COLORANTS ITALY S.R.L.
2008/05360	MAKHTESHIM CHEMICAL WORKS LTD.	ADAMA MAKHTESHIM LTD.
2011/04691	MAKHTESHIM CHEMICAL WORKS LTD.	ADAMA MAKHTESHIM LTD.
2013/07000	MAKHTESHIM CHEMICAL WORKS LTD.	ADAMA MAKHTESHIM LTD.
2012/07548	METSO OUTOTEC FINLAND OY	METSO FINLAND OY
2022/02808	AMBRI ACQUISITION, LLC	AMBRI, LLC
2020/06190	PFIZER IRELAND PHARMACEUTICALS	PFIZER IRELAND PHARMACEUTICALS UNLIMITED COMPANY
2022/04929	PFIZER IRELAND PHARMACEUTICALS	PFIZER IRELAND PHARMACEUTICALS UNLIMITED COMPANY
2023/03477	METSO OUTOTEC USA INC.	METSO USA INC.
2023/00675	EUSA PHARMA (UK) LIMITED	RECORDATI UK LTD
2020/08045	LIFEEDIT THERAPEUTICS, INC.	LIFE EDIT THERAPEUTICS, INC.
2021/05281	LIFEEDIT THERAPEUTICS, INC.	LIFE EDIT THERAPEUTICS, INC.
2022/02676	LIFEEDIT THERAPEUTICS, INC.	LIFE EDIT THERAPEUTICS, INC.
2022/12023	LIFEEDIT THERAPEUTICS, INC.	LIFE EDIT THERAPEUTICS, INC.
2023/04237	LIFEEDIT THERAPEUTICS, INC.	LIFE EDIT THERAPEUTICS, INC.
2024/06465	LIFEEDIT THERAPEUTICS, INC.	LIFE EDIT THERAPEUTICS, INC.
2024/00903	LIFEEDIT THERAPEUTICS, INC.	LIFE EDIT THERAPEUTICS, INC.
2024/07521	LIFEEDIT THERAPEUTICS, INC.	LIFE EDIT THERAPEUTICS, INC.

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

Application Number	Licensor	Licensee
2022/05942	KUMIAI CHEMICAL INDUSTRY CO., LTD.	PHILAGRO SOUTH AFRICA (PTY) LTD
2022/05942	KUMIAI CHEMICAL INDUSTRY CO., LTD.	BAYER (PTY) LTD trading as BAYER CROPSCIENCE

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date
2023/01281	WITHDRAWN	05/11/2024
2025/01310	WITHDRAWN	19/02/2025
2018/07139	WITHDRAWN	07/12/2022

APPLICATION FOR RESTORATION OF A LAPSED PATENT

No records available

THE PATENTS ACT, No. 57 OF 1978

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

No records available

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: MULTIKNIT (PROPRIETARY) LIMITED 5 Theo Kleynhans Street, White River, 1240. Request permission to amend the specification of letters patent no: **2016/02282** of **05/04/2016** for **COVERING AND A STRUCTURE INCLUDING SUCH COVERING.**

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: NOKIA TECHNOLOGIES OY KARAPORTTI 3, 02610 ESPOO, FINLAND. Request permission to amend the specification of letters patent no: **2017/01965** of **22/03/2017** for **AUDIO PARAMETER QUANTIZATION.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: STELLENBOSCH UNIVERSITY Admin B, Victoria Street 7600. Request permission to amend the specification of letters patent no: **2020/06078** of **30/09/2020** for **METHOD FOR CONTROLLING PEST INFESTATIONS.**

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: COCHRANE STEEL PRODUCTS (PTY) LTD 125 Fitter Road, Spartan 1619 Kempton Park. Request permission to amend the specification of letters patent no: **2011/03187** of **21/04/2011** for **HIGH SECURITY FENCE.**

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: NORDMECCANICA S.P.A. Strada dell'Orsina, 16, 29122 Piacenza. Request permission to amend the specification of letters patent no: **2021/10051** of **06/12/2021** for **PRINTING DEVICE FOR A COUPLING MACHINE.**

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: HYDROMECANIQUE ET FROTTEMENT 69 Avenue Benoît Fourneyron 42160 Andrezieux-Boutheon. Request permission to amend the specification of letters patent no: **2022/05809** of **25/05/2022** for **METHOD FOR TREATING A PART MADE OF FERROUS METAL, AND PART MADE OF FERROUS METAL.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: STELLENBOSCH UNIVERSITY Admin B, Victoria Street 7600 Stellenbosch; UNIVERSITY OF CAPE TOWN Lovers Walk, Rondebosch 7700 Cape Town; MAX-PLANCK-GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V Hofgartenstrasse 8 D-80539 Munich; UNITED KINGDOM RESEARCH AND INNOVATION Polaris House, North Star Avenue SN2 1FL Swindon; SEATTLE CHILDREN'S HOSPITAL DOING BUSINESS AS SEATTLE CHILDREN'S RESEARCH INSTITUTE 4800 Sand Point Way NE, Seattle 98105 Washington. Request permission to amend the specification of letters patent no: **2020/06314** of **12/10/2020** for **METHOD FOR PREDICTING PROGRESSION TO ACTIVE TUBERCULOSIS DISEASE.**

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: LILAC THERAPEUTICS, INC. 2121 North California Blvd, Suite 290, Walnut Creek, California, 94596. Request permission to amend the specification of letters patent no: **2022/04386** of **19/04/2022** for **HETEROCYCLIC CARBOXYLATE COMPOUNDS AS GLYCOLATE OXIDASE INHIBITORS.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

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)

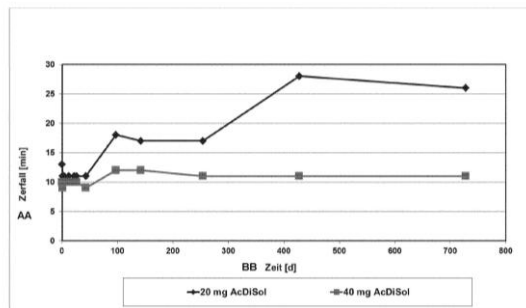
In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(43)** 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: 2015/05170. 22: 2015/07/17. 43: 2024/12/11
51: A61K; A61P
71: Elanco Animal Health GmbH
72: KANIKANTI, Venkata - Rangarao, HAMANN,
Hans-Jürgen, SCHULTE, Georg, BILLIAN, Patrick
33: EP(DE) 31: 12198101.3 32: 2012-12-19
**54: TABLETS WITH IMPROVED ACCEPTANCE
AND GOOD STORAGE STABILITY**
00: -

The present invention relates to tablets for animals with improved acceptance and good storage stability.



AA Degradation [min]
BB Time [d]

21: 2015/06009. 22: 2015/08/19. 43: 2025/02/12
51: A01N
71: MONSANTO TECHNOLOGY LLC
72: HEMMINGHAUS JOHN, MACINNES ALISON
33: US 31: 61/769 943 32: 2013-02-27
**54: GLYPHOSATE COMPOSITION FOR DICAMBA
TANK MIXTURES WITH IMPROVED VOLATILIRY**
00: -
Herbicidal concentrate compositions containing
glyphosate salts and tank mix compositions
containing a combination of glyphosate salt and

dicamba salt herbicides are described. A method of preparing a tank mix composition comprising a glyphosate component and a dicamba component is also described. The method includes combining a glyphosate concentrate composition, a dicamba composition comprising one or more salts of dicamba and dilution water to form the tank mix composition. The glyphosate concentrate composition comprises a glyphosate salt selected from the group consisting of the monoethanolamine salt, the potassium salt, and mixtures thereof at a glyphosate loading of at least about 240 grams acid equivalent per liter (g a.e./l), and the pH of a 5 wt.% acid equivalent dilution of the glyphosate concentrate composition is from about 5 to about 6.5.

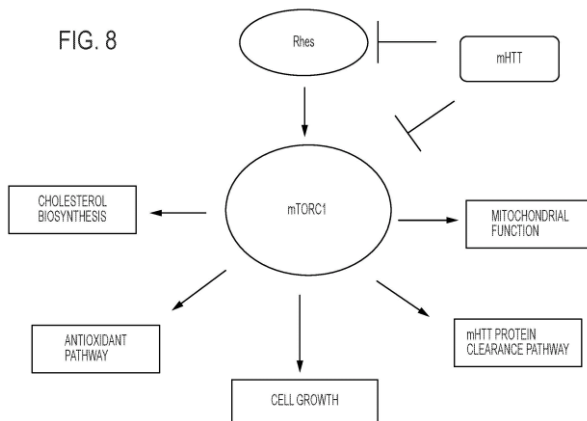
21: 2016/04933. 22: 2016/07/15. 43: 2024/12/11
 51: A01N; A01P
 71: BASF SE
 72: ALVES CORRÊA, Luis Eduardo, IDALGO DONADONI, Paulo César, DE OLIVIERA, Thiago, NEGRISIOLO DELLA VALLE, Juliano, CARVALHO CÉSAR DE SAN JUAN, Rodolfo
 33: EP(DE) 31: 13197931.2 32: 2013-12-18
54: USE OF PHOSPHORUS CONTAINING HERBICIDES AS DESICCANT FOR PLANTS OF THE GENUS SACCHARUM
 00: -

The invention primarily relates to the use of phosphorus containing herbicidal active ingredients (herbicides) as desiccant for (parts of) plants of the genus *Saccharum*, and to corresponding methods for desiccation, i.e. for the desiccating treatment. In another aspect the present invention relates to a method for increasing the amount of saccharose (sucrose) obtainable from (aerial parts of) plants of the genus *Saccharum officinarum*, and to a method for producing saccharose from (aerial parts of) plants of the genus *Saccharum officinarum*.

21: 2017/04327. 22: 2017/06/26. 43: 2024/12/11
 51: A61K
 71: University of Iowa Research Foundation
 72: DAVIDSON, Beverly L., LEE, John H.
 33: US 31: 62/098,085 32: 2014-12-30
54: METHODS AND COMPOSITIONS FOR TREATING BRAIN DISEASES
 00: -

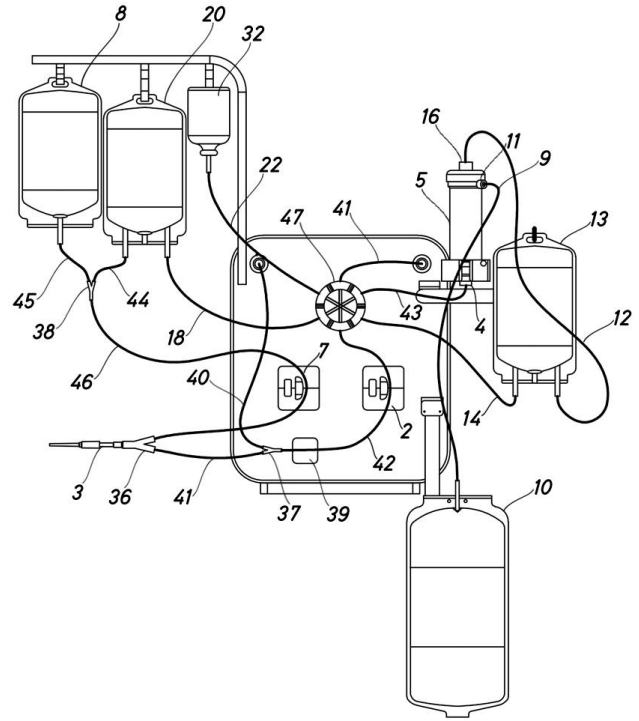
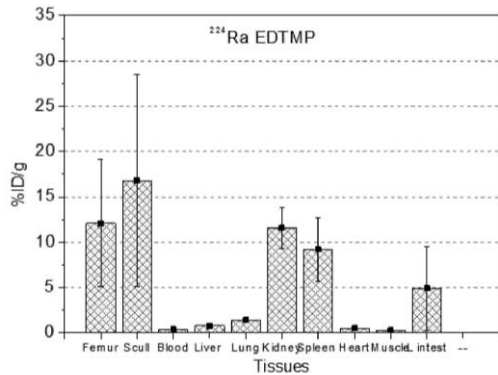
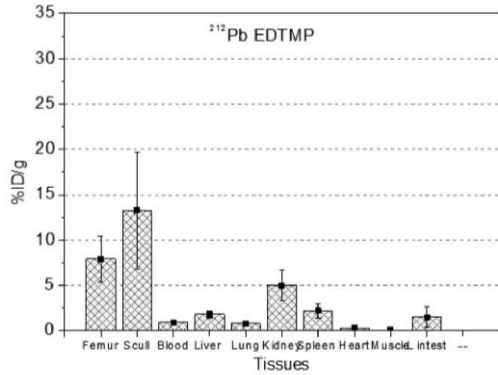
The present disclosure provides methods for treating or preventing Huntington's disease (HD) in a subject in need thereof, comprising administering a therapeutic agent that activates mTORC 1 function and/or increases Ras Homolog Enriched in Striatum (Rhes) level in the subject's brain as compared to the function or level in the subject prior to treatment, and methods for modulating mHTT-associated metabolic phenotypes and/or reversal of striatal atrophy by administering a therapeutic agent that

activates mTORC1 function and/or increases Ras Homolog Enriched in Striatum (Rhes) level in the subject's brain as compared to the function or level in the subject prior to treatment.



21: 2017/05301. 22: 2017/08/04. 43: 2024/12/10
 51: A61K
 71: Sciencons AS
 72: LARSEN, Roy Hartvig
 33: US 31: 14/632,849 32: 2015-02-26
 33: EP(NO) 31: 15156714.6 32: 2015-02-26
54: RADIOPHARMACEUTICAL SOLUTIONS WITH ADVANTAGEOUS PROPERTIES
 00: -

The present invention relates to radiopharmaceutical compositions comprising the mother nuclide ²²⁴Ra, its daughter nuclide ²¹²Pb, and a complexing agent that complexes with the daughter nuclide. The use of targeted chelate scavengers for ²²⁴Ra daughter nuclide opens up the possibility for using ²²⁴Ra based solutions for medical treatments.



21: 2018/01620. 22: 2018/03/09. 43: 2025/01/14
 51: A61M
 71: GRIFOLS WORLDWIDE OPERATIONS LIMITED
 72: ROURA FERNANDEZ, Carlos, ROURA SALIETTI, Carlos, PAEZ REGADERA, Antonio Manuel
 33: ES 31: 201700336 32: 2017-03-30
54: DEVICE FOR THERAPEUTIC PLASMA EXCHANGE

00: -
 Device for therapeutic plasma exchange that comprises an extracorporeal circuit that comprises a blood supply line, a separating unit, a line for infusion of formed elements, a line for infusion of replacement fluid, a blood plasma line, an anticoagulant line and at least one independent line for therapeutic drugs.

21: 2018/03518. 22: 2018/05/28. 43: 2024/12/05
 51: A61K; A61P; A61Q
 71: Johnson & Johnson Consumer Inc.
 72: WU, Jeffrey M.

33: US 31: 62/271,405 32: 2015-12-28
54: HAIR GROWTH COMPOSITION AND METHOD
 00: -
 The present invention relates to clear compositions for and methods of retarding hair loss or facilitating hair growth comprising a hair growth active, a C8-C24 alcohol ester of a carboxylic acid and a pharmaceutically acceptable topical carrier comprising monohydric and, optionally, dihydric alcohols and water.

21: 2018/04697. 22: 2018/07/13. 43: 2024/12/11
 51: A23L; A61K
 71: Société des Produits Nestlé S.A.

72: SCHNEIDER, Nora, HAUSER, Jonas, DEONI, Sean, BARTFAI, Tamas
 33: EP(CH) 31: 15199757.4 32: 2015-12-14
 33: EP(CH) 31: 15199758.2 32: 2015-12-14
 33: EP(CH) 31: 15199769.9 32: 2015-12-14
 33: EP(CH) 31: 15199752.5 32: 2015-12-14
 33: EP(CH) 31: 15199764.0 32: 2015-12-14

54: NUTRITIONAL COMPOSITION AND INFANT FORMULA FOR PROMOTING MYELINATION OF THE BRAIN
 00: -

A synthetic nutritional composition comprising a fatty acid derivative for use to promote, support or optimise de novo myelination, in particular the de novo myelination trajectory, and/or brain structure, and/or brain connectivity, and/or intellectual potential and/or cognitive potential and/or learning potential and/or cognitive functioning in a subject, in particular a formula fed subject.

21: 2018/04698. 22: 2018/07/13. 43: 2024/12/10
 51: A23L; A61K; A61P
 71: Société des Produits Nestlé S.A.
 72: SCHNEIDER, Nora, HAUSER, Jonas, DEONI, Sean, BARTFAL, Tamas
 33: EP(CH) 31: 15199758.2 32: 2015-12-14
 33: EP(CH) 31: 15199764.0 32: 2015-12-14
 33: EP(CH) 31: 15199769.9 32: 2015-12-14
 33: EP(CH) 31: 15199752.5 32: 2015-12-14
 33: EP(CH) 31: 15199757.4 32: 2015-12-14

54: NUTRITIONAL COMPOSITIONS AND INFANT FORMULA FOR PROMOTING DE NOVO MYEALINATION

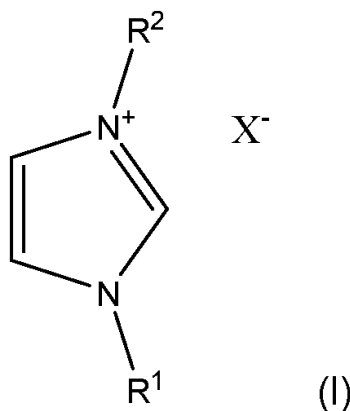
00: -
 A synthetic nutritional composition comprising a mineral for use to promote, support or optimise de novo myelination, in particular the de novo myelination trajectory, and/or brain structure, and/or brain connectivity, and/or intellectual potential and/or cognitive potential and/or learning potential and/or cognitive functioning in a subject, in particular a formula fed subject.

21: 2018/05661. 22: 2018/08/24. 43: 2024/12/09
 51: B29C; C08F; G02F; H01G; H01M
 71: SUPERDIELECTRICS LTD
 72: HIGHGATE, Donald James, HAMMERTON, Ian, HOWLIN, Brendan
 33: GB 31: 1604249.1 32: 2016-03-11

54: IMPROVED HYDROPHILIC COMPOSITIONS

00: -
 A process of forming a cross-linked electronically active hydrophilic co- polymer comprising the steps of: a. mixing an intrinsically electronically active material and at least one compound of formula (I) with water to form an intermediate mixture; b. adding at least one hydrophilic monomer, at least one hydrophobic monomer, and at least one cross-linker to the intermediate mixture to form a co- monomer mixture; c. polymerising the co-monomer mixture; wherein formula (I) is defined as: wherein: R1 and

R2 are independently optionally substituted C1-C6 alkyl; X- is an anion.



21: 2018/05662. 22: 2018/08/24. 43: 2024/12/09
 51: C08F; C09J; B33Y
 71: SUPERDIELECTRICS LTD
 72: HIGHGATE, Donald James
 33: GB 31: 1604248.3 32: 2016-03-11

54: ELECTRICALLY CONDUCTING HYDROPHILIC CO-POLYMERS

00: -
 A process of forming a cross-linked electronically active hydrophilic co- polymer comprising the steps of: a. mixing an intrinsically electronically active material with water to form an intermediate mixture; b. adding at least one hydrophilic monomer, at least one hydrophobic monomer, and at least one cross-linker to the intermediate mixture to form a co- monomer mixture; c. polymerising the co-monomer mixture.

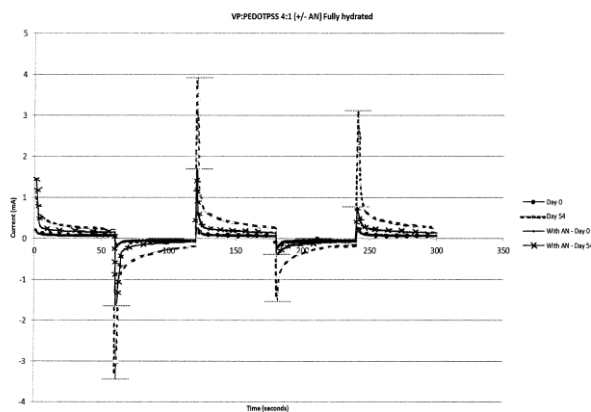


Figure 1 VP-PEDOTPSS 4:1 (with and without AN) after a maximum level of hydration was achieved

21: 2019/01962. 22: 2019/03/27. 43: 2024/12/10

51: C12Q

71: THE SECRETARY OF STATE FOR HEALTH, UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED

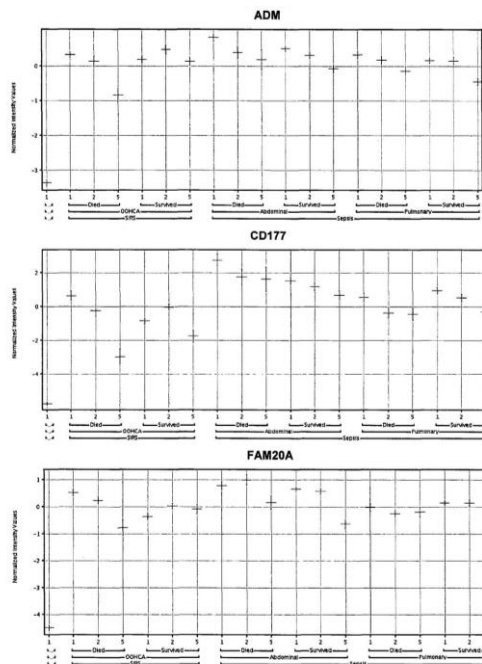
72: HALL, Judith, SZA-KMANY, Tamas, SHAH, Sanjoy, KEMPSELL, Karen, BALL, Graham

33: GB 31: 1616557.3 32: 2016-09-29

54: ASSAY FOR DISTINGUISHING BETWEEN SEPSIS AND SYSTEMIC INFLAMMATORY RESPONSE SYNDROME

00: -

There is provided a method for distinguishing between sepsis and systemic inflammatory response syndrome (SIRS) in a patient, comprising: (i) determining the amount of one or more biomarker for sepsis, and one or more biomarker for SIRS in a sample obtained from a patient, wherein the one or more biomarker for sepsis is selected from the group consisting of: ITGB3, ITGA2B, MYL9, LCN2, TREML1, LCN15, CMTM5, PPBP, and PF4; and the one or more biomarker for SIRS is selected from the group consisting of: PLA2G7, ARHGEF10L, MYCL, TGFBI, and GPR124, (ii) comparing the amount of the one or more biomarker for sepsis determined in said sample in (i) to a corresponding reference value representative of a healthy individual, (iii) comparing the amount of the one or more biomarker for SIRS determined in said sample in (i) to a corresponding reference value representative of a healthy individual; wherein the patient is diagnosed as having sepsis, when an increase is observed in the one or more biomarker for sepsis, and no increase is observed in the one or more biomarker for SIRS, in the sample obtained from the patient relative to the corresponding reference value; and wherein the patient is diagnosed as having SIRS, when an increase is observed in the one or more biomarker for SIRS, and no increase is observed in the one or more biomarker for sepsis, in the sample obtained from the patient relative to the corresponding reference value.



21: 2020/02626. 22: 2020/05/11. 43: 2024/12/10
51: A61K; A61P; C07D

71: Biohaven Pharmaceutical Holding Company Ltd.

72: CORIC, Vladimir, BERMAN, Robert, BEINER, Melissa, L'ITALIEN, Gilbert

33: US 31: 62/584,856 32: 2017-11-12

54: USE OF RILUZOLE PRODRUGS TO TREAT ATAXIAS

00: -

Disclosed are methods of treating ataxia by administering to a patient in need thereof a riluzole prodrug such as troiriluzole. Pharmaceutical compositions and kits including the riluzole prodrugs are also disclosed.

21: 2020/04245. 22: 2020/07/10. 43: 2024/12/10
51: A23L; A61K

71: Société des Produits Nestlé S.A.

72: GARCIA-RODENAS, Clara Lucia, RAMOS NIEVES, José Manuel, STEINMANN, Myriam Sandrine

33: EP(CH) 31: 17209479.9 32: 2017-12-21

54: COMPOSITIONS FOR USE IN THE PROMOTION OF INTESTINAL MUSCLE GROWTH AND DEVELOPMENT AND ASSOCIATED INTESTINAL MOTILITY

00: -

This invention relates to nutritional compositions comprising at least one N- acetylated oligosaccharide for use in the promotion of the development and/or of the growth of the intestinal

muscles, in the promotion of contractile capacity and/or the motility in the intestine, in the promotion of enteral feeding tolerance and in prevention and/or treatment of small intestinal bacterial overgrowth (SIBO) in an infant, a young child or, when the composition is a growing-up milk, in a child.

21: 2020/05227. 22: 2020/08/21. 43: 2024/12/05

51: C02F; B01D

71: AVSALT AB

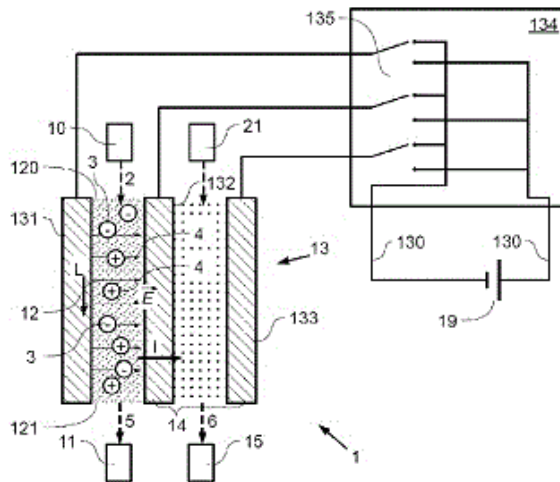
72: BOON, NICOLAAS JACOBUS HENRICUS

33: NL 31: 2020640 32: 2018-03-21

54: DEIONIZATION DEVICE AND METHOD FOR AT LEAST PARTIALLY DEIONIZING A FEED LIQUID IN WHICH AN ELECTROLYTE IS DISSOLVED, AND APPARATUSES USING SUCH DEVICES

00: -

The invention regards a deionization device for at least partially deionizing a feed liquid in which at least one electrolyte is dissolved, the device comprising: at least one process channel (12) having a feed inlet configured for receiving the feed liquid, and a feed outlet configured for discharging the deionized feed liquid, such that the process channel comprises a feed liquid flow (L), one or more collector channel(s) (14,140,141,142) configured for collecting the anions and cations separated from the feed liquid, an electrolyte outlet (15) configured for discharging the collected anions and cations, at least one channel electrode (131), at least one separating electrode (132), and at least one collector electrode (133), wherein the channel electrode and the separating electrode are placed at opposite sides of the process channel, and wherein the separating electrode and the collector electrode are placed at opposite sides of the collector channel(s), a field generator (13) for generating an electric and/or magnetic field between the channel electrode and separating electrode, and between the separating electrode and the collector electrode, wherein the field is variable and a ion flow is generated from the process channel to the collector channel(s) and the ion flow direction is the same for anions and cations.



21: 2020/05284. 22: 2020/08/25. 43: 2025/01/13

51: D01F

71: LENZING AKTIENGESELLSCHAFT

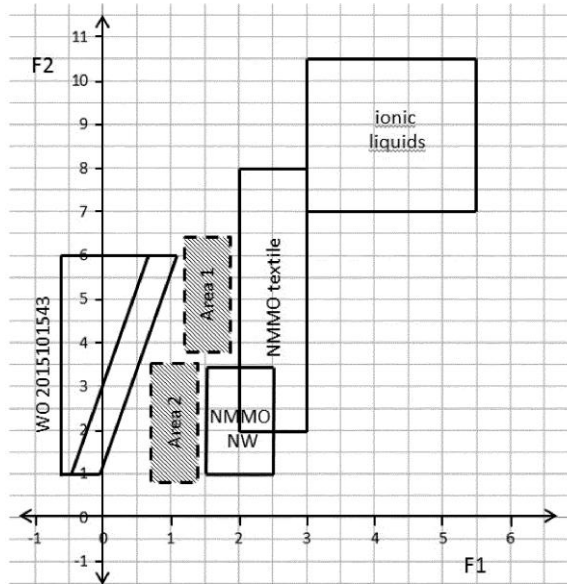
72: SILBERMANN, Verena, OPIETNIK, Martina

33: EP 31: 18160308.5 32: 2018-03-06

54: SOLVENT-SPUN CELLULOSIC FIBRE

00: -

The present invention relates to a cellulosic fibre of the lyocell genus. The fibre according to the invention has the following properties: a) the fibre has a content of hemicellulose of 5 wt.% or more b) the fibre is characterized by the Hoeller factors FI and F2 as follows: Hoeller factor $FI \geq 0.7+x$ and $\leq 1.3+x$ Hoeller factor $F2 \geq 0.75+(x*6)$ and $\leq 3.5+(x*6)$ wherein x is 0.5 if the fibre does not contain a matting agent and x is 0 if the fibre does contain a matting agent, and if x is 0.5, the fibre is essentially free from any incorporation agent.



21: 2020/05286. 22: 2020/08/25. 43: 2024/12/09

51: A61K; A61P; C07D

71: Idorsia Pharmaceuticals Ltd

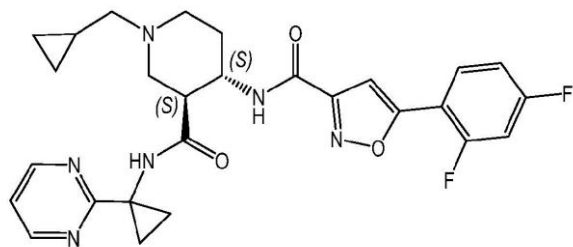
72: GUERRY, Philippe, VON RAUMER, Markus

33: PCT/EP(CH) 31: 2018/051938 32: 2018-01-26

54: CRYSTALLINE FORMS OF THE CXCR7 RECEPTOR ANTAGONIST (3S,4S)-1-CYCLOPROPYLMETHYL-4-[[5-(2,4-DIFLUOROPHENYL)-ISOXAZOLE-3-CARBONYL]-AMINO]-PIPERIDINE-3-CARBOXYLIC ACID (1-PYRIMIDIN-2-YL-CYCLOPROPYL)-AMIDE

00: -

The application relates to crystalline forms of (3S,4S)-1-Cyclopropylmethyl-4-[[5-(2,4-difluorophenyl)-isoxazole-3-carbonyl]- amino}-piperidine-3-carboxylic acid (1-pyrimidin-2-yl-cyclopropyl)- amide; processes for the preparation thereof, and pharmaceutical compositions containing such crystalline forms. The compound acts as CXCR7 receptor modulator and is thus useful for the treatment of cancer.



21: 2020/05360. 22: 2020/08/27. 43: 2024/12/09

51: B60K; B60L; H01M

71: Sandvik Mining and Construction Oy

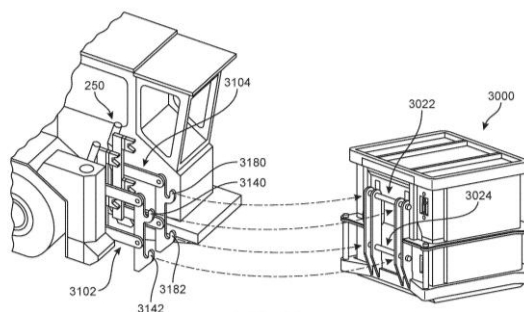
72: HUFF, Brian R., HICKEY, Kyle

33: US 31: 15/908,799 32: 2018-02-28

54: MOUNTING AND DISMOUNTING SYSTEM FOR A BATTERY ASSEMBLY

00: -

A mounting and dismounting system for a battery assembly is disclosed. The system may be located onboard of an electric vehicle powered by a battery pack disposed in the battery assembly. The system includes a pair of four-bar linkages that can be used to raise and lower the battery assembly. Each four-bar linkage includes a pair of hooks with different vertical positions. The hooks are positioned to grasp horizontal mounting bars that are disposed on the battery assembly. Using vertically displaced hooks ensures the battery can be raised and lowered without rocking.



21: 2020/06006. 22: 2020/09/29. 43: 2025/01/14

51: A61K; C07F; A61P

71: ARCUS BIOSCIENCES, INC.

72: FOLEY, Corinne Nicole, GRANGE, Rebecca

Louise, GUNNEY, Tezcan, KALISIAK, Jaroslaw,

NEWCOMB, Eric Thomas, TRAN, Anh Thu

33: US 31: 62/638,412 32: 2018-03-05

54: ARGINASE INHIBITORS

00: -

Compounds that are inhibitors of at least one of the ARG1 and ARG2, and compositions containing the compounds and methods for synthesizing the compounds, are described herein. The use of such compounds and compositions for the treatment of a diverse array of diseases, disorders, and conditions, including cancer- and immune-related disorders that are mediated, at least in part, by ARG1 and ARG2 are also described herein.

21: 2020/06892. 22: 2020/11/04. 43: 2024/12/09

51: H04W H04L

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

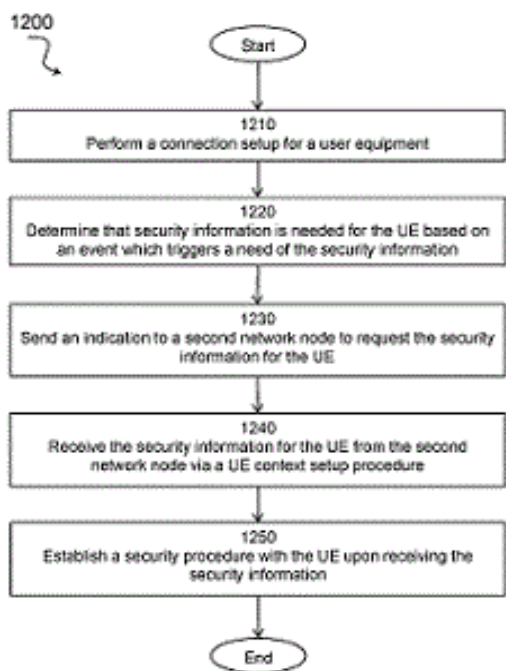
72: CENTONZA, Angelo, SCHLIWA-BERTLING, Paul

33: US 31: 62/670,430 32: 2018-05-11

54: METHOD, APPARATUS, AND SYSTEM FOR SECURING RADIO CONNECTIONS

00: -

A method for securing radio connections comprises performing a connection setup with a user equipment (UE); determine that security information is needed for the UE based on an event which triggers a need of the security information; send an indication to a second network node to request the security information for the UE; and receiving the security information from the network node via a UE context setup procedure. The method may avoid a waste of resource in network by determining whether the UE is required to set up a security procedure by either a network node of a radio access network or a management and function node of a core network



21: 2020/07599. 22: 2020/12/07. 43: 2024/12/09

51: C07K; A61P

71: REGENERON PHARMACEUTICALS, INC.

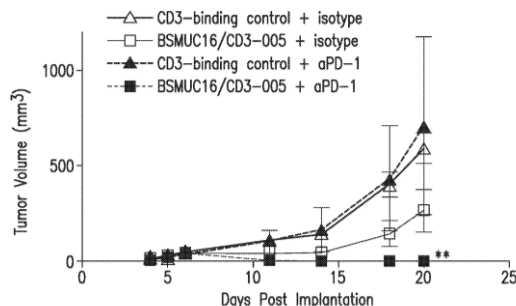
72: CRAWFORD, Alison

33: US 31: 62/688,251 32: 2018-06-21

54: METHODS FOR TREATING CANCER WITH BISPECIFIC ANTI-CD3XMUC16 ANTIBODIES AND ANTI-PD-1 ANTIBODIES

00: -

The methods of the present invention comprise administering to a subject in need thereof a therapeutically effective amount of an antibody or antigen-binding fragment thereof that specifically binds to programmed death 1 (PD-1) receptor in combination with a therapeutically effective amount of a bispecific antibody that specifically binds Mucin 16 (MUC16) and CD3.



21: 2021/05394. 22: 2021/07/29. 43: 2024/12/09

51: A61P; C07K

71: Bristol-Myers Squibb Company

72: YAMNIUK, Aaron Paul, BRODEUR, Scott Ronald, DEYANOVA, Ekaterina, HUANG, Richard Yu-Cheng, WANG, Yun, LANGISH, Alfred Robert, CHEN, Guodong, CARL, Stephen Michael, SHEN, Hong, PASHINE, Achal Mukundrao, SU, Lin Hui

33: US 31: 62/795,378 32: 2019-01-22

54: ANTIBODIES AGAINST IL-7R ALPHA SUBUNIT AND USES THEREOF

00: -

Provided herein are antibodies that bind to the alpha subunit of an IL-7 receptor (IL-7Ra). Also provided are uses of these antibodies in therapeutic applications, such as treatment of inflammatory diseases. Further provided are cells that produce the antibodies, polynucleotides encoding the heavy and/or light chain regions of the antibodies, and vectors comprising the polynucleotides.

21: 2021/05850. 22: 2021/08/13. 43: 2025/01/29

51: G01N

71: SANOFI

72: GUIBAL, Pierre

33: EP 31: 19305232.1 32: 2019-02-27

54: PROCESS FOR POLYSORBATE QUANTIFICATION IN A SAMPLE INVOLVING LC-MS WITH AN INTERNAL STANDARD

00: -

The present application concerns a process for quantifying polysorbates in a sample by implementing a LC-MS analysis with an internal standard, and the process for monitoring degradation of polysorbates in such sample.

21: 2021/05977. 22: 2021/08/19. 43: 2024/12/05
51: H02J

71: GE Grid Solutions LLC

72: HART, Patrick, WANG, Honggang

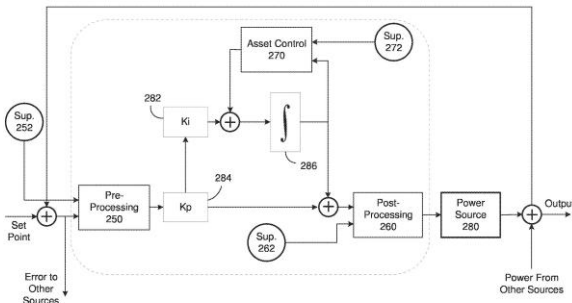
54: HYBRID RENEWABLE POWER GENERATION CONTROL

00: -

The example embodiments are directed to a system and method for dynamically controlling classes of assets in a hybrid generation power plant. In one example, the system may include a plurality of classes of power assets with at least one class comprising a non-renewable power source and at least one class comprising a renewable power source, and a power controller configured to manage a class of power assets from among the plurality of classes, the power controller including a pre-processing module configured to dynamically shape an error being fed into a respective power source of the class of power assets, and an asset control module configured to dynamically adjust a power setpoint of the respective power source of the class of power assets.

200B

FIG. 2B



21: 2021/06105. 22: 2021/08/24. 43: 2024/12/05
51: H01H; H02H

71: Eaton Intelligent Power Limited, Direct Current B.V.

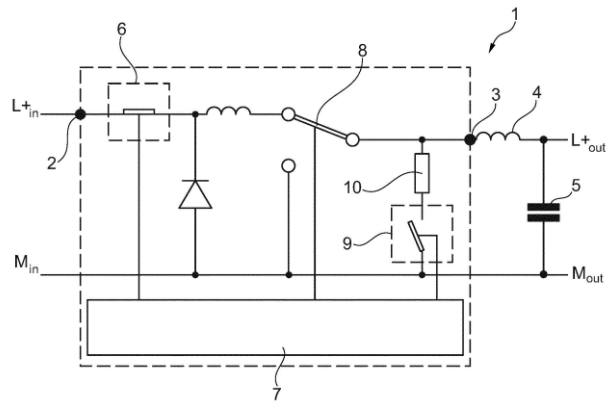
72: NIEHOFF, Ronald, STOKEMAN, Harry

33: GB 31: 1903018.8 32: 2019-03-06

54: CIRCUIT BREAKER

00: -

The invention relates to a hybrid circuit breaker for interrupting a current in an electrical circuit line, the hybrid circuit breaker comprising: - an input terminal for connection to a power line and an output terminal for connection to a DC system; - a first solid state switching device connected to the input terminal; - a mechanical isolator relay arranged in series with the first solid state switching device and connected to the output terminal; - a crowbar circuit electrically connected between the output terminal and ground; and - a controller for controlling the first solid state switching device, the mechanical isolator relay and the crowbar circuit.



21: 2021/06680. 22: 2021/09/09. 43: 2025/01/21
51: B29C; B29L

71: SAINT-GOBAIN ISOVER

72: WESELY, Nikolaus, LIGTENBERG, Harald, HÖLLER, Hans-Joachim, LECOMTE, Romain

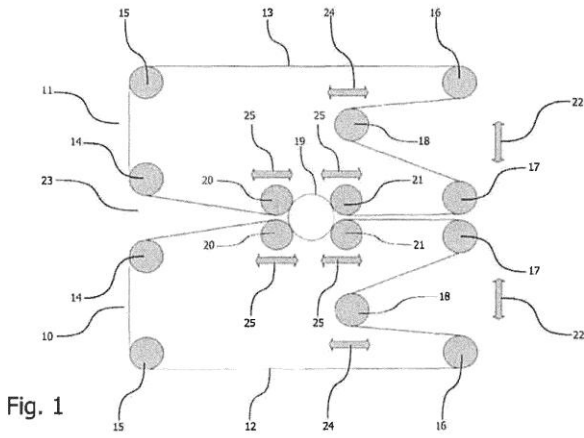
33: DE 31: 10 2019 103 498.1 32: 2019-02-12

54: METHOD AND DEVICE FOR MANUFACTURING A PIPE SHELL FROM AN INSULATING MATERIAL

00: -

The invention relates to a method and a device for manufacturing a pipe shell from an insulating material by means of which the cycle times can be further reduced while the quality of the pipe shell is simultaneously improved, by at least one web of the insulating material which is provided with a binding agent being wound around a core (19) by means of at least two opposing belts (12, 13) which wrap around the core (19) partially. The method steps are characterized in that the at least one wound-up web of insulating material is removed in a radial direction of the core (19) which is, however, not opposite to the direction in which the at least one web of insulating material was fed by the one belt (12),

especially by the wound-up web being discharged by the same belt (12).

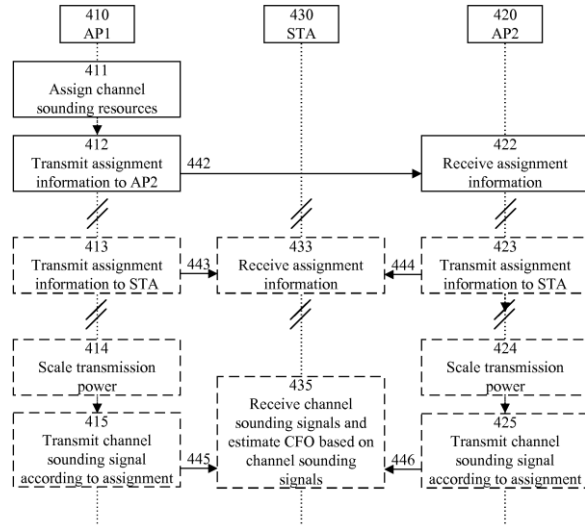


21: 2021/07564. 22: 2021/10/07. 43: 2025/01/31
 51: H04B; H04L
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: LOPEZ, Miguel, WILHELMSSON, Leif, SUNDMAN, Dennis
54: CHANNEL SOUNDING FOR DISTRIBUTED TRANSMISSION

00: -
 A method for a primary wireless transmitter is disclosed. The primary wireless transmitter is configured to participate in transmission to a wireless receiver using spatial multiplexing in coordination with one or more secondary wireless transmitters. The method comprises assigning - from a collection of available channel sounding resources - respective channel sounding resources to the primary wireless transmitter and to the one or more secondary wireless transmitters, wherein each available channel sounding resource is assigned to at most one of the wireless transmitters. Each assigned respective channel sounding resource is for transmission of a respective non- spatial-multiplexed first channel sounding signal, and the first channel sounding signals are for phase tracking of signals transmitted by the primary wireless transmitter and/or for phase tracking of signals transmitted by the one or more secondary wireless transmitters. The method also comprises transmitting, to the one or more secondary wireless transmitters, information indicative of the respective channel sounding resources assigned to the one or

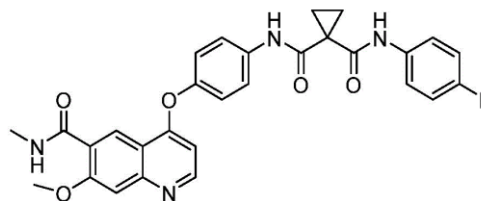
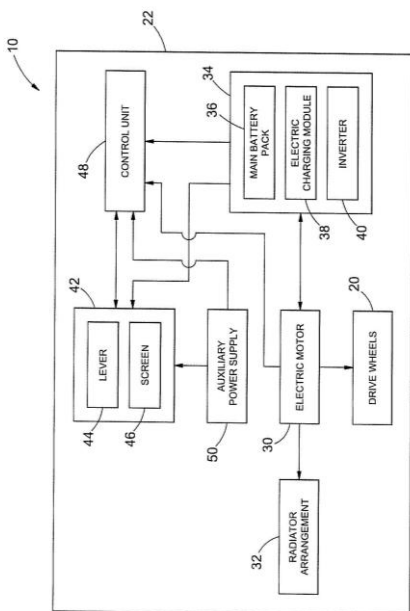
more secondary wireless transmitters. Methods for the secondary wireless transmitters and the wireless receiver are also disclosed, as well as corresponding apparatuses, transmitter, receiver, access point, user station, control node, and computer program product.



21: 2021/07623. 22: 2021/10/11. 43: 2025/02/11
 51: B61C
 71: BATTERY ELECTRIC (PTY) LIMITED
 72: MARAIS, Marnus
 33: ZA 31: 2020/05095 32: 2020-08-18

54: ADAPTATION OF AN INTERNAL COMBUSTION LOCOMOTIVE

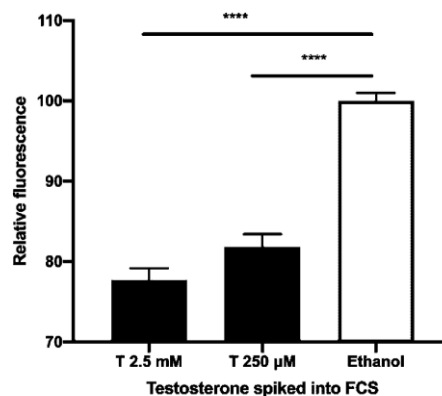
00: -
 This invention relates to the adaptation of an internal combustion locomotive in order to improve its immediate environment. More specifically, this invention relates to a method of adapting an internal combustion locomotive, including the steps of removing from the locomotive an internal combustion engine and installing on the locomotive at least one electric motor for providing mechanical power to drive wheels of the locomotive.



Compound 1

21: 2021/08085. 22: 2021/10/21. 43: 2025/02/04
 51: C12Q; G01N
 71: INSITUGEN LIMITED
 72: HEATHER, Alison Kay, SOWERBY, Stephen John
 33: NZ 31: 753245 32: 2019-05-07
54: NOVEL LIGAND ASSAYS
 00: -

The present invention is concerned with the detection of ligands which bind to and activate steroid hormone receptors. Specifically, the present invention provides test kits and assay methods for the selective identification of steroid hormone receptor ligands from a test sample. Importantly, the test kits and assay methods described herein are cell-free, and do not require expensive-to-manufacture nuclear extracts for their performance. Instead, the test kits and assay methods described herein employ single polypeptide polymerases, such as T7 RNA polymerase, linked to a reporter construct. Activity of the enzyme is inhibited, rather than activated, by ligand-bound steroid hormone receptor complexes which only form in the presence of a target ligand. Accordingly, a measured change in a physical property of the reporter construct (e.g. fluorescence output) may be used to determine the presence of a target ligand in a sample under investigation.



21: 2021/07917. 22: 2021/10/18. 43: 2024/12/11
 51: A61K A61P
 71: ORYZON GENOMICS, S.A.
 72: BUESA ARJOL, Carlos, Manuel, BULLOCK, Roger, Alan, RAMOS QUIROGA, José, Antonio
 33: EP 31: 19382196.4 32: 2019-03-20
54: METHODS OF TREATING BORDERLINE PERSONALITY DISORDER

00: -
 Provided herein are methods for treating borderline personality disorder using KDM1A inhibitors, particularly vafidemstat.

21: 2021/08034. 22: 2021/10/20. 43: 2025/02/04
 51: A61K; C07D; A61P
 71: EXELIXIS, INC.
 72: SHAH, Khalid, DEMORIN, Frenel, SHAKYA, Sagar, WONG, Peter, BEVILL, Melanie, Janelle, JOHNSON, Courtney, S., PARENT, Stephan, D.
 33: US 31: 62/856,404 32: 2019-06-03
54: CRYSTALLINE SALT FORMS OF A KINASE INHIBITOR

00: -
 The present invention relates to crystalline forms of salts of Compound 1. The invention also relates to pharmaceutical compositions comprising the solid crystalline salts of Compound 1. The invention further relates to methods of treating a disease, disorder, or syndrome mediated at least in part by modulating in vivo activity of a protein kinase.

21: 2021/08307. 22: 2021/10/27. 43: 2024/12/11
51: A01N A61K A01P

71: UNIVERSITY OF EXETER

72: STEINBERG, Gero, GURR, Sarah, WOOD, Mark

33: GB 31: 1904744.8 32: 2019-04-04

54: ANTIFUNGAL COMPOSITIONS

00: -

The invention provides an antifungal composition comprising an antifungal compound of formula R-S+(R')₂ or R-N+(R')₃ wherein R is C17-C32 straight chain or branched alkyl; and each R' is independently methyl, ethyl, propyl, isopropyl or butyl; and uses of said composition as antifungal agents.

Table 1. Anti-fungal activity and toxicity of SACCs

	C ₁₂ -G*	C ₁₈ -TMA*	C ₁₈ -DMS*
1. Toxicity in <i>Z. tritici</i>			
Fragmentation of mitochondria ^a	6.64	1.55	1.72
Inhibition of respiration ^a	0.32	0.14	0.25
Cell mortality ^{**}	32.29	89.27	66.47
2. Toxicity in human cells			
Fragmentation of mitochondria ^a	33.10	44.5	50.00
Inhibition of respiration ^a	16.10	10.50	13.35
Relative Toxicity ^c	50.31	75	53.4
3. Toxicity in zooplankton			
Mortality of <i>Daphnia magna</i> [§]	0.41	2.01	3.63
Relative toxicity ^{**}	13.23	179.43	241.29
4. Toxicity in plants[¶]			
Leaf symptoms in wheat	>1000	>1000	>1000
Leaf symptoms in rice	>1000	>1000	>1000
4. Anti-fungal protection			
Protection against Septoria leaf blotch [§]	5.00	1.57	0.22
Protection against rice blast disease [¶]	17.19	12.45	2.67
Induction of plant defense [¶]	14.4	6.2	64.9

*Estimated concentration (µg/ml) at 50% effect (EC₅₀) after 30-45 min treatment.

**Percentage of dead *Z. tritici* cells in liquid cultures after 25h incubation at 10 µg/ml.

^aQuotient of EC₅₀ values for inhibition of human respiration and fungal respiration.

^bEstimated concentration (µg/ml) at 50% immobile/non-responsive water fleas after 24h.

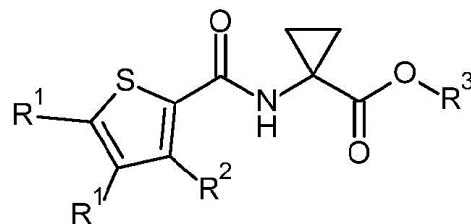
^cMortality in *Z. tritici* multiplied by mortality in *Daphnia*, indicates toxicity at same effectiveness.

^dLowest concentration (µg/ml) at which chlorosis occurs after 7d incubation.

^eMean leaf area with pycnidia (%): 21d old wheat, sprayed at 100 µg/ml and infected after 24h.

^fMean lesion area (%): 4d old rice leaves, sprayed at 125 µg/ml and infected 24h later.

^gDAB-stained leaf area after 6h treatment with 150 µg/ml, given as percent of positive control.



(I)

21: 2021/10677. 22: 2021/12/20. 43: 2025/02/04
51: B01D; C08J; D01D; D01F

71: LUBRIZOL ADVANCED MATERIALS, INC.

72: ROY, Kinkini, JULIUS, Mark, D., NAYMIK, Donald, ZOOK, Christopher, D.

33: US 31: 62/865,400 32: 2019-06-24

54: HOLLOW FIBER MEMBRANE

00: -

The disclosed technology relates to hollow fiber membranes prepared from a dope solution containing a polymer of vinyl chloride, such as chlorinated polyvinyl chloride, and a thermoplastic polyurethane.

21: 2021/10866. 22: 2021/12/23. 43: 2025/01/13
51: A61K

71: THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA

72: WEI, Huafeng, MENG, Qing Cheng, LIANG, Ge, FAZEN ECKENHOLL, Maryellen

33: US 31: 62/868,820 32: 2019-06-28

54: INTRANASAL DANTROLENE ADMINISTRATION FOR TREATMENT OF ALZHEIMER'S DISEASE

00: -

Methods for inhibiting impaired neurogenesis and / or synaptogenesis in neurons in a subject with or suspected of having Alzheimer's Disease (AD), methods for improving and / or slowing the decline of cognitive function after onset of neuropathology and cognitive dysfunction, which neuropathology and cognitive dysfunction are caused by AD, methods for improving and / or slowing the decline of memory before onset of symptoms of AD, methods for increasing concentration and duration of dantrolene in the brain, and methods for improving and / or slowing the decline of memory after onset of symptoms of AD, the methods comprising intranasally administering to a subject in need thereof an amount of a pharmaceutical composition comprising dantrolene effective to inhibit over-

21: 2021/10676. 22: 2021/12/20. 43: 2025/02/04
51: A01N; C07D; A01P

71: BAYER AKTIENGESELLSCHAFT

72: DUFOUR, Jeremy, NICOLAS, Lionel, TSUCHIYA, Tomoki, BERNIER, David, KNOBLOCH, Thomas, BRUNET, Stephane

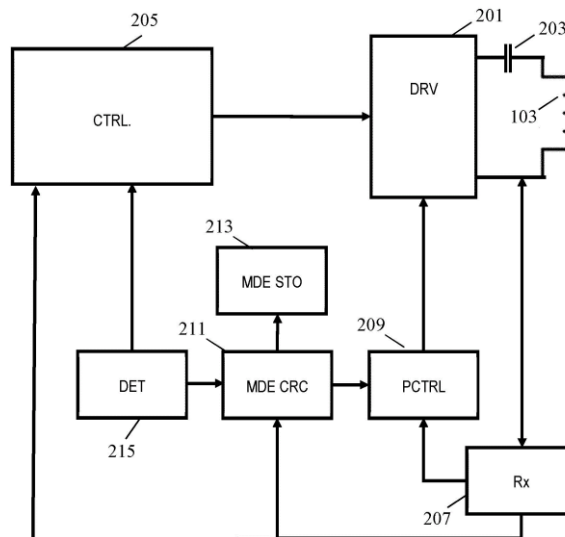
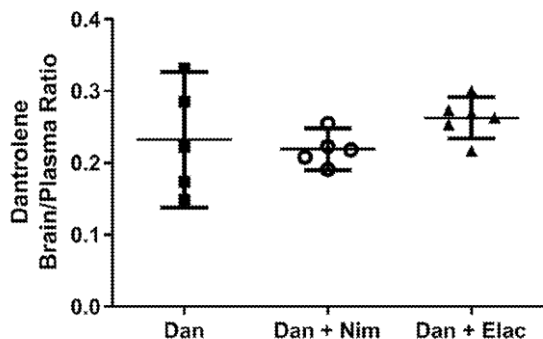
33: EP 31: 19184093.3 32: 2019-07-03

54: SUBSTITUTED THIOPHENE CARBOXAMIDES AND DERIVATIVES THEREOF AS MICROBICIDES

00: -

The present disclosure relates to substituted thiophene carboxamide derivatives of formula (I), their use for controlling phytopathogenic microorganisms and compositions comprising thereof.

activation of N-methyl-D-aspartate (NMDA) receptor and / or ryanodine receptor (RyR). Methods further understood administering a therapeutically effective amount of a glutamate receptor antagonist to the subject.

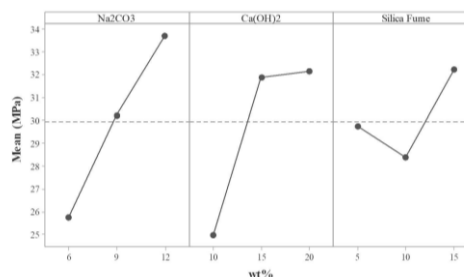


21: 2022/04027. 22: 2022/04/08. 43: 2024/12/11
 51: G05B; H02J; H04B
 71: Koninklijke Philips N.V.
 72: DRAAK, Johannes Wilhelmus, LULOFS, Klaas Jacob, LEBENS, Pascal Leonard Maria Theodoor, VAN WAGENINGEN, Andries
 33: EP(NL) 31: 19196160.6 32: 2019-09-09
54: WIRELESS POWER TRANSFER
 00: -

A wireless power transmitter (101) an output circuit (203, 103) comprises a transmitter coil (103) for which generates the power transfer signal a drive signal generated by a driver circuit (201) is applied. A power loop controller (209) implements a power control loop for controlling the drive signal to adjust a power level of the power transfer signal in response to power control error messages received from the power receiver (105). A mode store (213) stores a plurality of power level modes for the power receiver where each power level mode is associated with a reference power level for the power transfer signal. A mode circuit (211) adapts the drive signal to set the power level of the power transfer signal to a first reference value in response to receiving a mode request message where the first reference value corresponds to a reference power level for a first power level mode indicated in the mode request message.

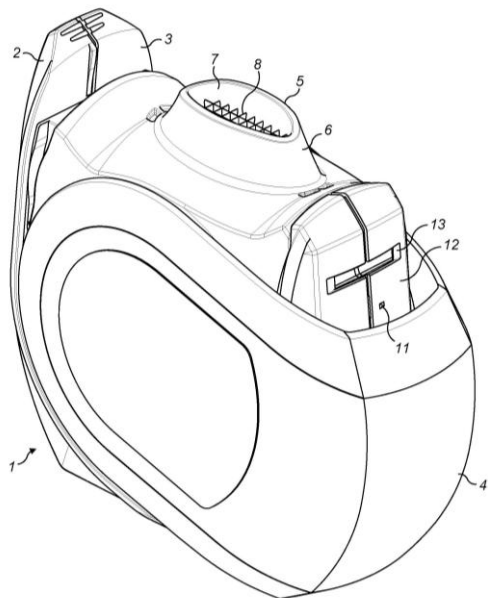
21: 2022/04435. 22: 2022/04/20. 43: 2025/02/11
 51: C04B
 71: UNIVERSITY OF PRETORIA
 72: KOVTUN, Maxim, Nikolaevich
 33: ZA 31: 2019/07315 32: 2019-11-05
54: NOVEL CEMENTITIOUS COMPOSITION
 00: -

The present invention relates to the field of cementitious compositions. Particularly, the invention concerns an alkaline-activated fly ash cementitious composition and the use of this composition as a binder in concrete production.



21: 2022/04676. 22: 2022/04/26. 43: 2024/12/11
 51: A61M
 71: Vectura Delivery Devices Limited
 72: CLARKE, Roger, MELINIOTIS, Andreas, DEAMER, John, COTTON, Darryl
 33: EP (GB) 31: 19209857.2 32: 2019-11-18
 33: EP(GB) 31: 19209856.4 32: 2019-11-18
 33: EP (GB) 31: 19209858.0 32: 2019-11-18
54: INHALER FOR USE WITH A COMPLIANCE MONITOR

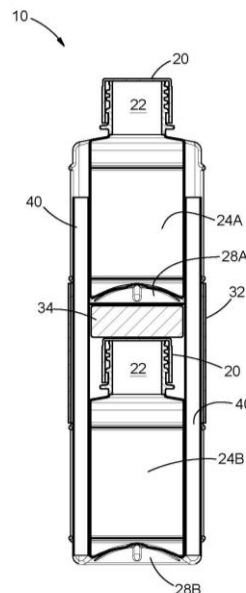
00: -
 A dry powder inhaler is provided. The inhaler is adapted for detachably mounting a compliance monitor having a pressure sensor. The inhaler has a housing comprising first and second shell parts, and a mouthpiece which defines an inhalation passage. An external surface of the housing has an orifice. A conduit from the orifice to the inhalation passage is formed by a channel in one of the shell parts and a corresponding channel cover in the other shell part. When the compliance monitor is mounted on the housing, the pressure sensor is adjacent to the orifice and is in fluid communication with the inhalation passage via the conduit.



21: 2022/04854. 22: 2022/05/03. 43: 2025/02/11
 51: A47J; B65D; C12G
 71: GERMISHUYS, Jacobus Josias
 72: GERMISHUYS, Jacobus Josias
 33: ZA 31: 2019/07002 32: 2019-10-24
54: AN ALCOHOLIC BEVERAGE PRODUCT
 00: -

The invention relates to an alcoholic beverage product and a method of packaging an alcoholic beverage product. The alcoholic beverage product (10) comprises a fruit based alcoholic composition comprising a fruit extract and an amount of alcohol to effectively preserve the fruit extract, the fruit based alcoholic composition being contained in a first container (24A); and a liquid being contained in a second container (24B), wherein the first and

second container are connectable relative to one another, thereby providing a user with a ready to mix fruit based alcoholic beverage product.



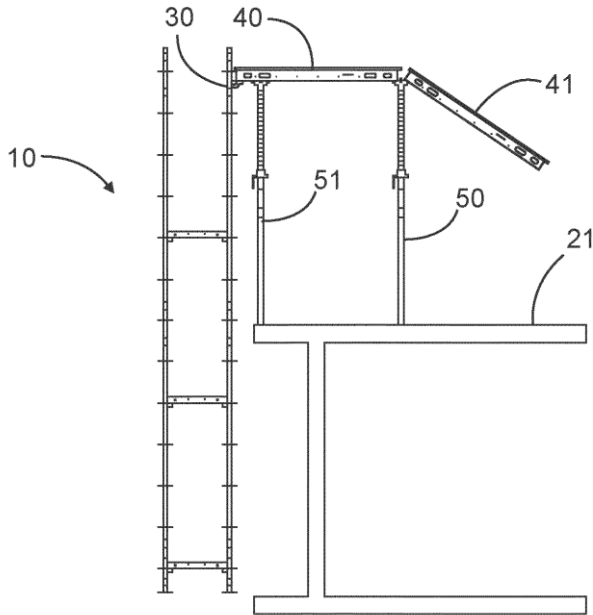
21: 2022/06442. 22: 2022/06/09. 43: 2024/12/11
 51: A61K; A61Q
 71: Colgate-Palmolive Company
 72: WU, Qiang, DU-THUMM, Laurence, CHENG, Shujiang, ARMAS, Adriana, LOPEZ, Luis Miguel, MENESES, Alejandro
 33: US 31: 62/948,522 32: 2019-12-16
54: PERSONAL CARE COMPOSITIONS AND METHODS FOR THE SAME

00: -
 Personal care compositions and methods for treating one or more dry skin conditions are disclosed. The composition may include a carrier, one or more plant oils, and a source of Aloe vera. The one or more plant oils and the source of Aloe vera may each be present in an effective amount to increase natural moisturizing factors in skin when applied thereto. The method for treating the one or more dry skin conditions may include contacting the personal care composition with skin. Contacting the personal care composition with the skin may increase an amount of natural moisturizing factors in the skin and/or increase an amount of Caspase-14 in the skin.

21: 2022/08325. 22: 2022/07/26. 43: 2024/12/09
 51: E04G
 71: PERI SE

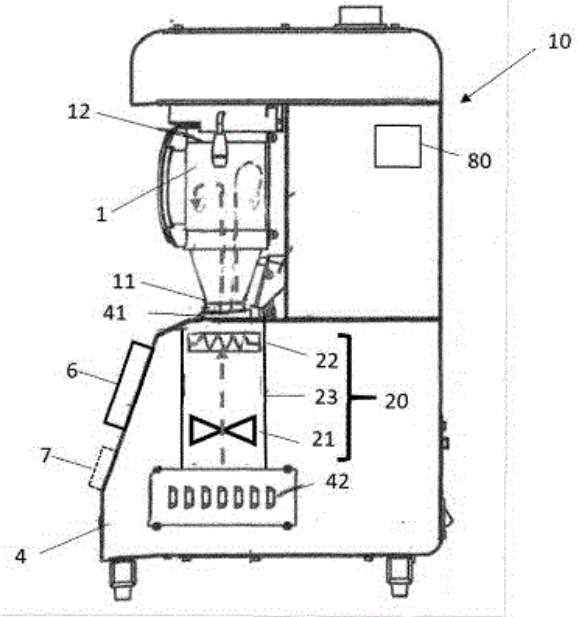
72: SCHNEIDER, Werner, RAUDIES, Thomas
 33: DE 31: 10 2020 200 318.1 32: 2020-01-13
54: ATTACHING A CEILING FORMWORK TO A FRAME

00: -
 The invention relates to a method for installing a ceiling formwork, having the steps of: providing a frame (10) which is arranged adjacently to a region where a ceiling formwork is to be provided; arranging a securing means (30) for a ceiling panel element (40) on the frame; arranging the ceiling panel element (40) on the securing means (30); and arranging at least one support element (50) below the ceiling panel element (40) in order to hold the ceiling panel element (40) in a horizontal position.



21: 2022/08809. 22: 2022/08/05. 43: 2024/12/11
 51: A23F; A23N
 71: Société des Produits Nestlé S.A.
 72: DUBIEF, Flavien Florent, BIGLER, Nicolas
 33: EP(CH) 31: 20152009.5 32: 2020-01-15
54: METHOD FOR ROASTING COFFEE BEANS

00: -
 The invention concerns a method to determine the roasting recipe R_{blend} for roasting a customised blend of coffee beans C_A, C_B, \dots introduced in a chamber of a roasting apparatus, said recipe R_{blend} providing the temperature $T@t_1, T@t_2, \dots$ to be applied at discrete successive times t_1, t_2, \dots respectively, said method comprising the steps of: - obtaining for each type of coffee beans C_i comprised in said blend at least: the type C_i of said type of coffee beans, and the quantity m_i of said type of coffee beans C_i introduced in the chamber, and - based on the obtained type C_i , getting access at least to: roasting recipes RM_A, RM_B, \dots of the different types of coffee beans C_A, C_B, \dots respectively, and, temperature adaptation factors K_A, K_B, \dots of said different types of coffee beans C_A, C_B, \dots respectively of the customised blend, and - based on the obtained quantities m_i of the different coffee beans C_i and the accessible roasting recipes RM_i and temperature factors K_{m_i} determining the roasting recipe R_{blend} to be applied to said customised blend of coffee beans introduced inside the chamber.



21: 2022/09049. 22: 2022/08/12. 43: 2025/01/10
 51: E04H

71: GUARDIAR EUROPE BVBA
 72: MESSELIS, Timothy, SYNODINOS, Stefanos
 33: GB 31: 2002340.4 32: 2020-02-20
54: FENCE

00: -
 The present invention provides a fence panel comprising: • a plurality of upright members (12), and • at least one rail (13a, 13b, 13c) connected to each of said upright members, • wherein the at least one rail comprises: • an external casing (22,32) defining a rail channel and comprising at least one aperture (36a), wherein each of the upright members extends through an aperture into the rail channel, and • an inner plate (33) that extends along at least part of the length of the rail channel, wherein the inner plate is at least partly enclosed by the external casing, wherein the inner plate comprises a flat portion (26) comprising a plurality of openings (56) that rests against the upright members and two angled portions (27) connected to opposite sides of the flat portion and extending away from said upright members and wherein the plurality of upright members each comprise a projection (29) that extends into one of said openings to connect said upright member to the rail.

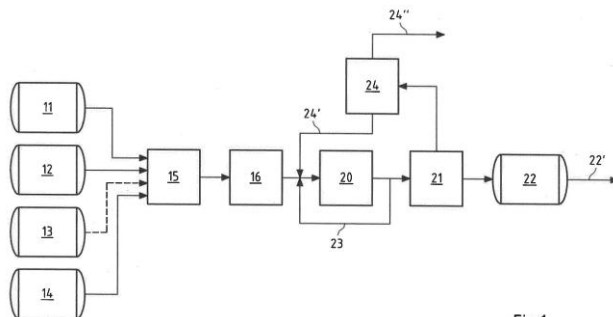
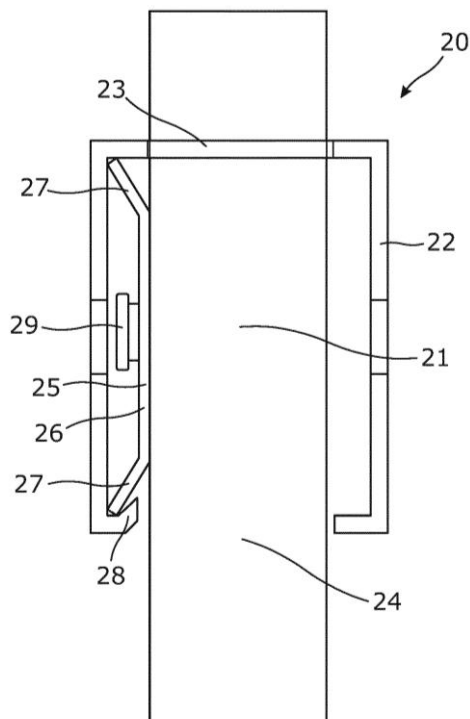


Fig.1

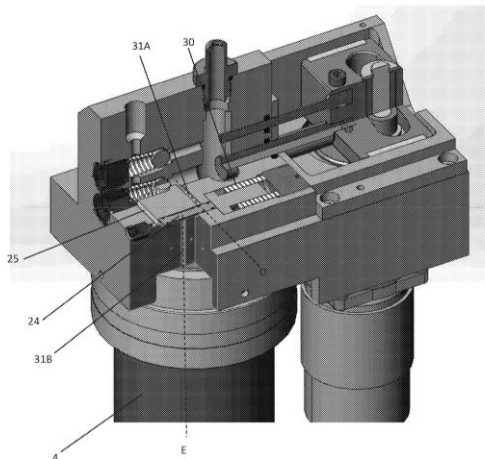
21: 2022/09061. 22: 2022/08/12. 43: 2024/12/11
 51: C08F; C09J
 71: Rain Carbon Germany GmbH
 72: NAU, Manuel, DREISEWERD, Björn, LIU, Jun, FUHRMANN, Edgar, HEITMANN, Matthias
 33: EP(DE) 31: 20157171.8 32: 2020-02-13
54: HYDROCARBON RESIN AND PROCESS FOR PRODUCTION THEREOF

00: -
 Presented and described is a hydrocarbon resin obtainable by thermal polymerization of a cyclic diolefin component comprising a cyclic diolefin compound with an aromatic component comprising indene and/or C1-4-alkylindene, with the hydrocarbon resin having a polydispersity index (PDI) of 1 to less than 2.3. Further described is a production process for the hydrocarbon resin, wherein a monomer mixture which comprises an aromatic component comprising indene and/or C1-4-alkylindene and a cyclic diolefin component comprising a cyclic diolefin compound is polymerized by heating to a polymerization temperature of at least 180°C to give a product stream comprising hydrocarbon resin, and oligomers which comprise units originating from the cyclic diolefin compound and/or units originating from the aromatic component are separated from the product stream and returned to the monomer mixture. Lastly described are a hydrogenated hydrocarbon resin, a process for production thereof, and the use of the hydrocarbon resin and of the hydrogenated hydrocarbon resin.

21: 2022/09250. 22: 2022/08/17. 43: 2024/12/09
 51: F16N
 71: MACNAUGHT PTY LTD
 72: UCCELLANI, Marco, WONG, Matthias
 33: US 31: 62/991,238 32: 2020-03-18
54: BATTERY OPERATED GREASE GUN
 00: -

This application relates to a battery operated grease gun comprising a body able to be connected to a container configured to store grease, the body defining first and second elongate chambers therein, the first chamber extending along a first axis and the second chamber extending along a second axis, the first axis being spaced from the second axis, and the second chamber having a smaller cross-sectional area than the first chamber; first and second pistons, the first piston configured to reciprocate within the first chamber along the first axis and the second piston configured to reciprocate within the second chamber along the second axis, the second piston having a smaller cross-sectional area than the first piston; a common grease channel, the common grease channel being disposed between the container and the first and second chambers such that the grease is able to flow from the container into the first and second chambers; an actuator connected to the body and moveable between a retracted position, whereby grease is able to flow through the common grease channel, and an engaged position, whereby grease is restricted from flowing through the common grease channel, the actuator being configured to cause reciprocation of the first piston and the second piston when moved between the engaged and retracted positions; and a grease outlet fluidically connected to the first and second chambers that allows for grease to be discharged from the grease gun. The battery operated grease gun may further comprise a high

pressure/high flow switch in the form of a pressure-sensitive spool, bypass valve or gap-based bypass.



21: 2022/09255. 22: 2022/08/17. 43: 2024/12/05
51: B29C

71: Bockatech Ltd

72: CLARKE, Peter Reginald

33: GB 31: 2003070.6 32: 2020-03-03

54: METHOD OF FORMING AN ARTICLE

00: -

A method of forming an article, the method comprising: (a) providing a mould having a first mould part and a second mould part, the first and second mould parts having respective first and second cavity-forming surfaces; (b) closing the mould thereby defining a cavity between the first and second cavity-forming surfaces; (c) injecting a molten plastic composition comprising a polymer and a physical blowing agent into the cavity, wherein during or after the injecting step (c), the injected plastic composition in contact with the first and second cavity-forming surfaces is cooled to form first and second solid skins respectively adjacent to and in contact with the first and second cavity-forming surfaces, whereby in at least one region of the cavity is respectively located at least one portion of the plastic composition in which portion at least some of the plastic composition between the first and second solid skins remains molten, wherein the thickness of the respective portion is constant within a tolerance of +/- 0.5%, preferably +/- 0.2%, based on a nominal thickness of the respective portion; (d) opening the mould before the molten plastic composition between the first and second solid skins has solidified in the at least one portion, so as to

expose the molten plastic composition of the respective portion to an external pressure lower than the injection pressure thereby allowing the molten plastic composition between the first and second solid skins of the respective portion to expand by foaming to form an expanded cellular foam as a result of the molten plastic composition beneath the first solid skin expanding outwardly away from the second solid skin which stretches the first solid skin in the respective portion, wherein the opening step comprises removing the first mould part so that the first solid skin is no longer in contact with the first cavity-forming surface; and (e) cooling the expanded cellular foam to cause the molten plastic composition between the first and second solid skins of the respective portion to solidify and to form in the article at least one first part comprising a core layer of cellular foam between the first and second solid skins, wherein after the cooling step (e) the length of the first solid skin in the respective portion has stretched, as compared to the first solid skin present prior to the opening step (d), by a stretch ratio of from 0.5 to up to 3%, wherein the stretch ratio is the ratio of the increase in the length of the first solid skin after cooling step (e) based on length of the first solid skin before the opening step (d).

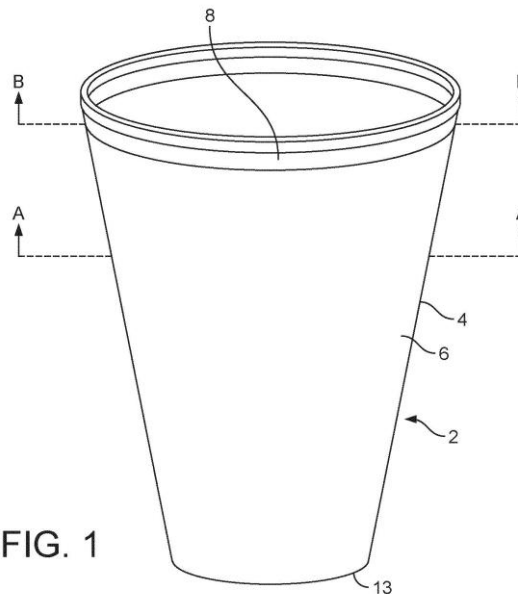


FIG. 1

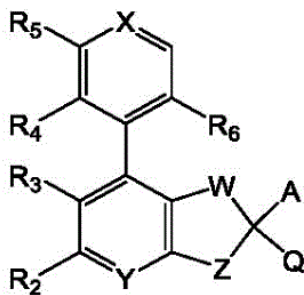
21: 2022/09563. 22: 2022/08/26. 43: 2025/01/21
51: A61K; C07D; A61P
71: NOVARTIS AG

72: FURET, Pascal, WARTMANN, Markus, GUAGNANO, Vito, SELLNER, Holger, CHENE, Patrick, VOEGTLE, Markus, SOLDERMANN, Nicolas, SALEM, Bahaa, BORDAS, Vincent, LORTHIOIS, Edwige Liliane Jeanne, BROCKLEHURST, Cara, FEI, Zhongbo, IMBACH-WEESE, Patricia, KALLEN, Joerg, LE DOUGET, Mickael, LI, Jiali, LI, Wei, MCKENNA, Joseph, SCHMELZLE, Tobias

33: EP 31: 20163465.6 32: 2020-03-16
 33: CN 31: PCT/CN2021/075550 32: 2021-02-05

54: BIARYL DERIVATIVES AS YAP/TAZ-TEAD PROTEIN-PROTEIN INTERACTION INHIBITORS

00: -
 The present invention provides a compound of formula (I) or a pharmaceutically acceptable salt thereof; (I) a method for manufacturing said compound, and its therapeutic uses. The present invention further provides a combination of pharmacologically active agents and a pharmaceutical composition comprising said compound.



(I)

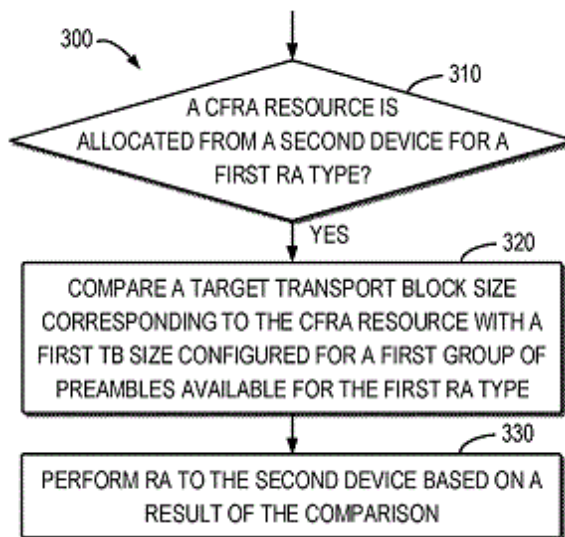
21: 2022/09627. 22: 2022/08/29. 43: 2024/12/05
 51: H04W

71: NOKIA TECHNOLOGIES OY
 72: TURTINEN, Samuli, WU, Chunli

54: RANDOM ACCESS IN COMMUNICATION SYSTEM

00: -
 Embodiments of the present disclosure relate to random access in a communication system. A first device determines whether a contention-free random access resource is allocated from a second device for a first random access type. In accordance with a determination that the contention-free random access resource is allocated, the first device compares a target transport block size

corresponding to the contention-free random access resource with a first transport block size configured for a first group of preambles available for the first random access type, and performs random access to the second device based on a result of the comparison.



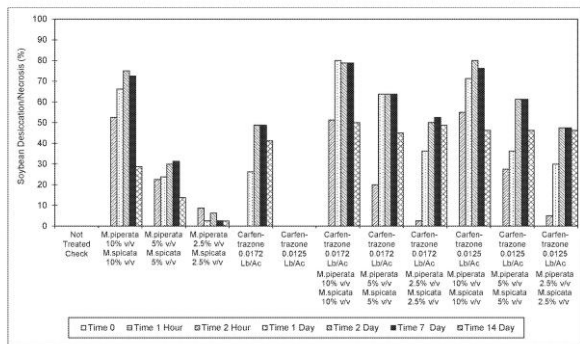
21: 2022/09691. 22: 2022/08/30. 43: 2024/12/11
 51: A01N; A01P

71: Harpe Bioherbicide Solutions, Inc.
 72: BROMMER, Chad L.

33: US 31: 62/989,337 32: 2020-03-13

54: HERBICIDAL MENTHA PLANT EXTRACT COMPOSITIONS AND METHODS OF USING SAME

00: -
 Provided are compositions and methods relating to herbicidal compositions. In particular, the invention relates to herbicidal compositions comprising a *Mentha* sp. plant extract composition that can be utilized alone or with other carvone and/or menthol or menthone containing plant extracts. Further, the composition acts in synergy with commercial herbicides. Also provided are methods of using herbicidal compositions for treatment of weeds, grasses, and photosynthetic organisms. In particular, the component acting in synergy with the commercial herbicide is a *Mentha* sp., and may also include dill, clove, caraway extract, and combinations thereof.



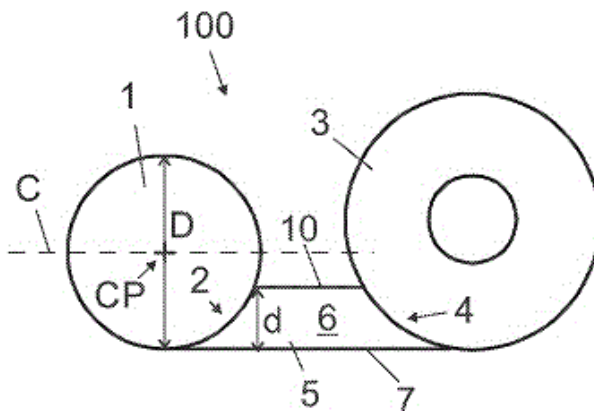
21: 2022/10779. 22: 2022/09/29. 43: 2025/01/13
 51: A61K; A61P
 71: EVER VALINJECT GMBH
 72: ACHLEITNER, Maria-Lena, GEHWOLF, Nikolaus, SCHNAIT, Heinz
 33: EP 31: 20169567.3 32: 2020-04-15
54: COMPOSITION COMPRISING TRABECTEDIN AND AN AMINO ACID

00: -
 The present invention relates to a stable pharmaceutical composition comprising trabectedin. The present invention also provides a lyophilized formulation and an intravenous injection solution comprising trabectedin and an amino acid.

21: 2022/10954. 22: 2022/10/05. 43: 2024/12/11
 51: B04C; B01D; B01J; F23J
 71: METSO OUTOTEC FINLAND OY
 72: MADUTA, ROBERT, STURM, PETER, PERANDER, LINUS, BEISHEIM, THEODOR
54: CYCLONE SEPARATOR ARRANGEMENT

00: -
 A cyclone separator arrangement (100), comprising a preceding apparatus (1) having an outlet (2), and a cyclone separator (3) having an inlet (4). The arrangement (100) further comprises a crossover duct (5) connected to the outlet (2) and the inlet (4) for supplying gas flow comprising particles from the preceding apparatus (1) to the cyclone separator (3). The preceding apparatus (1) has a horizontal inner diameter (D), and a flow channel (6) having a cross-section having a height (H) and a width (d), said width (d) relating to the inner diameter (D) such that $0.15 \times D < d < 0.6 \times D$. The width (d) is a dimension of the flow channel (6) in a horizontal plane crossing the centre of gravity (CF) of a flow-through area of the flow channel (6) at the outlet (2) of the preceding apparatus. The inner diameter (D) is a width of the preceding apparatus (1) in a horizontal plane

crossing the centre of gravity (CP) of a flow-through area of the preceding apparatus (1) and being parallel to the width (d) of the flow channel (6). The flow channel (6) is arranged asymmetrically in a horizontal cross-section of the preceding apparatus (1).



21: 2022/11253. 22: 2022/10/13. 43: 2024/12/11
 51: A61K; A61P
 71: AFIMMUNE LIMITED
 72: CLIMAX, JOHN, HAMZA, MOAYED, WEISSBACH, MARKUS, COUGHLAN, DAVID
54: COMPOSITIONS COMPRISING 15-HEPE FOR TREATING OR PREVENTING HEMATOLOGIC DISORDERS, AND/OR RELATED DISEASES
 00: -
 The present disclosure relates to methods of treating or preventing hematologic disorders by administration of 15-HEPE or compositions thereof.

21: 2022/11258. 22: 2022/10/13. 43: 2025/01/29
 51: F41H
 71: RHEINMETALL MAN MILITARY VEHICLES ÖSTERREICH GESMBH
 72: WIMMER, Robert, FEJES, Andras
 33: DE 31: 10 2020 107 664.9 32: 2020-03-19
54: DRIVER'S CAB AND UTILITY VEHICLE
 00: -
 Driver's cab (4) for a utility vehicle (1), comprising an interior space (I) enclosed by the driver's cab (4), a driver's cab floor (12), and a protrusion (23, 24) formed on the driver's cab floor (12), wherein the protrusion (23, 24) is curved away from the interior space (I), wherein the protrusion (23, 24) comprises a first contour (25) defining the protrusion (23, 24) in a first sectional plane (E1) intersecting the driver's cab floor (12), wherein the first contour (25) is curved

in an arcuate manner at least in sections, wherein the protrusion (23, 24) comprises a second contour (26) defining the protrusion (23, 24) in a second sectional plane (E2) intersecting the driver's cab floor (12), wherein the second contour (26) is curved in an arcuate manner at least in sections, and wherein the first sectional plane (E1) and the second sectional plane (E2) are positioned perpendicular to each other.

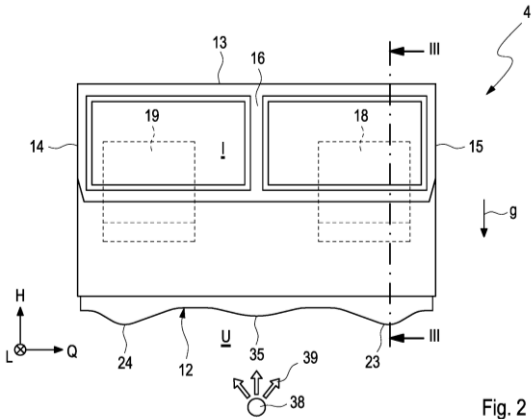


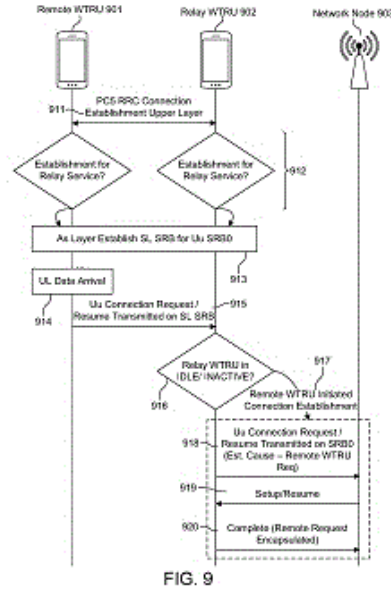
Fig. 2

21: 2022/11319. 22: 2022/10/14. 43: 2024/12/11
51: H04W

71: INTERDIGITAL PATENT HOLDINGS, INC.
72: FRED A, MARTINO, RAO, JAYA, HOANG,
TUONG DUC, DENG, TAO, LEE, MOON IL
33: US 31: 63/007,148 32: 2020-04-08
33: US 31: 63/089,358 32: 2020-10-08
33: US 31: 63/136,463 32: 2021-01-12
33: US 31: 63/061,493 32: 2020-08-05

54: DEVICE TO DEVICE RELAY CONNECTION ESTABLISHMENT AND CONFIGURATION

00: -
There may be one or more systems, methods, and/or devices that address a relay wireless communication scenario. For example, in such a scenario, there may be at least three entities, a remote a wireless transmit receive unit (WTRU) may need to communicate with a network node (e.g., gNB) and/or another WTRU that it cannot directly communicate with. This remote WTRU may communicate with a relay WTRU in order to communicate with the ultimate destination (e.g., another WTRU or a network node). The use of a relay may require establishment and configuration of one or more entities involved.



21: 2022/11356. 22: 2022/10/17. 43: 2024/12/11
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: LOGANATHAN, CHANDERSEKAR, PAN,
YUEYUAN

33: EP 31: 20180677.5 32: 2020-06-18
33: CN 31: PCT/CN2020/089330 32: 2020-05-09
54: PERSONAL CARE COMPOSITION WITH VISUALLY DISTINCT AQUEOUS AND OIL PHASE
00: -
Disclosed is a multi-phase personal care composition comprising an aqueous phase comprising fatty acid amide and nonionic surfactant and an oil phase, wherein the weight ratio of the nonionic surfactant to the fatty acid amide is at least 5:1, the aqueous phase is visually distinct from and in physical contact with the oil phase, and the nonionic surfactant is different from the fatty acid amide.

21: 2022/11407. 22: 2022/10/18. 43: 2024/12/11
51: A24B; A24F; A61M; B05B
71: SHAHEEN INNOVATIONS HOLDING LIMITED
72: LAHOUD, IMAD, ALSHAIBA SALEH GHANNAM
ALMAZROUEI, MOHAMMED, MACHOVEC,
JEFFREY
33: EP 31: 20168231.7 32: 2020-04-06
54: COMPOSITIONS COMPRISING NICOTINE AND/OR NICOTINE SALTS AND ULTRASONIC AEROSOLISATION OF COMPOSITIONS COMPRISING NICOTINE AND/OR NICOTINE SALTS

00: -

The present invention relates to compositions comprising nicotine and/or salts of nicotine, in particular compositions comprising nicotine and/or salts of nicotine for ultrasonic aerosolisation.

21: 2022/11460. 22: 2022/10/19. 43: 2024/12/11

51: A61K; A61P

71: VICORE PHARMA AB

72: CAMBER, OLA, EVERAERT, ARNOUT, GRUDÉN, STEFAN

33: GB 31: 2006079.4 32: 2020-04-24

54: NEW DRY POWDER COMPOSITION FOR PERORAL ADMINISTRATION

00: -

According to the invention there is provided a pharmaceutical dosage form that is suitable for peroral administration to the gastrointestinal tract, which dosage form comprises a pharmaceutical composition in the form of a particulate mixture comprising solid particles of N-butyloxycarbonyl-3-(4-imidazol-1-ylmethylphenyl)-5-iso-butylthiophene-2-sulfonamide (C21), or a pharmaceutically-acceptable salt thereof, admixed with a blend of carrier particles with weight- and/or a volume-based mean diameter, and/or a structural/particle density, that is/are similar to the weight- and/or volume-based mean diameter, and/or the structural/particle density, of the solid particles of C21, and a glidant, which composition is contained within a capsule that is suitable for such peroral administration. Preferred carrier particles have a weight- and/or a volume-based mean diameter that is less than about 100 μm . Preferred carrier particle materials include mannitol. Preferred glidants comprise colloidal silica. Such dosage forms find utility in the treatment of lung diseases, such as idiopathic pulmonary fibrosis, sarcoidosis and respiratory virus-induced tissue damage.

21: 2022/11461. 22: 2022/10/19. 43: 2024/12/11

51: A61K; A61P

71: VICORE PHARMA AB

72: CAMBER, OLA, JOHANSSON, CHRISTINA

33: GB 31: 2006074.5 32: 2020-04-24

54: NEW DELAYED RELEASE COMPOSITION FOR PERORAL ADMINISTRATION

00: -

According to the Invention there is provided a pharmaceutical composition comprising N-

butyloxycarbonyl-3-(4-imidazol-1-ylmethylphenyl)-5-iso-butylthiophene-2-sulfonamide (C21), or a pharmaceutically-acceptable salt thereof, in which composition the C21 or salt thereof is protected by the presence of a coating comprising an enteric substance. Preferred dosage forms comprise capsules in which C21 or salt thereof is presented in the form of a dry powder mixture or a suspension of particles of C21 in a solvent in which it is Insoluble. Such dosage forms find utility in the treatment of lung diseases, such as idiopathic pulmonary fibrosis, sarcoidosis and respiratory virus-induced tissue damage.

21: 2022/11534. 22: 2022/10/21. 43: 2024/12/11

51: A61K; A61P; C07D

71: DR. FALK PHARMA GMBH

72: GREINWALD, ROLAND, MOHR, WOLFGANG, TEWES, BERNHARD, WILHELM, RUDOLF, MOHRBACHER, RALF

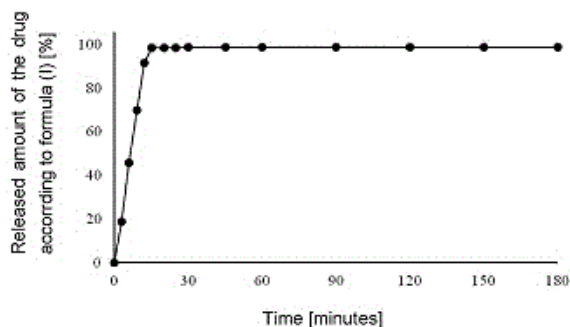
33: EP 31: 20171440.9 32: 2020-04-24

33: EP 31: 20211713.1 32: 2020-12-03

54: SYSTEMIC FORMULATION OF A PYRIDINONE DERIVATE FOR COELIAC DISEASE

00: -

The present invention relates to a systemic formulation, in particular an oral formulation, for the prophylaxis and/or treatment of coeliac disease, i.e. for use in the prophylaxis and/or treatment of coeliac disease.



21: 2022/11535. 22: 2022/10/21. 43: 2024/12/11

51: F03D

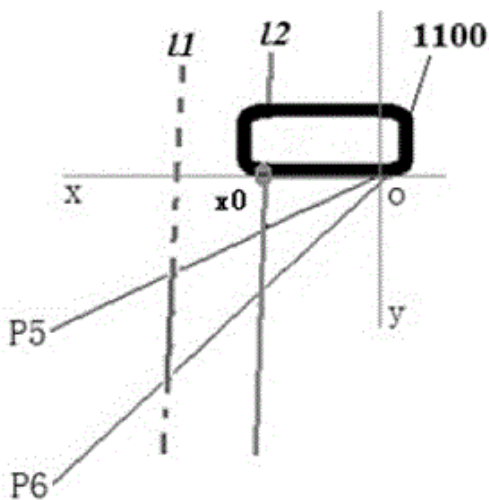
71: BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD.

72: LI, XINLE, ZHANG, QI

33: CN 31: 202010364452.3 32: 2020-04-30

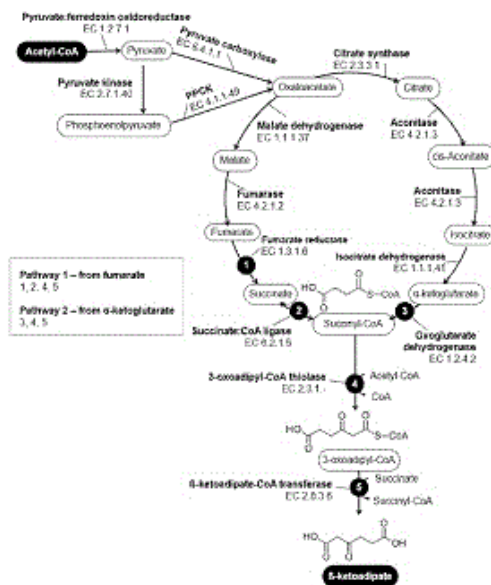
54: CLEARANCE MONITORING SYSTEM OF WIND TURBINE SET, AND MONITORING METHOD AND DEVICE

00: -
 A clearance monitoring system (1400) of a wind turbine set (1000), and a monitoring method and device, the clearance monitoring system (1400) comprising a processor (1411) and a millimeter wave radar (1420) in communication connection to the processor. The millimeter wave radar (1420) is installed on a cabin (1100) of the wind turbine set (1000). The millimeter wave radar (1420) is facing a left side of an impeller (1300). The millimeter wave radar (1420) points to a movement area of the impeller (1300) and is used for monitoring movement data of each blade (1310) on the impeller (1300) in the movement area. The processor (1411) is used to receive the movement data. According to the movement data, blade clearance between each blade (1310) and a tower (1200) of the wind turbine set (1000) is determined. The monitoring system is less affected by bad weather, may achieve all-weather clearance monitoring, which improves the data integrity of clearance condition monitoring. Also disclosed are a clearance monitoring method and monitoring device for the wind turbine set.



21: 2022/11748. 22: 2022/10/27. 43: 2024/12/11
 51: C12N; C12P
 71: LANZATECH, INC.
 72: DANIELL, JAMES, KOEPKE, MICHAEL, JENSEN, RASMUS. OVERGAARD
 33: US 31: 63/017,408 32: 2020-04-29
54: FERMENTATIVE PRODUCTION OF B-KETOADIPATE FROM GASEOUS SUBSTRATES
 00: -

Provided herein are microorganisms and methods for fermentative production of β -ketoadipate from gaseous substrates such as carbon dioxide (CO₂), carbon monoxide (CO), and/or hydrogen (H₂). Additionally, the processes provided herein are methods for producing polymers containing β -ketoadipate, that can potentially enable a circular economy by diverting waste, e.g., plastic waste.



21: 2022/11758. 22: 2022/10/27. 43: 2025/01/30
 51: G08B
 71: AM Technologies CC
 72: Johannes Daniel Petrus Wolfaardt van Vuuren
 33: ZA 31: 2022/09408 32: 2022-08-23
54: AN ALARM DEVICE

00: -
 According to a first aspect of the invention, there is provided an alarm device, said device including one or more of the following: an alarm enclosure; a microprocessor, operable to be installed in the enclosure; and a wireless receiver, operable to be connected to the microprocessor, in use wherein the alarm device is provided in the form of a portable device. In an embodiment of the invention, said device includes a motion sensor electrically connected to the microprocessor. In a preferred embodiment, said motion sensor is operable to detect movement within a predetermined area, in use. In an embodiment of the invention, said device further includes an audio siren electrically connected to the microprocessor. In this embodiment, said audio siren is operable to emit an audible siren when

a movement is detected within the predetermined area, in use.

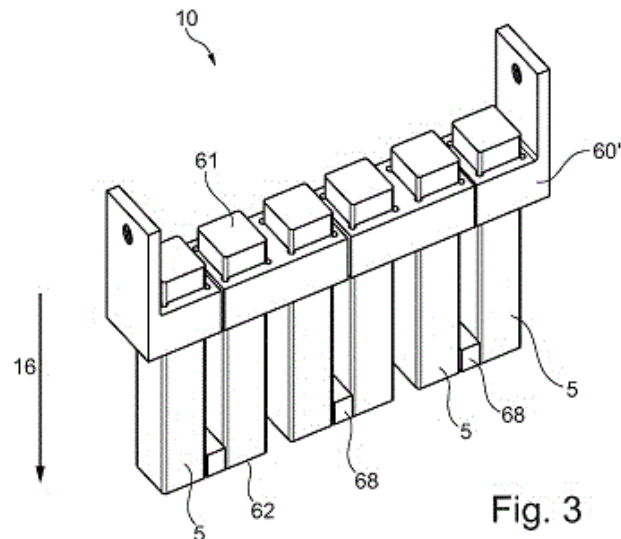
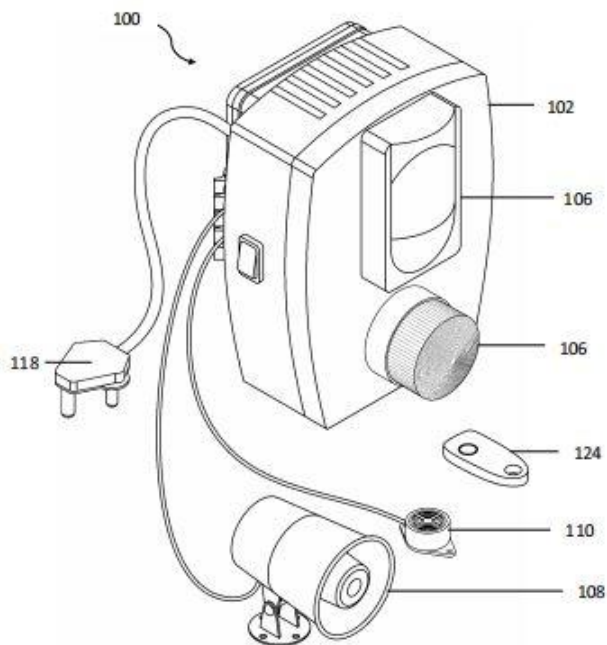


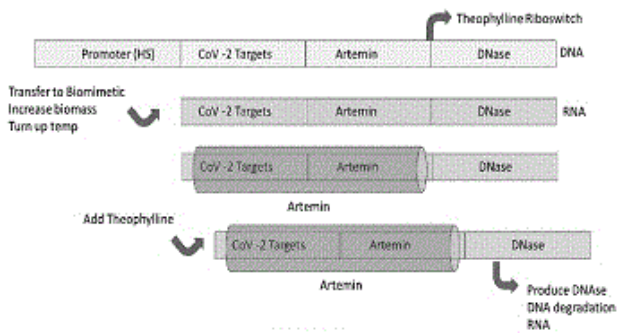
Fig. 3

21: 2022/11840. 22: 2022/10/31. 43: 2024/12/11
 51: B01J
 71: TOPSOE A/S
 72: KLEIN, ROBERT, HANSEN, ANDERS HELBO,
 BOE, MICHAEL, MORTENSEN, PETER
 MØLGAARD, GYDE THOMSEN, SØREN
 33: EP 31: 20182507.2 32: 2020-06-26
54: A STRUCTURED CATALYST
 00: -
 A structured catalyst for catalyzing an endothermic
 reaction of a feed gas to convert it to a product gas
 is provided.

21: 2022/11845. 22: 2022/10/31. 43: 2024/12/11
 51: C12Q
 71: UNIVERSITY OF THE WITWATERSRAND,
 JOHANNESBURG
 72: KANA, BAVESH DAVANDRA, MACHOWSKI,
 EDITH ERIKA
 33: GB 31: 2005985.3 32: 2020-04-23

54: DIAGNOSTIC CONTROL COMPOSITIONS

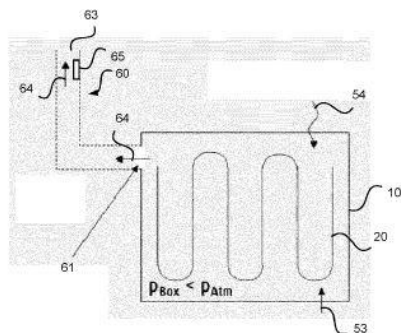
00: -
 Provided herein is a nucleotide cassette comprising
 an inducible promoter, a nucleotide sequence that
 corresponds to at least one single stranded RNA
 diagnostic target, a nucleotide sequence that
 encodes artemin, a molecular switch and a
 nucleotide sequence that encodes a DNase enzyme
 and is under control of the molecular switch, wherein
 the single stranded RNA diagnostic target is a
 sequence detected by a molecular diagnostic assay.
 In some embodiments the nucleotide cassette can
 be used to obtain an RNA expression product. Also
 provided are vectors and cells comprising the
 nucleotide cassette or the RNA expression product
 thereof. The nucleotide cassette can further be used
 to obtain a diagnostic control composition
 comprising a non-pathogenic recombinant bacterium
 having a modified genetic content comprising the
 nucleotide cassette and to methods of producing
 such recombinant bacteria.



21: 2022/12552. 22: 2022/11/17. 43: 2024/12/09
 51: B01J
 71: LINDE GMBH, BASF SE
 72: HOFSTÄTTER, Martin, ZELHUBER, Mathieu, REISER, Peter, KIESE, Georg, ZIEGLER, Christian, STEGEMANN, Robert, AENGENHEISTER, Jens, FEIGL, Jürgen, WELLENHOFER, Anton, DELHOMME-NEUDECKER, Clara, SHUSTOV, Andrey, JENNE, Eric, KOCHENDÖRFER, Kiara Aenne, LAIB, Heinrich, KÜHN, Heinz-Jürgen, JACOB, Reiner

33: EP 31: 20171196.7 32: 2020-04-23
54: REACTOR AND METHOD FOR CARRYING OUT A CHEMICAL REACTION

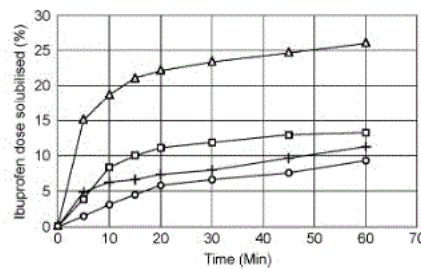
00: -
 The present invention relates to a reactor (100, 200) for carrying out a chemical reaction, which reactor comprises a reactor vessel (10), one or more reaction tubes (20), and means (40) for electrical heating of the one or more reaction tubes (20). The reactor vessel (10) has one or more outflow openings (62, 62) that are permanently open or that are designed to open as of a predetermined pressure level, and gas feed means (50) are provided that are designed to feed an inerting gas to an interior space of the reactor vessel (10). The present invention also relates to a corresponding method.



21: 2022/12759. 22: 2022/11/23. 43: 2025/01/21

51: A61K
 71: RECKITT BENCKISER HEALTH LIMITED
 72: DAS, Anupam A K, MCGIRR, Matthew Edward Anthony
 33: GB 31: 2007619.6 32: 2020-05-21
54: NOVEL FORMULATION

00: -
 The present invention relates to a composition for encapsulation in a soft gelatin shell which comprises ibuprofen, one or more polyoxysorbitan esters and a base wherein the weight ratio of the one or more polyoxysorbitan esters to ibuprofen is from 0.1:1 – 0.9:1, the weight ratio of the base to ibuprofen is from 1:6 – 1:20 and the weight ratio of the one or more polyoxysorbitan esters to base is 1:1 – 13:1 and wherein the ibuprofen is present at an amount of 50% – 65% w/w.

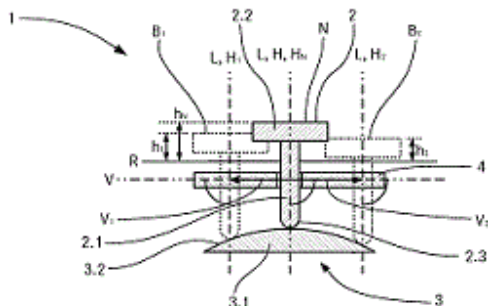


▲ Example 1 ◻ Example 2 + Example 3 ○ Commercial Example

21: 2022/12920. 22: 2022/11/28. 43: 2024/12/11
 51: G06F
 71: TEKERLEK, Korkut
 72: TEKERLEK, Korkut
 33: EP 31: PCT/EP2020/062451 32: 2020-05-05
54: INPUT DEVICE

00: -
 The invention relates to an input device, in particular for an electronic device, preferably for a game controller, comprising an actuation element for the actuation of the input device by a user with an actuation portion that can be accessed from outside the input device, wherein the actuation element can be brought into multiple actuation positions, defining an actuation area, by the user. The actuation element can be moved into the actuation positions via shifting in one or more shifting directions, in particular lying substantially in a shifting plane. The input device also comprises electronic position detection means, which directly or indirectly detects a current actuation position of the actuation element. According to the invention, the actuation element is linearly moveably guided in the input device in a

current stroke direction orientated perpendicular to a respective current shifting direction, and a control device is provided, with which a stroke movement of the actuation element in the current stroke direction is/can be controlled according to the shifting of the actuation element, with a shifting of the actuation element in the actuation area in the one or more shifting directions.



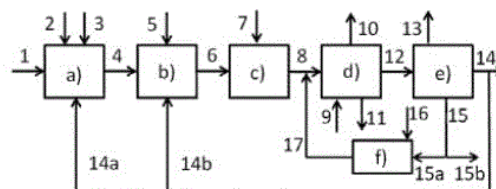
21: 2022/13011. 22: 2022/11/30. 43: 2025/01/24
 51: A61K; C12N; A61P
 71: CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS (CSIC)
 72: BRUN TORRES, Alejandro, BORREGO RIVERO, María Belén, MORENO FERNÁNDEZ, Sandra
 33: ES 31: P202030529 32: 2020-06-04
54: ATTENUATED VARIANT OF THE RIFT VALLEY FEVER VIRUS, COMPOSITION COMPRISING SAME, AND USES THEREOF

00: -
 The invention relates to an attenuated variant of the Rift Valley fever virus (RVFV) with mutations in the amino acid sequence coded by segments L, M, and S of RVFV RNA; a pharmaceutical or veterinary composition comprising same; an attenuated RVFV variant for use in the prevention of Rift Valley fever; and a vaccine against Rift Valley fever comprising the attenuated RVFV variant. Attenuated RVFV variants with the mutations Gly924Ser and Ala1303Thr in protein L, and the Pro82Leu substitution in protein NSs, are also included.

21: 2023/00315. 22: 2023/01/06. 43: 2025/01/23
 51: C10G
 71: REPSOL, S.A., IFP ENERGIES NOUVELLES
 72: WEISS, Wilfried, BONNARDOT, Jerome, RIBAS SANGÜESA, Iñigo
 33: FR 31: FR2008108 32: 2020-07-30

54: METHOD FOR THE TREATMENT OF PLASTIC PYROLYSIS OILS INCLUDING TWO-STAGE HYDROCRACKING

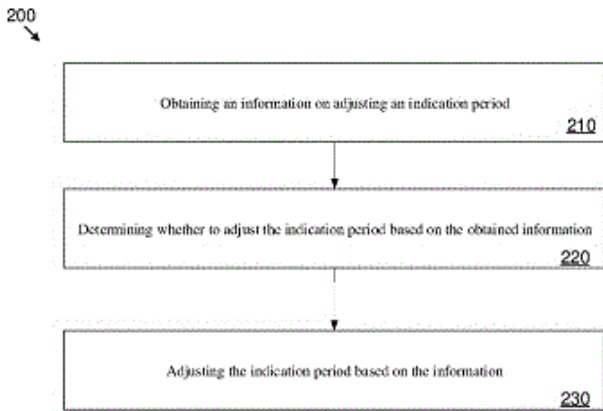
00: -
 The present invention relates to a method for treating a plastic pyrolysis oil, comprising: (a) selectively hydrogenating said feedstock to obtain a hydrogenated effluent; (b) hydrotreating said hydrogenated effluent to obtain a hydrotreated effluent; (c) performing a first hydrocracking step on said hydrotreated effluent to obtain a first hydrocracked effluent; (d) separating the hydrocracked effluent in the presence of an aqueous stream, to obtain a gaseous effluent, a liquid aqueous effluent and a liquid hydrocarbon effluent; (e) fractionating the liquid hydrocarbon effluent to obtain at least one gas stream, at least one naphtha cut and a heavier cut; (f) performing a second hydrocracking step on the heavier cut to obtain a second hydrocracked effluent; (g) recycling at least a portion of said second hydrocracked effluent in said separation step (d).



21: 2023/00488. 22: 2023/01/11. 43: 2024/12/11
 51: H04W
 71: ZTE CORPORATION
 72: DONG, FEI, HUANG, HE, CHEN, MENGZHU
54: METHODS AND DEVICES FOR MANAGING MEASUREMENT OF RADIO LINK QUALITY

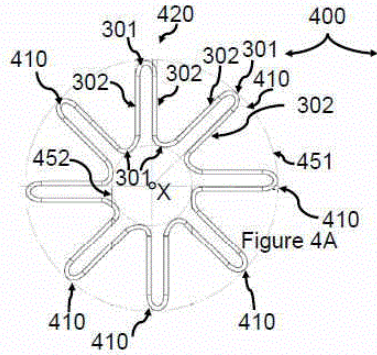
00: -
 This disclosure relates to methods and devices for managing measurement of quality of the radio link between the wireless network access node and the user equipment in a wireless communication system. In one implementation, the method may include obtaining, by a user equipment, an information on adjusting an indication period. The indication period may represent a time period during every which a radio link quality indication being sent to an upper layer of the user equipment. The radio link quality indication may indicate quality of a radio link between the user equipment and a wireless access network node. The method may further include

determining, based on the information, whether to adjust the indication period.



21: 2023/00651. 22: 2023/01/16. 43: 2024/12/10
 51: H02K
 71: ETA Green Power Limited
 72: BOWMAN, Liam, COLLINGS, Henry
 33: GB 31: 2200661.3 32: 2022-01-19
54: A METHOD OF MANUFACTURING A STATOR FOR A SLOTLESS ELECTRIC MOTOR
 00: -

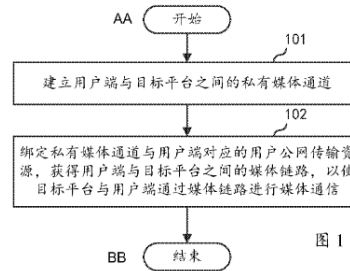
The present disclosure is directed to slotless electric motor, in particular, to a method of manufacturing a stator for a slotless electric motor. An aspect of the disclosure provides a method of manufacturing a stator for a slotless electric motor, the method comprising: disposing a conductor in the shape of an annular cylinder; bonding a plurality of bonded lengths of the conductor, wherein the plurality of bonded lengths are separated by non-bonded lengths; folding the conductor to provide a plurality of petals repeated along the conductor, wherein each petal comprises a pair of bonded lengths connected by a non-bonded length; rotating each petal about a point on the second circle to align in parallel the bonded lengths of all of the petals to thereby provide a stator comprising a cylindrically-shaped conductor wherein the bonded lengths are equidistantly disposed around and from a central longitudinal axis of the cylindrically-shaped conductor.



21: 2023/01117. 22: 2023/01/26. 43: 2024/10/10
 51: H04L
 71: ZTE CORPORATION
 72: LIU, Bo

54: METHOD FOR ACCESSING NETWORK, MEDIA GATEWAY, ELECTRONIC DEVICE, AND STORAGE MEDIUM

00: -
 The embodiments of the present application relate to the field of communications. Disclosed are a method for accessing a network, a media gateway, an electronic device, and a storage medium. The method in the present application for accessing a network, applicable in a media gateway, comprises: establishing a private media channel between a client and a target platform; binding the private media channel to a NAT-translated user public network transmission resource of the client, and acquiring a media link between the client and the target platform, thus allowing the target platform to engage in media communication with the client via the media link.



101 Establish private media channel between client and target platform
 102 Bind private media channel to user public network transmission resource corresponding to client, and acquire media link between client and target platform, thus allowing target platform to engage in media communication with client via media link
 AA Start
 BB End

21: 2023/03879. 22: 2023/03/27. 43: 2024/12/05
 51: A01N; A61L; A61P; C08L; A01P
 71: DANIMER IPCO, LLC
 72: LEGGETT, CAROL G, VAN TRUMP, PHILLIP,
 LEGGETT, THOMAS K. III, MULLINS, RUSSELL
 33: US 31: 63/068,401 32: 2020-08-21

54: ANTIMICROBIAL BIODEGRADABLE COMPOSITIONS FOR FOOD CONTACT ARTICLES

00: -
 The present disclosure provides a food contact article. According to one embodiment, the food contact article includes at least one food contact surface. This at least one food contact surface is made up of at least 50 weight percent of at least one biodegradable polymer, such as polyhydroxyalkanoates, and from about 0.1 weight percent to about 1.0 weight percent of at least one antimicrobial agent.

21: 2023/04237. 22: 2023/04/06. 43: 2024/12/11
 51: C12N
 71: LIFEEDIT THERAPEUTICS, INC.
 72: BOWEN, TYSON D, CRAWLEY, ALEXANDRA
 BRINER, ELICH, TEDD D
 33: US 31: 63/146,840 32: 2021-02-08
 33: US 31: 63/077,089 32: 2020-09-11

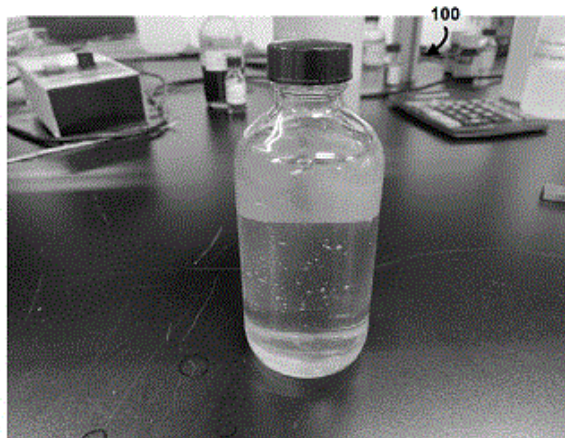
54: DNA MODIFYING ENZYMES AND ACTIVE FRAGMENTS AND VARIANTS THEREOF AND METHODS OF USE

00: -
 Compositions and methods comprising novel deaminase polypeptides for targeted editing of nucleic acids are provided. Compositions comprise deaminase polypeptides. Also provided are fusion proteins comprising a DNA-binding polypeptide and a deaminase of the invention. The fusion proteins include RNA-guided nucleases fused to deaminases, optionally in complex with guide RNAs. Compositions also include nucleic acid molecules encoding the deaminases or the fusion proteins. Vectors and host cells comprising the nucleic acid molecules encoding the deaminases or the fusion proteins are also provided.

21: 2023/04340. 22: 2023/04/12. 43: 2024/12/11
 51: A24B; A61K
 71: TOBACCO TECHNOLOGY, INC.
 72: CASSELS-SMITH, GEORGE HIRAM,
 SENATORE, JOHN CRAIG, HILL, NICHOLLAS
 JAMES

33: US 31: 17/061,535 32: 2020-10-01
 33: US 31: 17/343,363 32: 2021-06-09
54: SHISHA, HEAT-NOT-BURN, OR COMBUSTION CASING WITH ACTIVE INGREDIENT, PRODUCT AND CASING WITH ACTIVE INGREDIENT, AND METHOD OF MAKING THE SAME

00: -
 A shisha, heat-not-burn, or combustion product casing including an active ingredient, a shisha, heat-not-burn, or a combustion product including a casing with an active ingredient, or a method of making the same are disclose herein. For example, a product may include a substrate; and a casing, wherein the casing may include one or more additives and an active ingredient, and wherein the one or more additives may include one or more flavor additives that may include benzaldehyde, isoamyl hexanoate, phenyl ethyl phenylacetate, ethyl caproate, or combinations thereof.

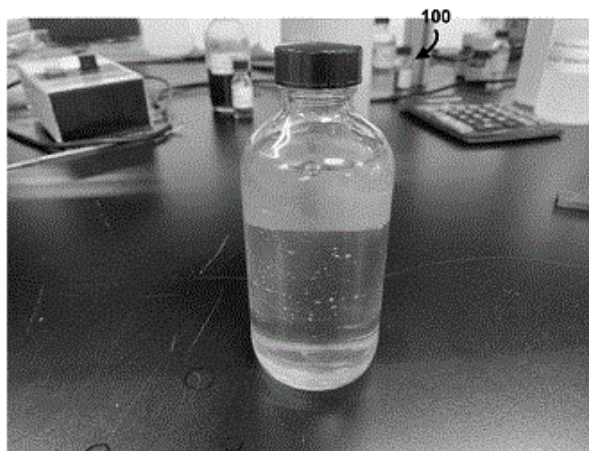


21: 2023/04343. 22: 2023/04/12. 43: 2024/12/11
 51: A24B; A61K
 71: TOBACCO TECHNOLOGY, INC.
 72: CASSELS-SMITH, GEORGE HIRAM,
 SENATORE, JOHN CRAIG, HILL, NICHOLLAS
 JAMES

33: US 31: 17/371,680 32: 2021-07-09
 33: US 31: 17/061,535 32: 2020-10-01
54: SHISHA, HEAT-NOT-BURN, OR COMBUSTION CASING, PRODUCT, AND METHOD OF MAKING THE SAME

00: -
 A shisha, heat-not-burn, or combustion product casing with or without an active ingredient, a shisha, heat-not-burn, or a combustion product including a casing or a method of making the same are disclose

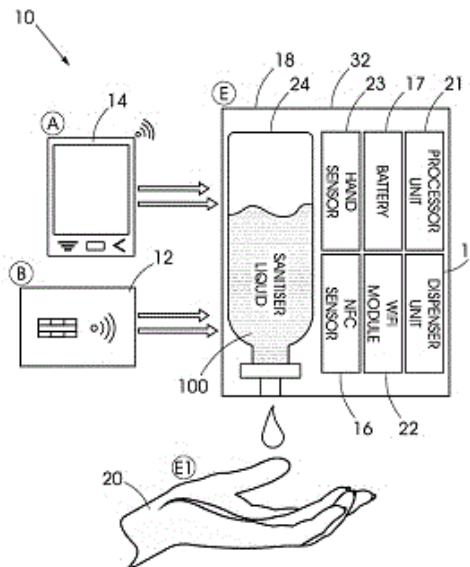
herein. An example product may include a substrate and a casing. The casing may include an active ingredient in an amount up to 33% by weight of the casing, glycerin in an amount of 3% to 78% by weight of the casing, corn syrup in an amount of 8% to 80% by weight of the casing, and propylene glycol in an amount of 5% to 84% by weight of the casing.



21: 2023/04377. 22: 2023/04/13. 43: 2024/12/11
 51: G06F, G06Q; H04W; B67D
 71: MKAZI CONCEPTS (PTY) LTD.
 72: MJWARA, SIPHIWO PEACE, NGCAMU, THOKOZANI ZAMA
 33: ZA 31: 2022/04561 32: 2022-04-25

54: SANITIZER DISPENSER SYSTEM AND METHOD

00: -
 A dispenser system which includes a communication module, a dispenser and a control module. The communication module is configured to receive or retrieve information from a card with an embedded chip or from a mobile communication device, by utilising wireless communication. The information includes information related to the specific card/mobile communication device and/or a specific person associated with the card/ mobile communication device. The dispenser is configured to dispense a fluid. The control module is configured to receive information from the communication module and to control the dispensing of the dispenser.



21: 2023/04577. 22: 2023/04/20. 43: 2024/12/11
 51: C02F
 71: TAYLORMADE WATER SOLUTIONS (PTY) LTD.

72: TAYLOR, RICHARD PETER, HAASBROEK, CHAYTEN RICHARD

33: ZA 31: 2022/01392 32: 2022-01-31

54: WATER TREATMENT SYSTEM

00: -
 A water treatment system typically used in the treatment of wastewater or effluent in a water body, such as a constructed wetland. The system comprises a treatment compartment having an inlet in fluid flow communication with the waterbody such that the treatment compartment is supplied with water from the waterbody. A cyclic draining arrangement is arranged in fluid flow communication with the treatment compartment and provided for sequentially or cyclically causing water from the treatment compartment to be drained therefrom until a water level in the treatment compartment reaches a predetermined lower water level, and thereafter allowing the water level to rise to a predetermined upper water level before repeating the cycle. The cyclic draining arrangement is provided with an outlet. A recirculating arrangement is provided for circulating water drained from the treatment compartment through the outlet back to the water body.

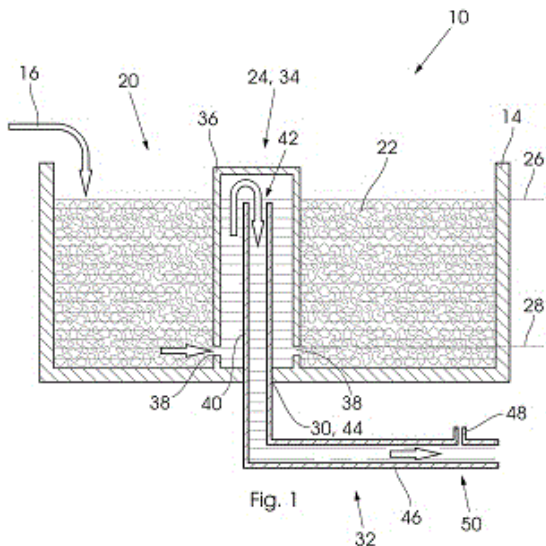


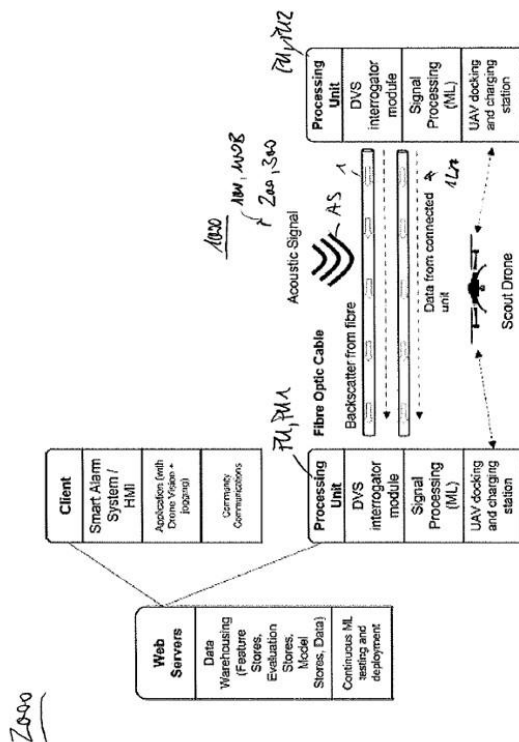
Fig. 1

21: 2023/05064. 22: 2023/05/08. 43: 2025/02/07
 51: A01M; G08B; G08G
 71: SPIDERWEB LABS (PTY) LTD
 72: Ian Charles DU TOIT

54: DISTRIBUTED ACOUSTIC SENSOR ARRANGEMENT AND DISTRIBUTED ACOUSTIC SENSOR SYSTEM, INTRUSION DETECTION SYSTEM AND METHOD FOR INTRUSION DETECTION

00: -
 Distributed acoustic sensor arrangement, in particular a acousto-optic sensor arrangement, preferably a DAS-Arrangement, the distributed acoustic sensor arrangement comprising: - a fibre optic sensor arrangement, and - a circulator and interrogator-arrangement, in particular with a modulator and converter periphery, for feeding a trigger light of a light source and receiving a backscatter light from the fibre optic sensor arrangement, - the fibre optic sensor arrangement being arranged as a web of fibre optic sensors, in particular arranged as and/or adapted to function as a grid or net of fibre optic sensors, and wherein - a first fibre optic line is adapted to receive a trigger light of a light source and the backscatter light due to acoustic sensing of at least a respective first seismic probe signal, and - a second fibre optic line is adapted to receive a trigger light of a light source and backscatter light due to acoustic sensing of at least a respective second seismic probe signal. According to the invention it is provided that the circulator and interrogator-arrangement has a signal coupling means, and - the signal coupling means

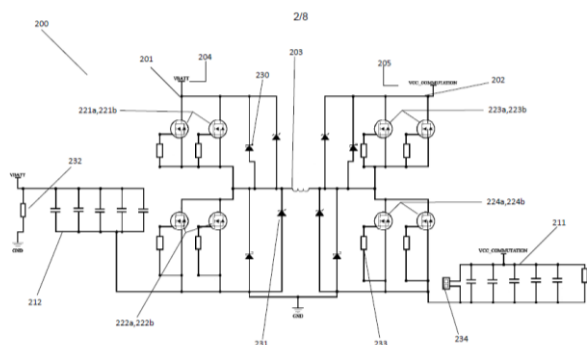
being further adapted for communication of data samples assigned to and generated from the trigger light and/or the backscatter light of at least the first and second fibre optic line with the circulator and interrogator-arrangement, wherein - the data samples are provided to the circulator and interrogator-arrangement by the signal coupling means in that to be further processed for providing a spatial seismic profile of the plurality of seismic probe signals.



21: 2023/05663. 22: 2023/05/23. 43: 2025/01/13
 51: H02J; H02N; H02P
 71: ETA GREEN POWER LIMITED
 72: Liam BOWMAN, Alistair CHEESEMAN
 33: GB 31: 2208546.8 32: 2022-06-10
54: A MOTOR CONTROL CONTROLLER SYSTEM AND METHODS

00: -
 The present disclosure relates to an energy management system for a motor controller system for optimising power signals for different operating voltages of electrically commutated motors. The energy management system comprises a bi-directional energy converter comprising a first input/output terminal and a second input/output terminal, a first waveform controller, and a second waveform controller. The bi-directional energy

converter is coupled to the first waveform controller and to the second waveform controller. The first waveform controller is coupled to the second input/output terminal and the second waveform controller is coupled to the first input/output terminal. The bi-directional energy converter is configured to receive a first input voltage at the first input/output terminal and generate a first output voltage in a first operating direction and receive a second input voltage at the second input/output terminal and generate a second output voltage in a second operating direction.



21: 2023/06057. 22: 2023/06/07. 43: 2024/12/09
 51: A01N; C05F; C05G; C12N; C12R
 71: Blanes SPA
 72: MONTENEGRO MELGAR, Edgar Armando, PINEDA MIJANGOS, Wilson Guillermo, DARDÓN FRESSE DE ÁVALOS, Elena María, RAMAZZINI SANTOS, Héctor Ronaldo, GARCÍA-GALLONT, Ignacio Viteri, VITERI ARRIOLA, Francisco, DELGADO HERNÁNDEZ, Verónica Melissa
54: AGRICULTURAL FORMULATION COMPRISING AT LEAST ONE BACTERIAL STRAIN B. SAFENSIS RGM 2450, AND/OR A BACTERIAL STRAIN B. SIAMENSIS RGM 2529 AND AGRICULTURAL EXCIPIENTS; USE OF THE FORMULATION AND METHOD FOR STIMULATING GROWTH AND/OR INCREASING CROP YIELDS AND/OR PROTECTING CROPS AGAINST DISEASES AND PESTS

00: -
 The invention relates to an agricultural formulation for stimulating growth and/or increasing crop yields and/or protecting crops against diseases and pests, comprising at least one bacterial strain of *B. safensis* having deposit number RGM 2450, and/or a bacterial strain of *B. siamensis* having deposit number RGM 2529 and excipients for agricultural use. The composition serves as a crop bioprotector

and/or biocontroller. The invention also relates to a method for stimulating growth and/or increasing crop yields and/or protecting crops against diseases and pests.

21: 2023/06180. 22: 2023/06/12. 43: 2024/12/09
 51: A61K; A61P; C07K
 71: Eli Lilly and Company
 72: FLEISHER, Adam S., MINTUN, Mark, SIMS II, John Randall, SPARKS, JonDavid
 33: US 31: 63/135,932 32: 2021-01-11
54: ANTI-N3PGLU AMYLOID BETA ANTIBODIES AND USES THEREOF

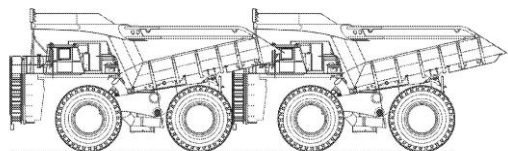
00: -
 The invention is directed to treatment or prevention of a disease characterized by deposition of A β in the brain using anti-N3pGlu A β antibodies. The diseases that can be treated or prevented include, e.g., Alzheimer's disease, Down's syndrome, and cerebral amyloid angiopathy. The invention, in some aspects, is related to doses and dosing regimens useful for such treatments. The invention is also related to, in some aspects, human subjects who are responsive to treatment or prevention of a disease characterized by deposition of A β in the brain using anti-N3pGlu A β antibodies. The invention is also related to human subject who have one or two alleles of *APOE4*.

21: 2023/06362. 22: 2023/06/19. 43: 2024/12/09
 51: A61K; A61P; C07D; C07F
 71: Genosco Inc.
 72: LEE, Wongil, DEVINE, William G., DIEBOLD, R. Bruce, HWANG, So Young, CHOI, Yunggeun, LIU, Yan, SEUNG, Sang-ae, YONG, Miyong, KIM, Sewon, LEE, Jaekyoo, KOH, Jong Sung
 33: US 31: 63/134,458 32: 2021-01-06
54: SELECTIVE INHIBITORS OF ROCK1 AND ROCK2 PROTEIN KINASES AND USES THEREOF

00: -
 The present invention relates to novel substituted bicyclic derivatives that can inhibit Rho-kinases and/or Rho-kinase mediated phosphorylation of myosin light chain phosphates, compositions comprising the derivatives, methods for preparing the derivatives, and methods for using the derivatives and/or compositions.

21: 2023/06609. 22: 2023/06/27. 43: 2024/12/10
 51: B60P; B60R
 71: Desarrollos Tecnológicos S.A.
 72: AYESTARÁN DÍAZ, Asdrúbal José, BAEZA SALINAS, Carlos Alberto
 33: CL 31: 3404-2020 32: 2020-12-28
54: COLLAPSIBLE HOPPER WITH DEFORMABLE EXTENSION
 00: -

Disclosed is a hopper for a load vehicle, which comprises: a non-uniform tail extension portion coupled to the rear part of the hopper tail, wherein the tail portion collapses by means of plastic deformation owing to its structural design, such that the hopper is partly or completely produced using composite materials.



21: 2023/06754. 22: 2023/06/30. 43: 2024/12/09
51: A61K; C07K

71: Eli Lilly and Company
72: FERRANTE, Andrea, HEUER, Josef George, LEE, Stacey Lynn, VERDINO, Petra
33: US 31: 63/144,696 32: 2021-02-02

54: HALF-LIFE EXTENDING MOIETIES AND METHODS OF USING THE SAME

00: -
The disclosure relates generally to biology and medicine, and more particularly it relates to compounds acting as half-life ($t_{1/2}$)-extending moieties for use with therapeutics, especially for improving $t_{1/2}$ of biological-based therapeutics (i.e., biotherapeutics or biologics). The disclosure further relates to fusions and conjugates that include one or more of the compounds acting as $t_{1/2}$ -extending moieties, as well as pharmaceutical compositions including the same and their use in treating various conditions, diseases or disorders.

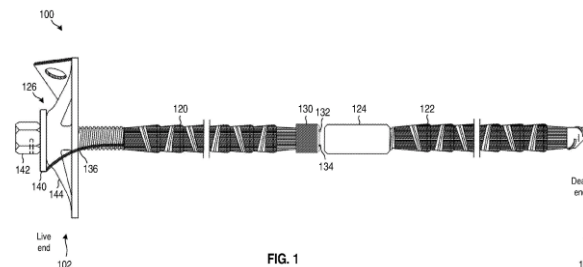
21: 2023/06796. 22: 2023/07/03. 43: 2024/12/09
51: E21D

71: Rocbolt Technologies (Pty) Ltd.
72: BELLINGHAM, Werner Cornelius
33: ZA 31: 2021/01128 32: 2021-02-19

54: A ROCK BOLT ASSEMBLY HAVING AN INDICATOR

00: -
A rock bolt assembly provides an indication of coupling. The rock bolt assembly includes two shaft sections, namely inner and outer shaft sections. A coupler is configured to couple the two shaft sections together at proximate ends. An electrical conductor is insulated from the outer shaft section and extends from the dead end of the outer shaft

section to the head at the live end of the outer shaft section. An electrical contact arrangement is provided at the dead end of the outer shaft section, configured to electrically interconnect the outer shaft section and the conductor when the inner and outer shaft sections are coupled. Electrical terminals are provided at the head and connected respectively to the outer shaft section and to the conductor, the electrical terminals being electrically interconnected or continuous when the outer shaft section and the conductor are electrically interconnected.



21: 2023/06850. 22: 2023/07/05. 43: 2024/12/11
51: E21B

71: Sandvik Mining and Construction Oy
72: LÄÄKKÖLÄ, Esa, PEURALA, Jussi, KELA, Timo
33: EP(FI) 31: 21158232.5 32: 2021-02-19

54: SHANK ADAPTER, ROCK DRILLING MACHINE AND METHOD

00: -
A shank adapter, rock drilling machine and method of mounting a shank adapter of a rock drilling machine inside a slide bearing element. The shank adapter (8) comprises a coupling head (25) and a rotation portion (26) at its opposite ends. A flushing portion (22) is located between them. Outer diameters (D1, D4) of the coupling head (25) and the rotation portion (26) are both greater than outer diameters (D2, D3, D5) between them.

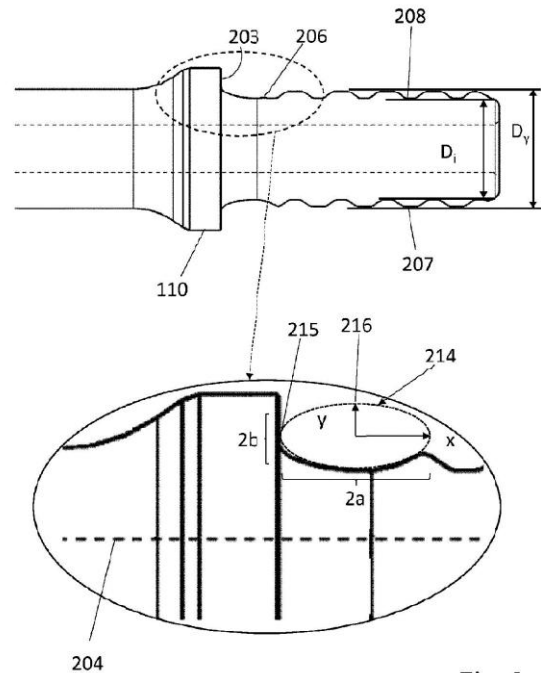
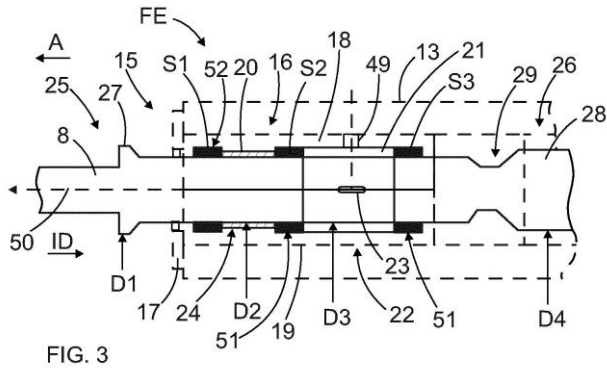


Fig 4

$$\left| \frac{x}{a} \right|^n + \left| \frac{y}{b} \right|^n = 1 \quad (I)$$

21: 2023/06851. 22: 2023/07/05. 43: 2024/12/09

51: E21B

71: Sandvik Mining and Construction Tools AB

72: JANSSON, Tomas, NORDBERG, Anders

33: EP(SE) 31: 21157658.2 32: 2021-02-17

54: ELLIPTICAL DESIGN FOR SHANK ADAPTERS

00: -

A shank adapter to form part of a drilling assembly, the shank adapter comprising: a main body extending axially between a first end and a second end; a male spigot portion provided at the second end having an externally threaded section and a non-threaded shank positioned axially intermediate the main body and the threaded section; a radially projecting shoulder positioned axially between the main body and the male spigot portion; the shank having a transition section positioned adjacent to the shoulder at the second end, the transition section having an outside diameter that increases in a direction from the spigot portion to the shoulder; wherein the cross-sectional shape profile of the outer surface of the transition section in the plane of the longitudinal axis comprises a segment of an ellipse having semi-major axis (a); a semi-minor axis (b) and an exponential factor (n) according to the equation: (formula (I)), characterised in that the ratio of the semi-major to semi-minor axes (a:b) is within the range $2b < a < 8b$.

21: 2023/06873. 22: 2023/07/06. 43: 2024/12/09

51: E21B

71: Sandvik Mining and Construction Tools AB

72: JANSSON, Tomas, KRAFT, Conny

33: EP(SE) 31: 21157645.9 32: 2021-02-17

54: ELLIPTICAL DESIGN FOR HEXAGONAL SHANKS

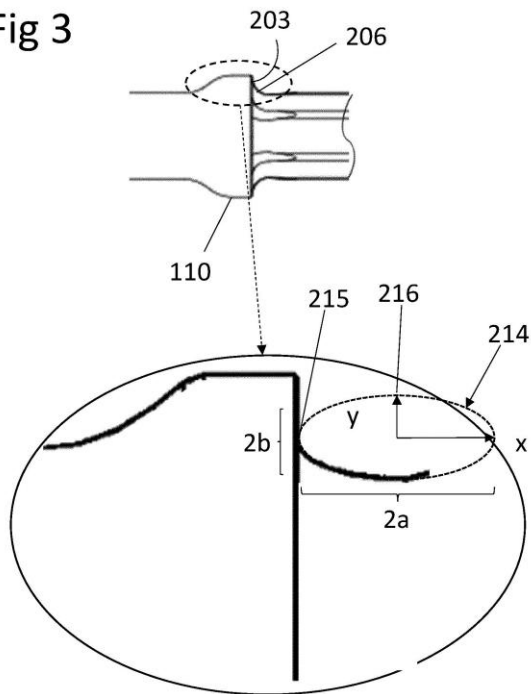
00: -

A rock drill component to form part of a drilling assembly, the rock drill component comprising: a main body; a hexagonal shank provided at one end of the rock drill component; a radially projecting shoulder positioned axially between the main body and the hexagonal shank; wherein there is a transition section increases in diameter in a direction from the hexagonal shank to the shoulder; wherein the cross-sectional shape profile of the outer surface of the transition section in the plane of the longitudinal axis comprises a segment of an ellipse having semi-major axis (a); a semi-minor axis (b) and an exponential factor (n) according to the equation (I) characterised in that the ratio of the

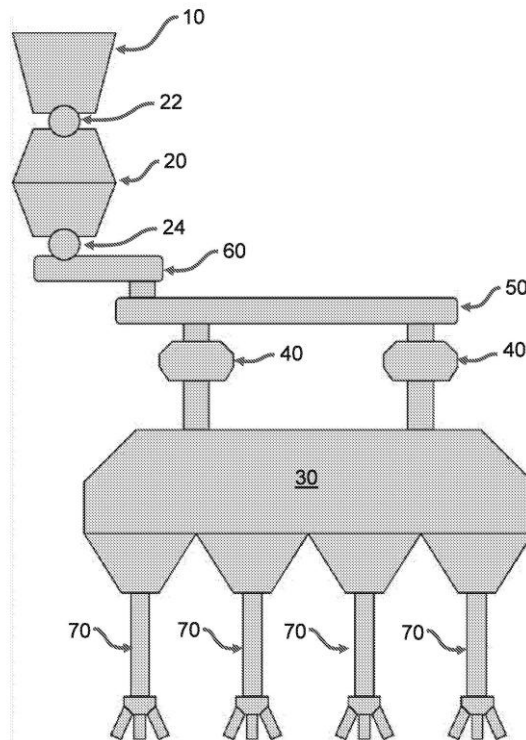
semi-major to semi-minor axes (a:b) is within the range $2b < a < 8b$.

$$(I) \quad \left| \frac{x}{a} \right|^n + \left| \frac{y}{b} \right|^n = 1$$

Fig 3



least two process silos (30), each process silo (30) being designed to receive a given type of load from the closed silo (20) and (vi) at least one distribution element (40) designed to distribute the different types of load in the respective process silos (30). The present invention also provides a method associated with the system described above.



21: 2023/07037. 22: 2023/07/12. 43: 2024/12/11
51: C21B; F27B; F27D

71: Tecnoed Desenvolvimento Tecnológico S.A.
72: FRÓIS, Fabrício Tinôco, MAIA, Luciano Augusto Morais, ALBERTO, Sandro Lopes, DE OLIVEIRA, Ronald Lopes

33: BR 31: 102021000742-7 32: 2021-01-15

54: SYSTEM AND METHOD FOR DISTRIBUTING LOADS IN A METAL FURNACE

00: -

The present invention relates to systems for distributing loads in a metal furnace. In this context, the present invention provides a system for distributing loads in a metal furnace, comprising (i) an open silo (10) designed to receive loads of different types, (ii) a closed silo (20) designed to transfer loads from the open silo (10) to a sealed area of the metal furnace, (iii) at least one upper sealed valve (22) positioned upstream of the closed silo (20), (iv) at least one lower sealed valve (24) positioned downstream of the closed silo (20), (v) at

21: 2023/07686. 22: 2023/08/03. 43: 2024/12/09
51: G01N

71: Marginum Oy
72: LEHTONEN, Samu Juhani Rafael, ELOMAA, Antti-Pekka, LESKINEN, Juho Hermanni, SEMENOV, Dmitry Vladimirovich

33: FI 31: 20215096 32: 2021-01-29

54: APPARATUS AND METHOD FOR DETECTING FLUORESCENCE

00: -

Disclosed is an apparatus (100) for detecting fluorescence of a sample (118, 119) obtained from an object, the sample (118, 119) comprising one or more fluorophores and representing a disease or condition, and the sample (118, 119) being transported away from the object in a transparent conduit (131). The apparatus comprises a housing (101) comprising one or more light sources (110) and one or more light receivers (120), and a

computing device (180). It is also disclosed a method for detecting fluorescence of a sample (118, 119) obtained from an object, the sample (118, 119) comprising one or more fluorophores and representing a disease or condition, and the sample (118, 119) being transported away from the object in a transparent conduit (131). Furthermore, it is disclosed uses of the apparatus (100) and a kit-of-parts comprising the apparatus (100).

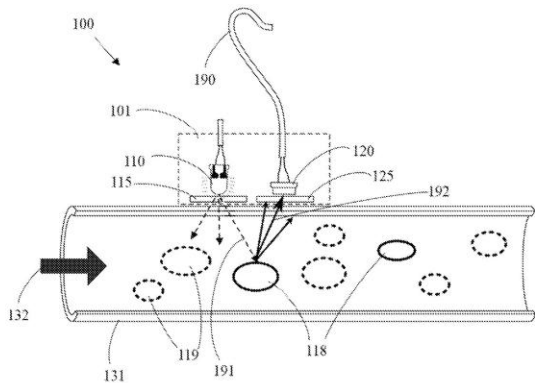


Fig. 3

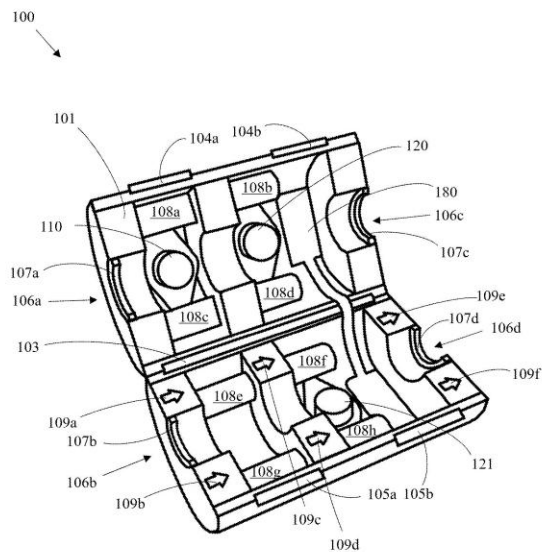
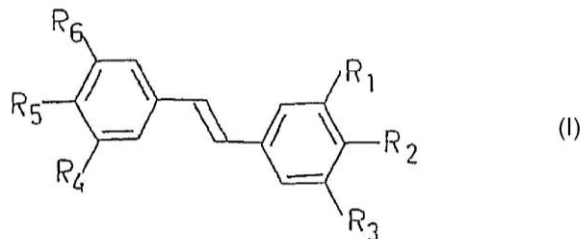


Fig. 4

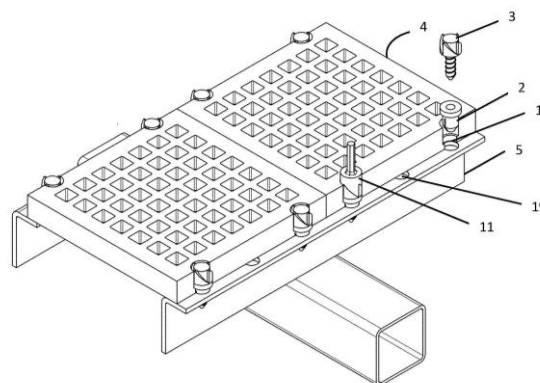
21: 2023/07970. 22: 2023/08/16. 43: 2024/12/09
 51: A61K; A61P
 71: SZEKERES, Thomas, JÄGER, Walter
 72: SZEKERES, Thomas, JÄGER, Walter
 33: EP (AT) 31: 21164854.8 32: 2021-03-25
 33: EP(AT) 31: 21164852.2 32: 2021-03-25
54: COMPOUNDS FOR USE IN THE TREATMENT AND PREVENTION OF COVID-19
 00: -

The invention discloses a compound with the general formula (I) wherein R₁ to R₆ are identical or not and are H, OH-, or OR₇, wherein R₇ is a C₁ to C₃ alkyl group or a C₁ to C₄ acyl group, with the proviso that at least four of R₁ to R₆ are different than H, for use in the treatment and prevention of COVID-19 in a human subject, especially for inhibiting SARS-CoV-2.



21: 2023/07994. 22: 2023/08/17. 43: 2024/12/10
 51: B07B; B25B; F16B
 71: Sandvik SRP AB
 72: FRIMAN, André, HENSSIEN, Adrien
 33: EP(SE) 31: 21157786.1 32: 2021-02-18
54: FASTENING ARRANGEMENT FOR SCREENING ASSEMBLY
 00: -

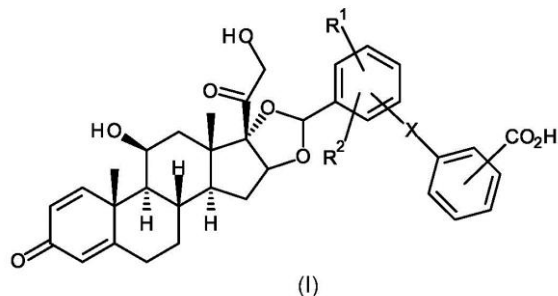
This disclosure relates to a fastening arrangement (1) in the form of a pin (3) and sleeve (2) combination for fixing one or more screening media modules (4) on top of screen support panel structure (5). The fastening arrangement (1) comprises a pin (3) capable of being screwed into a sleeve (2), the pin (3) being provided with engagement elements (9, 18a, 18b) capable of connecting with complementary projections (10a, 10b) on a handling tool (11) for facilitation of installing and dismantling the fastening arrangement (1). Also described in the disclosure is a method for fastening the screening media module (4) on to the screen support panel structure (5), and a screening equipment (6) housing the same for separating solid materials according to size.



21: 2023/07999. 22: 2023/08/17. 43: 2024/12/11

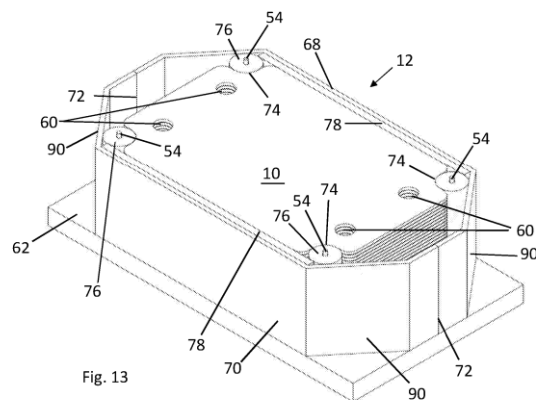
51: A61P; C07J
 71: Eli Lilly and Company
 72: STITES, Ryan Edward, WURST, Jacqueline Mary
 33: US 31: 63/164,592 32: 2021-03-23
**54: CARBOXY SUBSTITUTED
 GLUCOCORTICOID RECEPTOR AGONISTS**
 00: -

The present invention provides a compound of Formula I: (I) wherein R¹ is H, halogen, C1-C3 alkyl, or C1-C3 alkoxy; R² is H or halogen; and X is O, OCH₂, or CH₂, or a pharmaceutically acceptable salt thereof, wherein the compound of Formula I, or pharmaceutically acceptable salt thereof is useful for treating autoimmune and inflammatory diseases, such as atopic dermatitis, rheumatoid arthritis, and lupus nephritis.



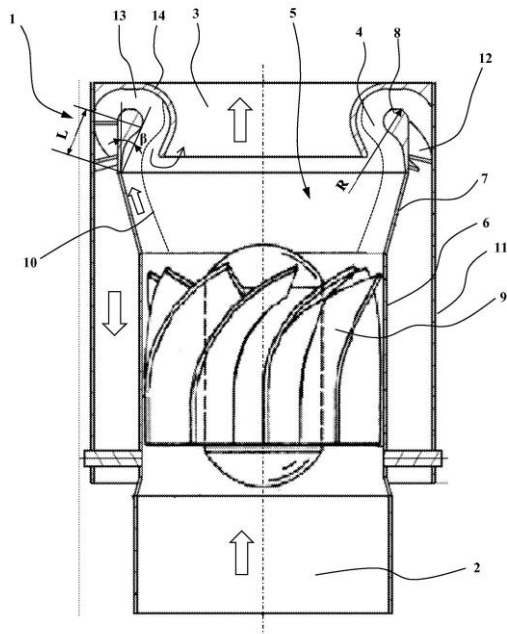
21: 2023/08053. 22: 2023/08/18. 43: 2025/01/29
 51: H01M
 71: CERES INTELLECTUAL PROPERTY COMPANY LIMITED
 72: BALLARD, Andrew, DOMANSKI, Tomasz, GAWEL, Duncan Albert Wojciech, THANDI, Rajan
 33: GB 31: 2102404.7 32: 2021-02-19
54: CELL STACK AND CELL STACK ASSEMBLY
 00: -

An electrochemical cell stack (12) comprising a plurality of stacked cell units (10), each defining an external perimeter, a housing (58) surrounding the stack (12) to define a volume around the external perimeters, and at least one electrically insulating beam (76), the beam (76) extending generally in a stacking direction of the stacked cell units (10), to extend across a multiple of the cell units (10), and located between the external perimeters thereof and the housing (58), wherein an electrical connection member (54) of the cell stack's current delivery system extends inside the electrically insulating beam (76).



21: 2023/08431. 22: 2023/08/31. 43: 2024/12/10
 51: F22B
 71: Andritz Oy
 72: RÖPPÄNEN, Jukka, KAREMA, Hannu
 33: FI 31: 20215337 32: 2021-03-25
**54: A WATER AND STEAM SEPARATOR OF A
 BOILER DRUM**
 00: -

A separator (1) of a boiler drum for separating steam and water, which separator (1) has a separating chamber (5) having a fluid inlet (2) at the bottom of the separating chamber (5) and a steam outlet (3) at the top of the separating chamber (5) and spiral vanes (9) are attached to the wall (6) of the separating chamber (5) between the fluid inlet (2) and the steam outlet (3) for accomplishing circular motion of the incoming fluids and wherein a circular water outlet (4) surrounds the steam outlet (3). Top end (8) of the wall (6) of the separating chamber (5) within the water outlet (4) has a rounded top contour for ensuring smooth flow and keeping a water trap (13) filled up at the top art of the water outlet (4) and it is preferably inclined inwards. The inclination at the top end (8) of the wall (6) is preferably concave.



21: 2023/08712. 22: 2023/09/12. 43: 2025/01/29
 51: A61K; C07K
 71: UNIVERSITY OF COPENHAGEN
 72: SEREIKAITĖ, Vita, BECH-BARTLING, Christian Reinhard Otto, STRØMGAARD, Kristian
 33: EP 31: 21173587.3 32: 2021-05-12
54: PSD-95 INHIBITORS AND USES THEREOF

00: -
 The present invention relates to compounds capable of binding to the PDZ domains of PSD-95 and their medical use as inhibitors of protein-protein interaction mediated by PSD-95.

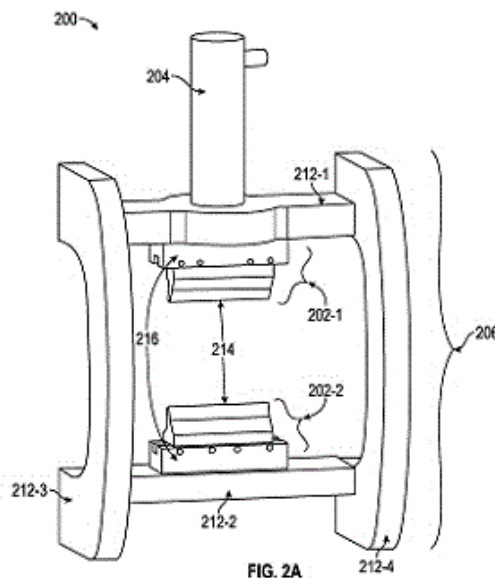
21: 2023/08906. 22: 2023/09/20. 43: 2025/01/13
 51: C08J
 71: NEXAM CHEMICAL AB
 72: ANDREASSON, Urban
 33: SE 31: 2150424-6 32: 2021-04-06
54: PROCESS OF RECYCLED POLYPROPYLENE

00: -
 Improve properties of recycled post-consumer and/or post-industrial polypropylene by adding ethylene copolymer (B) comprising hydrolysable silicon- containing groups.

21: 2023/08952. 22: 2023/09/21. 43: 2024/12/10
 51: E02F; B25B
 71: CATERPILLAR INC.
 72: WURMNEST, KYLE R, KUNZ, PHILLIP J

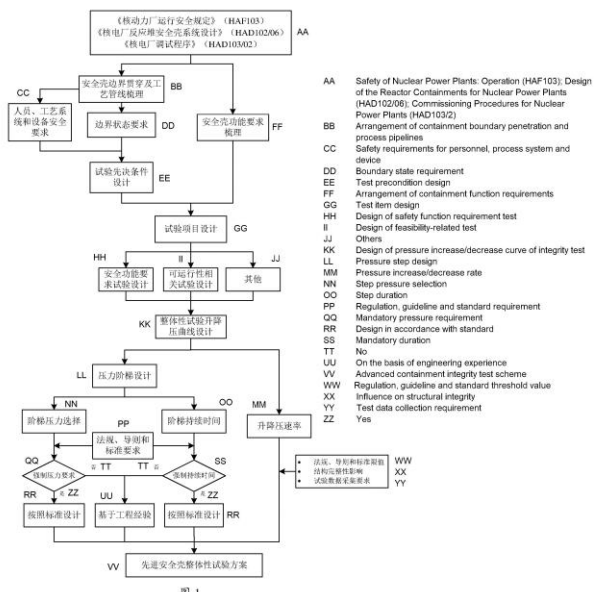
33: US 31: 17/211,560 32: 2021-03-24
54: WEAR PART REMOVAL SYSTEM

00: -
 A wear part removal system includes a first wedge assembly configured to engage with a first joint associated with a wear part; a second wedge assembly configured to engage with a second joint associated with the wear part; a ram component configured to cause the first wedge assembly to engage with the first joint associated with the wear part and to cause the second wedge assembly to engage with the second joint associated with the wear part; and a frame configured to hold the first wedge assembly, the second wedge assembly, and the ram component. A wedge assembly, of the first wedge assembly or the second wedge assembly, includes a wedge component configured to engage with a joint associated with the wear part and a wedge component saddle configured to hold the wedge component.



21: 2023/09104. 22: 2023/09/27. 43: 2024/12/10
 51: G21C
 71: China Nuclear Power Engineering Co., Ltd.
 72: XING, Ji, TIAN, Qiwei, ZHAO, Xia, SUN, Tao, LIU, Yong, SHANG, Chen, YANG, Xiaoyan, DU, Yu, WU, Xipan, ZHENG, Shijian, CHEN, Wei
 33: CN 31: 202110312538.6 32: 2021-03-24
54: DESIGN METHOD AND APPARATUS FOR CONTAINMENT INTEGRITY TEST OF ADVANCED PRESSURIZED WATER REACTOR NUCLEAR POWER PLANT

00: -
 A design method and design apparatus for a containment integrity test of an advanced pressurized water reactor nuclear power plant. The design method comprises: determining each test item during a containment integrity test; determining pressure steps and corresponding durations in each test item; determining an upper limit of a pressure increase/decrease rate of the containment integrity test; and obtaining a design result of a containment integrity test scheme according to the determined test items, the pressure steps and the corresponding durations in each test item, and the upper limit of the pressure increase/decrease rate of the containment integrity test. By means of an integrity test scheme obtained according to the design method, the safety and the feasibility of a test can be ensured to the greatest extent, and the economy of a nuclear power plant can also be improved.



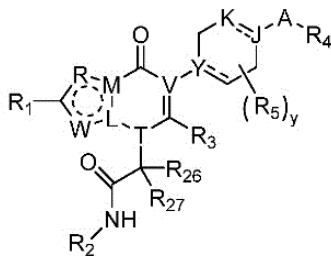
21: 2023/09331. 22: 2023/10/05. 43: 2025/01/29
 51: A01N; A01P
 71: LEVITY CROP SCIENCE LTD
 72: MARKS, David, WESTON, Anna
 33: GB 31: 2102806.3 32: 2021-02-26
54: AGRICULTURAL COMPOSITION FOR ENHANCED SILICON UPTAKE AND DISTRIBUTION IN PLANTS
 00: -
 The invention relates to an agricultural composition which comprises (i) a water-soluble source of silicon

and (ii) a silicon transport stimulant comprising an aryl substituted urea.



21: 2023/10237. 22: 2023/11/02. 43: 2024/12/10
 51: A61K; C07D; A61P
 71: NOVARTIS AG
 72: BORDAS, Vincent, BRUN, Jvan, DECKER, Andrea, FUREGATI, Markus, GOGNIAT, Geoffrey, GONG, Wanben, HAMON, Jacques, HINRICHS, Juergen Hans-Hermann, HOLZER, Philipp, LIMAM, Fatma, MOEBITZ, Henrik, NOCITO, Sandro, PLATTNER, Simone, SCHMIEDEBERG, Niko, SCHOEPFER, Joseph, SOTO, Jessica, STRANG, Ross, YAO, Shuping, YU, Huangchao, ZECRI, Frédéric, ZHANG, Sisi
 33: CN 31: PCT/CN2021/096104 32: 2021-05-26
 33: CN 31: PCT/CN2022/085537 32: 2022-04-07
54: TRIAZOLO-PYRIMIDINE ANALOGUES FOR TREATING DISEASES CONNECTED TO THE INHIBITON OF WERNER SYNDROME RECQ HELICASE (WRN)
 00: -

The present invention provides a compound, or a pharmaceutically acceptable salt thereof, of formula (I): (I) wherein R1, R2, R3, R4, R5, R26, R27, y, R, M, W, L, V, T, Y, J, K and A are as described herein, therapeutic uses of said compounds, uses of said compounds as research chemicals, a pharmaceutical composition and combinations comprising said compounds, and methods for manufacturing the compounds of the invention



(I)

21: 2023/10278. 22: 2023/11/03. 43: 2024/12/09
 51: A61K; A61P
 71: SK BIOPHARMACEUTICALS CO., LTD.
 72: PENDSE, Pravada, BOMMANA, Murali M, NOH,
 Regina H., PEGAN, Augustin, WEBB, Travis John,
 MAXWELL, Jejuan

33: US 31: 63/194,276 32: 2021-05-28

54: ORAL AQUEOUS SUSPENSION FORMULATIONS COMPRISING CARBAMATE COMPOUND

00: -
 The present disclosure relates to an aqueous formulation comprising as an active ingredient a carbamate compound of Formula 1, or a pharmaceutically acceptable salt, solvate or hydrate thereof, poloxamer, and an aqueous carrier, wherein the aqueous formulation is in the form of a suspension formulation



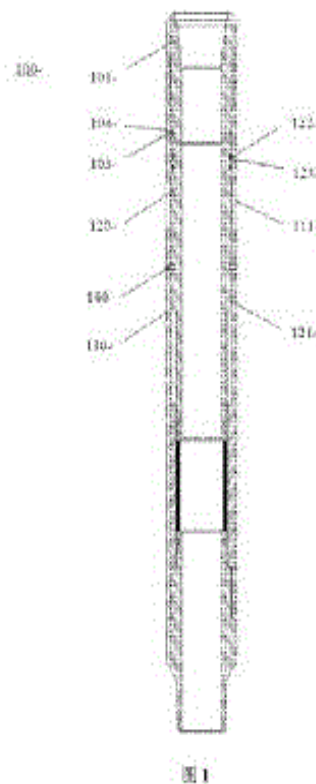
(A: 10 min, B: 5hr, C: 24hr; Left to right: 0.10, 0.50, 1.00, and 1.50 mg/mL poloxamer 188)

21: 2023/10322. 22: 2023/11/06. 43: 2025/02/07
 51: E21B
 71: CHINA PETROLEUM & CHEMICAL CORPORATION, SINOPEC SOUTHWEST OIL & GAS COMPANY
 72: HU, Shunqu, LIN, Yongmao, ZHAO, Wei, LEI, Wei, XIE, Zhi, HOU, Zhimin, CHEN, Chen, WANG, Qiang, HU, Dan, CUI, Jingyu

54: DIFFERENTIAL PRESSURE SLIDING SLEEVE, AND OIL AND GAS WELL FRACTURING CONSTRUCTION METHOD USING SAME

00: -
 The present invention provides a differential pressure sliding sleeve, comprising: an outer

cylinder, wherein a flow guide hole is provided in a wall of the outer cylinder; an inner cylinder, which is disposed in an inner cavity of the outer cylinder, wherein in an initial state, the inner cylinder and the outer cylinder are fixed to each other to close the flow guide hole; an upper connector, which extends into the outer cylinder and is fixedly connected to the upper end of the outer cylinder, wherein a gap is reserved between a lower end face of the upper connector and an upper end face of the inner cylinder; a lower connector, which extends into the outer cylinder and is fixedly connected to the lower end of the outer cylinder; and a bearing ring, which is arranged between the lower connector and the inner cylinder, wherein the bearing ring can dissolve under the action of a working fluid. The area of an axial upper end face of the inner cylinder is set to be larger than the area of an axial lower end face thereof, so that the working fluid can form a pressure difference between the axial upper end face and the axial lower end face of the inner cylinder to provide a downward pressure for the inner cylinder. Thus, the inner cylinder can move downwards under the action of the pressure after the bearing ring dissolves, so as to open the flow guide hole.



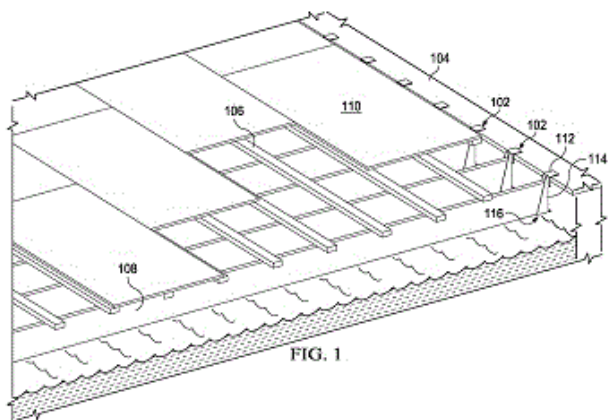
21: 2023/10579. 22: 2023/11/14. 43: 2024/12/05
51: E04H; E04B

71: COLHURST CONCEPTS, LLC
72: OVALLE, ITALIA MARISOL, RAMIREZ, LUIS FERNANDO, WAGNER, SHERWOOD NOËL

33: US 31: 17/340,715 32: 2021-06-07

54: TEMPORARY POOL COVER AND FLOOR SYSTEM

00: -
The innovation relates to a pool covering system that is usable as a flooring surface. The pool covering system includes brackets and support beams spanning the pool opening. The beams provide structural support to cross members and flooring placed on top of the beams. The pool covering system does not require significant drainage of the pool and does not damage the pool structure during installation and use.



21: 2023/10791. 22: 2023/11/22. 43: 2024/12/05
51: B01D

71: BASF SE
72: ZHOU, Yunfei, LANG, Ortmund, MEIER, Matthias, Wilhelm, DE RUITER, Cornelis, Hendricus, KRAMP, Marvin, GRACKIEWICZ, Gregor, MACHT, Josef, GITTER, Markus, HECHLER, Claus

33: EP 31: 21170447.3 32: 2021-04-26

54: DEVICE AND METHOD FOR SEPARATING LIQUID DROPLETS FROM A GAS STREAM BY MEANS OF A CENTRIFUGAL MIST ELIMINATOR

00: -
The invention relates to a centrifugal mist eliminator for separating liquid droplets from a gas stream, comprising: - a shell (1), which has a circular cross-section and a vertical longitudinal axis (11); - an upper hood (2), which delimits the shell (1) at the top and has a gas outlet connecting piece (7) for the gas

stream purified in the centrifugal mist eliminator; - a drip plate (8), which is disposed below the gas outlet connecting piece (7); - a lower hood (10), which delimits the shell (1) at the bottom and which has a liquid outlet connecting piece (4) for discharging the separated liquid droplets; and - an inlet (3) for feeding the gas stream, the inlet leading tangentially into the shell (1); the centrifugal mist eliminator being characterized in that at least two nozzles (9) for feeding a stabilizer liquid into the interior of the centrifugal mist eliminator are provided, the nozzle outlet (15) of each nozzle being disposed between the tangential inlet (3) and the drip plate (8) in the vertical direction, and the main spray direction (12) of the nozzles (9) being directed upward at an interior angle of 0 to 60° to the vertical longitudinal axis (11). The invention also relates to a method for separating liquid droplets from a gas stream in a centrifugal mist eliminator of this type.

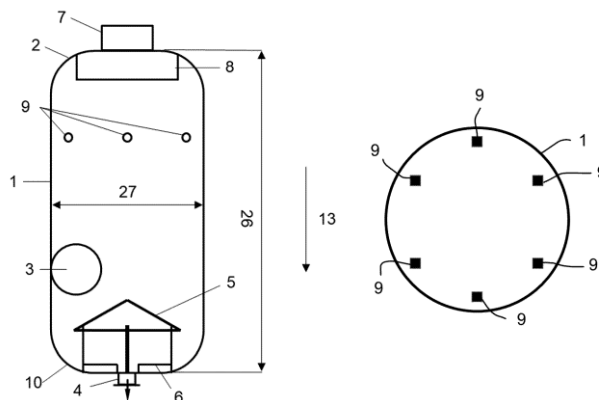


Fig. 1.

21: 2023/10821. 22: 2023/11/23. 43: 2025/01/13
51: C07C; C08J

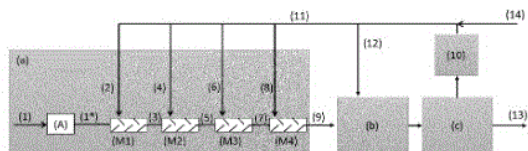
71: IFP ENERGIES NOUVELLES, JEPLAN, INC.
72: HAROUN, Yacine, CHARRA, Cyprien

33: FR 31: FR2106437 32: 2021-06-17

54: METHOD FOR DEPOLYMERISING A POLYESTER FILLER COMPRISING A PRE-MIXING STAGE OF THE FILLER

00: -
The invention relates to a method for depolymerising a polyester filler, comprising: a) conditioning the filler by implementing a means for at least partially melting the filler and at least one mixer, which are supplied by the filler, and a diol stream, with a weight ratio of diol stream to filler of between 0.01 and 6.00, the volumetric dilution level of diol in each mixer

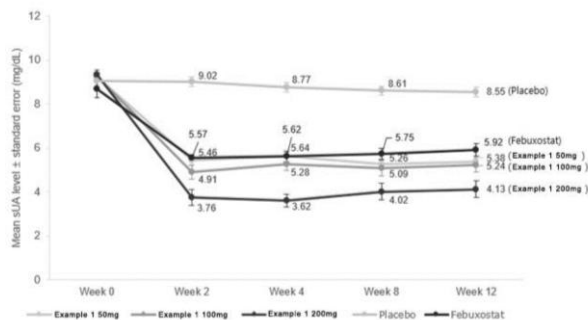
being between 3% and 70%; b) depolymerising the polyester filler at 150-300°C, the weight ratio of diol to diester in step b) being adjusted to between 0.3 and 8.0; c) optionally separating the diol at a temperature of between 60 and 250°C and at a lower pressure than that of step b).



21: 2023/11237. 22: 2023/12/06. 43: 2024/12/11
 51: A61K A61P
 71: LG CHEM, LTD.
 72: LEE, Jieun, GWAK, Heemin, SHIN, Seong Hye, MIN, Ji Young, KIM, Min Hee, KIM, Junyu, SEO, Jung Youn, MUN, June Sik

33: KR 31: 10-2021-0077709 32: 2021-06-15
54: PHARMACEUTICAL COMPOSITION COMPRISING 1-(3-CYANO-1-ISOPROPYL-INDOL-5-YL)PYRAZOLE-4-CARBOXYLIC ACID

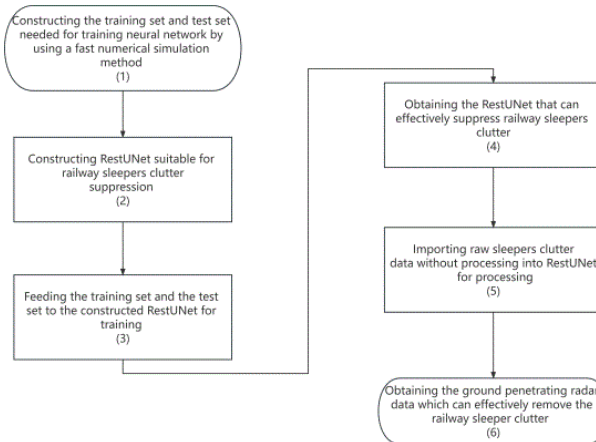
00: -
 The present invention relates to: a pharmaceutical composition comprising 1-(3-cyano-1-isopropyl-indol-5-yl)pyrazole-4-carboxylic acid, or a pharmaceutically acceptable salt thereof; and a method for preventing or treating hyperuricemia-related diseases using same. The pharmaceutical composition according to the present invention can effectively reduce the blood uric acid concentration of a patient with a hyperuricemia-related disease.



21: 2023/11268. 22: 2023/12/07. 43: 2024/06/07
 51: G01V
 71: Central South University
 72: Jianping XIAO, Zhihang LIU, Zhenwei GUO, Bochen WANG
 33: CN 31: 2023101097450 32: 2023-02-14

54: A DEEP LEARNING PROCESSING METHOD OF GROUND PENETRATING RADAR SIGNAL FOR SUPPRESSING STRONG CLUTTER REFLECTED FROM SLEEPERS

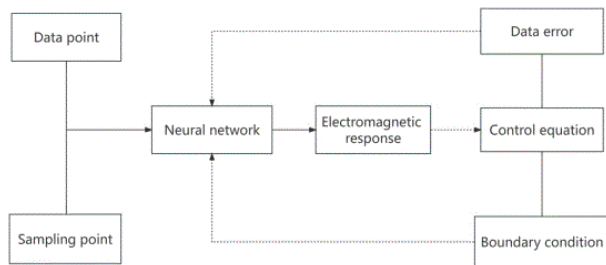
00: -
 The present invention discloses a deep learning processing method of ground penetrating radar signal for suppressing strong clutter reflected from sleepers, the steps are as follows: constructing the training set and test set needed for training neural network by using a fast numerical simulation method; constructing a RestUNet suitable for ground penetrating radar signal processing based on an in-depth learning framework; the constructed training set and test set are used to train RestUNet; RestUNet continuously learns to extract effective information to suppress sleepers clutter during the training process; finally, obtaining the trained RestUNet that can be used to suppress railway sleepers clutter, importing the original data into the trained RestUNet for prediction; obtaining the ground penetrating radar data which can effectively remove the sleepers clutter. The clutter of sleepers in the radar signal of railway subgrade processed by the present invention is suppressed, which greatly improves the signal-to-noise ratio of ground penetrating radar signal, and facilitates the identification of railway subgrade disease characteristics.



21: 2023/11271. 22: 2023/12/07. 43: 2024/06/07
 51: G01V
 71: Central South University
 72: Zhenwei GUO, Bochen WANG, Jianxin LIU, Dawei GAO, Xinpeng PAN
 33: CN 31: 2023113856423 32: 2023-10-25

54: A METHOD FOR SOLVING ELECTROMAGNETIC RESPONSE OF GEO-ELECTRIC MODEL BY USING PHYSICS INFORMED NEURAL NETWORK

00: -
 The present invention provides a method for solving electromagnetic response of geo-electric model by using physics informed neural network, the method comprises: firstly, obtaining the spatial coordinates of the known data points, and extracting sampling points from the calculation area of the geo-electric model to be solved to obtain its spatial coordinates; then, the electromagnetic field values corresponding to the spatial coordinates of the data points and the sampling points are calculated and output by using the neural network; then, the residual error between the output and the real electromagnetic response obtained by inputting the data point coordinates into the neural network is used as the data error of the loss function, and the electromagnetic control equations and boundary conditions satisfied by all points are added to the loss function as physical constraints; finally, the spatial distribution of the electromagnetic response of the geo-electric model can be obtained by the automatic differential technique and the error back propagation minimization loss function; at this point, the physics informed neural network can be used to solve the electromagnetic response at any position in the geo-electric model.



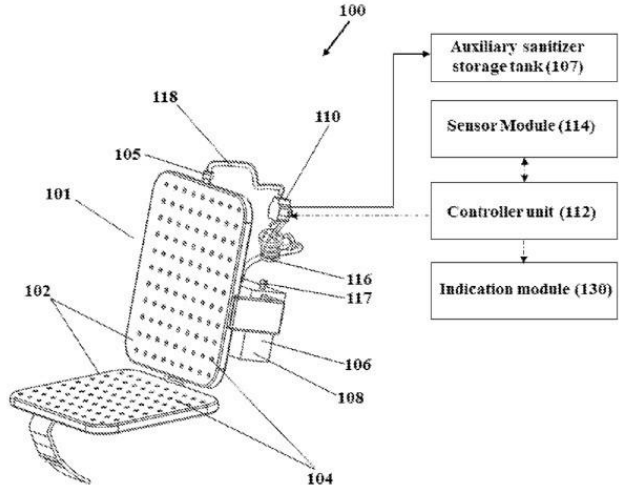
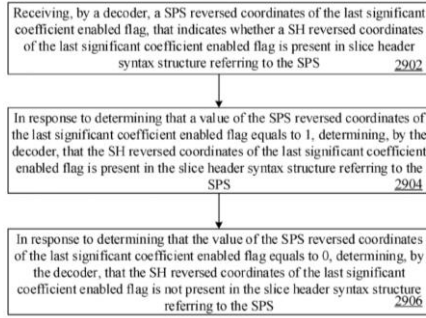
21: 2024/00358. 22: 2024/01/10. 43: 2025/02/11
 51: C08J
 71: HUANGSHAN MEISEN NEW MATERIAL TECHNOLOGY CO., LTD.
 72: SHENG, Yuejin, ZHAO, Xiaoliang, WEI, Huaikun
 33: IB 31: PCT/CN2023/127280 32: 2023-10-27
54: HIGH-STRENGTH, DURABLY- FLAME RETARDANT, AND SEAWATER CORROSION-RESISTANT PLASTIC-WOOD COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF

00: -
 The present invention belongs to the technical field of composite materials, particularly relating to a high-strength, durably-flame retardant, seawater corrosion-resistant plastic-wood composite material and a preparation method thereof. The material is prepared from modified wood flour, melamine formaldehyde resin (MF), polyvinyl chloride (PVC), vinyl chloride-vinyl acetate resin (VCVAC). The wood flour used is obtained by modified reaction of melamine and formaldehyde solution catalyzed by citric acid on the surface of wood flour and then drying. The wood flour enhances compatibility with MF. During preparation of the composite material, PVC is partially self-crosslinked in the forming process to form crosslinked PVC so that final products have excellent static bending strength and tensile strength and durable flame retardance, the flame retardance will not be significantly reduced after boiling with simulated seawater for 172 h, the surface has no significant change, so the present invention is suitable for plank roads of seaside spots.

21: 2024/00377. 22: 2024/01/10. 43: 2025/02/14
 51: H04N
 71: Beijing Dajia Internet Information Technology Co., Ltd
 72: JHU, Hong-Jheng, XIU, Xiaoyu, CHEN, Yi-Wen, CHEN, Wei, KUO, Che-Wei, YAN, Ning, WANG, Xianglin, YU, Bing
 33: US 31: 63/215,961 32: 2021-06-28

54: RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING

00: -
 Methods, apparatuses, and non-transitory computer-readable storage mediums are provided for video decoding. In one method, a decoder receives a Sequence Parameter Set (SPS) coefficient enabled flag that indicates whether a slice header (SH) coefficient enabled flag is present in slice header syntax structure referring to the SPS. In a second method, the decoder may receive a Sequence Parameter Set (SPS) transform precision adaptation enabled flag that indicates whether downshifts in a scaling process for transform coefficients and in a transformation process for scaled transform coefficients are adaptively assigned by examining coefficients values of dequantization and inverse transform.



21: 2024/00390. 22: 2024/01/11. 43: 2025/01/23
 51: B60H; B60R; B60S
 71: MAHINDRA & MAHINDRA LIMITED
 72: Shankar S ANAND, Venugopal SHANKAR, N PRASANNA

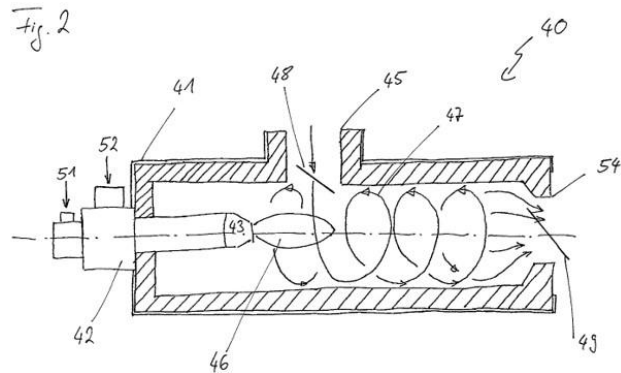
33: IN 31: 202141028051 32: 2021-06-22
54: SYSTEM FOR SANITIZING USER SPACE OF A VEHICLE AND METHODS THEREOF

00: -
 Disclosure herein relate to a sanitization system comprising at least one sanitizer dispensing unit integrated in a seat cover for sanitizing user space in a vehicle. Further, disclosure herein relate to a method for sanitizing the user space of the vehicle. Furthermore, disclosure herein relate to a method for estimating degree of sanitization required in the user space. Disclosure herein relate to a method for estimating the degree of sanitization required in user space, wherein the system can effectively sanitize the user space in vehicle and intimating the hygiene status of vehicle before passenger starting the ride thereby protecting passengers from exposure to potentially harmful microbes accumulated on passenger seats as well other interior spaces in the vehicle.

21: 2024/00394. 22: 2024/01/11. 43: 2025/01/23
 51: C04B; F27B
 71: LOESCHE GMBH
 72: Holger WULFERT, Martin REFORMAT, David LINDL, Ralf FINK

54: CLAY CALCINING PLANT

00: -
 The invention relates to a clay calcining plant for activating clay, as the feed material, containing at least 40% thermally activatable phyllosilicates. The plant has a rotary furnace with a furnace inlet and a furnace outlet, feed material being thermally treated while being conveyed through the rotary furnace. Also provided are a gas feed at the furnace outlet and a gas discharge at the furnace inlet. The clay calcining plant also has a mixing chamber for generating a flow of calcining gas having a homogenous temperature, a burner being provided for generating smoke gas, and a process gas feed being provided for supplying warm process gas.



21: 2024/00411. 22: 2024/01/11. 43: 2024/12/10
 51: B64F; H05B

71: ADB Safegate BV
 72: MENÉ, Luca, JELU, André, PENNINCKX, Wim
 33: EP(BE) 31: 21186220.6 32: 2021-07-16

54: AIRPORT SIGNALLING SYSTEM WITH ULTRA-WIDEBAND COMMUNICATION CAPABILITY

00: -
 Airport signalling system, comprising: at least one signalling unit (200), each comprising at least one airport signalling device and a first communication device; a control unit configured to control operation of the at least one signalling unit (200), a central communication unit operably coupled to the control unit and configured for data communication with at least one signalling unit (200), characterised in that the at least one signalling unit (200) comprises at least two signalling units (200) including each a first communication device configured to receive and/or transmit ultra-wideband pulse radio signals and in that said the at least two signalling units (200) are configured to exchange ultra-wideband pulse radio signals through their respective first communication device.

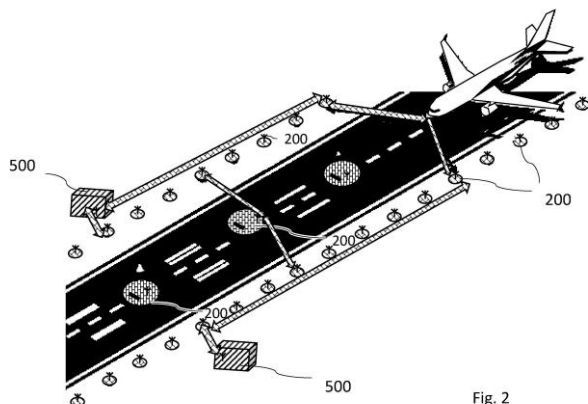


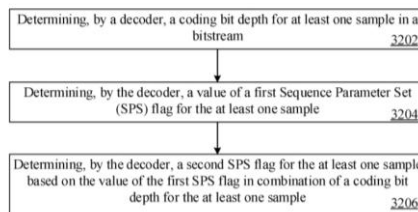
Fig. 2

21: 2024/00506. 22: 2024/01/15. 43: 2025/01/23
 51: H04N
 71: Beijing Dajia Internet Information Technology Co., Ltd
 72: JHU, Hong-Jheng, XIU, Xiaoyu, CHEN, Yi-Wen, CHEN, Wei, KUO, Che-Wei, YAN, Ning, WANG, Xianglin, YU, Bing
 33: US 31: 63/220,380 32: 2021-07-09

54: RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING

00: -
 Methods, apparatuses, and non-transitory computer-readable storage mediums are provided for video decoding. In one method, a decoder determines a

coding bit depth for at least one sample in a bitstream; the decoder determines a value of a first Sequence Parameter Set (SPS) flag for at least one sample; and the decoder further determines a second SPS flag for at least one sample based on the value of the first SPS flag in combination of a coding bit depth for the at least one sample.



21: 2024/00743. 22: 2024/01/22. 43: 2025/01/28
 51: A01N; A01P
 71: SIPCAM OXON S.P.A.
 72: Elisa GALIMBERTI, Claudio DACARRO, Giovanni POZZI, Stefano CIANNAMEA, Pietro QUERZOLA, Alessandra FRATANGELI, Francesca BORGIO

33: IT 31: 102021000021707 32: 2021-08-10

54: PHYTOSANITARY COMBINATIONS COMPRISING CARVACROL, COMPOSITIONS AND THEIR USE

00: -
 The present invention refers to novel phytosanitary combinations comprising carvacrol, the compositions and the kits comprising said combinations and their use on pathogens of agricultural crops.

21: 2024/00907. 22: 2024/01/26. 43: 2025/02/12
 51: B21B

71: SMS GROUP GMBH
 72: Markus FISCHER, Guido FICK, Michael SCHÄFER, Michael BREUER

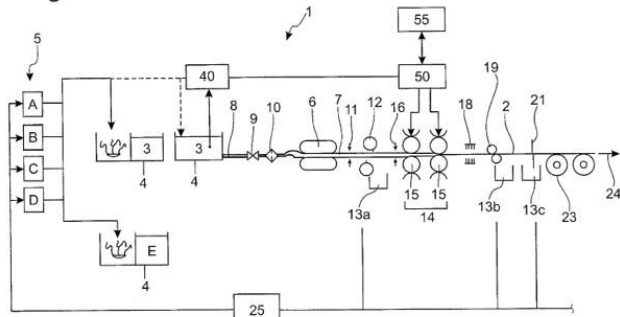
33: DE 31: 10 2021 208 437.0 32: 2021-08-04

54: METHOD FOR PRODUCING AN ALUMINUM STRIP AND CASTING-ROLLING SYSTEM FOR PRODUCING AN ALUMINUM STRIP

00: -
 The invention relates to a method for producing an aluminum strip (2) in a coupled casting-rolling process, comprising the method steps: a) melting an aluminum raw material comprising at least one aluminum alloy in at least one melting assembly (4), b) determining the alloy composition of the melt (3), c) casting the melt (3) to form a hot-rolled strip by means of at least one strip-casting machine (6), d)

rolling the hot-rolled strip in a rolling system (14) comprising at least one rolling device for shaping the hot-rolled strip for thickness and/or width reduction, and e) regulating and/or controlling at least one shaping parameter of the rolling system (14) as a function of the alloy composition of the melt (3). The invention also relates to a casting-rolling system (1) for carrying out the method.

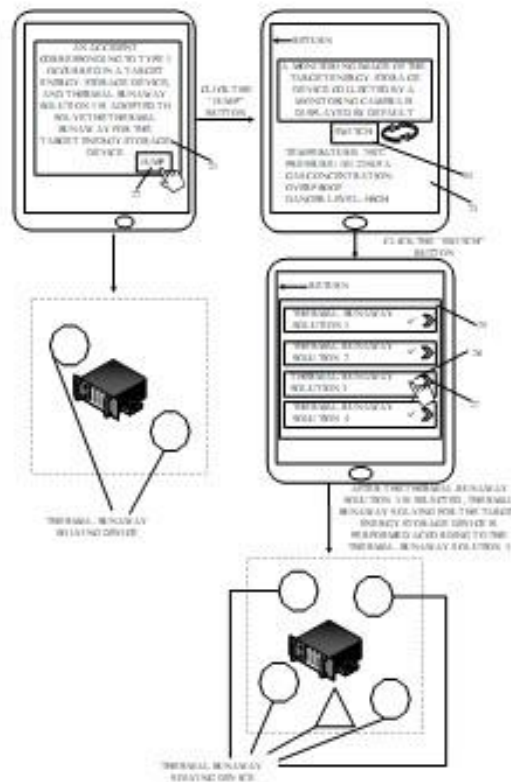
Fig. 1



21: 2024/01138. 22: 2024/02/05. 43: 2025/02/10
 51: A62C; G08B; H01M; H04L; H04N
 71: SHENZHEN HITHIUM ENERGY STORAGE TECHNOLOGY CO., LTD., XIAMEN HITHIUM ENERGY STORAGE TECHNOLOGY CO., LTD.
 72: JIANG, Huaiyu
 33: CN 31: 202211507855.4 32: 2022-11-29
54: METHOD FOR REMOTELY SOLVING THERMAL RUNAWAY AND RELATED PRODUCTS

00: -
 A method for remotely solving thermal runaway and related products are provided in implementations of the disclosure. The method is applied to a user terminal in a system for remotely solving thermal runaway, and include the following. At least one monitoring datum transmitted by at least one monitoring terminal and related to at least one energy-storage device is received at a preset frequency. When at least one of the at least one monitoring datum is greater than a threshold, an energy-storage device related to the at least one of the at least one monitoring datum is determined as a target energy-storage device. An accident type of the target energy-storage device is determined according to the at least one of the at least one monitoring datum, a first prompt message is generated, and the first prompt message is presented to a user in multiple manners. By implementing the method of implementations in the

disclosure, the user terminal can control, according to a specific thermal-runaway solution, a thermal-runaway solving device to solve the thermal runaway for an abnormal energy-storage device, facilitating reducing a difficulty for the user to solve the thermal runaway for the energy storage device.



21: 2024/01170. 22: 2024/02/06. 43: 2025/02/14
 51: C21D; C22C
 71: ARCELORMITTAL
 72: Dorien DE KNIJF, Tom WATERSCHOOT, Ulrike LORENZ, Lode DUPREZ, Lieven BRACKE
54: HOT ROLLED AND STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF

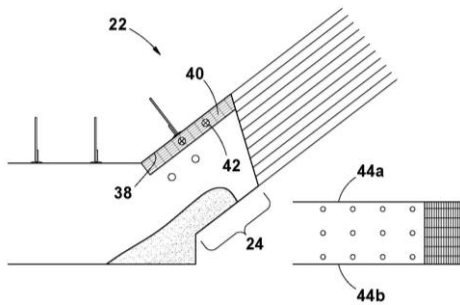
00: -
 A hot rolled steel sheet having a composition comprising of elements, $0.02\% \leq \text{Carbon} \leq 0.2\%$, $3\% \leq \text{Manganese} \leq 9\%$, $0.2\% \leq \text{Silicon} \leq 1.2\%$, $0.9\% \leq \text{Aluminum} \leq 2.5\%$, $0\% \leq \text{Phosphorus} \leq 0.03\%$, $0\% \leq \text{Sulfur} \leq 0.03\%$, $0\% \leq \text{Nitrogen} \leq 0.025\%$, $0\% \leq \text{Molybdenum} \leq 0.6\%$, $0\% \leq \text{Titanium} \leq 0.1\%$, $0.0001\% \leq \text{Boron} \leq 0.01\%$, $0\% \leq \text{Chromium} \leq 0.5\%$, $0\% \leq \text{Niobium} \leq 0.1\%$, $0\% \leq \text{Vanadium} \leq 0.2\%$, $0\% \leq \text{Nickel} \leq 1\%$, $0\% \leq \text{Copper} \leq 1\%$, $0\% \leq \text{Calcium} \leq 0.005\%$, $0\% \leq \text{Magnesium} \leq 0.0010\%$ the remainder composition being composed of iron and unavoidable impurities caused by processing, the

microstructure of said steel sheet comprising in area fraction, at least 60% of tempered martensite, 15% to 40% residual austenite, 0% to 10% polygonal ferrite, 0% to 5% of bainite, 0 to 15% of fresh martensite and 0% to 5% of carbides of Niobium, Titanium, Vanadium or Iron.

21: 2024/01229. 22: 2024/02/07. 43: 2024/12/10
 51: E21C; F42D
 71: ROOTS SEUTLWADI INVESTMENTS (PTY) LTD
 72: PEGA, Patrick, SCHMUCKER, Charles
 33: ZA 31: 2022/12099 32: 2022-11-07

54: A MINING METHOD FOR DRILLING AND BLASTING OF A TRAVELLING WAY OF A MINE
 00: -

The invention relates to a mining method for drilling and blasting of a travelling way of a mine. Stabilizing a roof portion of the travelling way of the mine. Drilling a plurality of holes into solid rock material of the travelling way from a base portion of the travelling way at an angle in the range of 34 to 40 degrees, wherein the plurality of holes extend along at least a portion of a length of the travelling way. Inserting explosive material into a majority of the plurality of holes, wherein the explosive material inserted into each hole extends along at least a portion of a length of the hole. Blasting the solid rock material using the explosive material to create a clearance within the travelling way which is equal to a length of the explosive material which extends along at least the portion of the length of the hole.

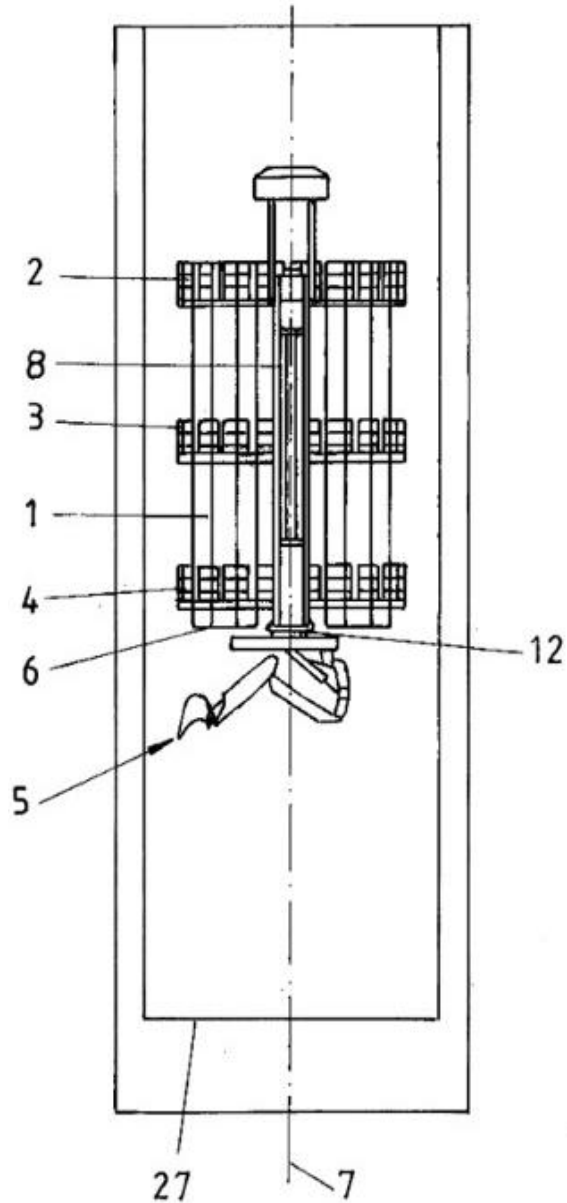


21: 2024/01236. 22: 2024/02/08. 43: 2025/02/14
 51: E21D
 71: REDPATH DEILMANN GMBH
 72: Frank KRISTEK, Patrick JAKOB, Uwe RÜPING
 33: DE 31: 10 2021 122 241.9 32: 2021-08-27

54: SHAFT EXCAVATOR

00: -
 A work platform (1) is used to install installations in vertically extending shafts in mining and tunnel

construction, the work platform being led hanging on one or a plurality of cables and having at least one work level (2, 3, 4). Below the work platform (1), a height-adjustable shaft excavator (5) used to remove and/or take away blasted debris is provided.



21: 2024/01257. 22: 2024/02/09. 43: 2025/02/14
 51: C21C; F27B; F27D; G01N
 71: PROMECON PROCESS MEASUREMENT CONTROL GMBH
 72: Hans Georg CONRADS, Matthias MÄDE
 33: DE 31: 10 2021 004 593.9 32: 2021-09-10

54: METALLURGICAL MELTING FURNACE, AND METHOD FOR DETERMINING THE AMOUNT OF HETEROMOLECULAR GAS

00: -
 The invention relates to a metallurgical melting furnace comprising a furnace vessel, a waste-gas discharge device which is arranged thereon and is intended for discharging a waste gas stream, and an air-supply opening for supplying air to the waste gas stream. According to the invention, a photodiode is arranged on the waste-gas discharge device downstream of the air-supply opening so as to be spaced from a measurement opening. The electromagnetic radiation generated by the hot molecules in the interior of the waste-gas discharge device is then detected and statistically analysed. The invention also relates to a method for determining the amount of heteromolecular gas and to a method for determining the temperature of the gas.

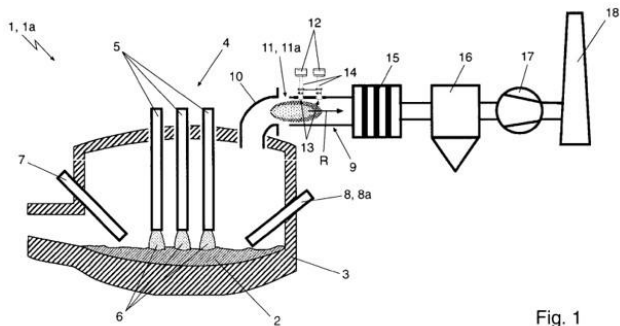
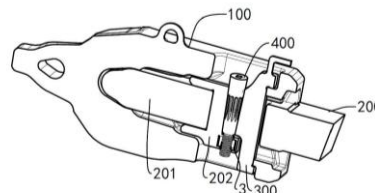


Fig. 1

21: 2024/02687. 22: 2024/04/08. 43: 2025/01/02
 51: E21D
 71: NINGBO HESHUN NEW MATERIALS CO., LTD.
 72: MEIKANG REN, HUI LI
 33: CN 31: 202410068311.5 32: 2024-01-17
54: STABLE CONNECTION SYSTEM FOR FIXING WORN PART OF EXCAVATION EQUIPMENT AND ASSEMBLY METHOD THEREOF

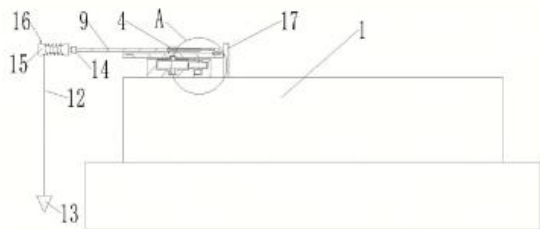
00: -
 A stable connection system for fixing a worn part of an excavation equipment and an assembly method thereof are provided, the connection system includes a worn part, a lip plate, a backrest component, and a rotating locking pin; a fitting part is provided on the backrest component or lip plate, the fitting part is provided with a second parallel thread; the rotating locking pin includes a connection portion providing with a first parallel thread on a lower and a taper portion on an upper; the rotating locking pin is

provided between the backrest component and the lip plate, the connection portion and the fitting part are connected in an insertion manner and twisted in a thread manner; the rotating locking pin rotates and moves axially. The taper portion compresses the backrest component and the lip plate so as to fix the worn part on the lip plate.



21: 2024/02972. 22: 2024/04/17. 43: 2025/01/20
 51: E02D
 71: China Railway First Group Co., Ltd
 72: Li Fei, Guo Zifei, Hu Xiaping, Yu Ziyong, Li Weiwei, Zhang Botao, Hu Lianyong, Kang Kang, Li Chen
 33: CN 31: 2023210863079 32: 2023-05-08
54: PILE POSITIONING DEVICE FOR CEMENT MIXING PILE MACHINE

00: -
 The invention discloses a pile position locating device for a cement mixing pile driver, comprising: a cement mixing pile driver, with a mounting base installed on the top surface of the cement mixing pile driver; a rotating mechanism, installed on the mounting base, with an installation plate mounted at the top end of the rotating mechanism, the installation plate being horizontally set, and a sliding seat mounted on the top surface of the installation plate; a positioning mechanism, installed on the top surface of the installation plate, and the positioning mechanism connected to the sliding seat in a sliding manner; and a position feedback mechanism, installed at the end of the positioning mechanism. The invention achieves positioning in different angles and realizes positioning in the plane position with the cement mixing pile driver as the coordinate center through the cooperation of the positioning mechanism, the rotating mechanism, and the position feedback mechanism, thereby improving the accuracy of positioning.



21: 2024/03007. 22: 2024/04/18. 43: 2024/12/12

51: B01D; C01B

71: GUIZHOU WENGFU LANTIAN FLUORCHEM CO., LTD

72: CHEN, WEI, ZHANG, HONGYING, FENG, SHENGBO, ZHANG, NAN, WU, XINGQIAN, LENG, HAIBING

33: CN 31: 202310422737.1 32: 2023-04-19

54: METHOD AND SYSTEM FOR CONCENTRATING FLUOROSILICIC ACID SOLUTION

00: -

The present invention relates to a method and a system for concentrating fluorosilicic acid solution. The method for concentrating the fluorosilicic acid solution comprises the following steps: mixing a fluorine-containing waste gas with the fluorosilicic acid solution in a first washing area for a first-stage washing; conveying a washing solution after the first-stage washing to a second concentration area; conveying a SiF₄ gas to a first concentration area for first-stage washing and concentration; conveying the SiF₄ gas after the first-stage washing and concentration to a second concentration area for second-stage washing and concentration, a washing and concentrated solution in the second concentration area flowing back to the first concentration area; filtering the washing and concentrated solution in the first concentration area to obtain a concentrated fluorosilicic acid solution and a fluorine-containing silicon slag; conveying a waste gas after the second-stage washing and concentration to the first washing area.

21: 2024/03008. 22: 2024/04/18. 43: 2024/12/12

51: C01B

71: GUIZHOU WENGFU LANTIAN FLUORCHEM CO., LTD

72: FENG, SHENGBO, HE, YONGGANG, CHEN, WEI, ZHANG, NAN, LENG, HAIBING, LUO, JILIN

33: CN 31: 202310423296.7 32: 2023-04-19

54: METHOD AND SYSTEM FOR PRODUCING HYDROGEN FLUORIDE

00: -

The invention relates to a method and system for producing hydrogen fluoride. The method comprises the following steps: A) reacting fluorosilicic acid and a first concentrated sulfuric acid in a main reaction zone to generate a silicon tetrafluoride gas and a sulfuric acid solution containing hydrogen fluoride; B) passing the silicon tetrafluoride gas into a silicon tetrafluoride generation zone; wherein the sulfuric acid solution containing hydrogen fluoride is divided to form at least two channels for preparing hydrogen fluoride gas; wherein a first part of the sulfuric acid solution containing hydrogen fluoride is passed into a distillation zone for separation; and a second part of the sulfuric acid solution containing hydrogen fluoride is heated and passed into a mixing zone with a second concentrated sulfuric acid, and a diluted sulfuric acid solution after mixing is reused in the main reaction zone as a raw material.

21: 2024/03066. 22: 2024/04/19. 43: 2025/02/04

51: C02F

71: NANCHANG UNIVERSITY

72: HU Beijuan, LAI Xinxin, YU Guilian, HONG Yijiang

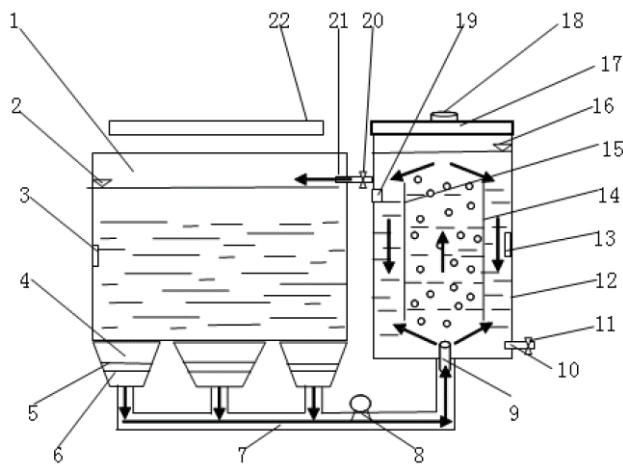
33: CN 31: 202211254594X 32: 2022-10-13

54: APPARATUS AND METHOD FOR MICROALGAE-MICROORGANISM SYNERGISTIC TREATMENT OF AQUACULTURE EFFLUENT

00: -

The invention relates to the technical field of aquaculture tail water treatment, in particular to an equipment for cooperatively treating aquaculture tail water by algae and bacteria, including: an aquaculture part, the aquaculture part is connected with sewage discharge part, the sewage discharge part is connected with tail water treatment part, tail water treatment part is connected with the aquaculture part; the sewage discharge part comprises a sewage pipe communicated with the aquaculture part, one end of the sewage pipe far away from the aquaculture part is communicated with the tail water treatment part, and a sewage pump is arranged on the sewage pipe; the tail water treatment part comprises a second housing, the bottom end of the second housing is communicated with the sewage pipe, the top end of the side wall of

the second housing is communicated with the aquaculture part, a plurality of guide plates are arranged in the second housing, and microalgae are inoculated on the outer side walls of the guide plates. In the invention, the microalgae and the original microorganisms in the aquaculture tail water form an algae-bacteria symbiont, which can synchronously reduce carbon, nitrogen and phosphorus, has little influence on aquaculture organisms, and can greatly improve the effluent quality without a subsequent sedimentation device.



21: 2024/03260. 22: 2024/04/26. 43: 2024/11/29
51: C04B

71: KHD Humboldt Wedag GmbH
72: FEISS, Marc, GUSMANN, Rolf, STREIT, Norbert

33: DE 31: 10 2021 128 060.5 32: 2021-10-28

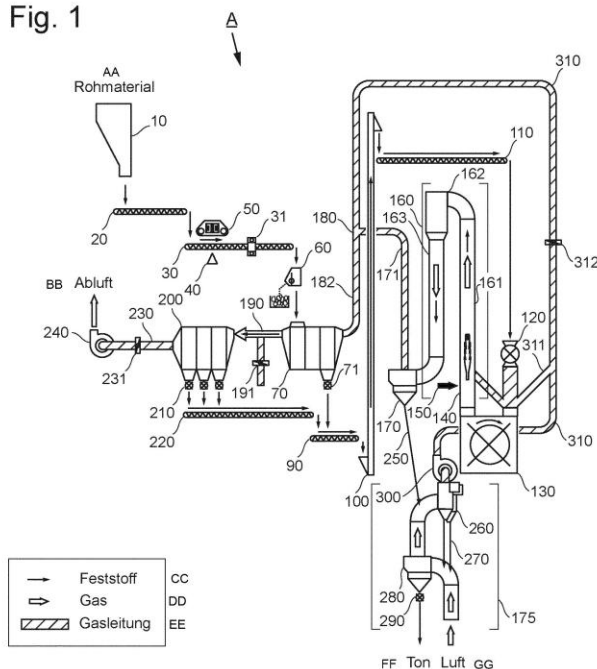
54: METHOD FOR ACTIVATING CLAYS WITH HIGH RESIDUAL MOISTURE

00: -

The invention relates to a method for activating clays with high residual moisture, said method having the following steps: introducing moist clay into a drying device (70), comminuting the previously dried clay in a comminution device (130), thermally activating the comminuted clay in an entrained flow reactor (160) or in a fluidised bed reactor in which the comminuted clay is suspended in a hot gas, separating the gas from the entrained flow reactor (160) or the fluidised bed reactor in a separation device (170), and cooling the thermally activated clay in a cooling device (175) using a cooling gas. The invention also relates to a corresponding system. According to the invention, the cooling gas that is heated after cooling of the thermally activated clay is combined with the gas

from the entrained flow reactor (160) or fluidised bed reactor, and the combined gases are introduced into the drying system (70), and the drying air, after drying of the clay, is filtered in a dust filter (200), with filtered-out clay being combined with the previously dried clay.

Fig. 1



→ Feststoff CC
⇌ Gas DD
▨ Gasleitung EE

AA Raw material
BB Exhaust air
CC Solid material
DD Gas
EE Gas line
FF Clay
GG Air

21: 2024/03266. 22: 2024/04/26. 43: 2024/11/29

51: A61P; C12N; C12Q

71: Council of Scientific & Industrial Research
72: RAY, Upasana, TRIPATHI, Prem Prakash, BEGUM, Feroza, SRIVASTAVA, Amit Kumar

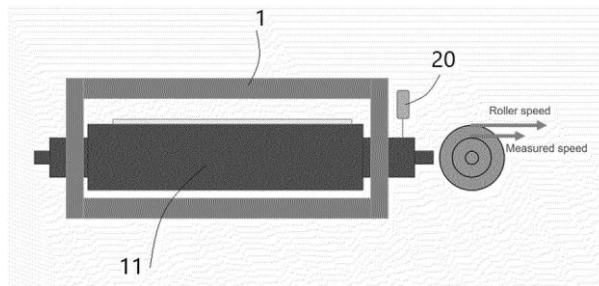
33: IN 31: 202111049482 32: 2021-10-28

54: A RECOMBINANT CONSTRUCT FOR SCREENING DRUGS AGAINST SARS-COV-2 SPIKE PROTEIN

00: -

Trypsin/trypsin-like proteases have been reported to be facilitating SARS-CoV-2 entry into host cells. Spike has protease cleavage sites between the S1 and S2 domains. Cleavage property of proteases can be used to design drug screening assays meant for screening antiviral candidates against spike cleavage. In the claimed invention we have

developed a proof-of-concept assay system for screening drugs against proteases which cleave spike between S1 and S2. We designed a fusion substrate protein containing a reporter protein, the protease cleavage site between S1 and S2 and a cellulose binding domain. The substrate protein can be immobilized on cellulose due to the presence of cellulose binding domain (CBD). When proteases cleave the substrate, CBD remains bound to cellulose and the reporter protein is dislodged. The released reporter can be used as read out of protease activity.



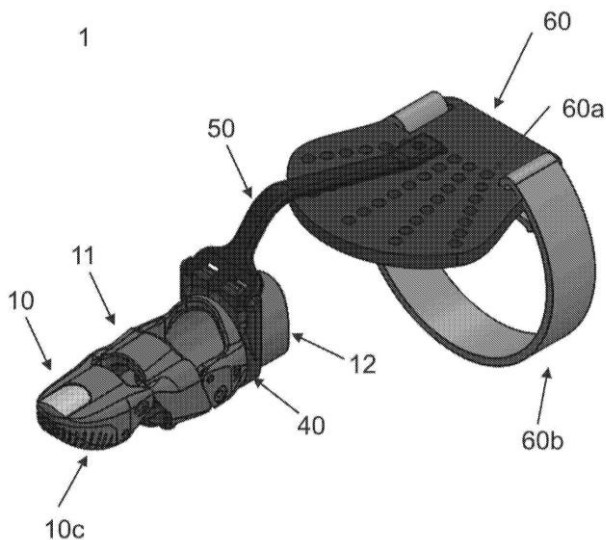
21: 2024/03267. 22: 2024/04/26. 43: 2024/11/29
 51: G01P
 71: Saint-Gobain Glass France
 72: RODRIGUEZ RODRIGUEZ, Armando Nemesio,
 ALVAREZ-CASARIEGO ALVAREZ, Maria José,
 BLANCO GOMEZ, David
 33: EP(FR) 31: 21205416.7 32: 2021-10-28
**54: METHOD OF CHECKING ROLLERS AND THE
 MOTION TRANSMISSION ELEMENTS**

00: -
 The present invention relates to a method for checking the rollers of conveying means, said scrolling means being driven to a defined line speed, said method comprising the steps of: - Carrying a surface speed measurement device; - For each of a plurality of rollers, • Pointing the measuring device to a location of a roller to obtain a serial of values representative of the speed for this roller; • Calculating the mean value of the serial of values representative of the speed for this roller • Comparing the mean value representative of the speed for the roller to the line speed so as to obtain a factor K; • Multiplying each value of the serial of values representative of the speed by its factor K to obtain corrected values of speed - using said corrected values representative of the speed to determine the speed variation to check the rollers

21: 2024/03270. 22: 2024/04/26. 43: 2024/11/29
 51: A63B; B25J
 71: IZAGUIRRE PÉREZ, Paola Aralid
 72: IZAGUIRRE PÉREZ, Paola Aralid
 33: MX 31: MX/a/2021/013325 32: 2021-10-29
**54: EXOSKELETON SYSTEM FOR ORTHOSES
 AND PROSTHESES OF HAND PHALANGES**
 00: -

The different aspects of the present invention relate to an exoskeleton system for orthoses and prostheses for phalanges, said system comprising a set of orthoprosthesis phalanges, a traction mechanism and a coupling set, which only operates mechanically based on the movement of the metacarpophalangeal joint of the patient. Therefore, the exoskeleton system of the present invention does not require electromechanical, control or derivative accessories to carry out the movement of the system. The present invention has been designed for use in patients whose distal and middle phalanges or any of the thumb, index, middle, ring and/or little fingers have been amputated and/or, alternatively, in patients who exhibit injuries, atrophy, paralysis or any motor limitation in any of the aforementioned fingers which requires the assistance of the exoskeleton system of the present invention; and therefore, they still keep the proximal phalanx in any of the aforementioned fingers. The present invention can be used in recent and older amputations, as well as in injuries, atrophy, paralysis and/or any motor limitation present in any of the fingers of the patient, with the purpose of restoring said middle and distal phalanges in the patient and, mainly, to restore the functionality related to both portions of the fingers, that is, the extending and flexing of same, wherein advantageously each exoskeleton system of the present invention can operate independently, that is, without having to interact between the different exoskeleton systems

when the patient has several amputated fingers or if they only use one finger.



21: 2024/03275. 22: 2024/04/26. 43: 2024/11/29
 51: A61K; A61P; C07K; C12N
 71: Akeso Biopharma, Inc.
 72: XIA, Yu, WANG, Zhongmin, ZHANG, Peng, LI, Baiyong
 33: CN 31: 202111149114.9 32: 2021-09-29
54: ANTI-LAG3 ANTIBODY, PHARMACEUTICAL COMPOSITION AND USE
 00: -

The present invention belongs to the field of biomedicine, and relates to an anti-LAG3 antibody, a pharmaceutical composition containing same, and the use thereof. Specifically, the present invention relates to an anti-LAG3 antibody or an antigen binding fragment thereof, wherein the antibody comprises a heavy chain variable region and a light chain variable region, the heavy chain variable region comprises HCDR1-HCDR3 having amino acid sequences as shown in SEQ ID NOs: 9-11, respectively, and the light chain variable region comprises LCDR1-LCDR3 having amino acid sequences as shown in SEQ ID NOs: 12-14, respectively. The anti-LAG3 antibody has superior affinity and specificity, and has good application prospects.

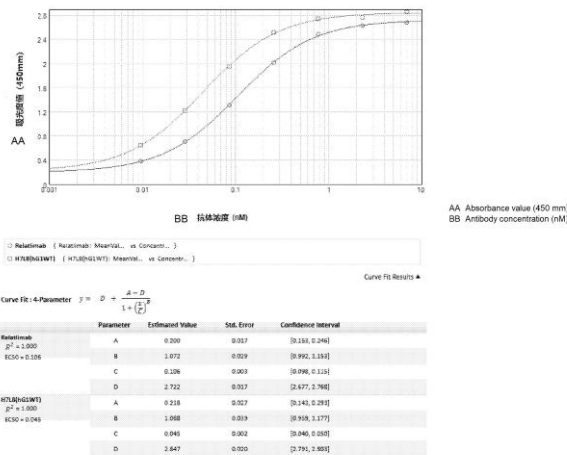
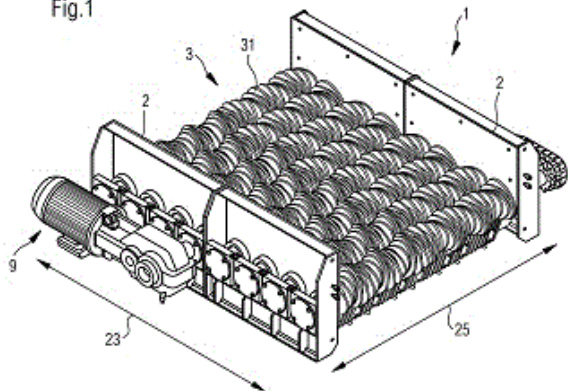


图 1

21: 2024/03352. 22: 2024/04/30. 43: 2024/12/20
 51:
 71: CPC CRUSHING PROCESSING GMBH
 72: GÖTZ, BRUNO
 33: DE 31: 20 2023 102 407.6 32: 2023-05-04
54: ROLLER SCREEN
 00: -

Roller screen comprising a machine frame with a plurality of screen shafts equipped with classifier discs and spacer elements, which are successively arranged in the longitudinal direction of the machine frame and are rotatably mounted on the machine frame. Each screen shaft is assigned to a support device which is arranged below the respective screen shaft and to which at least one scraping device is attached. At least one scraping device is formed by a plurality of flat iron-shaped metal bodies. A flat iron-shaped metal body is assigned to each gap space formed between adjacent classifier discs by a spacer element. The flat iron-shaped metal bodies are configured to extend upright from the respective support device into the gap spaces formed by adjacent classifier discs of the screen shafts.

Fig.1



21: 2024/03363. 22: 2024/04/30. 43: 2024/11/29
 51: C22B
 71: HERAEUS PRECIOUS METALS GMBH & CO. KG
 72: STEMLER, Marco, SAUER, Andre
 33: EP 31: 21211870.7 32: 2021-12-02
54: METHOD FOR SEPARATING RHODIUM
 00: -

The invention relates to a method for separating rhodium from an aqueous hydrochloric solution which contains at least one chloro complex of rhodium and at least one chloro complex of iridium and/or at least one chloro complex of ruthenium. The invention is characterized in that the rhodium is precipitated out of the aqueous hydrochloric solution with a redox potential of ≥ 950 to 1050 mV using an aliphatic polyamine as a poorly soluble rhodium chloro complex salt while explicitly dispensing with a previously carried out joint separation together with the iridium and/or the ruthenium.

21: 2024/03367. 22: 2024/04/30. 43: 2024/11/29
 51: A61K; A61P; A61Q
 71: Givaudan SA
 72: DE TOLLENAERE, Morgane, SCANDOLERA, Amandine, REYNAUD, Romain
 33: GB 31: 2114116.3 32: 2021-10-01
54: COSMETIC COMPOSITION COMPRISING CRANBERRY EXTRACT AND CRANBERRY SEED OIL
 00: -

The present invention provides a cosmetic composition for topical use, comprising cranberry extract in combination with cranberry seed oil.

21: 2024/03432. 22: 2024/05/03. 43: 2024/11/29

51: E03B
 71: Hans Sasserath GmbH & Co. KG
 72: HECKING, Willi
 33: DE 31: 20 2023 102 409.2 32: 2023-05-04
54: WATER FITTING
 00: -

A water fitting (10) comprising: a fitting housing (12, 18) with an inlet (14) and an outlet (16) configured to be installed in a pipe, wherein at least a section (18) of the fitting housing is essentially tubular; a module (36) configured to be inserted into the tubular section (18) through the front end in an axial direction; a connector (20) provided at the tubular section (18) of the housing fitting (12) for connecting a filter, a water treatment device (58) or any other component having water flowing therethrough; characterized in that the connector (20) comprises a lateral opening (20) configured to be closed by a lid or a plug (54) without influencing the flow flowing through the tubular section (18) if no water component (58) shall be connected to the connector (20), the connector comprises a connection adapter (60) configured to be inserted into the lateral opening (20) or screwed thereto for connecting a water component, the connection adapter having a deflecting element (86) deflecting the entire flow through the tubular section (18) out of the lateral opening (20) through the connected water component (58) and through the same lateral opening (20) entirely separated from the outflowing flow back into the tubular section (18).

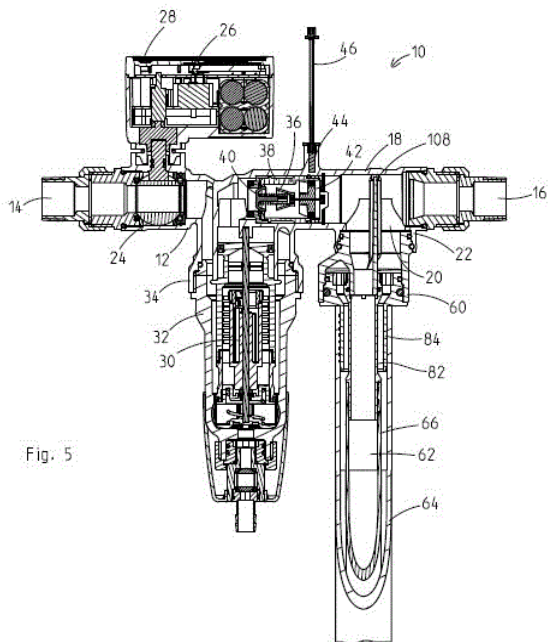


Fig. 5

21: 2024/03438. 22: 2024/05/03. 43: 2024/12/04
51: A01G

71: SHAH, Sujay Ashvin

72: SHAH, Sujay Ashvin

33: IN 31: 202121046149 32: 2021-10-11

54: A VERTICAL LAWN

00: -

The present disclosure relates to vertical gardens. The present disclosure envisages a vertical lawn (100). The vertical lawn (100) comprises an artificial substrate (140), a water-proofing layer applied on the substrate (140), and a drainage sheet (105) provided on the water-proofing layer. The drainage sheet (105) has a plurality of projections (107) configured thereon to facilitate flow of water therebetween. A geotextile sheet (106) is fitted on an operative front surface of the drainage sheet (105). A hydrophilic rock mineral wool layer (110) is secured to the operative front surface of the geotextile sheet (106). The rock mineral wool layer (110) configured to absorb and retain moisture therein. A lawn mat secured to the rock mineral wool layer (110).

21: 2024/03451. 22: 2024/05/06. 43: 2025/02/12

51: E01B

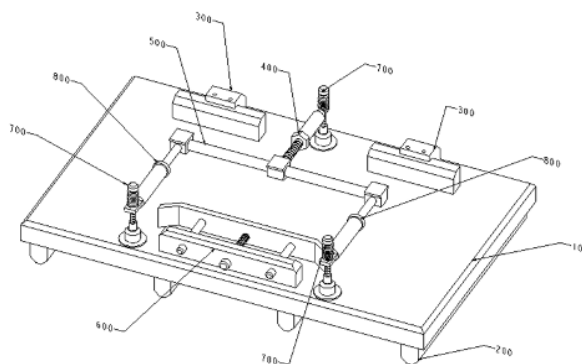
71: CHINA RAILWAY LIUYUAN GROUP CO., LTD.

72: GENG, Geng, ZHANG, Guohu, HAN, Bing, WANG, Ning, ZHANG, Xu, ZHANG, Xiang, WANG, Fei, FAN, Junhuai, MI, Yang, REN, Chuangchuang

54: GUIDE DEVICE FOR RAIL LAYING OF RAILWAY TRACK

00: -

The present invention provides a guide device for rail laying of a railway track. The guide device comprises a support base, a base positioning structure, a lateral hold-down mechanism, a top hold-down mechanism, an adjusting mechanism, two lateral positioning structures, two sliding guide structures and three elastic locking mechanisms, where the base positioning structure is arranged on the lower end face of the support base, the lateral hold-down mechanism is arranged at the end part of the front side of the upper end face of the support base, the two lateral positioning structures are symmetrically arranged at the end part of the rear side of the upper end face of the support base, and the lateral hold-down mechanism is positioned between the two lateral positioning structures. The guide device for rail laying of a railway track disclosed in the present invention solves the problem that a rail is likely to sway up and down during the laying process due to the reason that the guide device for rail laying in related technologies does not have the function of limiting the top of the rail.



21: 2024/03472. 22: 2024/05/07. 43: 2025/01/02

51: A61K

71: The Second Affiliated Hospital of Shandong First Medical University

72: LIU Zhichao, GENG Biao, LI Tong, GENG Tao

54: HERBAL MEDICINE COMPOUND LOTION FOR TREATING PERIANAL ECZEMA

00: -

The invention discloses a Chinese herbal compound lotion for treating perianal eczema, which belongs to the technical field of medicines, and includes 20-40 g of CNIDII FRUCTUS, 20-40 g of Sophorae Flavescentis Radix, 10-20 g of Dictamni Cortex, 5-10 g of ANHYDROUS SODIUM SULPHATE, 5-10 g of Atractylodis Rhizoma, 5-10 g of Lonicerae Japonicae Flos, 5-10 g of ALOE and 5-10 g of Glycyrrhizae Radix et Rhizoma. The invention can regulate inflammatory mediators, remove oxidative free radicals, and improve skin damage (redness, papules, scaling and lichenization), so as to achieve the objective of treating perianal eczema.

21: 2024/03473. 22: 2024/05/07. 43: 2024/11/28
51: A61B

71: ELS, Henning, Johannes, PRETORIUS, Ilse, Esther

72: ELS, Henning, Johannes, PRETORIUS, Ilse, Esther

54: AN APPARATUS FOR STIMULATING AND MEASURING A RESPONSE OF AN ANIMAL OR HUMAN AND A METHOD OF EVALUATING SAID RESPONSE

00: -

An apparatus 10 for stimulating and measuring a physiological response of an animal or human includes a programmable stimulus generating unit 12, a first electrode A for transmitting the stimulus to the arm 14 of the human, a second electrode B for measuring a physiological response of the human in response to the stimulus and a data storage device 16 for storing a set of data obtained from the human.

The apparatus 10 includes a third electrode C acting as a reference electrode.

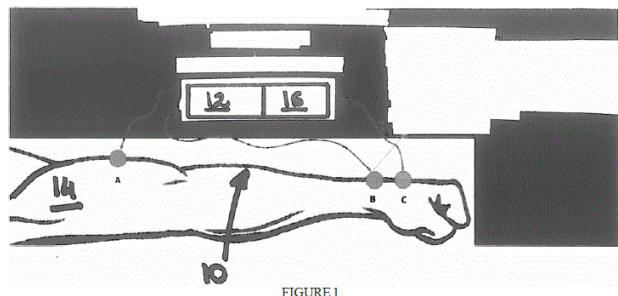


FIGURE 1

21: 2024/03479. 22: 2024/05/07. 43: 2024/12/03
51: A61K; C12N

71: Serum Institute of India Private Limited
72: DHERE, Rajeev Mhalasakant, KAMBLE, Abhijeet Sanjeev, KADAM, Ravindra Bapurao,

TYAGI, Parikshit Dharampal, ZADE, Jagdish Kamalaji, SABALE, Rajendra Narayan, MENON, Ravi Balakrishnan

54: IMPROVED METHODS FOR POLIOVIRUS INACTIVATION, ADJUVANT ADSORPTION AND DOSE REDUCED VACCINE COMPOSITIONS OBTAINED THEREOF

00: -

A method for producing vaccine composition containing alum adsorbed reduced-dose Inactivated Polio Virus (IPV) antigens selected from the group comprising of type 1, type 2 and type 3 serotypes and at least one preservative from formaldehyde and 2-phenoxyethanol (2-PE) is provided. The reduced-dose Inactivated Polio Virus (IPV) antigens shows non-inferiority/equivalent protection against polio compared to standard dose IPV antigen and preservative improves the stability and preservative efficacy of the vaccine. Improved Inactivated Polio Virus (IPV) vaccine formulation for prophylaxis and treatment of infections caused by Polio Virus type 2 serotype in humans is provided, which is less likely to revert to neurovirulence than Live-attenuated Sabin oral polio vaccines. A method for producing such monovalent vaccine composition containing alum adsorbed reduced-dose Inactivated Polio Virus (IPV) antigens comprising of type 2 serotype at a dose greater than 0.4 D-antigen units and less than 8 D-antigen units per 0.5 ml dose is provided.

21: 2024/03508. 22: 2024/05/07. 43: 2024/11/28
51: C01B; C07C; C10G; C10K

71: Casale SA

72: MUSCIONICO, Isabella, MOREO, Pietro
33: EP(CH) 31: 21214547.8 32: 2021-12-14

54: METHANOL FROM BIOMASS GASIFICATION

00: -

Process (100) for the synthesis of methanol (1) comprising the steps of: subjecting a biomass (2) to a gasification process (6) in presence of steam (5) and an oxidant (48); subjecting the so obtained gasifier stream (7) to water gas shift conversion (10) and purification (14) to yield a synthesis gas (15) with hydrogen, carbon monoxide and CO₂; mixing said synthesis gas (15) with a second stream of synthesis gas (31) to yield a third stream of synthesis gas (16); feeding said third stream of synthesis gas (16) to a methanol synthesis loop (19) wherein a crude methanol (20) and a tail gas (35) retaining methane are produced; subjecting said tail

gas (35) to a reforming step (25) in presence of an oxidant (49) to generate said second stream of synthesis gas (31).

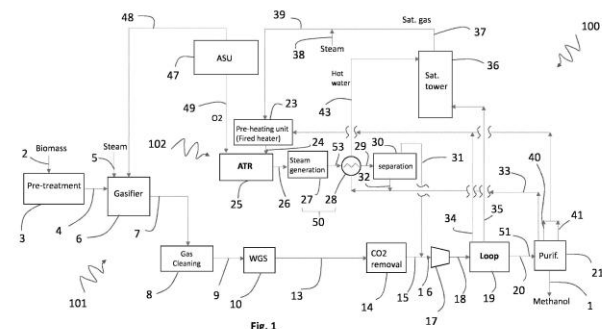


Fig. 1

21: 2024/03528. 22: 2024/05/08. 43: 2025/01/27
51: A61K

71: HUNAN ACADEMY OF TRADITIONAL CHINESE MEDICINE

72: XIE, Yi, ZENG, Hongliang, SHEN, Bingbing, ZHANG, Shuihan

54: THE INVENTION RELATES TO AN OAT NUTRIENT BLANKING POWDER WITH LIPID-LOWERING AND DEFECATING EFFECT AND A PREPARATION PROCESS THEREOF

00: -

The invention relates to the technical field of food processing. The invention provides an oat nutritional blending powder with lipid-lowering and defecating effect and a preparation process thereof, including the following raw material components: oat, black sesame, black bean, barley, jujube, hawthorn, aloe vera gum, acacia bean gum, puerarin and xylitol. The invention takes oat and black bean as the main components, scientifically collocation medicine and food homologous food qingke barley, black sesame, jujube, hawthorn, aloe vera gum and gegen, conforms to people's healthy diet, green and environmental protection life concept; The disclosed preparation process is simple to operate, has low requirements for equipment, and is suitable for industrial production; It has good lipid-lowering and purgative effect, and is composed of grains and homologous food ingredients, which can be taken for a long time, safe and without side effects.

21: 2024/03539. 22: 2024/05/08. 43: 2024/11/29
51: C09J C09D

71: SYMONS, Michael, Windsor

72: SYMONS, Michael, Windsor

33: ZA 31: 2021/07838 32: 2021-10-15

54: WOOD IMPREGNATION COMPOSITIONS

00: -

The invention provides a lignocellulosic binder system. The binder system includes an aqueous alkali metal silicate solution; a liquid phenol formaldehyde; optionally aluminium phosphate nano particle dispersion; and optionally a component which includes boron.

21: 2024/03553. 22: 2024/05/08. 43: 2025/02/12
51: G06F

71: GUANGXI ACADEMY OF SCIENCES, NANNING NORMAL UNIVERSITY

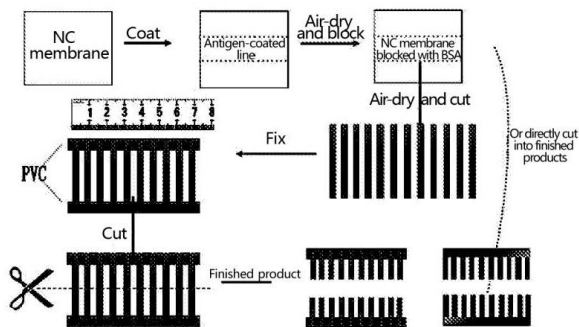
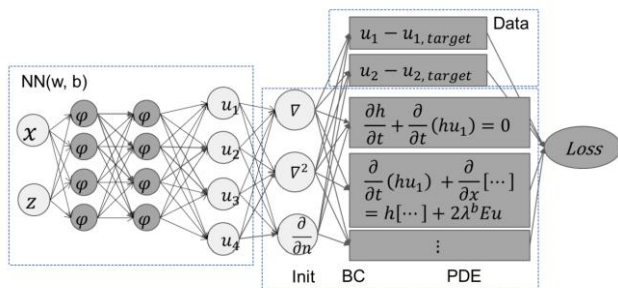
72: XU, Guilin, LUO, Tianya, YAN, Xiaomin, WU, Di, LI, Qianjun

33: CN 31: 202310705803.6 32: 2023-06-14

54: LANDSLIDE IDENTIFICATION METHOD BASED ON PHYSICS-INFORMED MACHINE LEARNING

00: -

The invention discloses a landslide identification method based on physical constraint machine learning, where it first collects slope data information and stores for back up, next uses the collected data, and embeds physical constraints into the neural network for learning to obtain a prediction model, the physical constraints comprise the conservation of mass and momentum during the flow process of erosive landslides, boundary conditions, and initial conditions; and then collects slope data information of the tested slope, and uses the prediction model obtained in step S2 to predict and analyze the tested slope, achieves landslide identification and warning of the tested slope. The invention incorporates more physical information, such as mathematical and physical equations, boundary conditions, initial conditions, etc., related to landslides, into the neural network of machine learning, enabling the neural network to better understand the physical meaning of landslides, and thus enabling the neural network to predict landslides more accurately in situations with limited observation data.

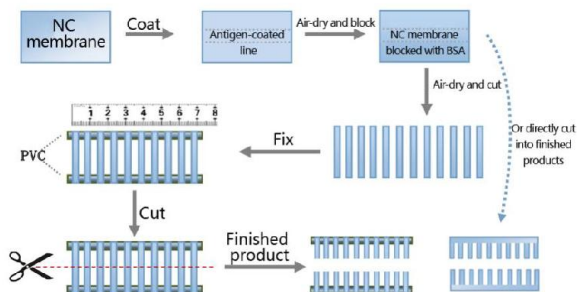


21: 2024/03563. 22: 2024/05/09. 43: 2025/01/27
 51: C12N; G01N
 71: KUNMING CUSTOMS TECHNOLOGY CENTRE, HAIKOU CUSTOMS TECHNOLOGY CENTRE
 72: AI, Jun, LI, Dandan, HAN, Diangang, LI, Jiatong, LI, Jing, CHEN, Lijun, TIAN, Chaoyang, QIU, Suoping, GAO, Shenyang, WANG, Yu, LIN, Hua, WANG, Lin, ZHANG, Qiang
54: IMMUNOCOMB DETECTION STRIP FOR SRV1 ANTIBODY, PREPARATION METHOD AND APPLICATION THEREOF

00: -
 An immunocomb detection strip for a simian type D retrovirus serotype 1 (SRV1) antibody, and a preparation method and application thereof are provided. A recombinant plasmid pGEX-4T-SRV1 for preparing an immunocomb is provided, which is represented by SEQ ID NO: 3. A primer pair for constructing a recombinant plasmid is provided, a forward primer SRV1F is represented by SEQ ID NO: 1, and a reverse primer SRV1R is represented by SEQ ID NO: 2. A construction method includes the following steps: designing an SOE-PCR primer pair according to a nucleotide sequence of SRV1, performing SOE-PCR to amplify the SRV1 gene, and constructing a recombinant plasmid pGEX-4T-SRV1. An immunocomb for rapidly detecting antibodies in blood or serum of a laboratory monkey is prepared based on the principles of enzyme-linked immunosorbent assay and the membrane chromatography technology. The stability, specificity, sensitivity, and repeatability of the immunocomb are all high.

21: 2024/03564. 22: 2024/05/09. 43: 2025/01/27
 51: C12N; G01N
 71: KUNMING CUSTOMS TECHNOLOGY CENTRE, HAIKOU CUSTOMS TECHNOLOGY CENTRE
 72: AI, Jun, LI, Dandan, HAN, Diangang, CAI, Weikai, LI, Jing, CHEN, Lijun, TIAN, Chaoyang, QIU, Suoping, GAO, Shenyang, WANG, Yu, LIN, Hua, WANG, Lin, ZHANG, Qiang
54: IMMUNOCOMB DETECTION STRIP FOR STLV1 ANTIBODY, PREPARATION METHOD AND APPLICATION THEREOF

00: -
 The present disclosure mainly relates to an immunocomb detection strip for a simian T-lymphotropic virus type 1 (STLV1) antibody, and a preparation method and application thereof. A recombinant plasmid pGEX-4T-STLV1 for preparing an immunocomb is provided, which is represented by SEQ ID NO: 3. A primer pair for constructing a recombinant plasmid is provided, a forward primer STLV1F is represented by SEQ ID NO: 1, and a reverse primer STLV1R is represented by SEQ ID NO: 2. A construction method includes the following steps: designing an SOE-PCR primer pair according to a nucleotide sequence of STLV1, performing SOE-PCR to amplify the SRV1 gene, and constructing a recombinant plasmid pGEX-4T-STLV1. An immunocomb for rapidly detecting antibodies in blood or serum of a laboratory monkey is prepared based on the principles of enzyme-linked immunosorbent assay (ELISA) and the membrane chromatography technology. The stability, specificity, sensitivity, and repeatability of the immunocomb are all high.



21: 2024/03578. 22: 2024/05/09. 43: 2024/12/04
51: A61K; A61P

71: MEDA PHARMA S.P.A.

72: GELFI, Elena, MOSCONI, Manuel, ZANARDI, Andrea

33: GB 31: 2115617.9 32: 2021-10-29

54: COMPOSITIONS COMPRISING RED YEAST RICE

00: -

The invention relates to solid oral compositions, comprising monascus fermented rice coated by lipidic encapsulation technology and a method for preparing the coated monascus fermented rice.

21: 2024/03587. 22: 2024/05/09. 43: 2024/12/05
51: C09K

71: Sasol Chemie GmbH & Co. KG

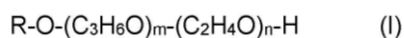
72: STANCIU, Cornell, JONES, Christian Wayne, NGUYEN, Thu, FERNANDEZ, Jorge, SOKHANVARIAN, Khatere, NAPIERALA, Heinz, ENNEKING, Meinolf

33: US 31: 63/277,714 32: 2021-11-10

54: INJECTION FLUIDS COMPRISING PROPOXYLATED ALCOHOLS AND THE USE OF SUCH FLUIDS FOR ACID STIMULATION DURING OIL RECOVERY PROCESSES

00: -

A water-in-oil emulsifier injection fluid which provides stable emulsions at elevated temperatures and over extended time periods, to be utilized for acid stimulation in subterranean formations to optimise oil recovery. The injection fluid includes at least one alkoxyated alcohol or a mixture of alkoxyated alcohols having the structure shown in formula (I): wherein R is a linear or a branched alkyl group having from 12 to 36; and $m \geq 10$, $n \geq 1$.



21: 2024/03609. 22: 2024/05/10. 43: 2024/12/03
51: B65B

71: MED AND AUTOMATION PROPRIETARY LIMITED

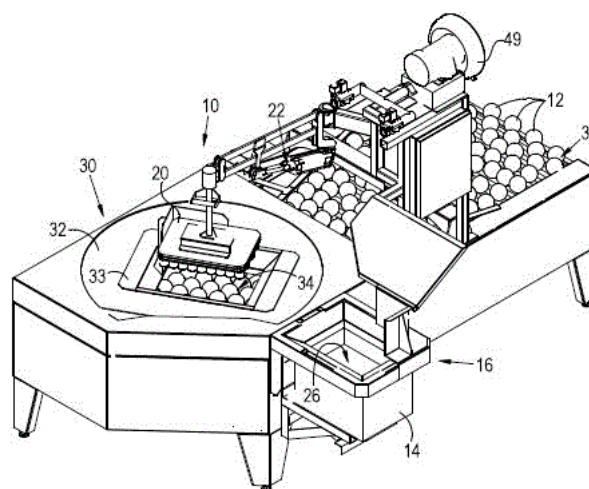
72: VISAGIE, Gerhardus Johannes

33: ZA 31: 2023/05185 32: 2023-05-11

54: APPARATUS AND METHOD FOR PACKING ARTICLES

00: -

Fruit packing apparatus 10 includes a receptacle support structure 16 for supporting a carton 14; a support tray 18 for supporting and arranging the fruit 12 in a predetermined arrangement; an article handling head 20 for engaging individual fruit on the support tray; a movable swing arm carriage 22 connected to the article handling head 20 for displacing the article handling head; and powered drive means for effecting selected powered movement of the carriage. The carriage 22 displaces the article handling head between the support tray 18 and the receptacle support structure and lowers and lifts it for picking up fruit from the support tray 18 and depositing the fruit in the carton 14. The apparatus 10 includes a movable structure 33 defining a pick-up access opening 34 overlying the support tray 18, providing for altering of the orientation of the pick-up access opening relative to the support tray 18 for picking up fruit in two different patterns such that when fruit in an overlying layer is deposited onto an underlying layer it is offset from the underlying layer.

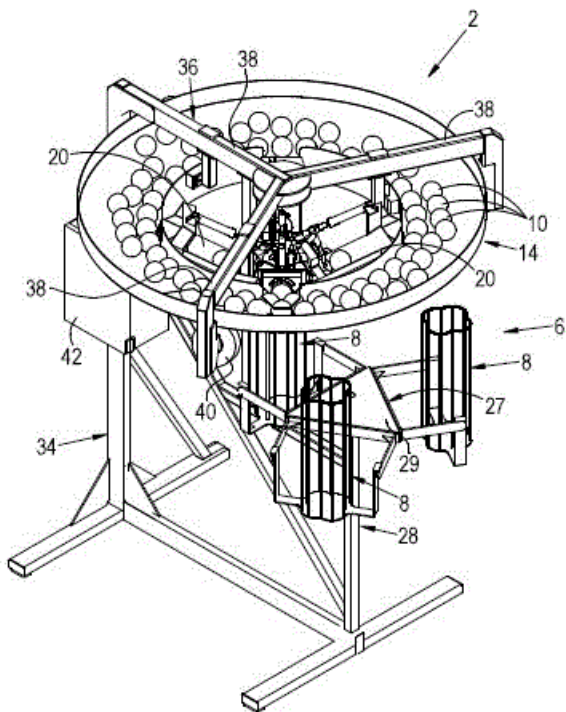


21: 2024/03610. 22: 2024/05/10. 43: 2024/12/03
51: B65B

71: MED AND AUTOMATION PROPRIETARY LIMITED

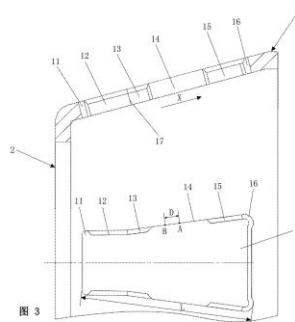
72: VISAGIE, Gerhardus Johannes
 33: ZA 31: 2023/05229 32: 2023-05-12
54: BAGGING APPARATUS AND METHOD
 00: -

A fruit bagging apparatus 2 comprises a fruit collection assembly 6 comprising three open-topped baskets 8 for temporarily holding fruit 10; a rotatable annular accumulator tray 14 on which the fruit is supported; a central discharge structure 16 having a discharge opening 18 through which fruit can move into a basket; four guide chutes 20 for conveying fruit in single lines to the discharge opening 18; and a control system including a controller having a singularity device 22 for each chute which controls the movement of fruit from the chute into the discharge opening in response to input signals from the controller. The article collection assembly 6 includes a rotary indexing system 27 which permits revolution of the baskets between first positions in which the baskets 8 are aligned with the discharge opening 18 to receive fruit, moved on to second positions to receive a bag 4 placed over the basket when filled to capacity with fruit, and finally moved on to third positions wherein the basket is hingedly flipped over so as to transfer the fruit to the bag.



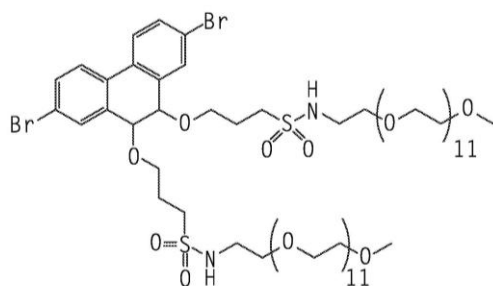
21: 2024/03633. 22: 2024/05/10. 43: 2024/12/11
 51: F16C
 71: Beijing Goldwind Science & Creation Windpower Equipment Co., Ltd.
 72: CHI, Haifeng, LIU, Dongxu, LI, Huixun, WANG, Mingwei
 33: CN 31: 202210610614.6 32: 2022-05-31
54: RETAINER AND BEARING
 00: -

A cage and a bearing. The cage (2) comprises a first ring (5), a second ring (6), and a plurality of beams (7), which connect the first ring (5) to the second ring (6), wherein the plurality of beams (7) are spaced apart from each other in a circumferential direction of the cage (2), and a pocket (10) for accommodating a rolling element of a bearing is defined between adjacent beams (7). A side surface of each beam (7) in the circumferential direction comprises a first pressed slope (13) and a second pressed slope (15), which are spaced apart from each other, and a recess (12), which is kept in at least one end of the pocket (10) of the cage (2) and extends from the first pressed slope (13) to a longitudinal center line (S) of the beam and to a longitudinal end portion of the beam (7). The cage can facilitate the installation of a bearing, avoid the use of large apparatuses during assembly, and reduce damage to components of the bearing during assembly.

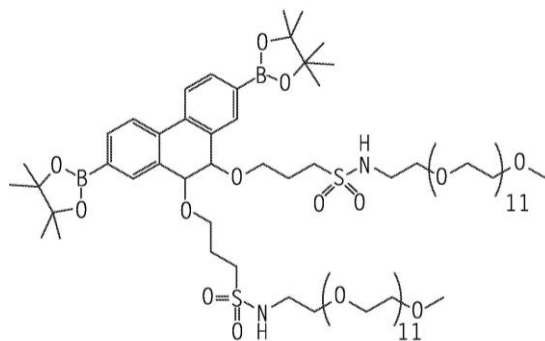


21: 2024/03640. 22: 2024/05/10. 43: 2024/12/11
 51: G01N
 71: Beckman Coulter, Inc.
 72: JARARE, Aditya, VENKATESH, Rajesh, CHAWLA, Sumeet, JIVRAJANI, Mehul, ARORA, Naina, JAKKA, Gopinadh, SRINIVASAN, Shiva Ranjini
54: NOVEL FORMULATION FOR DRYING OF POLYMER DYE CONJUGATED ANTIBODIES
 00: -

A novel dry down buffer is provided for use in drying a plurality of fluorescent dye conjugates on a substrate for use in flow cytometry. The aqueous buffer comprises a water-soluble monomer; a protein stabilizer; a carbohydrate stabilizer; and a zwitterionic surfactant. When mixed with a multi-color panel comprising fluorescent polymer dye conjugates, dried on a substrate, and reconstituted with a biological sample, the buffer provides decreased aggregation of fluorescent polymer dye conjugates, and decreased non-specific binding of monocytes and granulocytes, when compared to use of a buffer without the water-soluble monomer or zwitterionic surfactant.



Monomer A



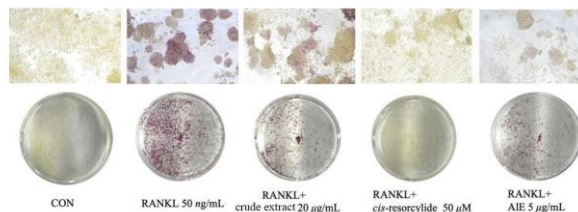
Monomer B

21: 2024/03645. 22: 2024/05/13. 43: 2025/01/02
51: C07D
71: HAINAN NORMAL UNIVERSITY
72: CHEN Guangying, QIN Yuyue, LI Wanshan, ZHANG Xuan
33: CN 31: 202410191871.X 32: 2024-02-20

54: MACROLIDE COMPOUND FROM THE SECONDARY METABOLITES OF DEEP-SEA SEDIMENT-DERIVED FUNGUS, PREPARATION METHOD THEREOF AND USE THEREOF

00: -

The present invention discloses a macrolide compound from secondary metabolites of deep-sea sediment-derived fungus, preparation method thereof and use thereof. The present invention separates the macrolide compound *cis*-resorcylide from a secondary metabolite of a deep-sea sediment-derived fungus *Penicillium* sp. HN20. Through artificial fermentation culture, solvent soaking and extraction, and separation methods of silica gel column chromatography, reverse-phase silica gel column chromatography, and HPLC, the macrolide compound *cis*-resorcylide is obtained. This compound has a significant inhibitory effect on tartrate resistant acid phosphatase (TRAP) in RANKL-induced osteoclasts.



21: 2024/03654. 22: 2024/05/13. 43: 2025/01/02
51: A61L

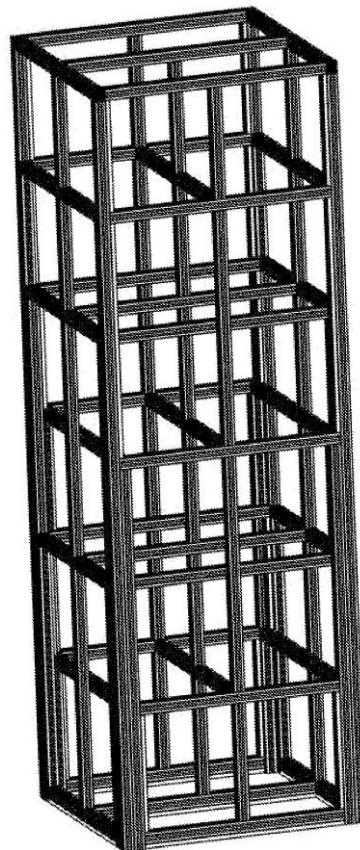
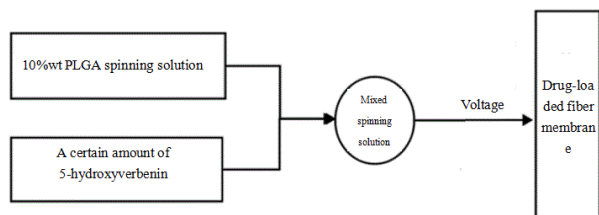
71: WANNAN MEDICAL COLLEGE, Anhui Polytechnic University
72: WANG Juan, WEI Tianjian, WEI Anfang, WANG Hengbing
33: CN 31: 2024104201249 32: 2024-04-09

54: PREPARATION METHOD AND APPLICATION OF MEDICINE WOUND DRESSING

00: -

The invention belongs to the technical field of biomedical dressings, and relates to a preparation method and an application of a traditional Chinese medicine wound dressing. In the invention, N,N-dimethylformamide (DMF) and dichloromethane (DCM) are used as solvents, and polylactic acid-glycolic acid copolymer (PLGA) is used as solute to prepare a spinning solution, and then an effective component 5-hydroxyverbenin solution is added to prepare a drug-loaded spinning solution, and the drug-loaded spinning solution is electrospun to prepare a traditional Chinese medicine wound

dressing. The traditional Chinese medicine wound dressing has high specific surface area and interconnected pore structure, and can form a mechanical barrier when used in the field of medical care, so as to prevent the wound from being polluted by bacteria and foreign bodies, facilitate cell proliferation, nutrient supply and gas exchange, prevent liquid loss, promote the rapid healing of the wound, relieve the pain of patients, and simultaneously keep the drug performance unchanged, and the prepared fiber has a smaller diameter, which is beneficial to drug release.



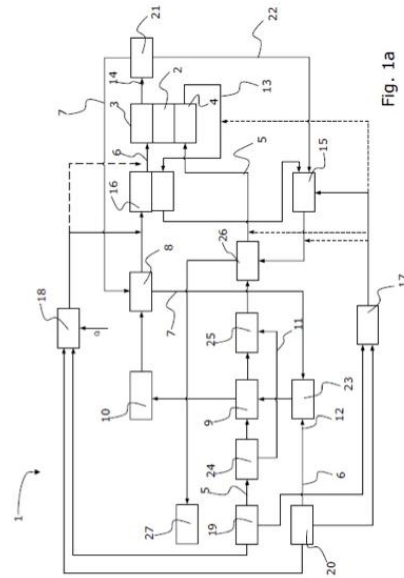
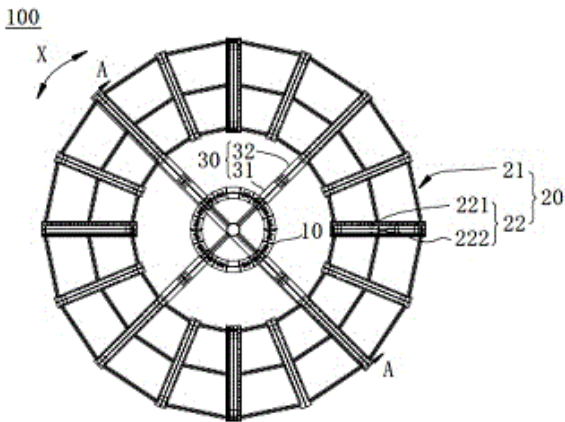
21: 2024/03730. 22: 2024/05/14. 43: 2024/12/23
 51: E04B; E04C
 71: UHCS Property SA
 72: HOFFMANN, André, USTINOV, Igor
 33: CH 31: 070419/2021 32: 2021-10-20
54: BEAM OR POST FOR A CONSTRUCTION SYSTEM

00: -
 The invention relates to a hollow beam or post for a construction system, the beam or post comprising a core element (A) formed of a straight hollow central element (7) having a cross-section provided with four diametrically opposed hollow outer projections (1) in the shape of outwardly flaring dovetails, which are arranged crosswise. Said four hollow outer projections (1) have narrowed inner ends (2) which are spaced apart from the narrowed inner ends of the adjacent hollow outer projections and are connected by segments (3) of the hollow central element (7). Four straight hollow surrounding elements (B) are assembled around the core element (A) to form a square surrounding the core element (A), the four surrounding elements (B) having an inner cross-sectional shape that is complementary to the four diametrically opposed outer projections (1) of the core element (A).

21: 2024/03731. 22: 2024/05/14. 43: 2024/12/23
 51: E04H; F03D
 71: BEIJING TENSAM HIGH-TECH WIND POWER TECHNOLOGY CO., LTD.
 72: LIU, YANJUN, XU, RUILONG, HAO, HUAGENG, LIN, YANBIN, YANG, FENG
 33: CN 31: 202122573161.8 32: 2021-10-25
54: ASSEMBLING TOOL

00: -
 The present application relates to an assembling tool, which is configured for assembling tower drum fragments. The assembling tool comprises: a central base having a central axis and a peripheral surface arranged around the central axis; a positioning assembly which comprises a positioning base and a clamping assembly arranged on the positioning base, the positioning base being arranged around the central base with a gap being formed between the positioning base and the peripheral surface, and the clamping assembly being configured to clamp and position the tower drum fragments; and adapter assemblies which are distributed in a circumferential direction of the central base at intervals and

connected between the central base and the positioning base, wherein each adapter assembly comprises a first adapter body and a second adapter body which are detachably connected to each other, one side of the first adapter body deviating from the first adapter body is connected to the central base, and one side of the second adapter body deviating from the first adapter body is connected to the positioning base. The assembling tool provided in the embodiments of the present application has a simple structure and achieves a high assembly precision, and is convenient to transport and assemble.



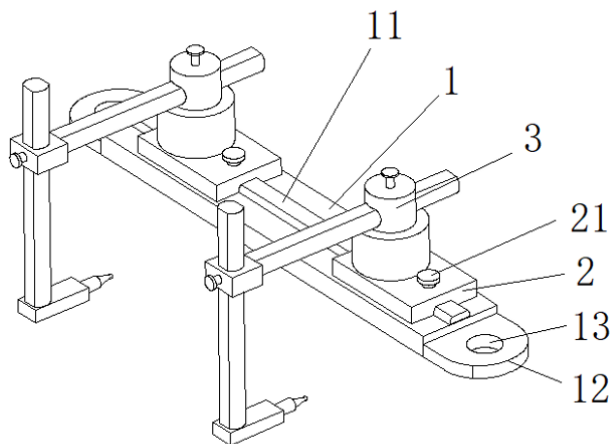
21: 2024/03760. 22: 2024/05/15. 43: 2025/01/28
 51: H01M
 71: AVL LIST GMBH
 72: NEUBAUER, Raphael
 33: AT 31: A 50911/2021 32: 2021-11-15
54: FUEL CELL SYSTEM
 00: -
 The invention relates to a fuel cell system (1), in particular an SOFC system, comprising at least one fuel cell stack (2) with an anode section (3) and a cathode section (4), an air supply section (5), a fuel supply section (6) and a recirculation section (7), wherein a heat exchanger network with at least one first heat exchanger (8) and a second heat exchanger (9) is provided, wherein the second heat exchanger (9) is arranged downstream of the first heat exchanger (8), wherein a cold side of the first heat exchanger (8) is arranged in the fuel supply section (6) and a cold side of the second heat exchanger (9) is arranged in the air supply section (7). The invention further relates to the use of such a fuel cell system (1).

21: 2024/03770. 22: 2024/05/16. 43: 2025/01/27
 51: E02D

71: CHINA RAILWAY SEVENTH GROUP CO., LTD., SHENZHEN UNIVERSITY
 72: Chengyu HONG, Xiangsheng CHEN, Aiguo YIN, Junkun TAN, Min ZHU, Dong SU, Erwei LI, Juanjuan SONG

54: MONITORING DEVICE AND METHOD FOR SPECIALLY-SHAPED STRUCTURE IN UNDERGROUND SPACE

00: -
 The present disclosure relates to the technical field of monitoring of structural members, and specifically discloses a monitoring device for a specially-shaped structure in an underground space. The monitoring device includes an assembly plate; an upper side of the assembly plate is slidably connected to at least one detection component; the detection component includes a turntable; the turntable is provided with a telescopic arm component; one end of the telescopic arm component is provided with a lifting component; and one end of the lifting component is provided with a detector. The present disclosure has the advantages: The detection component in the present disclosure can change an entire position of a displacement sensor, then change an orientation of the displacement sensor through the turntable, and finely adjust the displacement sensor through the telescopic arm component, thereby achieving monitoring of a specially-shaped structural member.



21: 2024/03789. 22: 2024/05/16. 43: 2024/12/10

51: H04L; H04N

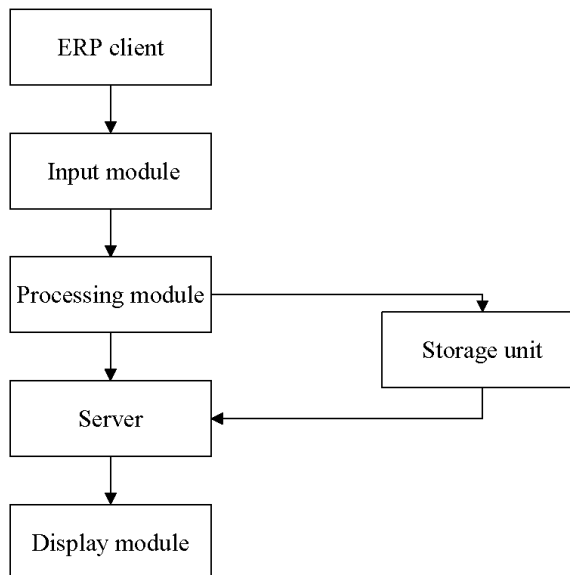
71: GUIZHOU YOUNPIN SLEEP HEALTH INDUSTRY CO., LTD

72: LIU, Enping, LIU, Yidi, TAN, Ping, LIU, Sujun, WANG, Shengxiang

54: HEALTH DATA MANAGEMENT SYSTEM BASED ON ERP

00: -

The present invention discloses a health data management system based on enterprise resource planning (ERP), which relates to the technical field of data management. The system includes an ERP client, a server, an input module, a processing module, a storage unit and a display module, where the ERP client, the input module, the processing module, the server and the display module are sequentially connected, and the storage unit is connected with the processing module. The present invention fully defines the health data range, data model building, data classification, control of diversified data applications, data management platform setup and coordination, thereby improving the security and usability of health data, and also the convenience and efficiency of use.



21: 2024/03797. 22: 2024/05/16. 43: 2024/12/10

51: A61K; A61P; C07K

71: Youcare Pharmaceutical Group Co., Ltd.

72: HE, Yuxian, ZHU, Yuanmei, CHONG, Huihui, LIU, Nian

33: CN 31: 202210156260.2 32: 2022-02-21

54: METHOD FOR OPTIMIZING VIRUS MEMBRANE FUSION INHIBITOR, BROAD-SPECTRUM ANTI-CORONAVIRUS LIPOPEPTIDE AND USE THEREOF

00: -

Provided are a broad-spectrum anti-SARS-CoV-2 lipopeptide, a preparation method therefor, a virus membrane fusion inhibitor comprising the lipopeptide, and use of the lipopeptide in the preparation of a pharmaceutical composition for preventing and treating diseases caused by the coronavirus. The structure of the lipopeptide is shown as formula (I) or formula (II), wherein X1 is an amino protection group; X2 is a polypeptide, whose amino acid sequence is (EAAAK)_n or A[(EAAAK)_n]A, wherein n is a natural number less than 5 and indicates the number of repetitions of the EAAAK sequence; X3 is lysine or cysteine or 2,3-diaminopropionic acid or ornithine or 2,4-diaminobutanoic acid or 2,7-diaminoheptanoic acid; X4 is a lipophilic compound group; X5 is a carboxy-terminal protecting group.

21: 2024/03801. 22: 2024/05/16. 43: 2024/12/17

51: C03B

71: Saint-Gobain Glass France

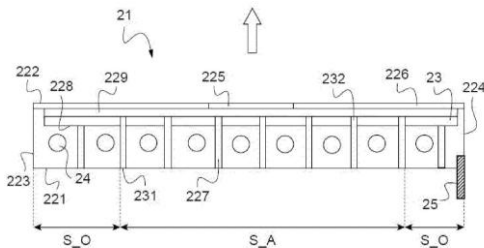
72: MACHURA, Christophe, PROCUREUR, Patrick, GOBIN, Jérôme

33: FR 31: 2112934 32: 2021-12-03

54: SYSTEM FOR COLLECTING A GLASS SHEET, METHOD FOR SHAPING A GLASS SHEET BY MEANS OF A COLLECTION SYSTEM OF THIS TYPE

00: -

The invention relates to a kit for collecting a glass sheet (1) brought to a softening temperature, said kit comprising a supporting carrier (22) comprising a lower surface (221), an upper surface (222) comprising a suction hole (225) and a plurality of suction channels (227) that open onto the lower surface and also onto an inner surface (228) arranged between the lower and upper surfaces. Said kit also comprises: - a cover (23) comprising a solid zone (Z_PL) and a pierced zone (Z_PE) provided with a plurality of holes (232), - means for attaching the cover to a bearing surface that corresponds to the lower surface or to the inner surface.



21: 2024/03802. 22: 2024/05/16. 43: 2024/12/10

51: A01N; A01P

71: Syngenta Crop Protection AG

72: HALLAM-BARNES, Gemma, FALLUTO, Francesca Jain

33: EP(CH) 31: 21210434.3 32: 2021-11-25

54: PESTICIDAL COMPOSITIONS

00: -

PESTICIDAL COMPOSITIONA pesticidal composition comprising:5(i) 5 to 15% by weight of spiropidion;(ii) 1 to 5% by weight of abamectin; and(iii) 1 to 5% by weight of a dispersing agent comprising an acrylic graft copolymer solution in water and propylene glycol.0

21: 2024/03817. 22: 2024/05/16. 43: 2024/12/10

51: A61M

71: ORAGENICS, INC.

72: VANLANDINGHAM, Jacob, LEWANDOWSKI, Michael, STOWELL, Kelly M., LUCAS, Jonathan, COCHRAN, Travis

33: US 31: 63/257,117 32: 2021-10-19

54: BREATH-POWERED NASAL DEVICES FOR TREATMENT OF TRAUMATIC BRAIN INJURY

(TBI), INCLUDING CONCUSSION, AND METHODS AND METHODS

00: -

The present invention is directed to a single-directional insufflator or breath-powered nasal device that provides unique dual airflow for propelling a drug substance into a nasal cavity, preferably deep into the superior nasal cavity and into the olfactory region and the trigeminal nerve mucosa, for rapid diffusion into the brain for the treatment of nasal and/or central nervous system ("CNS") injury, disease or disorder, especially brain injury, such as traumatic brain injury ("TBI"), including concussion, and methods regarding nasal treatment therewith. Breath-powered nasal devices for delivering a somewhat tight or confined, concentrated plume of drug substance deep into the nasal cavity to targeted sites, bypassing the blood brain barrier, namely the olfactory nerve to provide concentrated drug substance for direct absorption into the brain are disclosed. The confined plume of drug substance propelled from the nasal device by a patient's breath is narrow in the vertical resembling the diameter of the inner chamber in which the drug substance is stored. By forming this narrow or confined plume, a greater concentration of the drug substance can be deposited at the deeper nasally targeted sites. The breath-powered nasal devices of the present invention accomplish this unique advantage by the use of a novel dual elongated double-walled tube chamber comprised of an outer hollow chamber and the inner chamber in which the inner chamber is stabilized in the outer chamber by preferably two, three or more ribs. More specifically, the breath-powered nasal device uses the patient's own breath to blow air simultaneously at the same force rate through both chambers. As the blown air exits both chambers, the propelled air from the outer tube chamber surrounds the drug substance propelled from the inner tube chamber within the blown air forcing the drug substance to exit in a tight or confined, concentrated plume shape in the vertical, so that a higher concentration of drug substance reaches the targeted nasal sites, as compared to a conical fanned- out plume shape of drug substance exiting a single hollow chamber, as illustrated in FIGS. 44- 45. This unique feature allows diseases or injuries of the brain to be treated more effectively with a drug substance without or

with minimized systemic or Blood Brain Barrier ("BBB") issue. The present invention uses a patient's natural breath to blow air through both the inner drug chambers to propel a drug substance from the inner drug substance chamber deep into the nasal cavity to targeted sites, bypassing the BBB, providing the potential to better treat central nervous system diseases such as traumatic brain injury, including concussions, migraines, epilepsy, insomnia, and post-operative pain, the latter of which is often remedied by opioids.

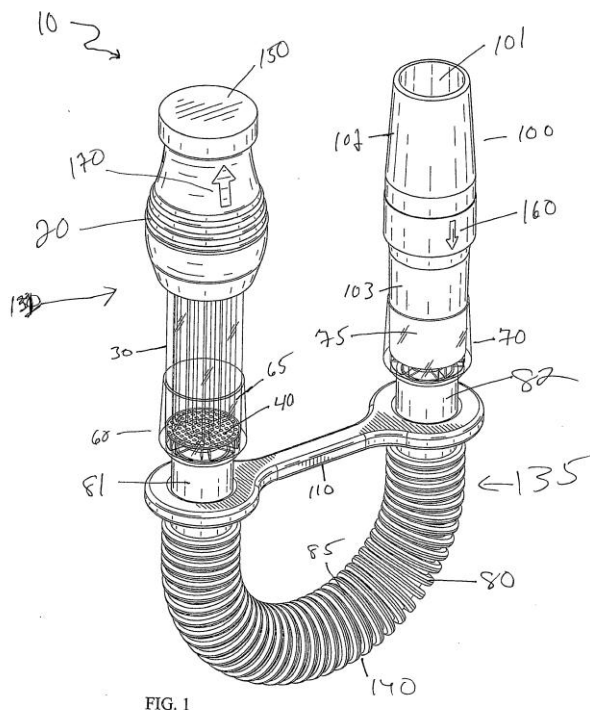
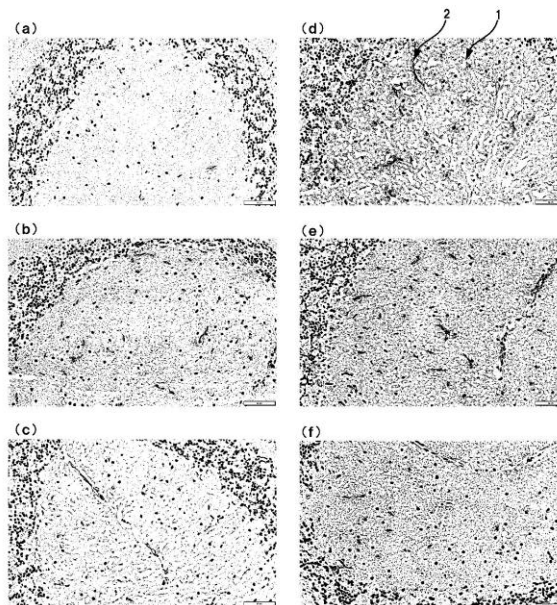


FIG. 1

for example, an amino acid sequence selected from the group consisting of amino acid sequences expressed by SEQ ID NOs: 3-7 and SEQ ID NO: 55, or a mutant of the same.



21: 2024/03856. 22: 2024/05/17. 43: 2024/12/11
 51: E03B; E03C
 71: MAREE, Johannes Hendrik Loubser
 72: MAREE, Johannes Hendrik Loubser
 33: ZA 31: 2022/06285 32: 2022-06-07

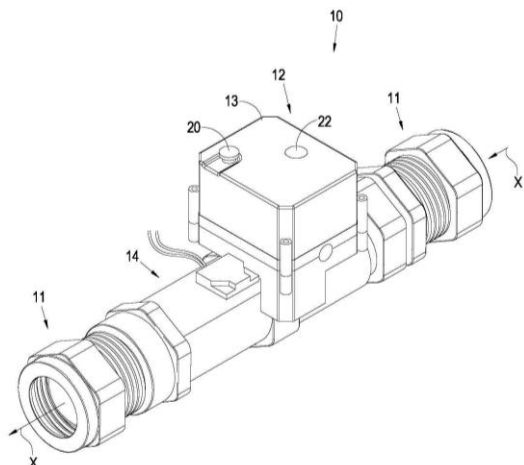
54: A METHOD OF CONTROLLING A VALVE ASSEMBLY

00: -
 The invention relates to a method (30) of controlling a valve assembly (10) which includes a motorised valve (12) and a flow sensor (14). The method (30) aims to control water usage, e.g., hot water usage, so that, should a user exceed usage limits (T_{total}), a valve (12.2) is temporarily closed to interrupt water supply and prevent overuse. The valve assembly (10) is characterized in that it is configured to perform a warning action in a warning state to warn the user that the predefined usage limits are approaching by momentarily restricting water flow by at least partially closing the valve (12.2). The resultant change in water flow or water temperature through the valve assembly (10) must be sufficient to be noticeable by the user, otherwise it would not serve as a warning that the usage limits are drawing near, and water interruption is imminent.

21: 2024/03854. 22: 2024/05/17. 43: 2024/12/12
 51: A61K; A61P; C07K; C12N; C12P
 71: JCR PHARMACEUTICALS CO., LTD.
 72: ONOUCHI, Takashi, TAKAHASHI, Kenichi
 33: JP 31: 2021-189037 32: 2021-11-19

54: PEPTIDE HAVING AFFINITY FOR HUMAN TRANSFERRIN RECEPTOR

00: -
 In one embodiment, the present invention pertains to a peptide having affinity for the human transferrin receptor, and to applications of the same, wherein in order to pass through the blood-brain barrier, the peptide can be used by binding to any compound (such as proteins, nucleic acids, and low-molecular weight compounds) that should function in the central nervous system (CNS). The peptide includes,



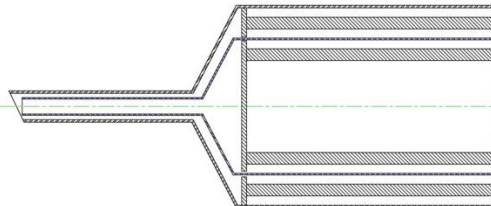
21: 2024/03879. 22: 2024/05/20. 43: 2024/12/11
 51: A01N
 71: MANGOSUTHU UNIVERSITY OF TECHNOLOGY
 72: ANANDRAJ, Akash
 33: ZA 31: 2023/05712 32: 2023-05-29
54: BROAD-SPECTRUM ORGANIC HERBICIDE
 00: -

The invention provides an herbicide composition, a broad-spectrum organic herbicide to help control various invasive weeds. The composition includes 7-deoxy-sedoheptulose; a hygroscopic salt or salt mixture; and a synthetic auxin.

21: 2024/03880. 22: 2024/05/20. 43: 2024/12/12
 51: A22C; A23L; A23P; A47J
 71: NEL, Petrus Jacobus
 72: NEL, Petrus Jacobus
54: A FOOD PRODUCT AND A METHOD AND APPARATUS FOR MANUFACTURING THE FOOD PRODUCT
 00: -

The invention relates to an apparatus for and a method of manufacturing a co-extruded food product. The apparatus has a body defining an inner and an outer volume which is filled with distinct ingredients. The body has a double nozzle at one end and an opposing end configured to receive an actuating member. The actuating member is used to push the ingredients through the nozzle out of the inner and outer volumes to form an extruded food product. The food product has a core and an intermediate layer surrounding the core. The core corresponds to the ingredient of the inner volume of the apparatus whereas the intermediate layer

corresponds to the ingredient of the outer volume. The extruded food product is housed in a casing, into which it has been extruded. The casing forms the outer layer of the food product.



21: 2024/03887. 22: 2024/05/20. 43: 2024/12/11
 51: D06F
 71: MICROWAVE SOLUTIONS GMBH
 72: ROSSOUW, Mathys Johannes
 33: ZA 31: 2021/06214 32: 2021-10-27
54: APPARATUS FOR IMPROVED CLEANING USING MICROWAVE ENERGY
 00: -

The invention provides a cleaning apparatus (10) which includes a tub (12) which has a first circumscribing wall (14) and a pair of opposed sidewalls (16, 18) positioned on a rotational axis, an enclosure (22) defined within the first wall and the sidewalls, a drum (24) positioned inside the enclosure, and which includes a second circumscribing wall (28), a pair of opposed end walls (30, 32) positioned on the rotational axis, a cavity (34) defined within the second wall and the end walls, into which an item to be cleaned is placed, and a drive means (27) which is connected to the drum to provide rotational movement to the drum about the axis, characterized in that the cleaning apparatus includes a plurality of microwave generators (38A, 38B), each of which is adapted to direct microwaves into the cavity.

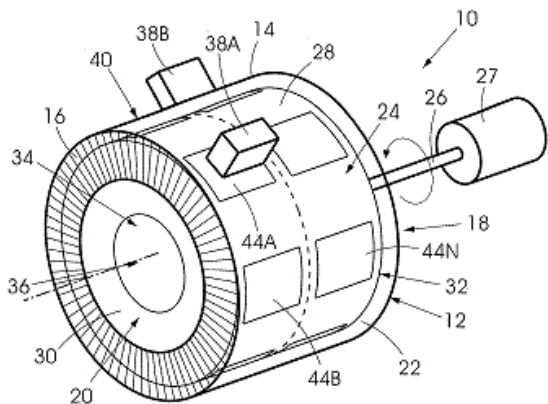


Figure. 1

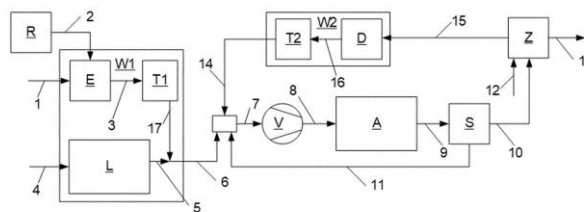


Fig. 1

21: 2024/03894. 22: 2024/05/20. 43: 2024/12/12
 51: C01B; C01C; C25B; F25J
 71: Linde GmbH
 72: SCHWARZHUBER, Josef, HEINZEL, Albrecht, REINKE, Michael
 33: EP(DE) 31: 21020596.9 32: 2021-11-26
54: METHOD AND APPARATUS FOR PRODUCING AMMONIA
 00: -

The invention relates to a method and an apparatus for producing ammonia (13), in which a first hydrogen/nitrogen fraction (6) is provided at a time-varying flow rate in order to form an ammonia synthesis gas (8) which is converted to ammonia in an ammonia synthesis (A), wherein the first hydrogen/nitrogen fraction (6) is supplemented by a second hydrogen/nitrogen fraction (14) in such a way that, during normal operation, the ammonia synthesis gas (8) can always be supplied to the ammonia synthesis (A) at a flow rate which exceeds a predefined minimum value. The characterising feature here is that ammonia (10) produced in the ammonia synthesis (A) is transferred in liquid form to a storage means (Z) from which ammonia (15) is taken and split into hydrogen and nitrogen in order to obtain hydrogen and nitrogen so as to form the second hydrogen/nitrogen fraction (14).

21: 2024/03938. 22: 2024/05/21. 43: 2024/12/11
 51: C22C; C23C
 71: NIPPON STEEL CORPORATION
 72: TOKUDA, Kohei, SAITO, Mamoru, FUKUDA, Yuto, GOTO, Yasuto, MAJIMA, Yasuhiro, YAMATO, Naoyuki, NAKAMURA, Fumiaki, SHINDO, Hidetoshi, KAWANISHI, Koji, MATSUMURA, Kenichiro, TAKEBAYASHI, Hiroshi
 33: JP 31: 2021-174676 32: 2021-10-26
54: PLATED STEEL SHEET
 00: -

The present invention provides a plated steel sheet which has a plating layer on the surface of a steel sheet. With respect to the plating layer, the total amount EA of Sn, Bi and In is less than 0.75%; the total amount EB of Ca, Y, La and Ce is 0.03% to 0.60%; the total amount EC of Cr, Ti, Ni, Co, V, Nb, Cu and Mn is 0% to 1.00%; Sn ≤ Si and 20.0 ≤ Mg/Si are satisfied; and in the X-ray diffraction pattern of the surface of the plating layer, the X-ray diffraction peak of Al_{1-x}Zn_xCa, the X-ray diffraction peak of CaZn₂ and the X-ray diffraction peak of η'-MgZn₂ satisfy a specific relationship.

21: 2024/03990. 22: 2024/05/22. 43: 2024/12/12
 51: C08K
 71: LANXESS Corporation
 72: HE, Qingliang, JACOBS, Patrick
 33: US 31: 63/283,360 32: 2021-11-26
54: FLAME RETARDANT AND SYNERGIST COMBINED FOR USE WITH THERMOPLASTICS
 00: -

The present disclosure provides a novel flame retardant and synergist additive composition including at least one phosphorus-containing flame retardant and at least one metal hypophosphite, as described herein. The presently disclosed combination of additives exhibit excellent flame retardant performance in thermoplastic polymers, while also resulting in excellent processing stability and mechanical properties.

21: 2024/03996. 22: 2024/05/22. 43: 2024/12/12
 51: A63B
 71: Implus Footcare, LLC
 72: VIELMO, Tommaso
 33: US 31: 63/275,153 32: 2021-11-03
54: SWING TRAINING DEVICE
 00: -

A swing training device for practicing a sports swing that includes a body having a first end region and a second end region and a receiving slot extending along the body. At least one attachment member is received within the receiving slot and is adapted to couple the first end region and the second end region to define a hollow shape. In some embodiments, the first end region and the second end region are adapted to translate relative to each other.

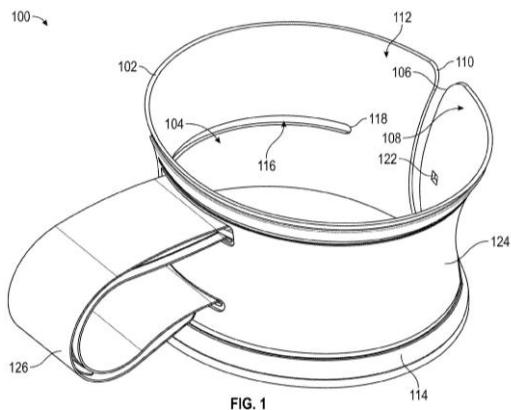


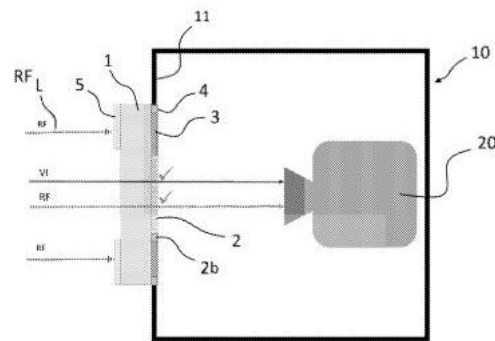
FIG. 1

21: 2024/04030. 22: 2024/05/23. 43: 2024/12/17
 51: G01J; G02B; H05K
 71: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, UNIVERSITE DE RENNES 1, SAFRAN ELECTRONICS & DEFENSE
 72: TRICAS, Quentin, FOUTREL, Patrice, CASTEL, Xavier, LE PAVEN, Claire, BESNIER, Philippe
 33: FR 31: FR2111517 32: 2021-10-28

54: SELF-ADAPTIVE THIN-FILM ELECTROMAGNETIC SHIELDING SCREEN

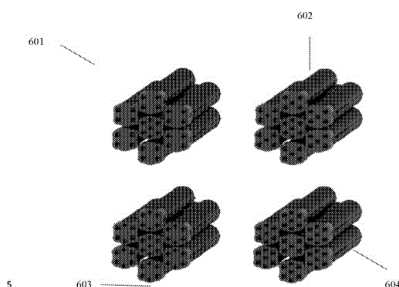
00: -
 The invention relates to a self-adaptive shielding device for a lens or a window (1) of a piece of equipment provided with an electrically conductive enclosure (10) enclosing an optical or RF sensor (20) behind said lens or said window, said device comprising, on at least one face of said lens or said window, a shielding screen comprising a switchable RF shielding mesh (2) with a micrometric pitch at least partially surrounded by an edge of metal-insulator transition material (3) arranged between said mesh and an electrically conductive envelope (11) for shielding said equipment, comprising a susceptor element (5) arranged opposite or in contact with said metal-insulator transition material and suitable for transforming incident

electromagnetic energy (RFH) into an amount of heat for activating said metal-insulator transition material (3, 3a, 31), said susceptor element being dimensioned to cause a transition to the conductive state of said metal-insulator transition material (3, 3a, 31, 31a) by means of said electromagnetic energy so as to electrically connect said mesh to said electrically conductive envelope when the incident electromagnetic energy exceeds a given threshold.



21: 2024/04032. 22: 2024/05/23. 43: 2024/12/17
 51: B64G
 71: AGNIKUL COSMOS PRIVATE LIMITED
 72: -, Syed Peer Mohamed Shah Khadri, RAVICHANDRAN, Srinath
 33: IN 31: 202141039671 32: 2021-09-02
54: MODULAR CONFIGURATION OF LAUNCH VEHICLE SYSTEM
 00: -

The present invention relates to a modular configuration of the launch vehicle system. More specifically, it relates to the modular configuration technology developed to optimise the launch vehicle with respect to the number of engines in the lower stage or the number of stages itself in order to get a most efficient launch possible for a particular payload being launched. In the present invention the vehicle is such that the modularity is passed down to sub-system level which thereby reduces the mass of unused components and the modifiable cluster can be used as a booster unit to carry heavier payloads to higher orbits. Depending upon the mass of the payload to be carried to a particular orbit, either the number of stages or the number of engines (601, 602, 603, 604), are either attached or removed from the vehicle and thus increasing the efficiency of the trajectory. The present invention reduces the time and cost involved in reconfiguration as well.



21: 2024/04036. 22: 2024/05/23. 43: 2024/12/13

51: A01N

71: Valent U.S.A. LLC

72: CHEUNG, Tak Wai, ZHOU, Ke

33: US 31: 63/284,214 32: 2021-11-30

54: STABLE AGRICULTURAL COMPOSITIONS

00: -

The present invention is directed to agricultural compositions comprising at least one agriculturally active ingredient and gellan gum. The present invention is further directed to tank mixes comprising a high electrolyte composition comprising at least one agriculturally active ingredient and a second composition comprising at least one agriculturally active ingredient, wherein gellan gum is present in the high electrolyte composition or the second composition or is added to the tank mix.

21: 2024/04059. 22: 2024/05/24. 43: 2024/12/11

51: A61K

71: PHARMAPLOT PRIVATE COMPANY

72: SRYRIDON, Mavrokordopoulos

54: PHARMACEUTICAL COMPOSITION CONTAINING ATORVASTATIN AND EZETIMIBE

00: -

The present invention relates to a pharmaceutical composition for oral administration comprising a therapeutically effective quantity of atorvastatin or a pharmaceutically acceptable salt thereof, as a first active ingredient, in a fixed-dose combination with a therapeutically effective quantity of ezetimibe or a pharmaceutically acceptable salt thereof, as a second active ingredient and a process for the preparation of said pharmaceutical composition.

21: 2024/04082. 22: 2024/05/24. 43: 2024/12/18

51: A61K; A61P; C12N; C12Q; G01N

71: The First Affiliated Hospital of Bengbu Medical College

72: WANG, Xiaojing, LIU, Fei, ZHANG, Linling, MA, Chao, ZHOU, Hangtian, XU, Lingling, WU, Nan, CHEN, Fuliang

33: CN 31: 202111256243.8 32: 2021-10-27

54: USES OF NON-SMALL CELL LUNG CANCER TARGET ARID1A AND INHIBITOR THEREOF IN PREPARATION OF DRUG FOR TREATING LUNG CANCER

00: -

Provided in the present invention are the uses of a non-small cell lung cancer target ARID1A and an inhibitor thereof in the preparation of a drug for treating lung cancer. Specifically, provided in the present invention is the use of a glycolysis inhibitor, which is used for preparing a composition or a preparation. The composition or the preparation is used for: (a) preventing and/or treating lung cancer, wherein the lung cancer is an ARID1A-negative lung cancer; and/or (b) inhibiting lung cancer cells, wherein the lung cancer cells are ARID1A-negative lung cancer cells. The present invention provides a new and effective therapeutic means for lung cancer treatment.

21: 2024/04095. 22: 2024/05/27. 43: 2024/12/11

51: D21H

71: MONDI AG

72: LEITNER, Johannes

33: AT 31: A 50426/2023 32: 2023-05-31

54: SURFACE SIZING AGENT FOR PAPER AND/OR CARDBOARD

00: -

In a surface sizing agent for paper and/or cardboard containing lignin and lignin sulfonates and at least one further surface-finishing substance, surface sizing agents for paper and/or cardboard contain lignin and lignin sulfonates and at least one further surface-finishing substance, wherein it contains 0.1 to 50 % by weight, preferably 5 to 20% by weight of a lignosulfonate source, 0.1 to 50% by weight, preferably 5 to 25% by weight of lignin, in particular kraft lignin and at least one further surface-finishing substance selected from the group of hydroxylated polymers, such as starch, PVOH, natural or synthetic hydrophobic materials, such as tall oil, tall oil -soap or refined -products thereof or hydrophobic materials, such as synthetic or natural waxes, styrenes, butadiene, acrylates, alkyl ketene dimer and oils thereof, such as -AnKD, alkenyl succinic -acid anhydride and the remainder water as a

solvent and/or suspending agent, –as well as processes for the production and use of the surface sizing agent.

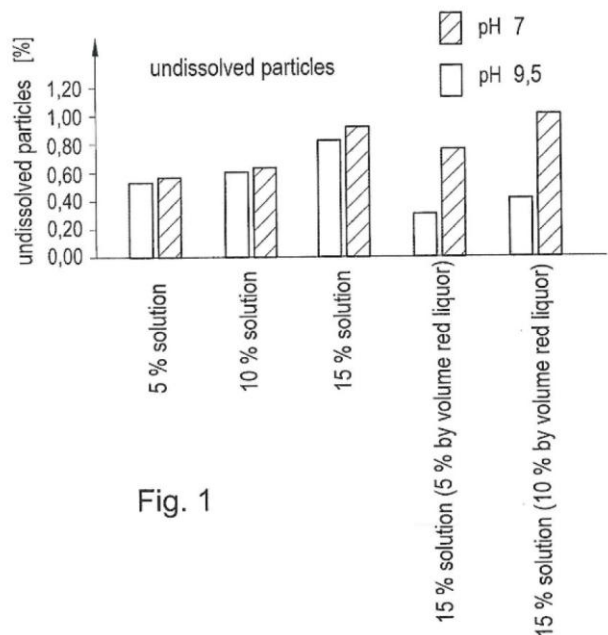
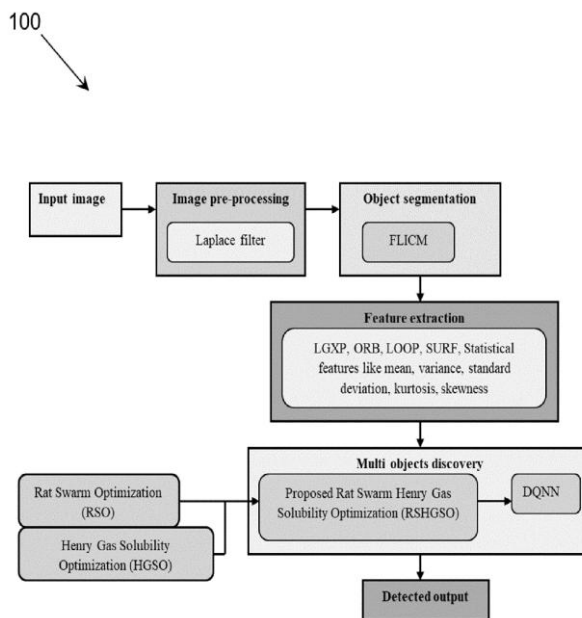


Fig. 1

leveraging advanced pre-processing methods and deep learning techniques, resulting in accurate identification of objects within the captured images.



21: 2024/04096. 22: 2024/05/27. 43: 2025/01/20
51: G08G

71: Mr. Babruvan Ramrao Solunke, Dr. Sachin Ratikant Gengaje, Dr. Vijay Anant Athavale

72: Mr. Babruvan Ramrao Solunke, Dr. Sachin Ratikant Gengaje, Dr. Vijay Anant Athavale

54: OBJECT DETECTION IN ADVANCED DRIVING ASSISTANCE SYSTEM USING NOVEL MACHINE LEARNING ALGORITHMS

00: -
The object detection system (100) consists of an input unit (102) for capturing images and processing circuitry (104) linked to it. This circuitry is designed to perform several tasks: firstly, it generates pre-processed images using a Laplacian filter technique, identifying regions where intensity changes occur. Subsequently, it creates segmented images by employing the Fuzzy Local Information C-Means (FLICM) technique to segregate pixels based on pre-processed images. Features are then extracted from these segmented images, including LGXP, ORB, SURF, and statistical features. Finally, the system utilizes a Deep Quantum Neural Network (DQNN) technique to detect multiple objects, trained with the Rat Swarm Henry Gas Solubility Optimization (RSHGSO) technique. This comprehensive approach ensures effective object detection by

21: 2024/04097. 22: 2024/05/27. 43: 2025/01/20
51: G06F

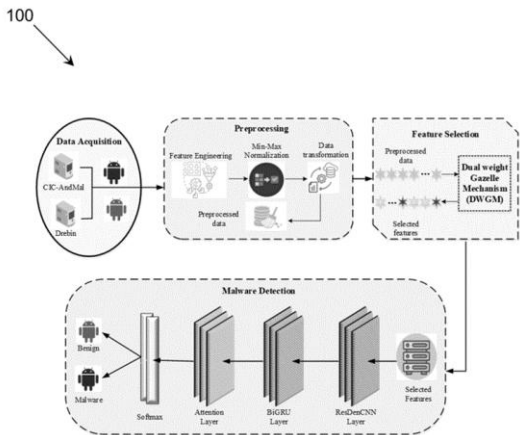
71: Miss. Rajeshwari Krishnahari Gundla, Dr. Sachin Ratikant Gengaje, Dr. Vijay Anant Athavale

72: Miss. Rajeshwari Krishnahari Gundla, Dr. Sachin Ratikant Gengaje, Dr. Vijay Anant Athavale

54: MALWARE DETECTION SYSTEM AND METHOD THEREOF

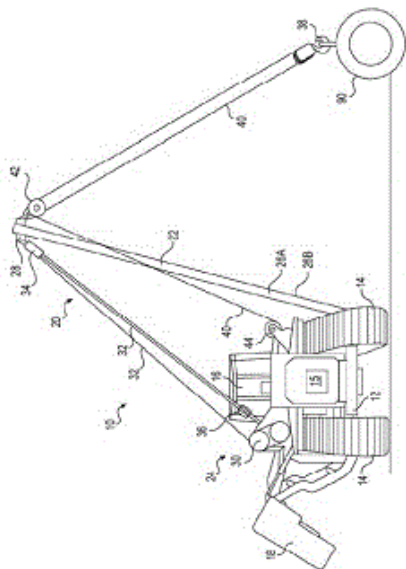
00: -
Disclosed is a malware detection system (100) comprises an input unit (102) designed to receive input data from one or more applications. Connected to this unit is processing circuitry (104), responsible for generating pre-processed data from the input using techniques such as minimum-maximum normalization and data transformation. This circuitry (104) employs the Dual Weight Gazelle Mechanism (DWGM) technique to select multiple features from the pre-processed data. These features undergo comparison with features of an android defence mechanism to detect potential instances of malware. Subsequently, the processing circuitry (104) classifies the selected features into benign or malware categories based on the comparison results. This comprehensive approach ensures the system's ability to efficiently identify and categorize

malware, enhancing overall security within digital environments.



21: 2024/04098. 22: 2024/05/27. 43: 2024/12/19
 51: F16L
 71: CATERPILLAR INC.
 72: TABUTIN, SIMON, LAWSON, SEAN D
 33: US 31: 18/331,987 32: 2023-06-09
54: LIFTING EYES FOR COUNTERWEIGHTS
 00: -

In some implementations, a counterweight assembly, for a lifting machine, includes a plurality of counterweight slabs, including first and second outer counterweight slabs, and one or more inner counterweight slabs sandwiched between inner lateral surfaces of the first and second outer counterweight slabs. A center slab, of the one or more inner counterweight slabs, includes a lifting eye embedded in a body of the center slab.



21: 2024/04099. 22: 2024/05/27. 43: 2025/02/12
 51: A61K; A61P
 71: TAIZHOU UNIVERSITY
 72: Yueling LI, Zexin JIN, Junmin LI, Yongge YUAN, Xiaoyan WANG, Jianhui LI
54: COMPOSITE BACTERIAL AGENT FOR INCREASING THE BIOMASS OF CONTAINER SEEDLINGS OF HEPTACODIUM MICONIODES AND ITS APPLICATION

00: -
 The present invention provides a compound bacterial agent for increasing the biomass of the container seedlings of *Heptacodium miconioides* and its application, which belongs to the technology field of agricultural microbial. The bacterial agent of the present invention is composed of any two strains of *Paraglomus occultum* Bj04B strain, *Acacospora scrobiculata* Hk02A strain or *Glomus etunicatus* Xj04B strain; and a mass ratio of any two strains is 1:1. The bacterial agent of the present invention can effectively improve the biomass of the container seedlings of *H. miconioides*, accumulate sufficient nutrients for the growth of *H. miconioides*, and obviously promote the growth of the container seedlings of *H. miconioides*.

21: 2024/04109. 22: 2024/05/27. 43: 2025/02/12
 51: A42B
 71: The First Hospital of Yulin
 72: Gao Yunfei, Bai Xiaoxiao, Liu Xia
 33: CN 31: 2024105580261 32: 2024-05-07
54: A HEAD-MOUNTED PROTECTIVE DEVICE FOR INFECTIOUS DISEASE DEPARTMENT

00: -
 The invention discloses a head-mounted protective device for infectious disease department, comprising a head-mounted helmet body. The outer front end of the head-mounted helmet body is provided with a protective mask, and the connection of the protective mask and the head-mounted helmet body is provided with a unidirectional rotating component. The upper end of the head-mounted helmet body is provided with an adjusting rod, and the outer side of the movable top block is provided with a plastic brace connected with the head-mounted helmet body. The infection unit is a head-mounted protective device can be adjusted by unidirectional rotation. This avoids the problem of opening and closing at will and can be adjusted according to the

size of the user's head circumference. This can avoid the phenomenon of loosening and falling off when worn by people with different head circumference, which can be adjusted loosely according to needs, and improve the practical effect of the device.

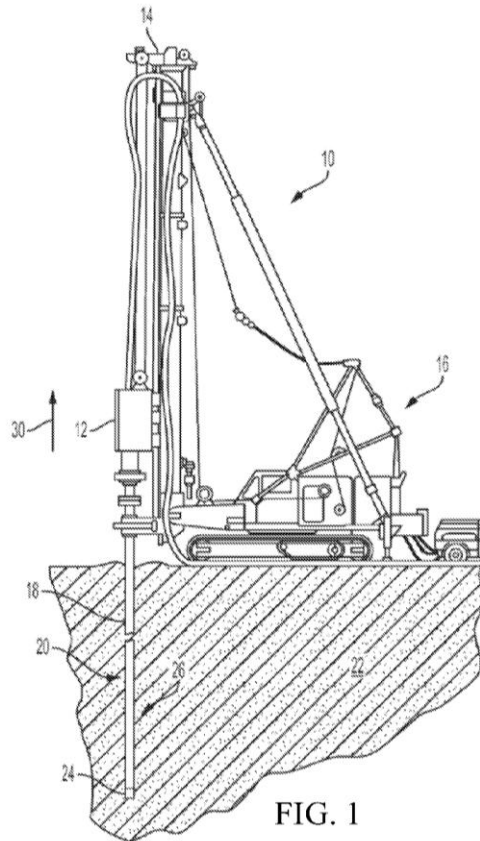
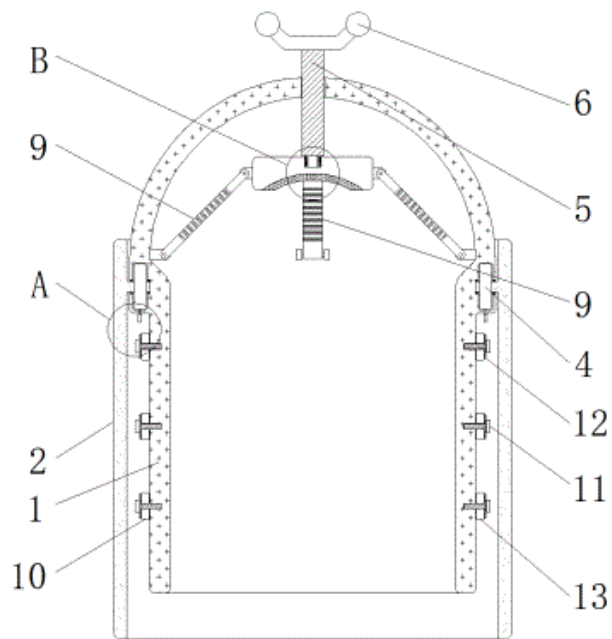


FIG. 1

21: 2024/04116. 22: 2024/05/27. 43: 2024/12/20
 51: E21B
 71: VERACIO LTD.
 72: BRUBACHER, Adrian, DRENTH, Christopher L.
 33: US 31: 63/285,844 32: 2021-12-03
54: CONTINUOUS SAMPLING DRILL BIT
 00: -

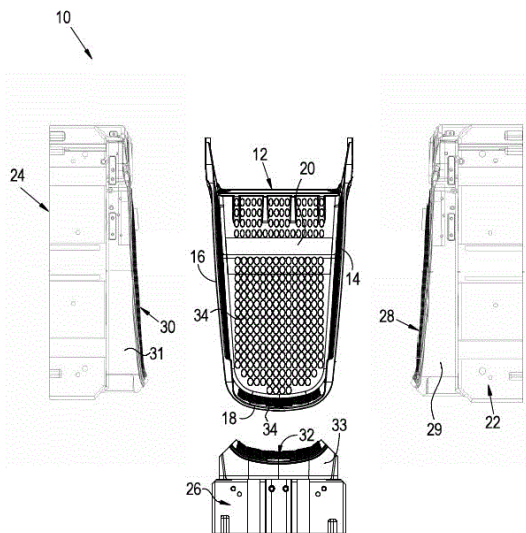
A drill bit can be configured to form core segments during drilling. The drill bit can have having a central axis and a shank defining an inner bore. A crown can be coupled to the shank. The crown can define a cutting face and a core receiving slot that extends inwardly into the crown from the cutting face. The crown can define an inner operative circumference. A core break structure can be disposed within the shank. The core break structure can define a core break surface that extends inwardly toward the central axis and intersects an imaginary 3D projection of the inner circumference projected along the central axis.

21: 2024/04160. 22: 2024/05/28. 43: 2024/12/18
 51: A61K
 71: PHARMAPLOT PRIVATE COMPANY
 72: SRYRIDON, Mavrokordopoulos, DIMITRIOS, Kostakis
 33: GR 31: 20230100883 32: 2023-10-24
54: ORAL SOLUTION CONTAINING LISDEXAMFETAMINE AND PROCESS FOR THE PREPARATION THEREOF
 00: -

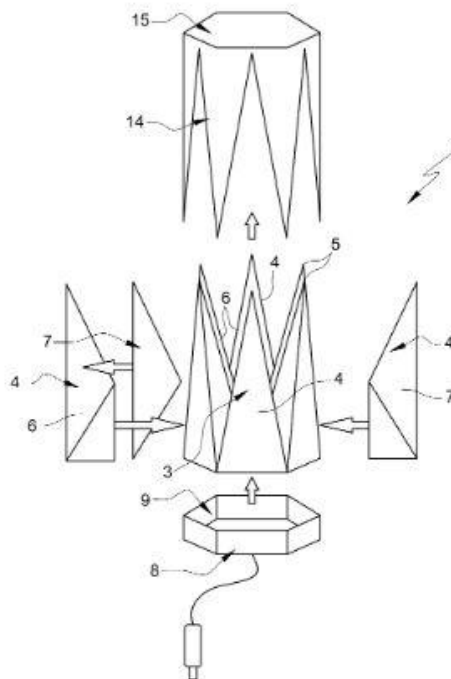
This invention relates to an improved pharmaceutical composition comprising an amount of Lisdexamfetamine or a pharmaceutically acceptable salt thereof, as an active ingredient, wherein said composition is an oral solution having a pH in the range of 3.0 to 5.0 and is free of organic solvents and a process for the preparation thereof.

21: 2024/04163. 22: 2024/05/28. 43: 2024/12/18
 51: B60R; B62B
 71: SUPERCART SOUTH AFRICA (PTY) LTD
 72: WOLFE, Michael Castledine
54: APPARATUS FOR AND METHOD OF FORMING A SHOPPING BASKET BODY WITH INTERCHANGEABLE SIDE PANELS

00: -
 An apparatus for forming a plastic shopping basket body is provided, the basket body comprising at least three side walls. The apparatus comprises a plurality of mould sides, one per side wall of the basket body, each mould side including a form insert panel to mould the relevant side wall with customer-specific formations and/or apertures, the form insert panels being (readily) interchangeable to enable a plurality of basket bodies to be moulded with different customer-specific formations and/or apertures, for a plurality of different customers. In an embodiment, the customer-specific formations include branding and/or logos, and the customer-specific apertures include the shape, configuration and pattern of apertures defined in the walls of the basket body that is specific or specifically assigned to a particular customer. The basket bodies may be moulded in different colours, so as to further distinguish the basket bodies of and between different customers.



axis and a plurality of support elements (4) distributed around the central axis, each support element (4) comprising a vertex (5) and two support faces (6) that are substantially planar and are connected to one another along a ridge line (Lc) inclined relative to the central axis and extending to the vertex (5) of the respective support element (4) away from the central axis; and a plurality of photovoltaic coverings (7) that are attached to the three-dimensional support structure (3), each photovoltaic covering (7) being arranged on a respective support face (6) and extending substantially parallel thereto, each photovoltaic covering (7) comprising at least one photovoltaic cell and at least partially covering the respective support face (6).



21: 2024/04171. 22: 2024/05/28. 43: 2024/12/18
 51: H02S
 71: GAUTHIER, Sylvain
 72: GAUTHIER, Sylvain
 33: FR 31: 21/14686 32: 2021-12-30
54: THREE-DIMENSIONAL PHOTOVOLTAIC MODULE

00: -
 The invention relates to a three-dimensional photovoltaic module (2) comprising a three-dimensional support structure (3) having a central

21: 2024/04180. 22: 2024/05/28. 43: 2024/12/23
 51: B65D
 71: Top Cap Holding GmbH
 72: PIECH, Gregor Anton
 33: DE 31: 10 2021 131 239.6 32: 2021-11-29
54: CAN LID AND METHOD FOR PRODUCING A CAN LID

00: -
 A can lid comprises a metallic lid face in which an opening is formed, which opening is delimited by a closed edge of the lid face and is closed by a closure piece of the metallic lid face, wherein the closure

piece is separated from the surrounding lid face by a micro-gap which extends at least in some sections around the edge of the lid face. A first end region of the closure piece is connected to the surrounding lid face via a pivot bearing. The can lid also comprises a tear-open element which acts on a second end region, opposite the pivot bearing, of the closure piece, so that it is possible to pivot the closure piece out of the plane defined by the opening by pulling on the tear-open element. The micro-gap is interrupted between the first end region and the second end region by at least one holding piece by which the closure piece and the surrounding lid face are integrally bonded to one another.

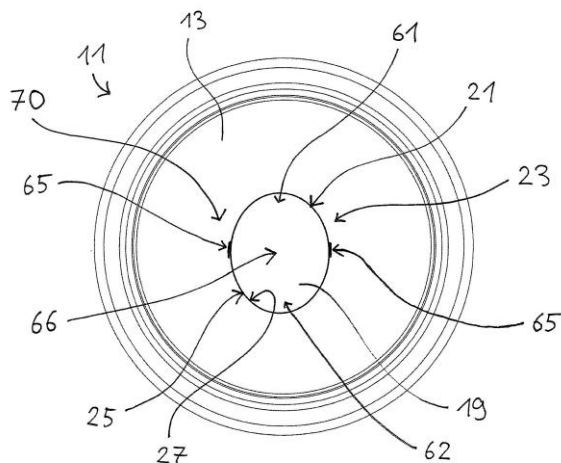
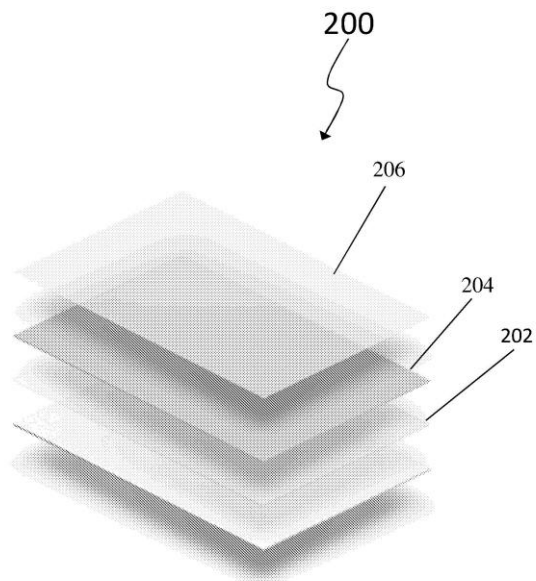


Fig. 2

upon absorption of electromagnetic radiation; and a top layer that is comprised of a single or multi layered material configured to reflect selected spectral band and/or amplify selected spectral band of the electromagnetic radiation transmittable to the middle layer.



21: 2024/04181. 22: 2024/05/28. 43: 2024/12/18
 51: F25B; G02F
 71: SolCold Ltd.
 72: SHENHAV, Yaron, FOX, Maayan, TEMPLEMAN, Tzvi
 33: IL 31: 288642 32: 2021-12-02

54: APPARATUS FOR AMPLIFYING COOLING VIA INTERACTION WITH ELECTROMAGNETIC RADIATION AND ANTI-STOKES FLUORESCENCE

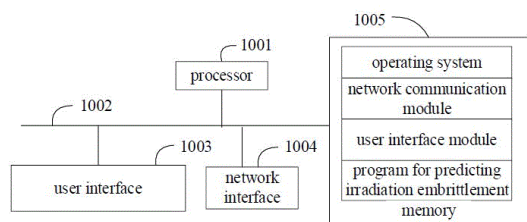
00: -
 The invention is an apparatus for amplifying cooling through interaction with electromagnetic radiation for optical cooling of objects and/or object surfaces with essentially three layers, which are a bottom layer that is comprised of a single or multi layered material configured to emit IR radiation; a middle layer that is comprised of a single or multi layered material configured to respond in anti-Stokes fluorescence

21: 2024/04205. 22: 2024/05/30. 43: 2024/12/18
 51: G01T; G21C
 71: NUCLEAR AND RADIATION SAFETY CENTER
 72: CHU, Qibao, WANG, Qing, WANG, Chen, FANG, Yonggang, ZENG, Zhen, LI, Zhongxun
 33: CN 31: 202311511333.6 32: 2023-11-13

54: METHOD, SYSTEM, AND DEVICE FOR PREDICTING IRRADIATION EMBRITTLEMENT DEGREE, AND READABLE STORAGE MEDIUM

00: -
 Disclosed are a method, system and device for predicting an irradiation embrittlement degree and a readable storage medium. The method for predicting an irradiation embrittlement degree includes: obtaining vessel characteristic data and operating data of a reactor pressure vessel; the vessel characteristic data includes a material property and a chemical composition, and the operating data includes an operating temperature and a neutron fluence; based on all chemical elements included in the chemical composition, determining a target chemical element among all the chemical elements matching a preset influencing chemical element, and determining a chemical element mass percentage of the target chemical element; and determining a

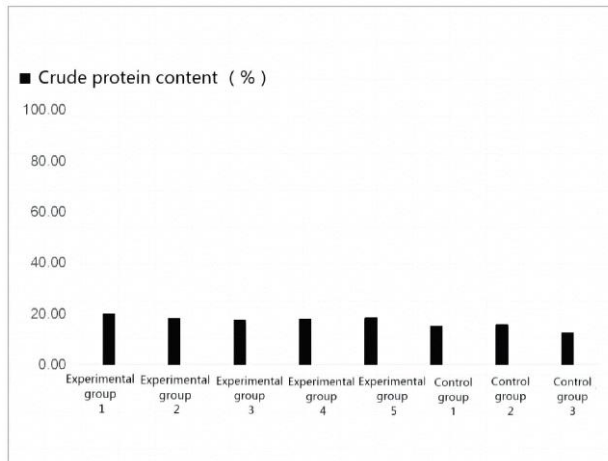
model for predicting a reference temperature change value corresponding to the material property, inputting the operating data and the chemical element mass percentage into the model for predicting the reference temperature change value, outputting a prediction result of the reference temperature change value, and evaluating the irradiation embrittlement degree of the reactor pressure vessel based on the prediction result of the reference temperature change value.



21: 2024/04212. 22: 2024/05/30. 43: 2025/01/28
 51: A01G
 71: Tongliao Institute of Agricultural and Animal Husbandry Sciences
 72: Dan WANG, Chao ZHANG, Chunlei WANG, Hanmiao LIU, Ye FENG, Lihui GAO, Baoyuan ZHOU, Yajian LI, Xinbing WANG, Xinyue ZHAO, Wei ZHENG, Kuan PEI, Qi WANG, Tana, Xingtian JIA
 33: CN 31: 202410503975X 32: 2024-04-25
54: AN INTERCROPPING CULTIVATION METHOD FOR IMPROVING THE FEEDING QUALITY OF FORAGE RAPE AND SILAGE MAIZE

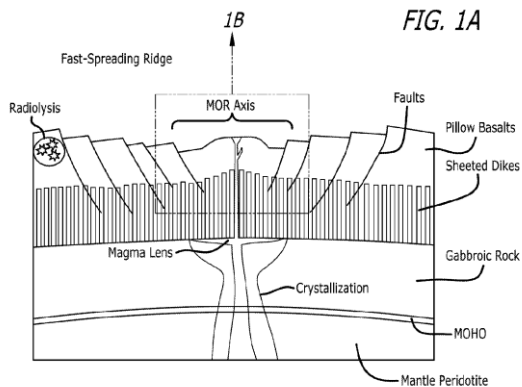
00: -
 The invention relates to an intercropping cultivation method for improving the feeding quality of forage rape and silage maize, which belongs to the field of forage crop planting technology, the intercropping cultivation method for improving the feeding quality of forage rape and silage maize comprises the following steps: S1, conducting the subsoiling and soil preparation, pouring the base fertilizer; S2, planting silage maize and forage rape at the same time, and the row ratio of silage maize to forage rape is 2:4; S3, pouring amide nitrogen fertilizer at the early flowering stage of forage rape; S4, harvesting forage rape plants and silage maize plants. By adjusting the type of base fertilizer poured in intercropping, selecting the co-sowing time of intercropping of forage rape and silage maize, adjusting the intercropping spacing of forage rape and silage maize, and determining the optimal

harvest time, the invention improves the intercropping method for forage crops in the Northwestern Hebei agro-pastoral ecotone, and it also improves the silage quality of cultivated forage rape and silage maize.



21: 2024/04253. 22: 2024/05/30. 43: 2025/01/21
 51: C01B
 71: OHIO STATE INNOVATION FOUNDATION
 72: DARRAH, Thomas, RAO, Vikram, WHYTE, Colin
 33: US 31: 63/203,815 32: 2021-07-30
 33: US 31: 17/815,903 32: 2022-07-28
54: SYSTEMS AND METHODS FOR GENERATION OF HYDROGEN BY IN-SITU (SUBSURFACE) SERPENTINIZATION AND CARBONIZATION OF MAFIC OR ULTRAMAFIC ROCK

00: -
 Apparatuses, systems, and methods are disclosed for producing and liberating hydrogen gas and sequestering carbon dioxide through sequential serpentization and carbonation (mineralization) reactions conducted in situ via one or more wellbores that at least partially traverse subterranean geological formations having large concentrations of mafic igneous rock, ultramafic igneous rock, or a combination thereof.



hammer carriage (6) in a direction towards the first guide end (4). The hammering device (1) also comprises a displacement carriage (8) arranged to be displaceable back and forth along the elongated linear carriage guide (3), and displacement means (9) connected to the displacement carriage (8) and arranged to displace the displacement carriage (8), wherein the displacement carriage (8) is arranged between the hammer carriage (6) and the first guide end (4). Furthermore, a method for operating a hammering device (1) is disclosed.

21: 2024/04262. 22: 2024/05/31. 43: 2024/12/19
 51: A61K
 71: PHARMATHEN S.A.
 72: KARAVAS, Evangelos, KOUTRIS, Efthymios, SAMARA, Vasiliki, KOUTRI, Ioanna, KALASKANI, Anastasia, FOUSTERIS, Manolis, PSARROU, Areti, KAPETANAKIS, Antonis

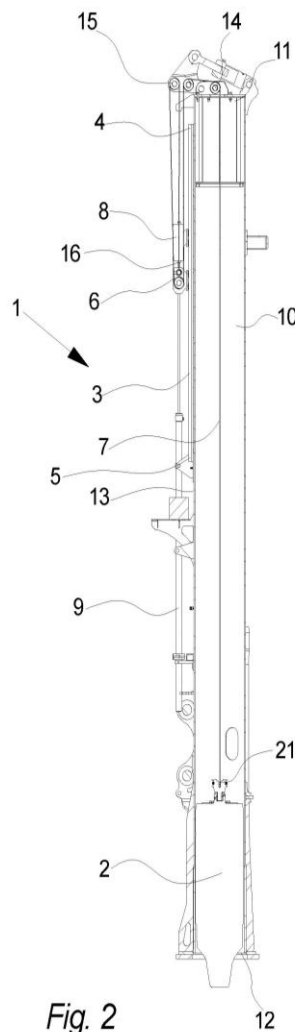
54: PARENTERAL FORMULATION OF A GLUCAGON-LIKE PEPTIDE-1 ANALOGUE AND METHOD FOR PREPARATION THEREOF

00: -
 The present invention relates to pharmaceutical compositions for parenteral administration comprising Liraglutide as the active ingredient. The present invention also provides a method of preparation of such composition involving specific manufacturing conditions to ensure finished product quality profile.

21: 2024/04291. 22: 2024/05/31. 43: 2024/12/23
 51: E02D; E02F
 71: Fractum ApS
 72: STOKHOLM, Thorkild Duusgaard

54: A HAMMERING DEVICE AND A METHOD FOR OPERATING A HAMMERING DEVICE

00: -
 Disclosed is a hammering device (1) comprising a hammer (2), an elongated linear carriage guide (3) including a first guide end (4) and a second guide end (5) at either ends of the elongated linear carriage guide (3) and a hammer carriage (6) arranged to be displaceable back and forth along the elongated linear carriage guide (3). The hammering device (1) further comprises a lifting line (7) connected to the hammer carriage (6) and to the hammer (2), so that the hammer (2) is displaced in response to displacement of the hammer carriage (6), wherein the lifting line (7) is extending from the



21: 2024/04295. 22: 2024/05/31. 43: 2024/12/23
 51: A61K; A61P; C07K
 71: Incyte Corporation
 72: MAYES, Patrick, NASTRI, Horacio G., BUONPANE, Rebecca A., REIS, Edimara S., STEWART, Shaun M., ZHOU, Jing, DELLER, Marc C., LEI, Hsiang-Ting, MCQUARTER, Leslie Brooke

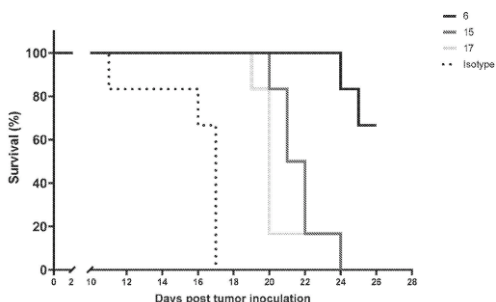
Epling, ZHAO, Yonghong, CELIK, Hamza, WASS, Brittney Melissa

33: US 31: 63/287,394 32: 2021-12-08

54: ANTI-MUTANT CALRETICULIN (CALR) ANTIBODIES AND USES THEREOF

00: -

Anti-mutant calreticulin (mutCALR) antibodies are disclosed. Also disclosed are related nucleic acids, vectors, cells, kits, and pharmaceutical compositions. Methods of treating or diagnosing myeloproliferative neoplasms with the anti-mutCALR antibodies are also disclosed.



21: 2024/04308. 22: 2024/05/31. 43: 2024/12/19 51: H01F

71: JIANGSU SHEMAR ELECTRIC CO., LTD. 72: MA, Bin, MA, Tingting, ZHANG, Xinxin, ZHOU, Shuchen, ZHANG, Xiaorong, LIU, Chao

33: CN 31: 202111647803.2 32: 2021-12-29

33: CN 31: 202111644185.6 32: 2021-12-29

33: CN 31: 202111644257.7 32: 2021-12-29

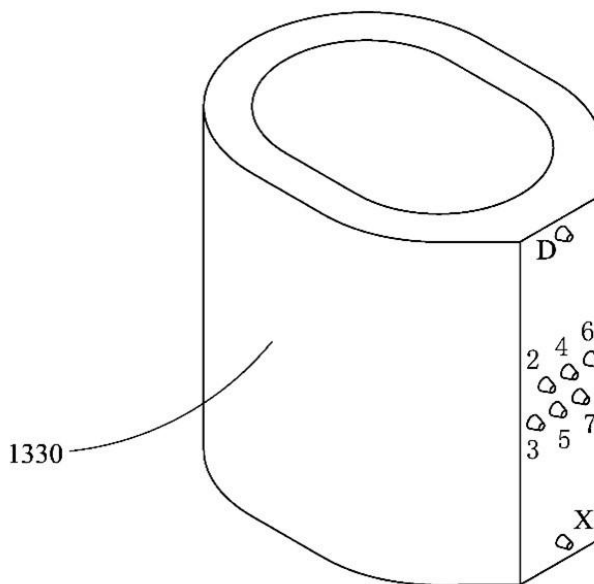
33: CN 31: 202111647805.1 32: 2021-12-29

54: HIGH-VOLTAGE WINDING AND METHOD FOR PREPARING HIGH-VOLTAGE WINDING

00: -

A high-voltage winding (130) comprises a winding body (1310), a high-voltage coil (1320) and a high-voltage insulating layer (1330). A wire is wound on the winding body (1310) to form the high-voltage coil (1320), and the high-voltage insulating layer (1330) wraps the high-voltage coil (1320) and the winding body (1310).

130
~



21: 2024/04311. 22: 2024/05/31. 43: 2024/12/19

51: B01L; B08B; B25J; B65B; B65G

71: HEGDE, Shreepad

72: HEGDE, Shreepad

33: IN 31: 202141047303 32: 2021-10-19

54: A CONTAINED DRUM DISCHARGE SYSTEM AND METHOD FOR TOXIC POWDERY MATERIALS

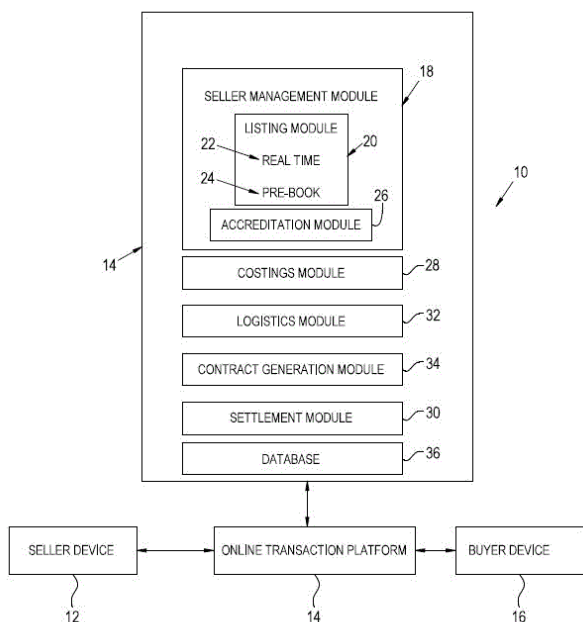
00: -

A contained drum discharge system (110) comprising a drum (2) and connected with a lifting mechanism, wherein the drum (2) includes a primary liner bag (5) having the toxic powdery material to be disposed, contained within the secondary liner bag (4), and a tertiary liner bag (3) enclosing the secondary liner bag (4); a transparent glove box (22); a hopper (18) connected at a top of the glove box (22) and with a vacuum transfer system (25) of a material processing reactor (26); and a control unit (31) connected with the glove box (22) via a rotation mechanism and with the lifting mechanism of the drum (2). The glove box (22) includes a plurality of glove ports (16) connected with respective glove attachments; a plurality of thrashout ports with door (9, 15); a sealing gasket (7) to connect with the drum (2); a first liner port (6); a second liner port (8) and a third liner port.

21: 2024/04330. 22: 2024/06/03. 43: 2024/12/20
 51: G06F; G06K; G06Q
 71: GELDENHUYS, Rohan
 72: GELDENHUYS, Rohan
 33: ZA 31: 2023/05186 32: 2023-05-11

54: ONLINE TRANSACTION PLATFORM FOR PRODUCTS

00: -
 A system for one or more online transactions for products, such as agricultural products and commodities, is provided. The system comprises a first electronic device of a seller in communication with an online transaction platform via a communications network; and a second electronic device of a buyer in communication with the online transaction platform via the same or another communications network, the online transaction platform facilitating the one or more online transactions between the seller and the buyer. The transaction platform includes a seller management module to manage a plurality of sellers; a costings module to manage the costs of the online transaction; and a settlement module to manage the payment/s to support the agreed transaction.



21: 2024/04446. 22: 2024/06/07. 43: 2024/12/20
 51: G21C
 71: FRAMATOME
 72: CAHOUET, Laurent, GAILLARD, Aurélien, MARTINEZ, Philippe, POLLIER, Denis, VAYSSETTE, Bastien

54: FLOW CALMING ASSEMBLY FOR NUCLEAR REACTOR, AND ASSOCIATED REACTOR AND METHOD

00: -
 The invention relates to a flow calming assembly (10) for a nuclear reactor comprising a vessel (12) and an enclosure (14) situated in the vessel (12) wherein a fluid circulates from the vessel (12) to the enclosure (14) at a bottom part of the vessel (12). The flow calming assembly (10) comprises an outer calming device (28) with openings for fluid passage, the outer calming device (28) comprising an upper part (34) and a lower part (36), the upper part (34) comprising a flared or conical collar extending between an upper end (38) and a lower end (40), the lower part (36) having a shape presenting a symmetry along a main axis (D), the lower part (36) extending from the lower end (40) of the upper part (34). The invention further relates to associated reactor and installing method.

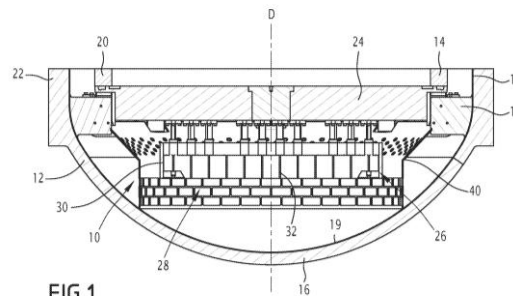


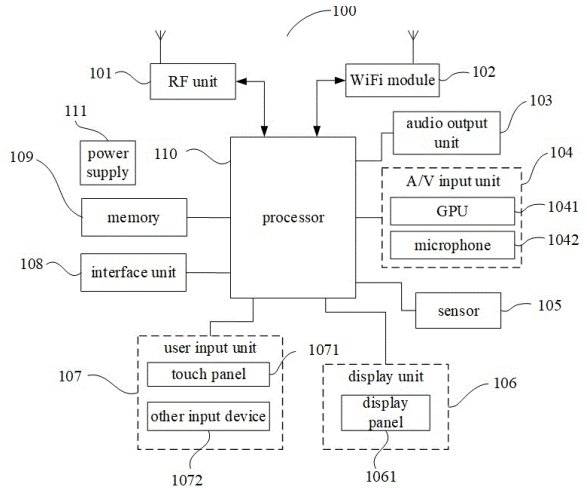
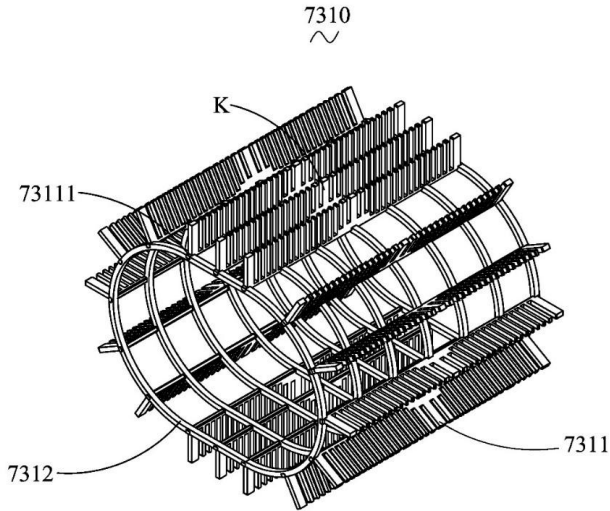
FIG.1

21: 2024/04477. 22: 2024/06/10. 43: 2024/12/20
 51: H01F
 71: JIANGSU SHEMAR ELECTRIC CO., LTD.
 72: MA, Bin, ZHANG, Xinxin, MA, Tingting, LIU, Chao, ZHANG, Xiaorong
 33: CN 31: 202111647922.8 32: 2021-12-29
 33: CN 31: 202111644185.6 32: 2021-12-29

54: WINDING BODY, HIGH-VOLTAGE WINDING AND DRY-TYPE TRANSFORMER

00: -
 A winding body (1310) is used for a high-voltage winding (130). The winding body (1310) comprises: several winding plates (1313), each winding plate (1313) being provided with several winding grooves (1314) so as to form several comb teeth on the winding plates (1313); and at least one auxiliary member (5316), wherein the auxiliary member (5316) is annular, the winding plates (1313) are arranged along the circumferential direction of the auxiliary member (5316), and the auxiliary member

(5316) is fixedly connected to the winding plates (1313). A high-voltage winding (130) comprises: the winding body (1310); a high-voltage coil (1320); and a high-voltage insulating layer (1330). A dry-type transformer (10) comprises an iron core (110), a low-voltage winding (120) and the high-voltage winding (130), wherein the low-voltage winding (120) is sleeved outside the iron core (110), and the high-voltage winding (130) is sleeved outside the low-voltage winding (120).

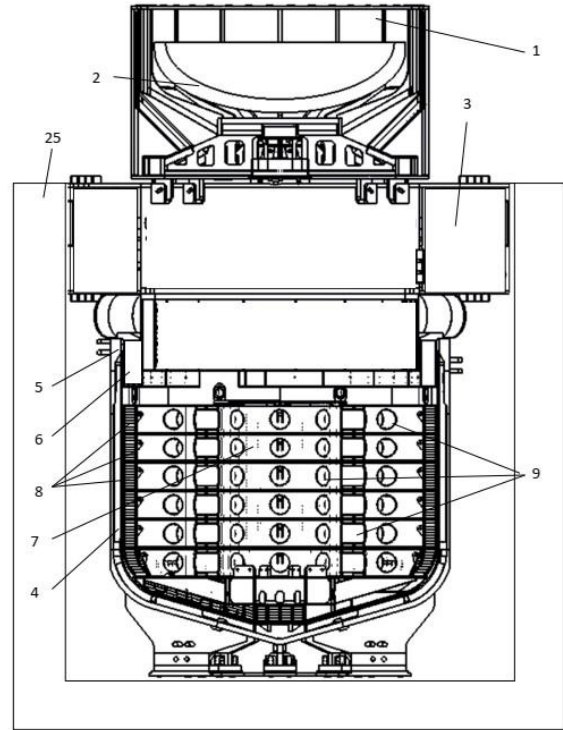
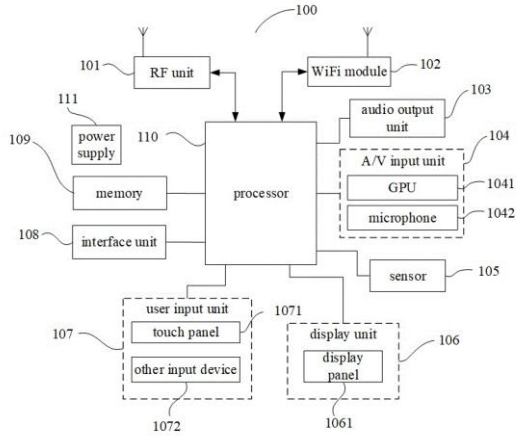


21: 2024/04559. 22: 2024/06/12. 43: 2024/12/23
 51: H04W
 71: SHENZHEN TRANSSION HOLDINGS CO., LTD.
 72: ZHU, Rongchang, HUANG, Wei, HUANG, Chiuwei
 33: CN 31: 202210532039.2 32: 2022-05-17
54: CONTROL METHOD, COMMUNICATION DEVICE, AND STORAGE MEDIUM
 00: -

Disclosed in the present application are a control method, a communication device, and a storage medium. The method comprises: in response to a first preset condition being met, a terminal delaying, according to a second time which is issued by a network device, access to a network for a preset time; or, in response to a preset condition being met, a terminal delaying, according to a preset policy, access to a network. Thus, access to a network is delayed, such that the problem of RACH congestion caused by centralized access of a large number of UEs in an IoT-NTN network is prevented, thereby preventing the problem of a service being interrupted due to the time available for data transmission within an uplink synchronization effective time period being insufficient, which is due to RACH congestion and too much time being taken up by an RACH in the IoT-NTN network.

21: 2024/04558. 22: 2024/06/12. 43: 2024/12/23
 51: G06K; G06T; G09G
 71: SHENZHEN TRANSSION HOLDINGS CO., LTD.
 72: LIU, Yutian
 33: CN 31: 202310246090.1 32: 2023-03-15
54: PROCESSING METHOD, PROCESSING DEVICE, AND STORAGE MEDIUM
 00: -

Disclosed are a processing method, a processing device and a storage medium. The method is applied to the processing device, including the following steps: determining at least one target region from a current block; predicting the target region, and determining or generating a prediction block of the current block. The technical solution of the present application improves prediction accuracy and/or efficiency of video encoding and decoding.



21: 2024/04576. 22: 2024/06/12. 43: 2025/01/06
51: G21C

71: JOINT-STOCK COMPANY
"ATOMENERGOPROEKT", SCIENCE AND
INNOVATIONS - NUCLEAR INDUSTRY
SCIENTIFIC DEVELOPMENT, PRIVATE
ENTERPRISE

72: SIDOROV, Aleksandr Stalevich, SIDOROVA,
Nadezhda Vasilevna, CHIKAN, Kristin
Aleksandrovich, NEDOREZOV, Andrej Borisovich
33: RU 31: 2021139690 32: 2021-12-29

**54: METHOD FOR MANUFACTURING A CORE
CATCHER CANTILEVER TRUSS**

00: -

The invention related to technology for manufacturing safety systems of nuclear power plants. A method for manufacturing a core catcher cantilever truss is characterized in that two symmetrical parts of the cantilever truss are formed, each of which is made of outer, middle, and inner half-shells, which are connected between each other with radial and parallel force ribs, as well as upper and lower semicircular force plates by welding, with formation of parallel and radial sectors. After that the above-mentioned two symmetrical parts are connected to each other by welding in the area of two parallel sectors located on one Cartesian axis, so that the upper horizontal connection connects the upper semicircular force plates, a lower horizontal welded joint connects the lower semicircular force plates, outer, inner, and middle vertical welded joints connect the outer, inner, and middle half-shells. This improves the reliability of a core melt localization and cooling device.

21: 2024/04580. 22: 2024/06/12. 43: 2024/12/23
51: B32B; C23C; G21C

71: FRAMATOME

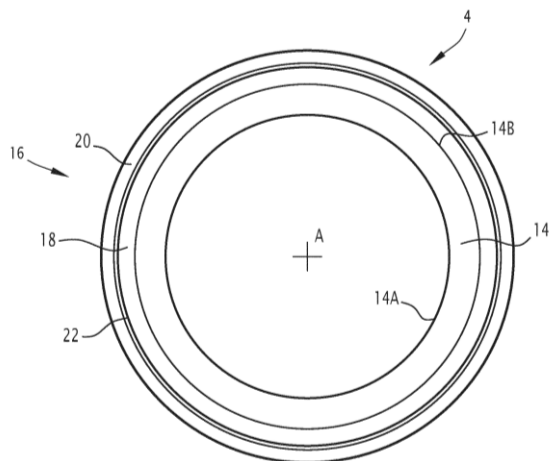
72: BISCHOFF, Jérémy, BARBERIS, Pierre,
BUCHANAN, Karl

33: FR 31: 2114546 32: 2021-12-27

**54: NUCLEAR FUEL CLADDING AND METHOD
OF MANUFACTURING SUCH A CLADDING**

00: -

The invention relates to a nuclear fuel cladding produced with a substrate (14), which is made of pure zirconium or of a zirconium-based alloy, and a multilayer protective coating (16), which covers a surface (14B) of the substrate (14), the protective coating (16) comprising a main layer (18) made of pure chromium and one or more additional layers (20), each additional layer (20) being made of pure chromium or from a material consisting of chromium and, additionally, oxygen and/or nitrogen, with the optional presence of unavoidable impurities.

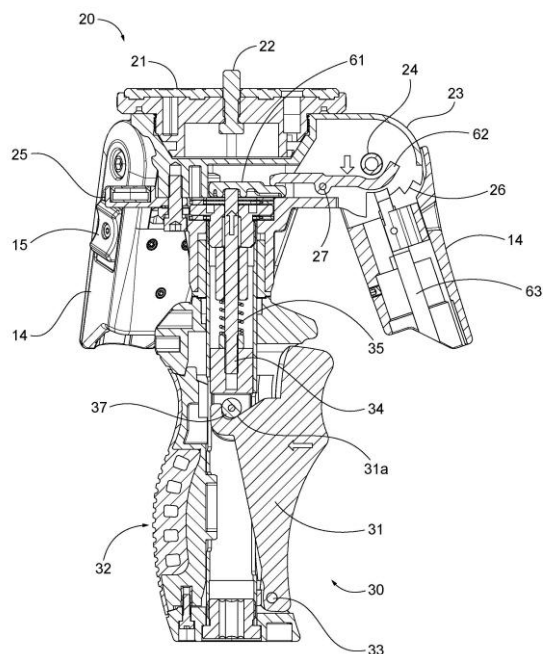


21: 2024/04610. 22: 2024/06/13. 43: 2024/12/23
51: F16M

71: Bushnell Holdings, Inc.
72: THOMASON, Jacob R., GREY, Garrett T.
33: US 31: 63/289,917 32: 2021-12-15
33: US 31: 63/289,989 32: 2021-12-15

54: TELESCOPING SUPPORT STAND APPARATUS

00: -
A telescoping support stand comprising handle mounted below a connection housing and a plurality of extendable legs pivotably engaged near the top of the connection housing.



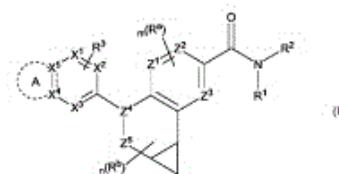
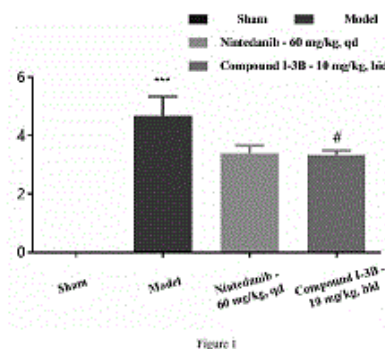
21: 2024/04669. 22: 2024/06/14. 43: 2024/12/23

51: C07D; A61K; A61P
71: WUHAN HUMANWELL INNOVATIVE DRUG RESEARCH AND DEVELOPMENT CENTER LIMITED COMPANY
72: ZHANG, XUEJUN, LI, XUEQIANG, WANG, HONGQIANG, YE, DABING, WANG, MENG, AN, DAN, GAO, ZHENXING, ZHAO, XIN, LI, LI'E, YANG, JUN

33: CN 31: 202111372073.X 32: 2021-11-18
33: CN 31: 202211408212.4 32: 2022-11-10
33: CN 31: 202210837015.8 32: 2022-07-15

54: 15-PGDH INHIBITOR AND USE THEREOF

00: -
Provided are a 15-PGDH inhibitor and the use thereof. The 15-PGDH inhibitor is a heterocyclic compound as represented by formula I, a solvate thereof, a pharmaceutically acceptable salt thereof, a solvate of a pharmaceutically acceptable salt thereof, or a prodrug thereof. The compound has a good inhibitory effect on 15-PGDH.

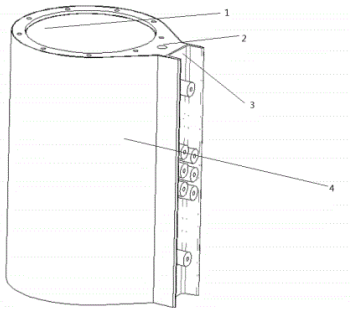


21: 2024/04718. 22: 2024/06/18. 43: 2025/02/07
51: H01F
71: ZHEJIANG JIANGSHAN TRANSFORMER CO., LTD.
72: JIANG, Zhenjun, WEI, Youxi
33: CN 31: 202311475629.7 32: 2023-11-07

54: HIGH-VOLTAGE WINDING, AND MANUFACTURING METHOD AND APPLICATION THEREOF

00: -
The present application relates to the technical field of insulated dry-type transformers, in particular to a

high-voltage winding, and a manufacturing method and application thereof. The present application provides the manufacturing method for a high-voltage winding. The manufacturing method for a high-voltage winding includes: performing first vacuum casting on a high-voltage winding before casting with a silicone rubber solution, and then performing first curing molding to obtain a high-voltage winding after first casting; and winding glass fiber grid cloth around inner and outer sides of the high-voltage winding after first casting, performing second vacuum casting with a polyurethane resin solution, and performing second curing molding to obtain the high-voltage winding. Recovering copper wrapped inside the high-voltage winding is very convenient.



21: 2024/04740. 22: 2024/06/18. 43: 2024/12/24
 51: G02B
 71: THALES
 72: GUILLEMET, Raphaël, CHOLET, Julie, JUSSEY, Doriane, GARABEDIAN, Patrick
 33: FR 31: 2114085 32: 2021-12-21

54: OPTICAL WINDOW COVERED WITH A DOPED DIAMOND ELECTRODE WITH ACTIVE FOULING REMOVAL FUNCTIONALITY

00: -
 The invention relates to an optical window comprising on its surface, two electrodes connected to a voltage generator in which at least one of the electrodes is a doped diamond electrode, the diamond being doped with an element that can make the diamond conductive.

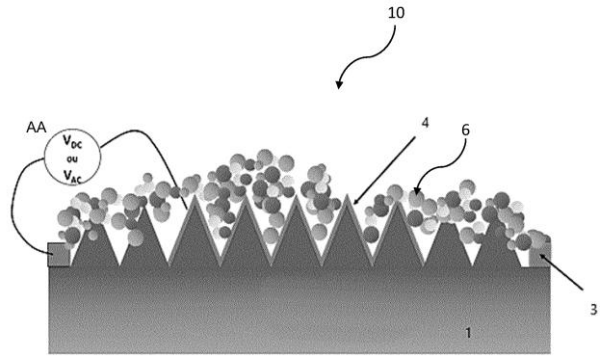
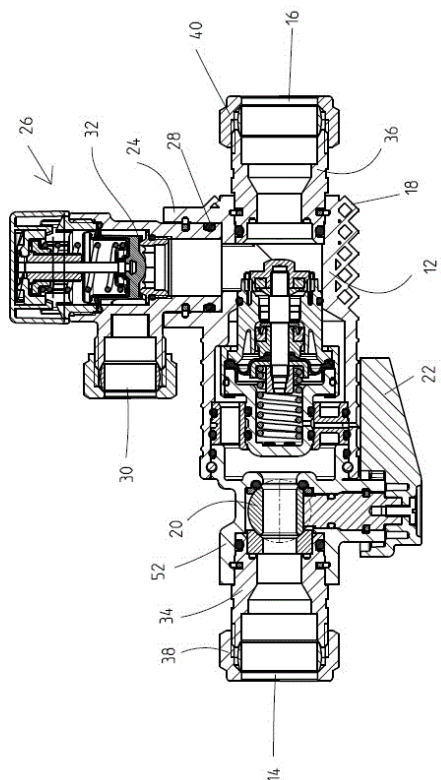


FIG.2

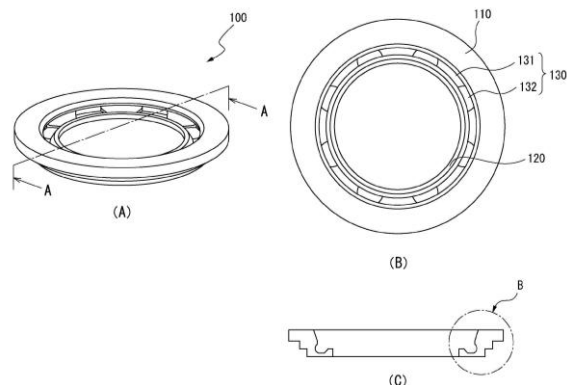
AA V DC or V AC

21: 2024/04761. 22: 2024/06/19. 43: 2024/12/24
 51: E03B
 71: Hans Sasserath GmbH & Co. KG
 72: HECKING, Willi
 33: DE 31: 20 2024 100 548.1 32: 2024-02-05
54: PRESSURE REDUCER ASSEMBLY
 00: -

A fitting assembly (10) for a water installation, comprising a fitting housing (12) with an inlet (16) and an outlet (18); and a pressure reducer with a pressure reducer valve provided in the flow between the inlet and the outlet; is characterized in that the pressure reducer is formed as a pressure reducer cartridge, which is configured to be fully received by the fitting housing (12); and the opening direction of the pressure reducer valve extends parallel to the flow.



frame part and the connecting part do not contact the lower end surface of the honeycomb substrate.



21: 2024/04836. 22: 2024/06/20. 43: 2024/12/24
 51: B28B; F27D
 71: Cataler Corporation
 72: SAKURAI, Daiki, OKABE, Katsuhiko, SUZUKI, Shintaro
 33: JP 31: 2021-209869 32: 2021-12-23
54: RING TRAY FOR HONEYCOMB SUBSTRATE FIRING

00: -
 Provided is a ring tray for honeycomb substrate firing, the ring tray being for supporting a honeycomb substrate having a plurality of cell flow channels partitioned by cell walls, so that the flow channel direction of the cell flow channels is vertical during firing of the substrate, said ring tray including a ring-shaped frame part, a support part further inside than the frame part, and a connecting part for connecting the frame part and the support part, and said ring tray for honeycomb substrate firing being configured so that when the honeycomb substrate is mounted on the ring tray, the support part does not contact an outer peripheral edge of a lower end surface of the honeycomb substrate, and contacts a portion of an internal region of the lower end surface of the honeycomb substrate, and is thus able to support the lower end of the honeycomb substrate, and the

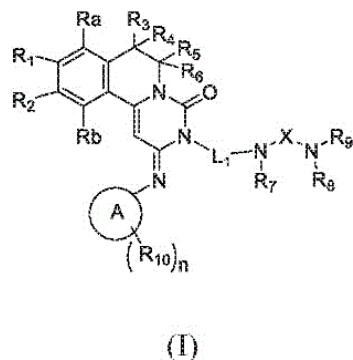
21: 2024/04839. 22: 2024/06/20. 43: 2024/12/24
 51: A61K; C07D; A61P
 71: XIZANG HAISCO PHARMACEUTICAL CO., LTD.

72: LI, Yao, ZHANG, Guobiao, ZHANG, Xiaobo, ZHANG, Yaming, YAN, Linjie, TANG, Pingming, YU, Yan, ZHANG, Chen, YAN, Pangke

33: CN 31: 202111527081.7 32: 2021-12-14
 33: CN 31: 202210121834.2 32: 2022-02-09

54: TRICYCLIC FUSED HETEROCYCLIC PDE3/4 DUAL INHIBITOR AND USE THEREOF

00: -
 Disclosed are a tricyclic fused heterocyclic compound having a PDE3/4 dual inhibitory effect represented by formula (I), a stereoisomer, a solvate, or a pharmaceutically acceptable salt thereof, and the use thereof in the preparation of a drug for treating/preventing PDE3/4-mediated diseases. Each group in formula (I) is as defined in the description.



21: 2024/04839. 22: 2024/06/20. 43: 2024/12/24
 51: A61K; C07D; A61P

71: XIZANG HAISCO PHARMACEUTICAL CO., LTD.

72: LI, Yao, ZHANG, Guobiao, ZHANG, Xiaobo, ZHANG, Yaming, YAN, Linjie, TANG, Pingming, YU, Yan, ZHANG, Chen, YAN, Pangke

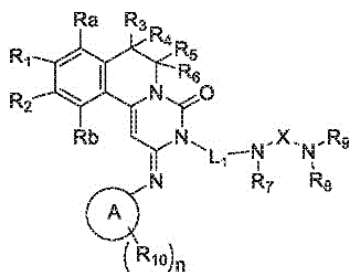
33: CN 31: 202111527081.7 32: 2021-12-14

33: CN 31: 202210121834.2 32: 2022-02-09

54: TRICYCLIC FUSED HETEROCYCLIC PDE3/4 DUAL INHIBITOR AND USE THEREOF

00: -

Disclosed are a tricyclic fused heterocyclic compound having a PDE3/4 dual inhibitory effect represented by formula (I), a stereoisomer, a solvate, or a pharmaceutically acceptable salt thereof, and the use thereof in the preparation of a drug for treating/preventing PDE3/4-mediated diseases. Each group in formula (I) is as defined in the description.



(I)

21: 2024/04867. 22: 2024/06/21. 43: 2025/01/02

51: B01D

71: Hainan Tropical Ocean University, Yazhou Bay Innovation Institute of Hainan Tropical Ocean University

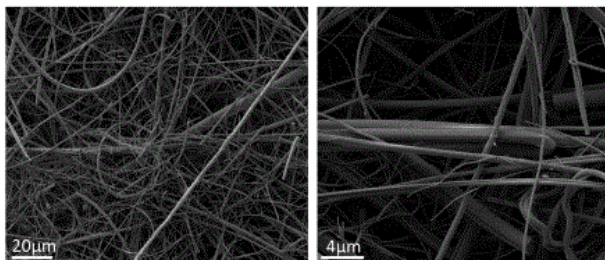
72: WAN Wubo, WU Xiangen, CHEN Qingrong, WEI Weijie, SHI Yaqin, WU Chuntao

54: OIL-WATER SEPARATION MEMBRANE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF

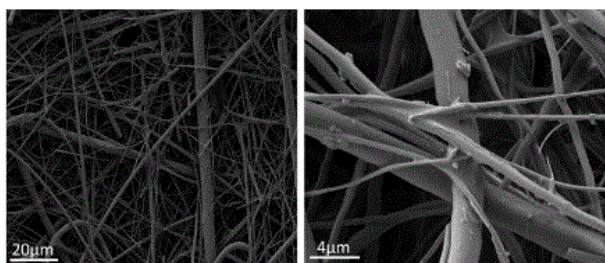
00: -

The invention discloses an oil-water separation membrane material, a preparation method and an application thereof. In the invention, a mixed solution of polydimethylsiloxane (PDMS) and silicon dioxide nanoparticles is combined with a glass fiber filter membrane, and the mixed solution is loaded on the surface of the glass fiber filter membrane, so that the prepared super-hydrophobic emulsified oil-water separation membrane material has a contact angle

of more than 150 degrees with water and a contact angle of 0 degree with oil, and has a demulsifying function, and cooperates with a hydrophobic and lipophilic modification mode to treat various oils.



1-a



1-b

21: 2024/04868. 22: 2024/06/21. 43: 2025/01/02

51: A01G

71: Agriculture Resource and Environment Research Institute, Tibet Academy of Agriculture and Animal Science

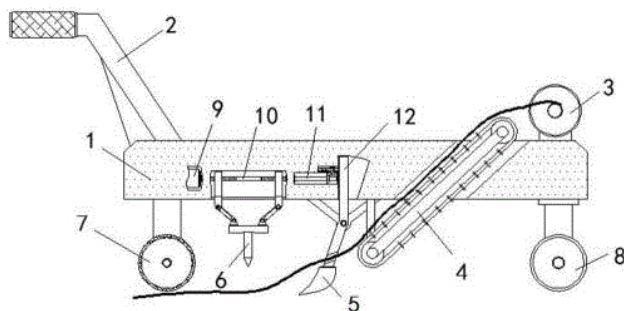
72: ZHANG Huaguo

54: INTELLIGENT, EFFICIENT AND CONVENIENT DEVICE FOR FARMLAND MULCHING FILM

00: -

The invention discloses an intelligent, efficient and convenient device for farmland mulching film, which includes a base, where a pulling handle is installed at the left end of the top of the base, a moving wheel is installed at the right end of the bottom of the base, and a flattening roller is installed at the left end of the bottom of the base; the movable rod is arranged at the center of the bottom of the base, the middle part of the movable rod is connected with a movable shaft at the bottom of the base, the bottom of the movable rod is fixedly connected with a soil shovel, and the right end of the top of the base is provided with a recycling roller; the scarifying rod is arranged at the bottom of the base, the scarifying rod is arranged on the left side of the shovel, and the scarifying rod is arranged on the right side of the flattening roller, and a conveyor belt penetrates through the base. The automatic intelligent

processing equipment for degradable mulching film farmland can quickly and conveniently recycle mulching film in farmland, and the recycling effect is better, and the residue of mulching film is reduced; meanwhile, the recycling process is relatively easy and convenient to use.



21: 2024/04874. 22: 2024/06/21. 43: 2025/01/02
51: A61K; A61P

71: ADLAI NORTYE BIOPHARMA CO., LTD.

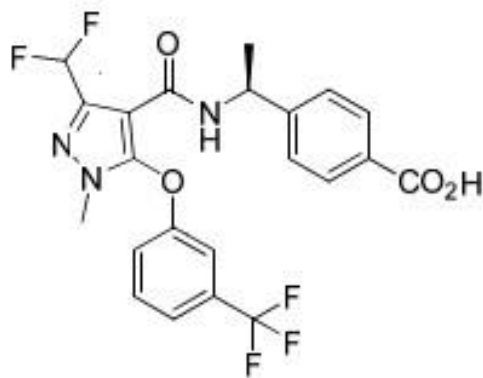
72: CHEN, Liang, LIU, Shifeng, ZHAO, Yanhui, YANG, Donghui, LU, Yang

33: CN 31: 202111661891.1 32: 2021-12-30

54: A SOLID PHARMACEUTICAL COMPOSITION

00: -

The present invention provides a solid pharmaceutical composition, which comprises a compound represented by formula 1 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier, wherein the compound represented by formula 1 or a pharmaceutically acceptable salt thereof comprises from about 30% to about 80% of the total weight of the solid pharmaceutical composition.



21: 2024/04877. 22: 2024/06/21. 43: 2025/01/02
51: F16K

71: JOINT-STOCK COMPANY
"ATOMENERGOPROEKT", SCIENCE AND
INNOVATIONS - NUCLEAR INDUSTRY
SCIENTIFIC DEVELOPMENT, PRIVATE
ENTERPRISE

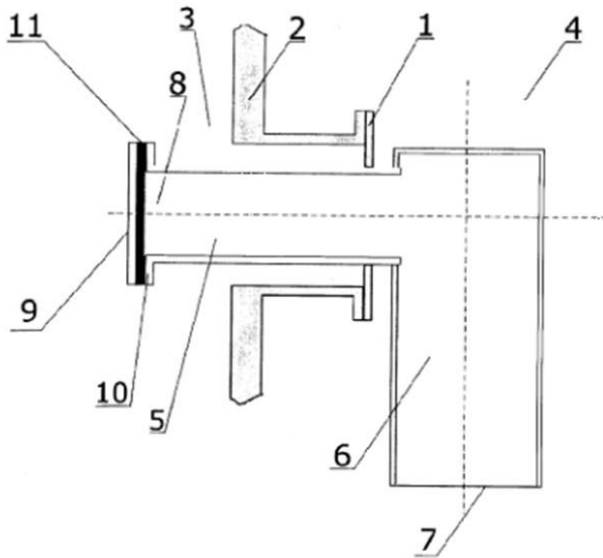
72: BEZLEPKIN, Vladimir Viktorovich,
KUKHTEVICH, Vladimir Olegovich, MITRYUKHIN,
Andrey Gennadievich, KURCHEVSKIY, Aleksey
Ivanovich, MATYUSHEV, Leonid Aleksandrovich,
DROBYSHEVSKIY, Maxim Anatolievich,
KOROBENIKOV, Kirill Yuryevich, SHAMRAY,
Yevgeniya Leonidovna

33: RU 31: 2021139682 32: 2021-12-29

54: SINGLE-ACTION EMERGENCY THERMAL VALVE

00: -

A single-action emergency thermal valve relates to valves which open a cooling fluid supply channel in case of an accident. The thermal valve comprises a body with a through channel to supply the cooling fluid through an inlet of the thermal valve in the direction of its outlet, and a fuse, which melting point is chosen in accordance with the valve actuation temperature. The through channel is made in the form of an elbow and consists of a horizontal section and a downward-directed vertical section. The inlet is located in the lower part of the vertical section; the outlet of the through channel is provided with a plug made of high-strength refractory material and attached to a flange of the horizontal section with the fuse. The ratio of volumes of the horizontal and the vertical sections of the through channel is chosen so that a cooling fluid would neither enter the horizontal section of the through channel nor affect the melting point of the plug.



21: 2024/04913. 22: 2024/06/21. 43: 2025/01/02

51: E05B

71: DE VILLIERS, Marius de Wet

72: DE VILLIERS, Marius de Wet

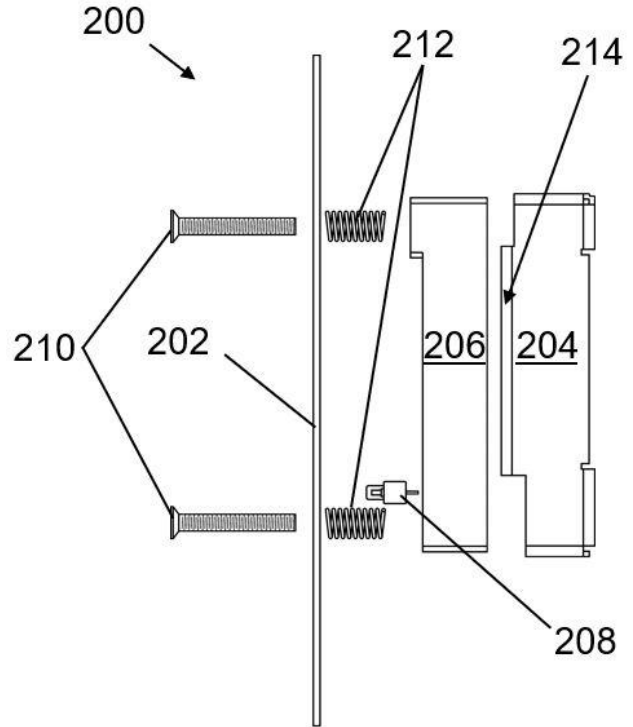
33: ZA 31: 2021/09448 32: 2021-11-24

33: ZA 31: 2022/11018 32: 2022-10-10

54: ARMED STRIKE PLATE

00: -

In accordance with an aspect of the invention there is provided a strike plate for a latch, comprising: a catch receiving a latch tongue; at least one carriage, the carriage being configured to be spring biased and displaceable once the latch tongue applies a linear force to the carriage, wherein the linear force is greater than the resistive force exerted by the biased carriage; and a sensor, wherein the sensor is connected to an external alarm system and wherein the sensor is configured to activate upon displacement of the carriage which, in turn, activates the external alarm system.



21: 2024/04924. 22: 2024/06/24. 43: 2025/01/02

51: B05B

71: Henan Polytechnic University, Tianjin Iffor Technology Co., Ltd

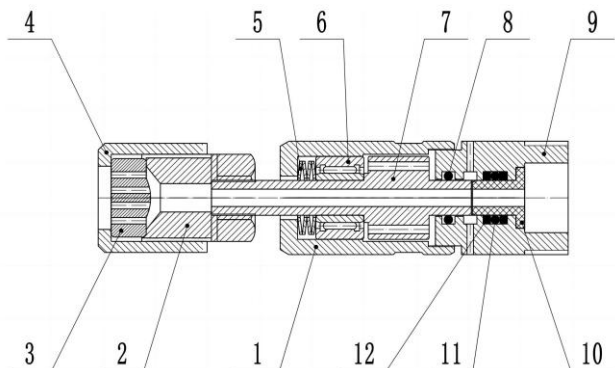
72: ZAI, penghui, YUAN, Ruifu, LIU, Guoli, LIU, Zhenpeng, FAN, Junkai

54: DAMPING SPEED-REGULATING HIGH-PRESSURE SELF-ROTATING NOZZLE

00: -

The present invention belongs to the technical field of mining engineering, and relates to a damping speed-regulating high-pressure self-rotating nozzle, which includes a sleeve, where a rotating shaft is rotationally connected to an inner wall of the sleeve, a nozzle shield is threaded on one end of the rotating shaft, a multi-hole rotating nozzle is threaded in the nozzle shield, a shield connecting sleeve is mounted between the nozzle shield and the rotating shaft, a fluid inlet connector is threaded on the inner side of the right end of the sleeve, the fluid inlet connector and the rotating shaft match with each other, a regulating mechanism is provided in the sleeve, and the regulating mechanism and the rotating shaft match with each other. The invention realizes the adjustment of the rotating speed of the self-rotating nozzle, and avoids the swirling and scattering of multiple jets caused by the excessive rotating speed of the nozzle, and improves the

drilling efficiency of abrasive water jet and the adaptability to different rock strata in coal mine underground.



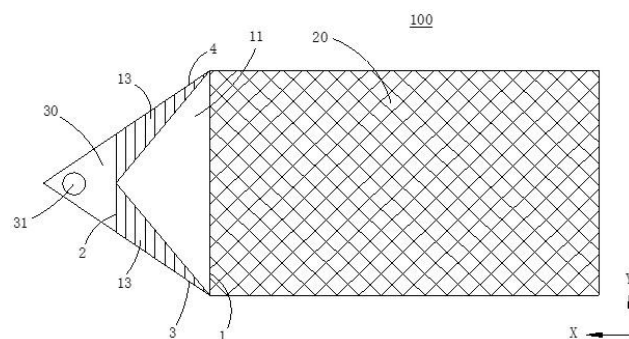
21: 2024/04925. 22: 2024/06/24. 43: 2025/01/02
 51: H02B; H02J; H02M
 71: STANDER, Johannes
 72: STANDER, Johannes
54: POWER SUPPLY AND ENERGY GENERATING UNIT

00: -
 A dual battery power supply unit, having first and second batteries which alternate between operative and charging modes by operating a switch, alternators coupled to a motor by means of a pulley so that mechanical input from the motor causes the alternators to generate AC power supply to power a charging module, wherein the motor is powered by batteries.

21: 2024/04926. 22: 2024/06/24. 43: 2025/01/02
 51: F03D
 71: JIANGSU GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
 72: FU, Lei, WEN, Birong, LI, Quanzhou
 33: CN 31: 202210753573.6 32: 2022-06-29
54: LIGHTNING PROTECTION DEVICE, LIGHTNING PROTECTION SYSTEM, WIND TURBINE AND METHOD

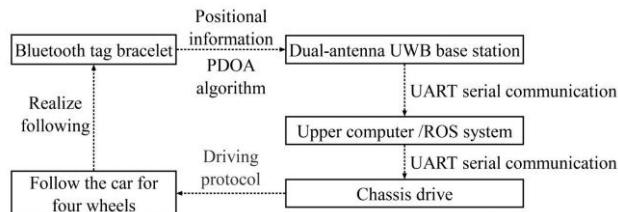
00: -
 The present disclosure relates to a lightning protection device, a lightning protection system, a wind power generator set, and a method. The lightning protection device includes a transition conductor with a predetermined length, width and thickness, the transition conductor comprising a first connecting end and a second connecting end opposite to each other in its length direction, the first connecting end being configured for receiving

lightning current, and the second connecting end being configured for connection with a down lead system. The transition conductor includes a thinned area and an edge area, the edge area surrounds at least a portion of the thinned area, one side of the edge area and one side of the thinned area in the length direction are connected and jointly form the first connecting end, and a thickness of the thinned area is less than that of the edge area. The lightning protection device, the lightning protection system, the wind power generator set, and the method of the present disclosure can adapt to a skin effect of current and improve overall safety performance.



21: 2024/04963. 22: 2024/06/25. 43: 2025/01/02
 51: G06Q
 71: Guangzhou Civil Aviation College
 72: BAI Jiankun, KE Zhendong
54: CONTROL SYSTEM OF AIRCRAFT MAINTENANCE FOLLOWING ROBOT BASED ON ROS SYSTEM

00: -
 The invention discloses an aircraft maintenance following robot control system based on an ROS system, belonging to the field of robot control. The method comprises a positioning module, an ROS system module, a communication module and a driving module; wherein, the positioning module is used for acquiring the tag position information; the ROS system module is used for acquiring the chassis speed based on the tag position information; the communication module is used to package the signal of chassis speed and send it to the driving module; the driving module is used to drive the chassis to control four-wheel movement based on the received signal from the communication module.



21: 2024/05003. 22: 2024/06/26. 43: 2025/01/03
51: B23K

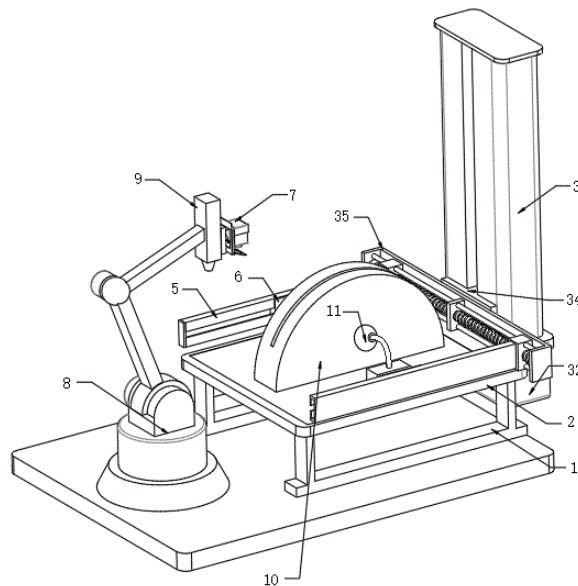
71: WENZHOU POLYTECHNIC

72: HE Hongjun, WEI Xinlei

54: ON-LINE MONITORING DEVICE FOR MOLTEN POOL IN LASER MACHINING PROCESS

00: -

The invention discloses an on-line monitoring device for molten pool in laser machining process, which comprises a base bracket, where the upper surface of the base bracket is connected with a platform clapboard; an assembly groove is installed in the middle of the upper surface of the platform clapboard; a workpiece is placed on the upper side of the assembly groove. Through the servo adjusting mechanism installed on the upper side of the platform clapboard, the device can automatically adapt to the thickness of the workpiece and the curved workpiece through the lifting height of the Z-axis guide groove passing through the X-axis guide groove on both sides, and lift the smoke extractor to the upper side of the workpiece for smoking; furthermore, the distance of the X-axis guide groove can be changed according to the processing position of the laser processing head, and the distance from the molten pool can be reduced as needed to improve the smoking effect. By using the linear drive of the linear motor, double-sided smoking can be carried out with the laser processing head, which effectively solves the problem that smoke interference can not be eliminated with the laser processing head in time during the monitoring process in the prior art.



21: 2024/05033. 22: 2024/06/27. 43: 2025/01/03
51: B63B

71: Nantong Institute of Technology, Nantong Saijun Marine Technology Co., LTD

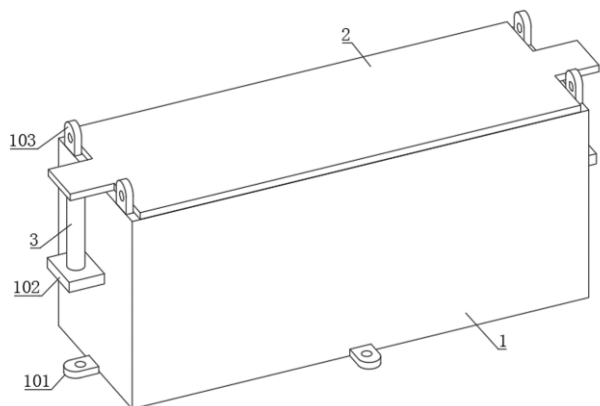
72: Peng Shengnan, Zhao Rongqiang, Hu Xiaowen, Xu Jiabin

54: AN ANTI-HEELING DETECTION DEVICE FOR OPERATION AND MAINTENANCE SHIPS

00: -

The invention discloses an anti-heeling detection device for an operation and maintenance ship, belonging to the technical field of ship anti-heeling detection. Comprising a water tank, the upper end of the water tank is provided with a box cover, both sides of the water tank are provided with a support plate, the upper end of the support plate is installed with a cylinder, the push rod of the cylinder is fixedly connected with the cover of the box, and the water tank is provided with a scale plate inside. The invention solves the problem that because of the ship floating freely on the water surface, the disturbance of the water flow will cause the hull to shake, resulting in poor stability of the detection device and affecting the measurement accuracy, during the detection process of the anti-heeling detection device in the prior art. The pendulum component is set in the water tank, because the pendulum is located below the liquid level, it has a certain resistance to swing in the liquid. When the ship is floating freely on the sea surface, the sway of the ship caused by the current disturbance has little influence on the pendulum in the tank, which can

reduce the influence of the current disturbance on the measurement accuracy.



21: 2024/05037. 22: 2024/06/27. 43: 2025/01/03
51: A23K

71: Jiangxi Agricultural University, Jiangxi Biotech Vocational College, Fujian Vocational College of Agriculture

72: YANG Fan, CAO Huabin, DAI Xueyan, XING Chenghong, HU Guoliang, HUANG Jiamei, WANG Yun, GAO Feiyan, XIONG Zhiwei

54: FEED COMPOSITION CONTAINING BAICALIN FOR RELIEVING TOXICITY OF HEAVY METAL VANADIUM IN DUCKS

00: -

The invention discloses a feed composition containing baicalin for relieving the toxicity of heavy metal vanadium in ducks, and belongs to the technical field of poultry feed. The feed composition includes the following components in parts by weight: 50-70 parts of corn, 10-20 parts of soybean meal, 10-20 parts of oats, 5-8 parts of meat duck premix, 0.5-1 part of sodium chloride, 1-2 parts of baking soda, 0.2-0.5 part of bacterial powder, 0.2-0.8 part of enzyme preparation and 0.1-0.8 part of baicalin. The bacterial powder in the composition can change the intestinal flora, enhance the barrier function of duck intestine, and then reduce the absorption of vanadium by duck; enzyme preparation helps digestion; meat duck premix provides nutrients needed for duck growth; baicalin controls the cholesterol level in ducks with excessive vanadium. All components cooperate together to effectively reduce the adverse effects of vanadium poisoning on the growth and development of ducks.

21: 2024/05038. 22: 2024/06/27. 43: 2025/01/03

51: A23K

71: Jiangxi Agricultural University, Jiangxi Biotech Vocational College, Fujian Vocational College of Agriculture

72: DAI Xueyan, XING Chenghong, YANG Fan, CAO Huabin, HU Guoliang, HUANG Jiamei, WANG Yun, XIONG Zhiwei, GAO Feiyan

54: FEED CONTAINING GINSENOSE AND APPLICATION THEREOF IN REDUCING ANIMAL TESTICULAR INJURY CAUSED BY GLUFOSINATE-AMMONIUM

00: -

The invention discloses a feed containing ginsenoside and application thereof in alleviating the animal testicular injury caused by glufosinate-ammonium, belonging to the technical field of feed. The invention provides a feed additive containing ginsenoside, which includes the following raw materials in parts by weight: 30-40 parts of corn, 10-20 parts of carrot, 10-20 parts of dried hawthorn, 10-15 parts of honeysuckle, 8-10 parts of flaxseed, 3-5 parts of soybean protein powder and 3-5 parts of ginsenoside. Experiments prove that glufosinate-ammonium can cause testicular damage in mammals, and the feed additive containing ginsenoside prepared by the invention can effectively alleviate testicular damage caused by glufosinate-ammonium. Furthermore, the feed additive containing ginsenoside prepared by the invention can be applied to the breeding of cultured animals, and has important practical significance for developing green animal husbandry, ensuring human health and promoting the healthy and sustainable development of aquaculture.

21: 2024/05042. 22: 2024/06/27. 43: 2025/01/03
51: A23K

71: Jiangxi Agricultural University, Jiangxi Biotech Vocational College, Fujian Vocational College of Agriculture

72: XING Chenghong, CAO Huabin, DAI Xueyan, YANG Fan, HU Guoliang, XIONG Zhiwei, GAO Feiyan, HUANG Jiamei, WANG Yun

54: SILICON-RICH ALKALINE FEED ADDITIVE FOR IMPROVING SHEEP INTESTINAL FLORA AND PREPARATION METHOD THEREOF

00: -

The invention discloses a silicon-rich alkaline feed additive for improving sheep intestinal flora and a preparation method thereof, belonging to the technical field of feed additives. The silicon-rich

alkaline feed additive for improving sheep intestinal flora includes the following raw materials in parts by weight: 10-20 parts of silicon-rich corn flour, 8-12 parts of bean curd residue, 4-6 parts of microbial inoculum, 1-3 parts of sodium bicarbonate and 1-3 parts of lysine. Experiments show that the silicon-rich alkaline feed additive of the invention can improve the average daily gain of sheep, reduce the feed-to-weight ratio, improve the growth performance of sheep, reduce the feeding cost and increase the breeding benefit. Moreover, the silicon-rich alkaline feed additive of the invention significantly improves the richness and diversity of flora in sheep duodenum, and has a very broad application prospect.

21: 2024/05056. 22: 2024/06/27. 43: 2024/12/10
51: H02H

71: ADB Safegate BV

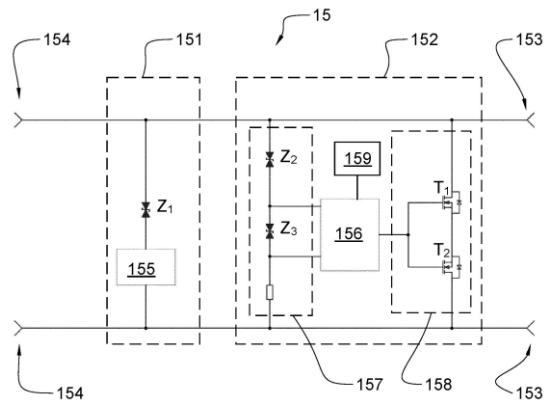
72: GRIMM, Florian, SAUVAGE, Nicolas, DE VLEESCHAUWER, Eric

33: EP(BE) 31: 22151680.0 32: 2022-01-14

54: VOLTAGE LIMITING DEVICE FOR CONSTANT CURRENT CIRCUITS

00: -

A voltage limiting device (15) for constant current circuits (10) comprises input terminals (153) for connecting the voltage limiting device to a current supply (11) of a constant current circuit, output terminals (154) for connecting the voltage limiting device to a load, a voltage clamping circuit (151), and a switching circuit (152). The input terminals (153) are connected to the output terminals (154) under a normal operating condition. The voltage clamping circuit (151) is configured to clamp a voltage across the output terminals to a first voltage threshold and the switching circuit is configured to short-circuit the output terminals when a second voltage threshold across the output terminals is exceeded longer than a predetermined time period.



21: 2024/05073. 22: 2024/06/27. 43: 2025/01/13
51: G03G

71: ZHUHAI PANTUM ELECTRONICS CO., LTD.

72: SHAO, Zhe, XIA, Xiangchao, YANG, Hongjian

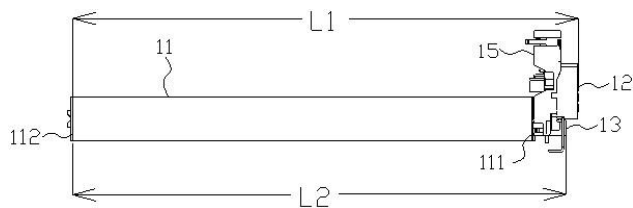
33: CN 31: 202123372434.9 32: 2021-12-29

33: CN 31: 202211217029.6 32: 2022-09-30

54: PROCESS CARTRIDGE, PROCESS CARTRIDGE ASSEMBLY, AND IMAGE FORMING DEVICE

00: -

A process cartridge, a process cartridge assembly, and an image forming device. A process cartridge (1) comprises: a cartridge main body (14), a rotating member (11) provided in the cartridge main body (14), the cartridge main body (14) being provided with a first end (111) and a second end (112) along the axial direction of the rotating member (11), a chip component (12) provided in the cartridge main body (14), the chip component comprising contact portions (121) used for being electrically connected to electrical contact portions (311) of an image forming device (3), and a positioning portion (13) located at the first end (111) and used for being supported on a moving component (2) of the image forming device (3). By taking any point of the second end (112) as a reference point, the distance, in the axial direction of the rotating member (11), between the contact portions (121) and the reference point as L1, and the minimum distance, in the axial direction of the rotating member (11), between the surface of the positioning portion (13) away from the second end (112) and the reference point as L2, when the process cartridge (1) is mounted to the image forming device (3), $L1 > L2$. Collision between the positioning portion (13) and the electrical contact portions (311) of the image forming device (3) during the mounting of the process cartridge (1) is avoided.



21: 2024/05082. 22: 2024/06/28. 43: 2025/01/03

51: A23K

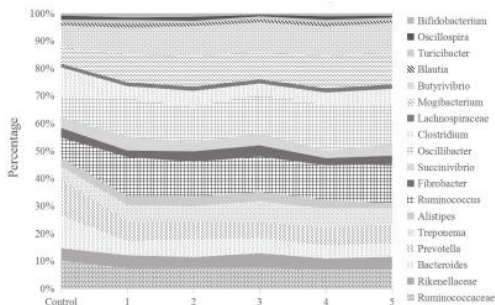
71: Jiangxi Agricultural University, Jiangxi Biotech Vocational College, Fujian Vocational College of Agriculture

72: CAO Huabin, YANG Fan, DAI Xueyan, XING Chenghong, HU Guoliang, GAO Feiyan, XIONG Zhiwei, HUANG Jiamei, WANG Yun

54: PROCYANIDIN-CONTAINING FEED FOR IMPROVING INTESTINAL MICROBIAL FLORA OF SHEEP AND PREPARATION METHOD THEREOF

00: -

The invention discloses a procyanidin-containing feed for improving sheep intestinal microbial flora and a preparation method thereof, and belongs to the field of feed additives. The feed additive of the invention includes litchi hull proanthocyanidins, phosphatidylserine and fructooligosaccharides. The feed additive of the invention can significantly enhance the utilization efficiency of feed. Animal experiments show that the feed additive can significantly improve the abundance of probiotics in the sheep colon, reduce the abundance of digestive interfering bacteria and conditional pathogenic bacteria, and improve the intestinal microbial environment of lambs; Furthermore, the improvement of microbial environmental components promotes the efficient utilization of nutrients, and can significantly increase the average daily gain of sheep, so the invention has broad application prospects.



21: 2024/05083. 22: 2024/06/28. 43: 2025/01/03

51: A23K

71: Jiangxi Agricultural University, Jiangxi Biotech Vocational College, Fujian Vocational College of Agriculture

72: YANG Fan, DAI Xueyan, CAO Huabin, XING Chenghong, ZHANG Caiying, HU Guoliang, HUANG Jiamei, WANG Yun, XIONG Zhiwei, GAO Feiyan

54: QUERCETIN-CONTAINING DUCK FEED WITH HEAVY METAL COPPER TOXICITY RESISTANCE AND PREPARATION METHOD THEREOF

00: -

The invention discloses a quercetin-containing duck feed with heavy metal copper toxicity resistance and a preparation method thereof, belonging to the technical field of poultry feed. The duck feed includes the following components in parts by weight: 50-70 parts of corn, 5-15 parts of soybean meal, 5-15 parts of cottonseed meal, 5-15 parts of bran, 5-8 parts of meat duck premix, 0.5-1 part of sodium chloride, 1-2 parts of baking soda, 0.2-0.5 part of bacterial powder, 0.2-0.8 part of enzyme preparation and 0.1-0.2 part of quercetin. According to the invention, components in the duck feed are reasonably selected and quercetin is compounded, so that the duck feed capable of resisting heavy metal copper poisoning is prepared; and when the duck is fed with the feed, the influence of copper poisoning on the growth and development of the duck can be obviously alleviated. The duck feed provided by the invention has balanced nutrition, is easy to digest and absorb, is helpful for ducks to gain weight and lay eggs, and can effectively reduce the adverse effects of copper poisoning on the growth and development of ducks.

21: 2024/05098. 22: 2024/06/28. 43: 2025/01/06

51: G01S; H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: JIANG, Xiaolin, SHREEVASTAV, Ritesh, LYAZIDI, Yazid, MURUGANATHAN, Siva, MUNIER, Florent

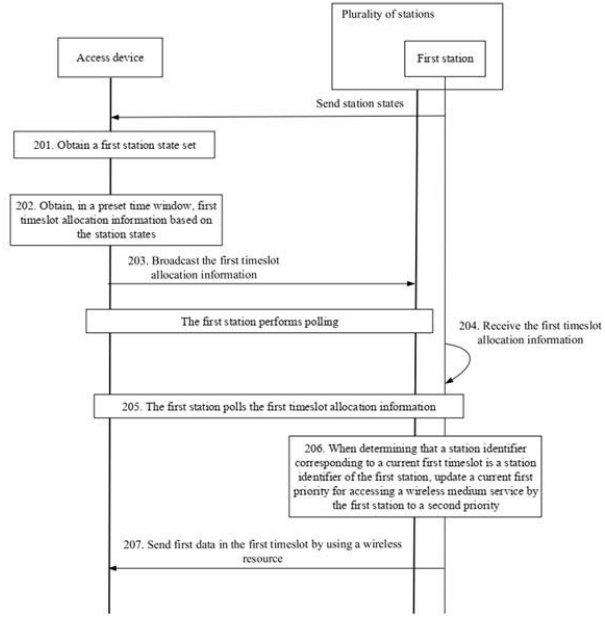
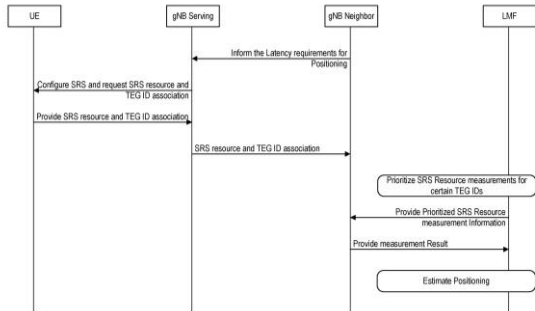
33: US 31: 63/297,183 32: 2022-01-06

54: SIGNALING COMMUNICATION DEVICE TRANSMISSION TIMING ERROR GROUP ASSOCIATION FOR UPLINK TIME DIFFERENCE OF ARRIVAL

00: -

A communication device of a communications network can receive a request message from a network node of the communications network. The

request message can request an indication of reference signal ("RS") resources used by the communication device to communicate with the network node and an indication of a timing error group ("TEG") identifier ("ID") associated with the RS resources. The communication device can transmit the indication of the RS resources and the indication of the TEG ID to the network node.



21: 2024/05099. 22: 2024/06/28. 43: 2025/01/06
 51: H04W
 71: RUIJIE NETWORKS CO., LTD.
 72: YU, Chenglong, MAO, Kaibin, ZHOU, Zhaoxian, LIU, Zhongdong
 33: CN 31: 202111617276.0 32: 2021-12-27
 33: CN 31: 202211615278.0 32: 2022-12-15
54: WIRELESS RESOURCE SCHEDULING METHOD AND APPARATUS, AND STORAGE MEDIUM

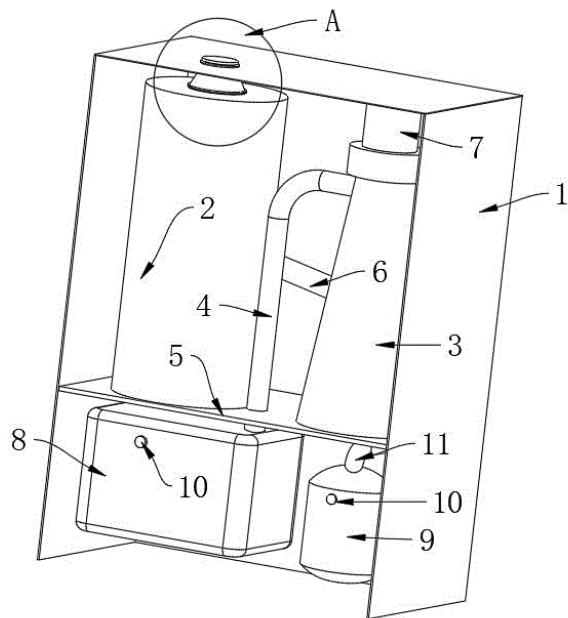
00: -
 Embodiments of the present application provide a wireless resource scheduling method and apparatus, and a storage medium. The method comprises: an access device acquires a first station state set, wherein the first station state set comprises station states of a plurality of stations in a first time window; the access device obtains first time slot allocation information within a preset time window according to the station states, wherein the first time slot allocation information comprises time slot allocation information of the access device using a wireless resource for the stations in at least one time window; and the access device broadcasts the first time slot allocation information to the stations, respectively. The present solution can reduce interference of hidden nodes, ensure QoS, provide fair medium access, and improve the utilization rate of wireless resources.

21: 2024/05131. 22: 2024/07/01. 43: 2025/01/06
 51: B09B

71: Huangshan University
 72: Yinyu Sun, Yue Ji, Qi Chen, Yu Liu, Qing Ding, Qiaoqiao Zhang, Zihan Yin, Wei Yang
54: HOMESTYLE KITCHEN WASTE TREATMENT AND RECYCLING DEVICE BASED ON SUPERHYDROPHOBIC MATERIALS

00: -
 The invention discloses a homestyle kitchen waste treatment and recycling device based on superhydrophobic materials in the technical field of kitchen waste treatment, comprising a mounting frame, a partition board is fixedly mounted in the mounting frame, an extrusion tank is fixedly mounted on an upper surface of one end of the partition board, a crushing tank is fixedly mounted on an upper surface of the partition board away from the extrusion tank, a splash-proof ring is fixedly mounted at a top end of the crushing tank, an upper end of the extrusion tank is fixedly mounted with a residue discharge pipe, and a lower end of the residue discharge pipe extends below the partition board and is fixedly installed with a residue storage tank; a lower end of the crushing tank is fixedly installed with a residue feed pipe, one end of the residue feed pipe away from the extrusion tank is fixedly connected with a lower end of the extrusion tank, an oil storage tank is fixedly mounted at a lower end of the mounting frame corresponding to being below the extrusion tank, and an oil drainage pipe is

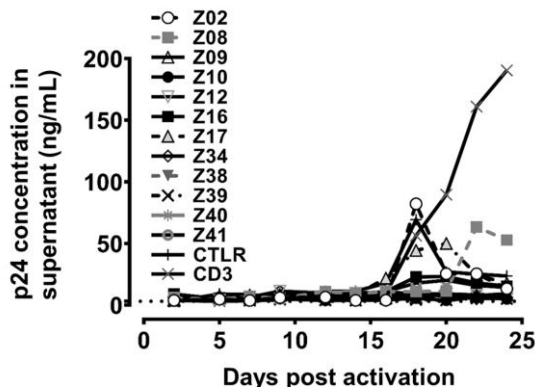
provided between the oil storage tank and the extrusion tank. The invention, a treatment equipment that can automatically extract grease from kitchen waste, reduce the grease and oil into the sewer, reduce the possibility of sewer clogging, and reduce the burden on the municipal treatment system.



21: 2024/05159. 22: 2024/07/02. 43: 2025/01/06
 51: A61K; C07K; C12N; A61P
 71: BEIJING SOLOBIO GENETECHNOLOGY CO., LTD.
 72: ZHU, Weijun, WANG, Hongwei, YANG, Ying, FAN, Jundie
 33: CN 31: 202111666522.1 32: 2021-12-31
 33: CN 31: 202210350268.2 32: 2022-04-02
54: CHIMERIC ANTIGEN RECEPTOR T CELLS TARGETING HIV-INFECTED CELLS

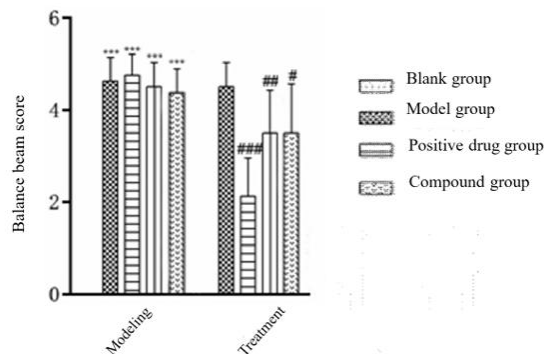
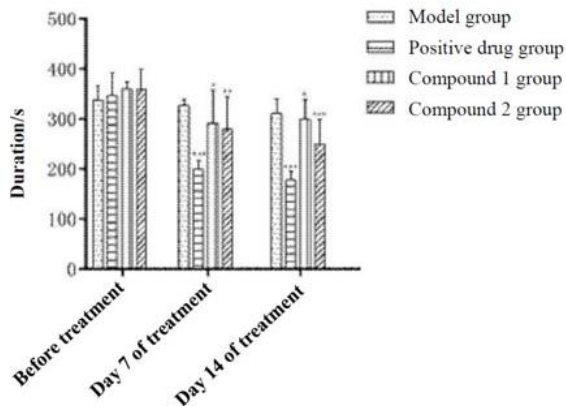
00: -
 One aspect of the present application relates to a recombinant cell comprising a chimeric antigen receptor and shRNA targeted to inhibit the life cycle of HIV. Another aspect of the present application relates to a chimeric antigen molecule, the extracellular region of which is from or comprising the extracellular region of human CD4 molecule, the transmembrane region of which is from or comprising the transmembrane domain of CD8 alpha, and a recombinant cell comprising the above chimeric antigen molecule. The above recombinant cell can be used to treat HIV infection, and have stronger comprehensive killing efficacy, longer

effective time, and less risk of causing cytokine storm in the environment of HIV infection.



21: 2024/05165. 22: 2024/07/02. 43: 2025/01/06
 51: A61K; C07C; A61P
 71: DEYI PHARMACEUTICAL LTD.
 72: WANG, Shubin, DU, Yesong, ZHANG, Pingping
 33: CN 31: 202111516427.3 32: 2021-12-10
54: CANNABIDIOL DERIVATIVE, AND PREPARATION METHOD THEREFOR AND USE THEREOF

00: -
 Disclosed are a cannabidiol derivative, and a preparation method therefor and the use thereof, and in particular the use thereof in the prevention and treatment of a nervous system disease (such as epilepsy and Parkinson's disease). The cannabidiol derivative is obtained by means of screening from a series of synthetic derivatives, and animal test results show that the compounds can effectively shorten the epileptic seizure duration of an experimental animal, improves the epileptic seizure symptoms of the experimental animal, reduces the balance beam score of the Parkinson's model animal, increases the dopamine level and the tyrosine hydroxylase (TH) cell positivity in the substantia nigra (SubN), can be used for drug development and research on various diseases such as epilepsy and Parkinson's disease, and has a better application value.



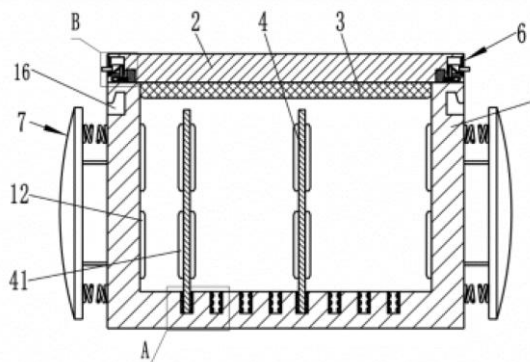
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 ###: P ≤ 0.005 VS model group

21: 2024/05170. 22: 2024/07/02. 43: 2025/01/06
 51: A61K; C07C; A61P
 71: DEYI PHARMACEUTICAL LTD.
 72: WANG, Shubin, DU, Yesong, ZHANG, Pingping
 33: CN 31: 202111506679.8 32: 2021-12-10
54: CANNABIDIOL DERIVATIVE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

00: -
 Disclosed in the present invention are a cannabidiol derivative, a preparation method therefor and an application thereof, particularly an application in preventing and treating nervous system diseases (such as Parkinson's disease). The cannabidiol derivative is obtained by screening from a series of synthetic derivatives. An animal testing result shows that the cannabidiol derivative can reduce the balance beam score of a Parkinson's model animal and improve the dopamine level and the tyrosine hydroxylase (TH) cell positive rate in substantia nigra (SubN), can be used for drug development and research of various diseases such as epilepsy and Parkinson's disease, and has better application value.

21: 2024/05179. 22: 2024/07/03. 43: 2025/01/06
 51: B07C
 71: Zhejiang Industry and Trade Vocational College
 72: Jin Ge
54: MULTI-FUNCTIONAL E-COMMERCE LOGISTICS PACKAGE

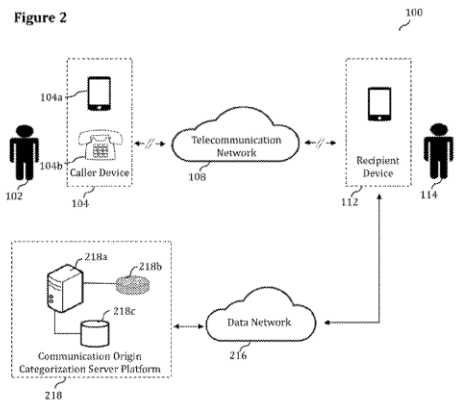
00: -
 The present invention provides a multifunctional e-commerce logistics packaging box, including: a box body, wherein the box body is internally protected through a plurality of first protection pads; a box cover mounted on the box body through a pair of locking mechanisms; a sealing plug connected to the bottom of the box cover and used for sealing the box body; a plurality of partition plates inserted into the plurality of card slot of the box body at intervals; and a plurality of protection mechanisms distributed on the box body and protecting the outside.



21: 2024/05192. 22: 2024/07/03. 43: 2025/01/07
 51: H04L; H04M
 71: TRUECALLER INTERNATIONAL LLP

72: BHATNAGAR, Abhinav, PADMANABHAN, Dhanesh
 33: IN 31: 202211000188 32: 2022-01-03
54: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR OPTIMIZING IDENTIFICATION OF COMMUNICATION DEVICE BASED SPAMMING

00: -
 The invention is directed towards prevention (or a reduction in the incidence) of unsolicited voice calls and /or unsolicited messaging content on communication devices. The invention relies on a communication origination categorization server configured for implementing the steps of (i) identifying a number for a communication origination categorization decision, wherein the identified number is associated with a first telephony device that has initiated a communication with a second telephony device, (ii) identifying application user feedback information associated with the identified number, (iii) identifying at least one of calling behaviour information associated with the identified number and messaging behaviour information associated with the identified number, (iv) generating a communication origination categorization decision based on at least one or both of the identified calling behaviour information and the identified messaging behaviour information, and (v) transmitting to the second telephony device, the communication origination categorization decision.



21: 2024/05194. 22: 2024/07/03. 43: 2025/01/07
 51: C08L
 71: NEXAM CHEMICAL AB
 72: PISCIOTTI, Francesco, SELLING, Hugo, KEIVANSHOKOUH, Amin, SOLANO ARRIBAS, Carlos
 33: EP 31: 21213147.8 32: 2021-12-08

54: NOVEL RECYCLING PROCESS OF POLYETHYLENE
 00: -
 Recycling of waste products has become increasingly common practice in the last decades. The recycling of plastic materials is important and widely carried out by many industries and households around the world. A multitude of everyday consumer items are made from plastic materials, such as bottles, bags, products, and especially liquid food board-based packaging. It is important to recycle and reuse the polymers.

21: 2024/05210. 22: 2024/07/04. 43: 2025/01/07
 51: E04H
 71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
 72: WANG, Hongjun, ZHANG, Fengmin, WANG, Gang, ZHANG, Ansheng, FENG, Ruili, WU, Huihui, SU, Meiqing, LI, Jiahui, SHEN, Zhengtong, CHEN, Kun

33: CN 31: 202410660875.8 32: 2024-05-27
54: METHOD FOR SETTING UP GREEN DUST-PROOF AND NOISE-REDUCING CANOPY SYSTEM
 00: -
 The present invention discloses a method for setting up a green dust-proof and noise-reducing canopy system. In the present invention, an image capturing device is used to survey in detail a region in which a dust-proof and noise-reducing material is mounted. The image capturing device, especially a high-resolution camera or a camera mounted on a drone, can provide high-resolution image data, which is conducive to finding a tiny crack or detachment track, ensuring the integrity and functionality of the canopy system. Compared with manual inspection, using the image capturing device can save a significant amount of labor and time, especially in a large or complex construction region. Data collected by the image capturing device can be used for further data analysis. With the image capturing device used periodically for inspection, potential safety hazards can be found out in time, for example, a crack or detachment, and then a corresponding measure is used for repair, avoiding safety accident caused by structural problem. This improves the safety and provides strong support for

the maintenance and management of the canopy system.

21: 2024/05213. 22: 2024/07/04. 43: 2025/01/07
51: A61K

71: Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences, Anhui Huarun Jinchan Pharmaceutical Co., Ltd.
72: SI Nan, YANG Jiaying, GAO Bo, LUO Chuan, ZHAO Haiyu, BIAN Baolin, WANG Hongjie, WEI Xiaolu, ZHOU Yanyan

54: ANTI-TUMOR NANO-MICELLE, PREPARATION METHOD AND APPLICATION THEREOF

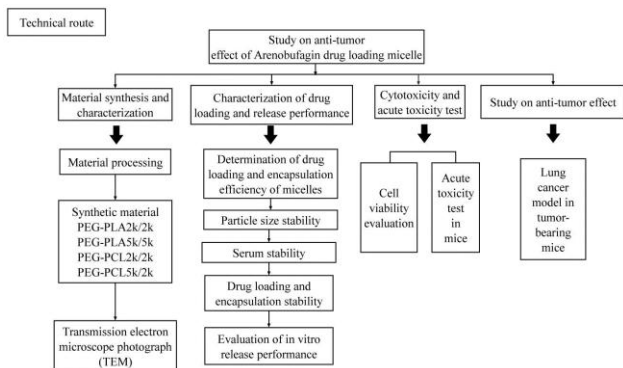
00: -
The invention discloses an anti-tumor nano micelle, a preparation method and application thereof. Mixing polyethylene glycol monomethyl ether, polycaprolactone or polylactic acid, a catalyst and a solvent, carrying out ring-opening polymerization reaction, generating nano materials, and carrying out encapsulating the Arenobufagin by adopting a film hydration method to obtain the anti-tumor nano micelle. The anti-tumor nano-micelle has good water solubility, is relatively stable under physiological conditions, can be circulated in vivo for a long time without being rapidly metabolized, can quickly release effective drug components, and has good application prospects in anti-tumor treatment and drug research and development. In addition, the death situation of nude mice in the modified Arenobufagin micelle group is obviously better than that in the Arenobufagin free drug group, and the toxicity is reduced, indicating that the nano micelle has better safety, which is of great significance for broadening the anti-tumor dose window of Arenobufagin.

21: 2024/05244. 22: 2024/07/05. 43: 2025/01/08
51: B07B

71: Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences, Beijing Center for Disease Prevention and Control
72: LUO Lu, LI Raorao, GU Xuezh, XIN Xueying, LIU Liping, WANG Yiming, LIU Yang

54: METHOD FOR IDENTIFYING NATURAL REALGAR AND SYNTHETIC REALGAR BY ARSENIC DISSOLUTION VALENCE

00: -
The invention discloses a method for identifying natural realgar and synthetic realgar by arsenic dissolution valence, and belongs to the technical field of realgar identification. In this method, artificial gastric juice, artificial intestinal juice and 0.16 percent hydrochloric acid are used as dissolution media, then the dissolution environment of heavy metal arsenic in human gastrointestinal fluid is simulated, and the dissolution components of the realgar sample to be detected are further detected. Finally, whether the realgar sample to be detected is natural realgar or synthetic realgar is identified by the difference of the dissolution state components of arsenic. The soluble valence components of arsenic include soluble arsenic, arsenous acid and arsenic acid. According to the invention, it is clear that whether the realgar sample to be detected is natural realgar or synthetic realgar can be identified by the difference of the soluble valence components of arsenic, and a method for effectively identifying natural realgar and synthetic realgar is successfully developed. It not only helps to ensure the safety and standardization of the Chinese herbal medicine market, but also provides strong support for the sustainable utilization and industrial development of Chinese herbal medicines.



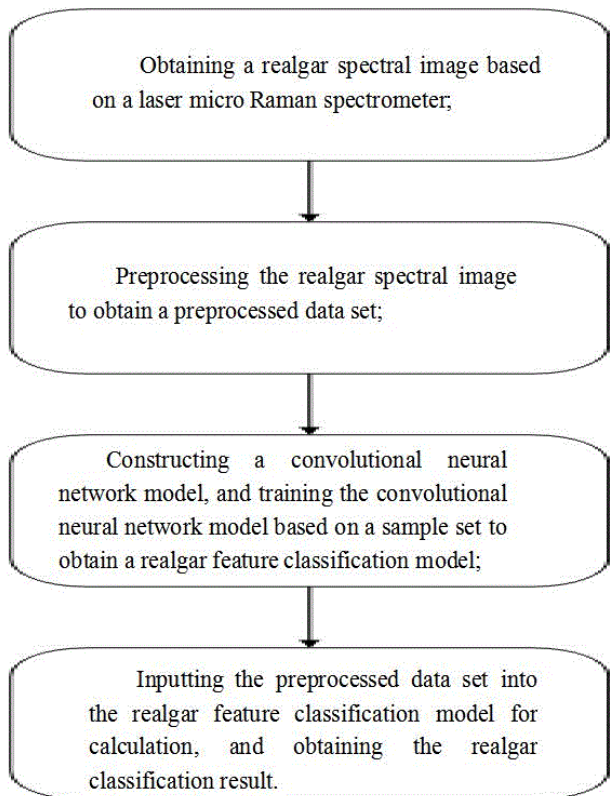
21: 2024/05245. 22: 2024/07/05. 43: 2025/01/08
51: C07K

71: Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences, Beijing Center for Disease Prevention and Control
72: LUO Lu, LI Raorao, GU Xuezh, XIN Xueying, LIU Liping, WANG Yiming, LIU Yang

33: CN 31: 2024106813343 32: 2024-05-29
54: REALGAR CLASSIFICATION METHOD

00: -
The invention discloses a realgar classification method, which belongs to the technical field of realgar classification, and comprises the following

steps: acquiring a realgar spectral image based on a laser micro Raman spectrometer; Preprocessing the realgar spectral image to obtain a preprocessed data set; Constructing a convolutional neural network model, and training the convolutional neural network model based on a sample set to obtain a realgar feature classification model; Inputting the preprocessed data set into the realgar feature classification model for calculation, and obtaining the realgar classification result. In the invention, the convolution neural network is adopted to process the Raman spectrum of realgar, and the convolution neural network can learn the complex relationship between features when processing the realgar sample classification. It can capture subtle changes in samples, such as different chemical components and structural differences, through hierarchical feature extraction and pattern recognition. This makes the realgar classification method based on convolutional neural network have good generalization ability in solving multi-class classification problems.

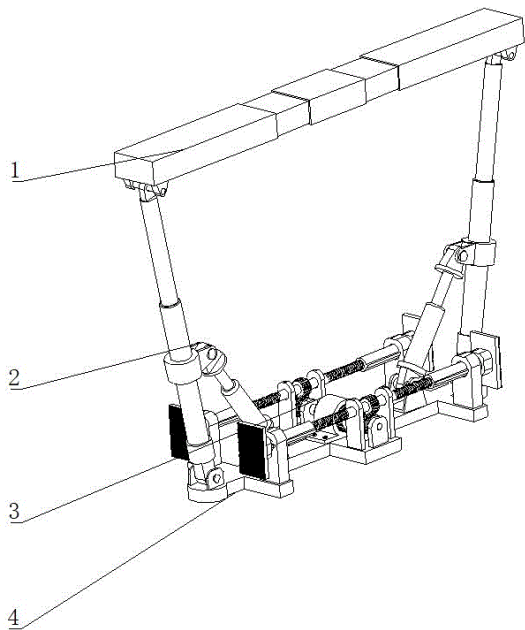


71: Lanzhou Institute of Technology, Anhui Runhuai Energy Storage Technology Development Co., Ltd. 72: WEI Zhen, YUAN Shangke, JIA Shuming, MA Yongqiang, WANG Shengting

54: TEMPORARY SUPPORT SYSTEM FOR ROADWAY TUNNELING OPERATIONS

00: -
 The present invention relates to the field of tunnel support technology, particularly to a temporary support device for roadway tunneling operations, comprising a top beam and a supporting mechanism. The top beam includes first top beam plate and second top beam plate, with two first top beam plate arranged and second top beam plate positioned between the two first top beam plate, with its ends slidingly inserted into the two first top beam plate. The supporting mechanism includes a bottom plate, with connection components installed at both ends of the top surface of the bottom plate. At the end away from the bottom plate, the connection components are fixedly connected to first hydraulic support rod, and adjustment components are set between the fixed portion of the first hydraulic support rod and the top surface of the bottom plate. The top ends of the two first hydraulic support rod are respectively hinged with a first top beam plate. A positioning mechanism is also installed on the top surface of the bottom plate. Through the setup of the positioning mechanism, the fixation and disassembly of the main body of the device at the bottom are automated, effectively improving the efficiency of installation and disassembly of the device.

21: 2024/05252. 22: 2024/07/05. 43: 2025/01/08
 51: E21D



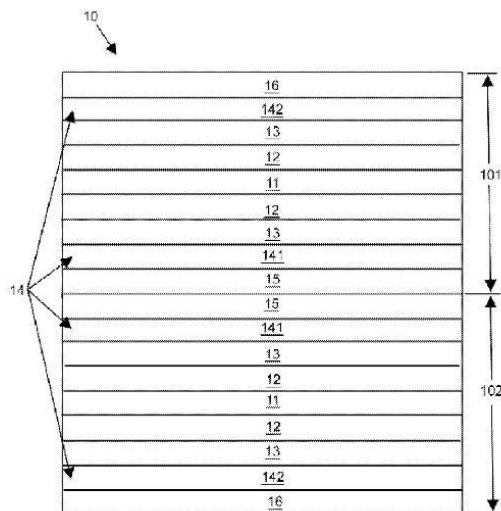
21: 2024/05256. 22: 2024/07/05. 43: 2025/01/08
 51: C22B; H01M
 71: MINIMINES CLEANTECH SOLUTIONS PRIVATE LIMITED

72: KUMAR, Anupam, BHARDWAJ, Arvind
 33: IN 31: 202111040571 32: 2022-01-07
54: PROCESS OF MATERIALS RECOVERY FROM ENERGY STORAGE DEVICES

00: -
 Process of materials recovery from energy storage devices, wherein the process comprises cleaning, washing, deep discharging and then crushing the devices to recover floating non-magnetic materials and magnetic materials. Further the black mass is treated with baking process, water soaking process, gravity filtration process, leaching process, Cobalt salt recovery process, Manganese salt recovery process, Nickel salt recovery process, Sodium salt recovery process, Lithium salt recovery process and then selective absorption of respective ions using Ion-exchange resin and liquid-liquid extraction using organic solvent for beneficiation to recover pure Cobalt ions, Manganese ions, Nickel ions and Lithium ions. Further the process of the present invention facilitates in recovering all possible battery grade materials from used energy storage devices. The process of the present invention uses less water, energy, economical, safe, environment friendly without generating any hazardous gases while the process has very low carbon foot prints.

21: 2024/05257. 22: 2024/07/05. 43: 2025/01/08
 51: B32B; B65D
 71: KOROZO AMBALAJ SANAYI VE TICARET A.S.
 72: ZORLUCA, Mustafa
 33: TR 31: 2021/021526 32: 2021-12-29
54: A PACKAGING FILM

00: -
 A thermoformable and recyclable packaging film for use in the packaging of food products such as meat and meat products, milk and dairy products, seafood, and bakery products (10). The packaging film comprises at least one outer layer (16) to provide heat resistance on one side, at least one blocking layer to ensure adhesion on the other side, at least one barrier layer provided in the middle, at least one functional layer (14) to ensure physical durability, provided respectively from the blocking layer (15) and the outer layer (16) to the barrier layer (11), at least one base layer (13) to improve mechanical properties and heat interaction, a first layer group (101) comprising the barrier layer (11) and at least one compatibilizer layer (12) to connect the other film layers, and a second layer group (102) comprising film layers with the same properties provided in its symmetry, composed of ethylene vinyl alcohol material so that the sum of the weights of the barrier layers is at most 5% of the weight of the packaging film (10); other film layers being composed of polyolefin-based mono materials.



21: 2024/05300. 22: 2024/07/08. 43: 2025/01/23
 51: G01G

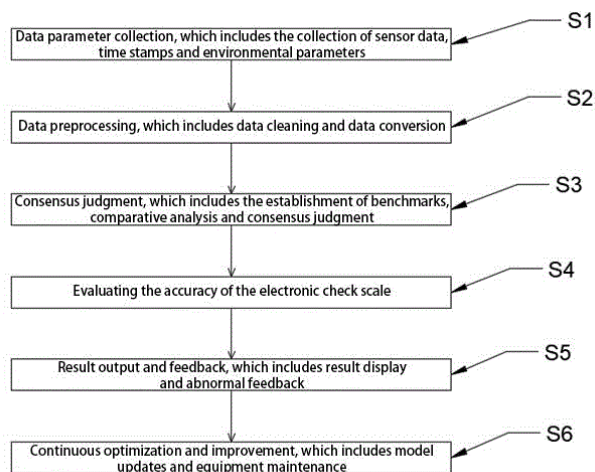
71: Yongzhou Zhongxing Measurement Service Co., Ltd.

72: Hongniu Chen, Bin Li, Huimin Zhou

54: FAIR SCALE MONITORING METHOD AND SYSTEM BASED ON INTERNET-OF-THINGS CONSENSUS DISCRIMINATION

00: -

The invention relates to the technical field of check scale monitoring, in particular to a check scale monitoring method and system based on Internet of Things consensus discrimination. It includes the following steps: Data parameter collection, including the collection of sensor data, time stamps, and environmental parameters; Data preprocessing, including data cleaning and data conversion; Consensus judgment, including the establishment of benchmarks, comparative analysis and consensus judgment; Evaluating the accuracy of electronic check scales; Result output and feedback, including result display and abnormal feedback; Continuous optimization and improvement, including model update and equipment maintenance; The beneficial effects are as follows: The check scale monitoring method and system based on the consensus discrimination of the Internet of Things proposed in the invention collects data in real time through the Internet of Things sensor and utilizes automatic data processing and analysis technology, which can realize continuous and automatic monitoring of the electronic balance and greatly improve the monitoring efficiency.



71: C-Kingdom Cable Technology Co., Ltd.

72: Binghua Mao, Hongmei Zhu

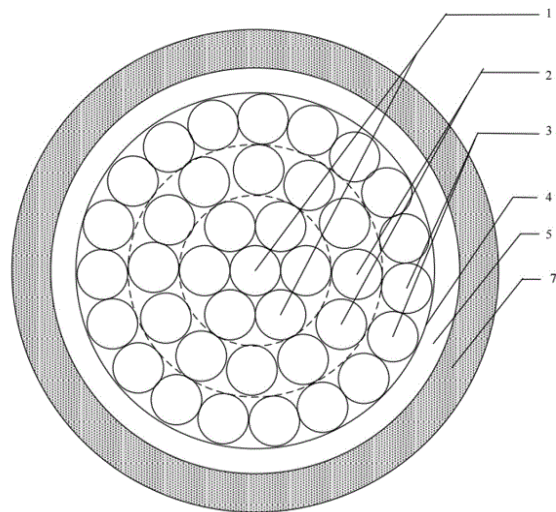
33: CN 31: 202410267198.3 32: 2024-03-08

54: A TORSION-RESISTANT ALUMINUM ALLOY WIND ENERGY CABLE AND ITS MANUFACTURING METHOD THEREOF

00: -

The invention discloses a torsion-resistant aluminum alloy wind energy cable and a manufacturing method thereof. The torsion-resistant aluminum alloy wind energy cable including an aluminum alloy conductor, the aluminum alloy conductor includes outermost aluminum alloy strands, middle layer Aluminum alloy strands, and central layer aluminum alloy strands; the aluminum alloy conductor is manufactured using different aluminum alloy formulas for outermost layer, middle layer, and central layer, respectively, the aluminum alloy formula of the outermost aluminum alloy strands includes the following components in mass percent: Si 0.4 percent-0.6 percent, Fe 0.1 percent-0.3 percent, Cu 0.02 percent-0.05 percent, Mn 0.01 percent-0.02 percent, Mg 0.35 percent-0.5 percent, Cr 0.01 percent-0.02 percent, Zn is less than or equal to 0.10 percent, B 0.01 percent-0.05 percent, Li 0.001 percent-0.005 percent, Zr 0.003 percent-0.01 percent, Sn 0.001 percent-0.005 percent, Sc 0.016 percent-0.02 percent, each impurity element is less than or equal to 0.03 percent, the total amount of impurity elements is less than or equal to 0.10 percent and the rest is aluminum. The invention breakthrough adopted 4 times aging treatment for the torsion-resistant aluminum alloy wind energy cable conductor. The torsion-resistant aluminum alloy wind energy cable using this conductor can pass the normal temperature torsion test for 11000 cycles or 15000 cycles, and they are less costly compared to the copper core twisted cable, in line with the wind power energy parity trend.

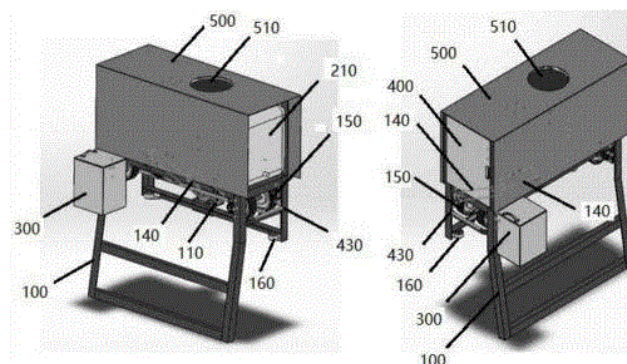
21: 2024/05321. 22: 2024/07/09. 43: 2025/01/14
51: H01B



21: 2024/05324. 22: 2024/07/09. 43: 2025/01/14
 51: E01D
 71: Jiangsu Jiaotong College
 72: TANG Bin, WANG Ruiwen
54: FULL-AUTOMATIC HEALTH CARE VEHICLE FOR BRIDGE CEMENT CONCRETE WALL GUARDRAIL

00: -
 The invention discloses a full-automatic health care vehicle for bridge cement concrete wall guardrail, which consists of a transmission system, a water replenishing and spraying system and an electrical control system; the transmission system comprises a motor, a reducer, a sprocket, a transmission chain, a driving wheel, a vehicle body bracket and a guiding wheel, wherein the driving wheel is arranged at the bottom of the vehicle body bracket, and the guiding wheel is arranged at the side of the vehicle body bracket; the driving wheel and the guiding wheel are both provided with sprockets; and the motor is movably linked with the driving wheel and the guiding wheel respectively through the cooperation of the reducer and the transmission chain; the water replenishing and spraying system comprises a water tank, a water spraying pump and a spraying pipe; the electrical control system includes portable direct current power supply, PLC, touch screen, limiting sensor, motor driver, direct current contactor, direct current converter, water level controller and control box. According to the invention, the vehicle automatically walks, automatically adds water and automatically sprays water, and the water tank automatically returns to the original point and adds

water after there is no water, so that the time interval between this water spraying and the next water spraying can be arbitrarily adjusted.

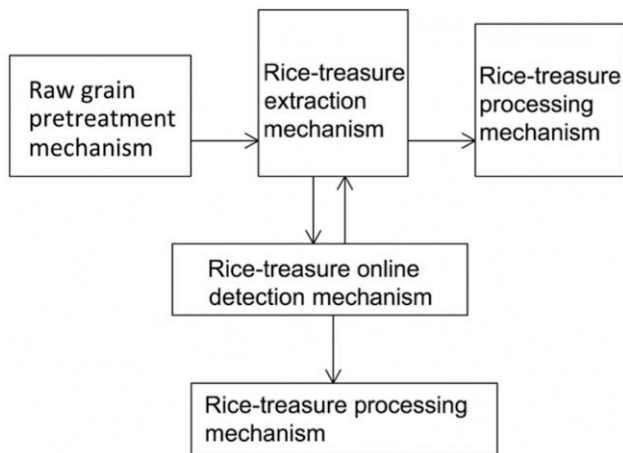


21: 2024/05333. 22: 2024/07/09. 43: 2025/01/20
 51: B29B
 71: RECYCLATECH GROUP LIMITED
 72: BELL, David, TURNER, Andrew
 33: GB 31: 2118205.0 32: 2021-12-15
54: PROCESS FOR RECOVERY OF COMPONENT MATERIALS FROM COMPOSITE PRODUCTS COMPRISING UNCURED RUBBER AND A REINFORCEMENT MATERIAL

00: -
 The invention provides a process for the recovery of component materials from composite products, the process comprising: a) providing a composite product that comprises a plurality of component materials, said component materials including uncured rubber and reinforcement material selected from fabric and/or metal; b) preparing one or more standardised sheets of composite product, wherein each standardised sheet has a maximum thickness of 125mm or less; and c) jetting pressurised water onto one or more surface of the standardised sheets, whereby the water is at a pressure of up to 500 bar, thereby stripping the uncured rubber from the reinforcement material and resulting in a mixture of uncured rubber fabric and reinforcement material.

21: 2024/05356. 22: 2024/07/10. 43: 2025/01/20
 51: A47J
 71: HUNAN ZHUNONG RICE INDUSTRY CO., LTD.
 72: HUANG Qingming, LIAO Juan, HU Jian, LIN Qinlu, LI Jiangtao, DING Yuqin, CHEN Chaojun, HUANG Haowen, SU Li
 33: CN 31: 202410359279.6 32: 2024-03-27
54: INTELLIGENT RICE-TREASURE PREPARATION SYSTEM AND PREPARATION PROCESS

00: -
 The invention discloses an intelligent rice-treasure preparation system and a preparation process thereof. The system comprises a raw grain pretreatment mechanism, a rice-treasure extraction mechanism, a rice-treasure online detection mechanism and a rice-treasure processing mechanism which are arranged in sequence; the raw grain pretreatment mechanism provides the brown rice meeting the requirements to the rice-treasure extraction mechanism; the rice milling pressure of the plurality of rice husking machines is distributed in a gradient manner, each rice husking machine is provided with a milling powder outlet end and a milling rice outlet end, the milled rice outlet ends are connected with the feeding end of the next-stage rice husking machine through the material conveying mechanism, and the milled rice outlet end of the tail end rice husking machine is connected with the rice noodle processing mechanism; in addition to the first rice husking machine, the milling powder outlet end of each subsequent rice husking machine is connected to the rice-treasure processing mechanism after passing through the corresponding meter on-line detection mechanism, the meter online detection mechanism is in online detection fit with the material output by the corresponding milling powder outlet end, and the rice-treasure online detection mechanism and the corresponding rice husking machine form a linkage fit, so as to ensure the rice-treasure extraction quality.



21: 2024/05357. 22: 2024/07/10. 43: 2025/01/20
 51: C05G

71: Huaiyin Institute of Agricultural Sciences of Xuhuai Region in Jiangsu
 72: SHAO, Wenqi, DONG, Qingjun, LI, Chuanzhe, Ji, Li, ZHANG, Ankang, FAN, Maolin, WANG, Qin, DONG, Yubing, LI, Qing, LI, Weihong, ZHANG, Miao, ZHONG, Ping, SUN, Chunmei, ZHUANG, Chun, CHEN, Chuan

54: STRAW DECOMPOSITION COMPOUND CONTAINING BACTERIA, ENZYMES, AND NUTRIENTS

00: -
 The present invention provides a straw decomposition compound containing bacteria, enzymes, and nutrients, which belongs to the technical field of crop straw treatment. The present invention provides a straw decomposition compound, by mass percent, including: organic matter equal to or more than 35 percent, 5 to 15 percent of N-P-K nutrient elements, and the balance of support materials. The straw decomposition compound further includes biological bacteria equal to or more than 100 million/g and 0.06 to 0.20 mg/kg of soil enzyme additive. The straw decomposition compound provided by the present invention utilizes the principle of stimulated field returning technology, takes the organic matter as a carrier, adds nutrient elements to increase a nutrient supply intensity of nitrogen, phosphorus, and potassium, and optimizes and adjusts the variety and quantity of microbial bacteria in the biological bacteria. A soil enzyme additive compounded by multiple soil enzymes is added simultaneously.

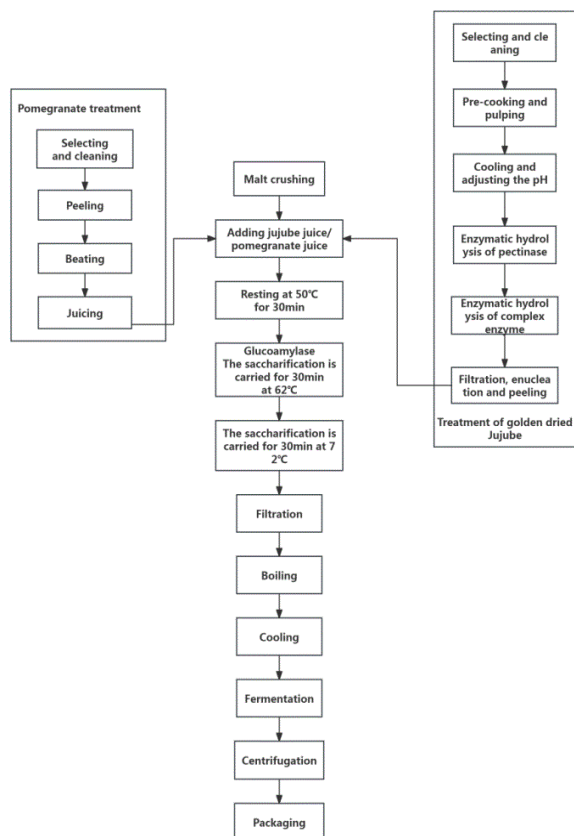
21: 2024/05359. 22: 2024/07/10. 43: 2025/01/20
 51: C12C

71: Shandong Institute of Pomology
 72: Cheng LIU, Xuemei YANG, Tingting QI, Guangning SHEN, Qiong ZHANG, Xin CHEN, Juanxia YANG

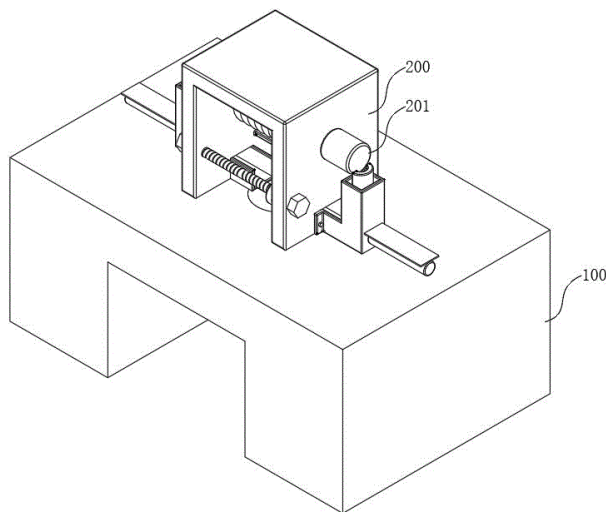
54: A PREPARATION METHOD AND EQUIPMENT FOR TURBID DRY BEER OF GOLDEN-SILK JUJUBE AND POMEGRANATE

00: -
 The invention relates to a turbid fruit and vegetable juice dry beer of golden-silk jujube and pomegranate, the golden-silk jujube juice and pomegranate juice are mixed after the two stages of enzymatic hydrolysis, and then the Ale malt is mixed with wheat malt, after three stages of saccharification, two kinds of Saccharomyces cerevisiae are added for mixed fermentation, finally

the dry beer is obtained. The product obtained by the invention has good and typical flavor characteristics of jujube and pomegranate, from the processing level, the added value of golden silk jujube and pomegranate is improved, and the product of the invention is conducive to the further development of jujube and pomegranate industries, it fills the gap in the production of fruit and vegetable juice dry beer products by jujube and pomegranate in China, enriches the varieties of beer in China, increases the diversification of products, besides, the product obtained by the invention has important economic value and social significance, and plays a role in promoting industrial transformation.



The present invention discloses a dynamic monitoring device and method for coal mine groundwater, belonging to the technical field of monitoring equipment. The device includes a lifting assembly, a driving assembly, and a limiting assembly. By extending the electric telescopic rods in the driving assembly, the semicircular ring magnets located at the horizontal pipes are converged to the center. Through magnetic attraction, the semicircular ring magnets on both sides are adsorbed onto the outer wall of the traction rope. After the electric telescopic rods retract, the semicircular ring magnets above fall downward due to gravity, thereby continuously attaching multiple semicircular ring magnets to the outer wall of the traction rope. Rotating the driving hex head on one side of the limiting assembly drives the bidirectional screw to rotate, causing the sliding plates on both sides to move inward simultaneously, with the semicircular grooves on both sides fitting together to form a circular hole located on the outer wall of the traction rope. Reversing the drive motor tightens the traction rope, causing the uppermost magnetic ring to contact the bottom of the sliding plates, thereby stabilizing the monitoring component as it is inserted into the water, preventing it from changing its position due to water flow.

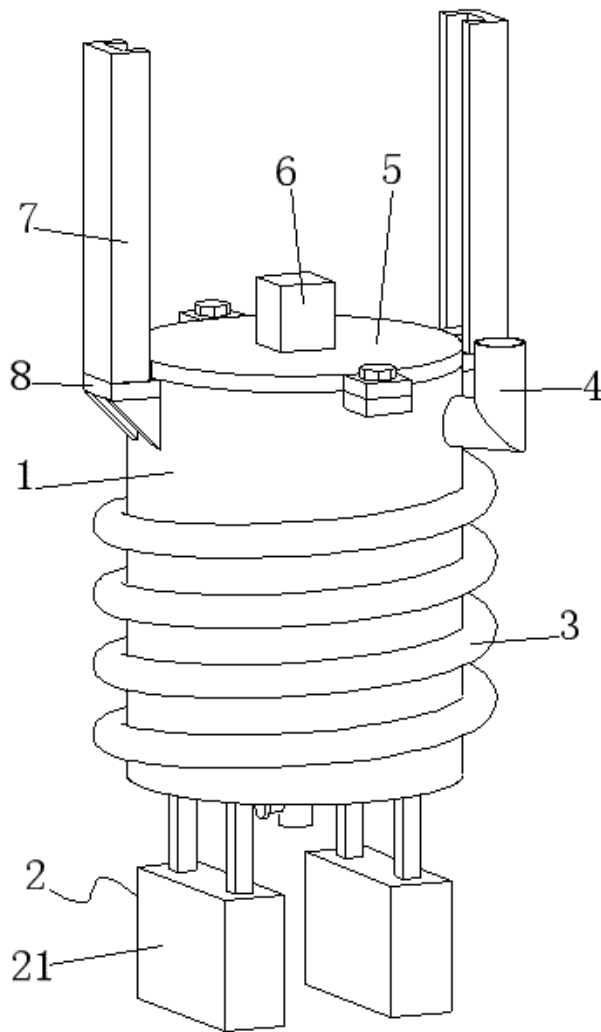


21: 2024/05360. 22: 2024/07/10. 43: 2025/01/20
 51: E21F
 71: Xichuan Coal Mine Branch, Huaneng Tongchuan Zhaojin Coal Power Co., Ltd.
 72: Bo Liu, Yuhui Miao, Tao Hu, Wei Yi, Jiangbo Di, Xuyu Huang, Chao Zhang
 33: CN 31: 202410783093.3 32: 2024-06-17
54: A DYNAMIC MONITORING DEVICE AND METHOD FOR COAL MINE GROUNDWATER
 00: -

21: 2024/05361. 22: 2024/07/10. 43: 2025/01/20
 51: B01J
 71: Shanghai Children's Hospital
 72: Jinghan Guo, Yue Zhang
54: A HEATING REACTOR FOR THE PREPARATION OF ORAL MATERIALS

00: -

The invention discloses a heating reactor for the preparation of oral materials, belonging to the field of reactor technology. It includes a shell, with a feed inlet set on the upper front end of the shell, and a discharge pipe at the lower end of the shell. The surface of the shell is equipped with heating coils, and the upper end of the shell is connected to a top cover with bolts. In the middle position of the top cover, there is a motor one, whose output end is equipped with a rotating shaft. A filter plate is set at the lower end of the rotating shaft, and several stirring rods are arranged on the rotating shaft. Shock absorber components are set on both sides of the lower end of the shell. By setting these shock absorber components, the device generates vibrations during use, which drive the sliding plate at the lower end of the sliding rod to move within the fixed box. The movement of the sliding plate compresses the damping rod and spring between the sliding plate and the partition, using the damping rod and spring to buffer and dampen the device, thus improving the practicality of the device by providing shock absorption.

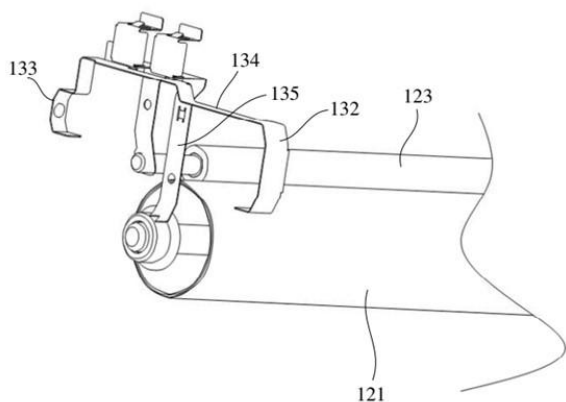


21: 2024/05390. 22: 2024/07/10. 43: 2025/01/20
 51: G03G
 71: ZHUHAI PANTUM ELECTRONICS CO., LTD.
 72: SHAO, Zhe, YANG, Hongjian, YU, Hongjie, XIA, Xiangchao
 33: CN 31: 202123372434.9 32: 2021-12-29
 33: CN 31: 202211470376.X 32: 2022-11-23
54: CONDUCTIVE COMPONENT, IMAGING ASSEMBLY, PROCESSING BOX, PROCESSING BOX GROUP, AND IMAGE FORMING APPARATUS

00: -

A conductive component, an imaging assembly, a processing box, a processing box group, and an image forming apparatus. The conductive component comprises an electricity receiving portion, electricity output portion, electric conduction portion and conductive transmission portion that are electrically connected to each other, wherein the

conductive transmission portion is used for transmitting power received by the electricity receiving portion to the electricity output portion and the electric conduction portion, and when the conductive component is used for carrying out electric conduction on the processing box, the electricity receiving portion is electrically connected to a power supply outside a current processing box so as to receive a first power supply from the outside of the current processing box; the electricity output portion is electrically connected to an imaging member in the current processing box and transmits a second power supply to the imaging member, and the electric conduction portion outputs a third power supply to the outside of the current processing box, so that a part of the processing box may obtain power supply by means of a voltage transmitted by other processing boxes. Therefore, the arrangement of conductive terminals may be reduced on the body side of the image forming apparatus, the elastic action force generated between the processing box and the body is reduced, the mounting stability of the processing box is improved, and the costs are reduced.



21: 2024/05392. 22: 2024/07/11. 43: 2025/01/20
51: C02F

71: Yancheng Teachers University

72: Fujun, XUAN

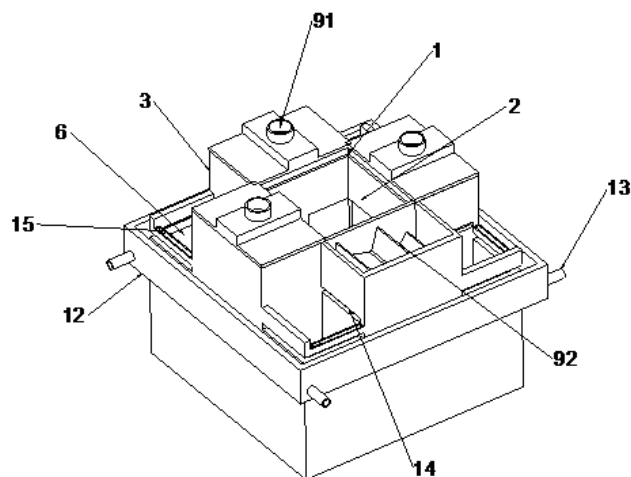
33: CN 31: CN202410675518.9 32: 2024-05-29

54: AQUACULTURE TAIL WATER TREATMENT DEVICE

00: -

The present invention discloses an aquaculture tail water treatment device, including a garbage tank, a plurality of filter tanks, and at least one water purification tank, wherein the filter tank and the water

purification tank are arranged around the garbage tank. The filtered water source is automatically flowed into the water purification tank by the action of gravity of the tail water itself and atmospheric pressure, and is discharged from an overflow outlet after purification. The tail water is filtered by the action of a conveyor belt acting as a filter mesh.



21: 2024/05393. 22: 2024/07/11. 43: 2025/01/20
51: C07D

71: Huangshan University

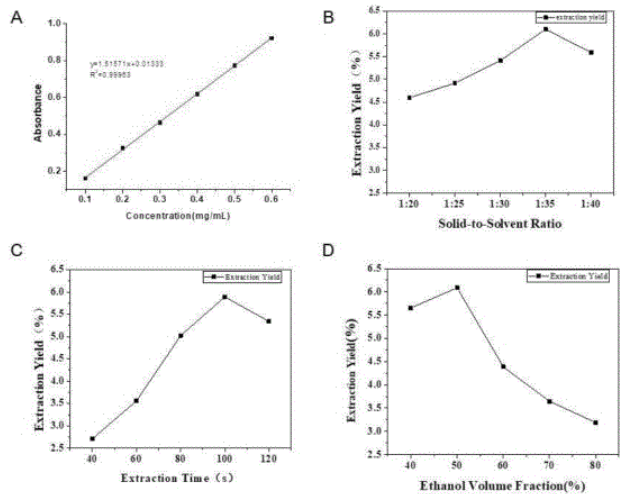
72: PAN Le, ZHANG Yanfei, YANG Shuang, SHEN Biru, YANG Yujie, ZHANG Mingliang

54: METHOD FOR EXTRACTING, SEPARATING AND PURIFYING PROANTHOCYANIDINS FROM BLACK WOLFBERRY

00: -

This application relates to the field of natural product extraction and discloses a method for extracting, separating and purifying proanthocyanidins from black wolfberry, it includes the following steps: S1. placing the black wolfberry raw material in a vacuum oven and drying it at 65°C to 75°C until the mass is constant; S2. grinding the dried black wolfberry into powder and passing it through a 90 to 110 mesh sieve; S3. mixing the powder with a solvent at a solvent-to-solid ratio of 1:30 to 1:40 g/mL, and performing flash extraction at 35°C to 45°C for 60 to 100 seconds; S4. centrifuging the extract and collecting the supernatant. The present invention can efficiently extract proanthocyanidins from black wolfberries by optimizing the solvent-to-solid ratio, extraction time, and ethanol volume fraction, resulting in a significant increase in the extraction rate and ensuring the efficient utilization of raw

materials, making it suitable for large-scale industrial production.



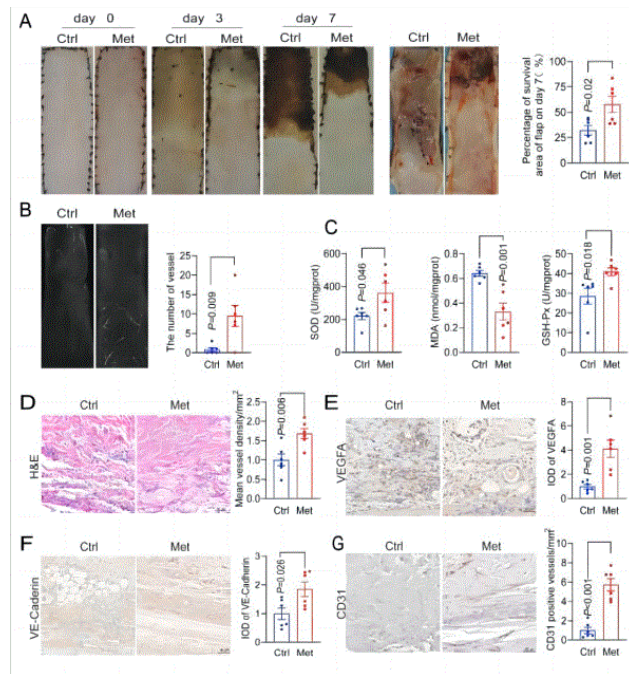
21: 2024/05394. 22: 2024/07/11. 43: 2025/01/20
51: A61K

71: The First Affiliated Hospital of Hainan Medical University

72: Shaojiang ZHENG, Yan CHEN, Yonghao FAN, Wenyan LU, Zhang FENG, Ruxin CHENG, Julan WU, Zhenling WAN

54: APPLICATION OF METFORMIN IN THE PREPARATION OF PROMOTING THE SURVIVAL OF RANDOM FLAP

00: -
The invention relates to the application of Metformin in the preparation of promoting the survival of random flap, and provides an effective way to improve flap survival after transplantation.



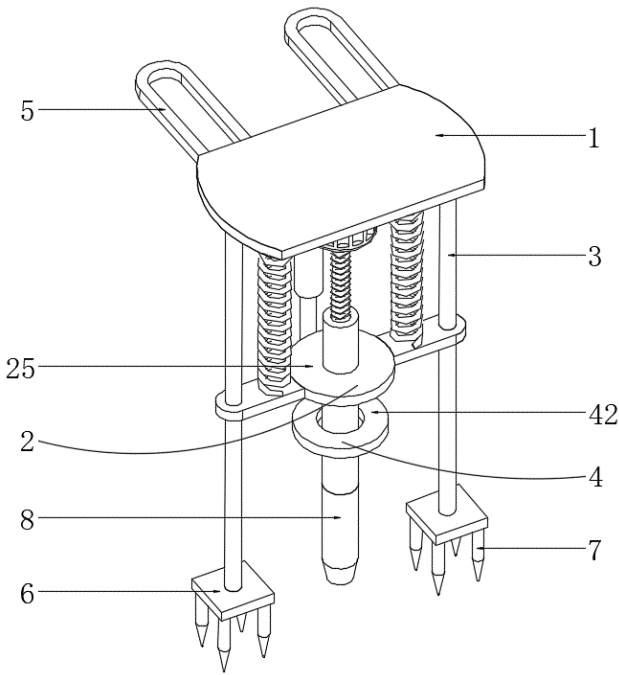
21: 2024/05396. 22: 2024/07/11. 43: 2025/01/21
51: G01N

71: Inner Mongolia Academy of Agricultural & Animal Husbandry sciences, Hulunbuir Agricultural Reclamation Tenihe Agricultural Pasture Co., Ltd
72: Lu Zhanyuan, Cheng Yuchen, Zhang Dejian, Ren Yongfeng, Zhao Xiaoqing, Chen Liyu, Zhao Kun, Liu Jiawei, Pan Yong, Wei Yulong, Yan Wei, Yan Chunrui, Wang Jianguo

54: SAMPLING DEVICE WITH LIMIT STRUCTURE FOR SOIL TESTING

00: -
Disclosed is a sampling device with a limit structure for soil testing, falling within the technical field of soil testing. An automatic lifting sampling unit includes a motor and spring strips, both the motor and the spring strips being fixedly connected to a bottom of a top plate, an output end of the motor being fixedly connected to a threaded rod, an outer surface of the threaded rod being threadedly connected to a spiral bushing, an outer surface of the spiral bushing being fixedly connected to a connecting disk, an outer surface of the connecting disk being fixedly connected to extension arms, and the extension arms being fixedly connected to the spring strips. According to the present application, by the lifting sampling unit, the device can be quickly inserted into soil for sampling, reducing the direct contact between an operator and the soil, and lowering the safety risk; and by precise control of the lifting

height, it is able to obtain more accurate and reliable soil samples, facilitating the subsequent analysis of the data and research, and reducing the work intensity of the operator, so as to make the sampling work more easy.

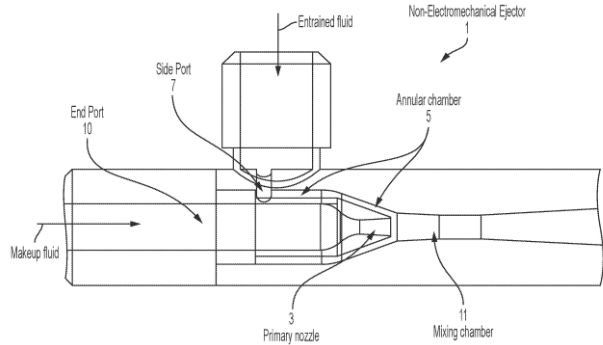


21: 2024/05400. 22: 2024/07/11. 43: 2025/01/20
 51: B60H; F25B; F28C; F28D; F28F
 71: EVAPCO, INC.
 72: STRUDER, Gordon, GOPALAN, Shridhar
 33: US 31: 63/291,101 32: 2021-12-17
 33: US 31: 18/068,238 32: 2022-12-19

54: NON-ELECTROMECHANICAL, PUMPLESS LIQUID RECIRCULATION SYSTEM FOR AIR-COOLED CONDENSER AND COOLER ADIABATIC PRE-COOLING SYSTEM

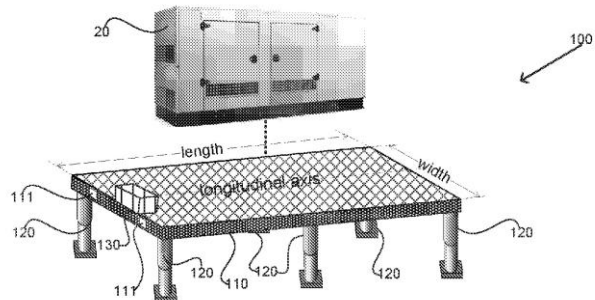
00: -
 An electrical generator system including a radionuclide material (7); and a sandwich structure, the sandwich structure including: [0001] a layer of an n-type semiconductor material (5); [0002] a layer of intrinsic n-type semiconductor material (4); [0003] a layer of p-type semiconductor material (3); and [0004] metal electrodes (2,6), one of the electrodes 6 being in direct contact with said n-type semiconductor material and another electrode 2 being in contact with the p-type semiconductor material, forming metal-semiconductor junctions therebetween; wherein radiation emissions received from said radionuclide material are converted into

electrical energy at said metal-semiconductor junctions; and [0005] electrical contacts connected to said electrodes which facilitate the flow of said electrical energy when connected to a load.



21: 2024/05405. 22: 2024/07/11. 43: 2025/01/20
 51: B60P; B65G
 71: SHECHTER, Adar
 72: SHECHTER, Adar
 33: US 31: 63/289,679 32: 2021-12-15
 33: WO 31: PCT/IB2022/061933 32: 2022-12-08
54: CONVEYANCE APPARATUS
 00: -

According to a first aspect of the present disclosed subject matter, a conveyance apparatus adapted to be transported by a flatbed truck, the conveyance apparatus comprising: a chassis having a bottom and engagement mechanisms; a plurality of telescopic legs operatively coupled to the bottom of the chassis for elevating and lowering the conveyance apparatus, and wherein the engagement mechanisms are configured to engage with the flatbed truck for securing the conveyance apparatus to the flatbed truck.

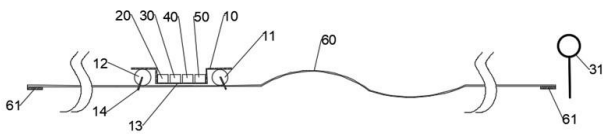


21: 2024/05417. 22: 2024/07/11. 43: 2025/01/20
 51: G01C; G01S
 71: CHINA COAL TECHNOLOGY & ENGINEERING GROUP SHANGHAI CO., LTD.

72: DAI, Jianping, QIU, Jinbo, LIU, Cong, ZHANG, Qizhi, ZHUANG, Deyu, LIU, Hongrui, FANG, Tong
 33: CN 31: 202211336593.X 32: 2022-10-28

54: INERTIAL NAVIGATION PRECISION EVALUATION SYSTEM AND EVALUATION METHOD FOR COAL MINING MACHINE, AND MOBILE CARRIER

00: -
 The present disclosure relates to a system and method for evaluating inertial navigation accuracy of a coal mining machine, and a mobile carrier. The system for evaluating inertial navigation accuracy includes: a mobile carrier, on which an inertial navigation to be tested, an RTK-GNSS mobile station and an electric control box are arranged; a fixed track, which is configured to simulate a moving trajectory of a coal mining machine, the mobile carrier being capable of reciprocating along the track between two ends of the track; an RTK-GNSS base station, which is matched with the RTK-GNSS mobile station to consist an RTK-GNSS surveying and mapping system, and which is arranged in an open scene independently of the mobile carrier and the track; and an upper computer, which is configured to receive and process first measurement data from the inertial navigation and second measurement data from the RTK-GNSS surveying and mapping system, and evaluate the accuracy of the inertial navigation. The present disclosure can test the inertial navigation repeatedly for a long time at a slow speed, and simulate the underground operation condition of the coal mining machine, making the evaluation data more accurate and reliable.



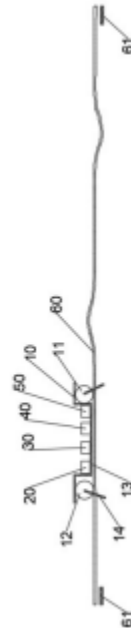
21: 2024/05418. 22: 2024/07/11. 43: 2025/01/20
 51: G01C
 71: CHINA COAL TECHNOLOGY & ENGINEERING GROUP SHANGHAI CO., LTD.

72: DAI, Jianping, QIU, Jinbo, LIU, Cong, ZHANG, Qizhi, ZHUANG, Deyu, LIU, Hongrui, FANG, Tong
 33: CN 31: 202211339102.7 32: 2022-10-28

54: SYSTEM AND METHOD FOR EVALUATING INERTIAL NAVIGATION ACCURACY OF COAL MINING MACHINE, AND MOBILE CARRIER

00: -

A system and method for evaluating inertial navigation (20) accuracy of a coal mining machine, and a mobile carrier (10). The system for evaluating inertial navigation (20) accuracy includes: a mobile carrier (10), on which an inertial navigation (20) to be tested is arranged, and a benchmark integrated navigation system (30) and an electric control box (40) for controlling start/stop and speed of the mobile carrier (10) are also arranged; a track (60), which is configured to simulate a moving trajectory of a coal mining machine, the mobile carrier (10) being capable of reciprocating along the track (60) between two ends of the track (60); and an upper computer (50), which is configured to receive and process first measurement data from the inertial navigation (20) and second measurement data from the benchmark integrated navigation system (30), generate a first moving trajectory of the mobile carrier (10) as data to be measured based on the first measurement data, generate a second moving trajectory of the mobile carrier (10) as reference data based on the second measurement data, and evaluate the accuracy of the inertial navigation (20). The present disclosure can repeatedly test and verify the inertial navigation (20) underground for a long time at a slow speed, making the evaluation data more accurate and reliable.

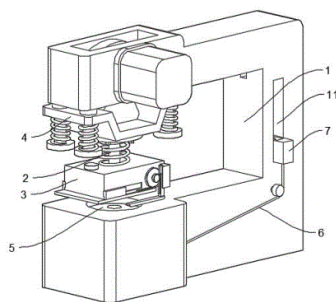


21: 2024/05429. 22: 2024/07/12. 43: 2025/01/20

51: B21D
 71: Suzhou Vocational University
 72: ZHANG, Liang, LIU, Xin, CHEN, Qi, WANG, Aixia, MAO, Xiangwen
 33: CN 31: 202410706377.2 32: 2024-06-03

54: MESH PLATE FORMING DIE

00: -
 The present invention relates to the field of punching dies, and particularly to a mesh plate forming die, including a C-shaped platform. A bearing part is provided on a lower part of the C-shaped platform, a punching knife is provided above the bearing part, and a lifting groove is arranged in the bearing part. A bearing member vertically and elastically slides in the lifting groove via a spring, a top surface of the bearing member is spherical, and a material hole aligning with the punching knife penetrates the center of a surface of the bearing member. Each of fan-shaped plates is rotatably mounted in the lifting groove via a torsion spring, and an upper part of the fan-shaped plate has an arc-shaped edge which abuts against the bearing part.



21: 2024/05431. 22: 2024/07/12. 43: 2025/01/20
 51: B65D
 71: Nagaland University

72: Dr. Ambrish Singh, Dr. Yuanhau Lin (Southwest Petroleum University), Asst Prof. Ashutosh Tripathi, Kashif Rahmani Ansari (Southwest Petroleum University), Mrs. Shivani Singh (Lovely Professional University), Prof. Ashutosh Tripathi

33: IN 31: 202431027324 32: 2024-04-02
54: IMIDAZOLE DERIVATIVE AS A NOVEL CORROSION INHIBITOR FOR Q235 STEEL AND PROCESS THEREOF

00: -
 The current work discusses the environmentally friendly process for producing N-(2-(2-pentadecyl-2,5-dihydro-1H-imidazol-1-yl)ethyl)palmitamide palmitate (IPP), an imidazole derivative that is used to protect Q235 steel from corrosion by using it as a corrosion inhibitor in strong acid (15%) HCl. An IPP

inhibitor is characterized using IR and NMR techniques. The effect of the corrosion inhibitor is inversely proportional to temperature and proportional to the concentration of the corrosion inhibitor. The results of the electrochemical analysis indicate that IPP can halt the corrosion process simply by coating the Q235 steel's surface. Combining cathode and anode types, the IPP is a corrosion inhibitor. According to the isothermal adsorption fitting results, IPP is in line with both spontaneous mixed adsorption and Langmuir isothermal adsorption. The paint is easy to use and increases the shelf life of steel.

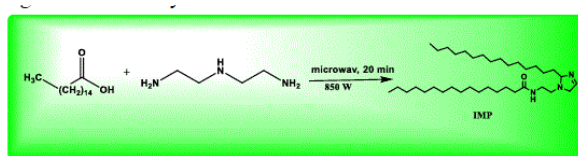


Figure 1a

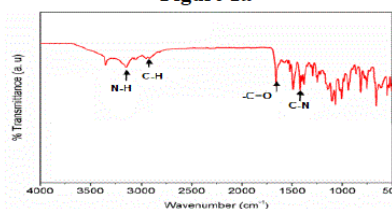


Figure 1b

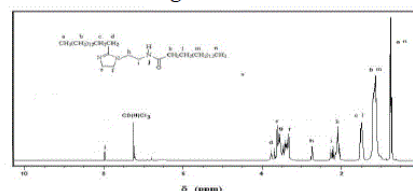


Figure 1c

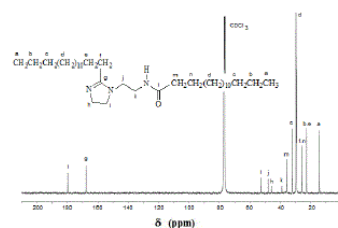


Figure 1d

21: 2024/05432. 22: 2024/07/12. 43: 2025/01/20
 51: B65D
 71: Nagaland University
 72: Dr. Ambrish Singh, Dr. Yuanhua Lin (Southwest Petroleum University), Mrs. Shivani Singh (Lovely Professional University), Kashif Rahmani Ansari

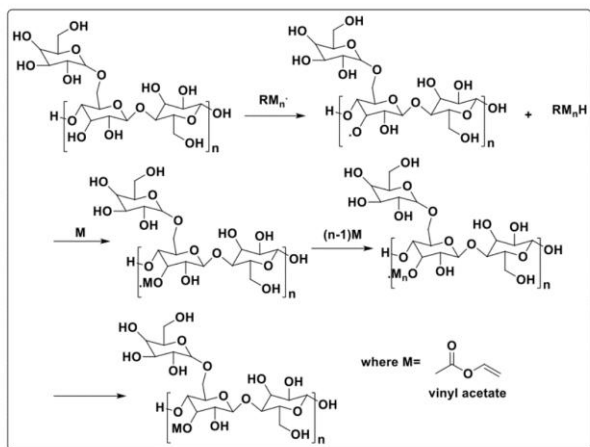
(Southwest Petroleum University), Prof. Ashutosh Tripathi, Asst Prof. Ashutosh Tripathi

33: IN 31: 202431027326 32: 2024-04-02

54: CORROSION PROTECTION OF NEGATIVE ELECTRODE OF LEAD-ACID BATTERY BY NATURAL POLYSACCHARIDE COMPOSITE

00: -

The electrochemical and hydrogen evolution data validated GG VA's potential to prevent Pb from dissolving in a lead acid battery. With an increase in feeding dose, GG VA's capacity to prevent Pb corrosion and reduce H₂ gas evolved, reaching values of 99 inhibition at 200 mg/L and 4 mL/h H₂ gas reduction at 4 mL/h. The Langmuir isotherm model guided the GG VA adsorption process. The EIS result is consistent with rising R_{ct} values and rising GG VA amount, which are indicative of GG VA adsorption. PDP data shows that adding GG VA reduces i_{corr} values and has a mixed inhibitory effect. GG VA performance decreases with rising temperatures. The evolution of H₂ gas and the rise in the energy barrier for corrosion reactions are both demonstrated by the EA data. The paint is used for coating the electrodes.



21: 2024/05433. 22: 2024/07/12. 43: 2025/01/20

51: B65D

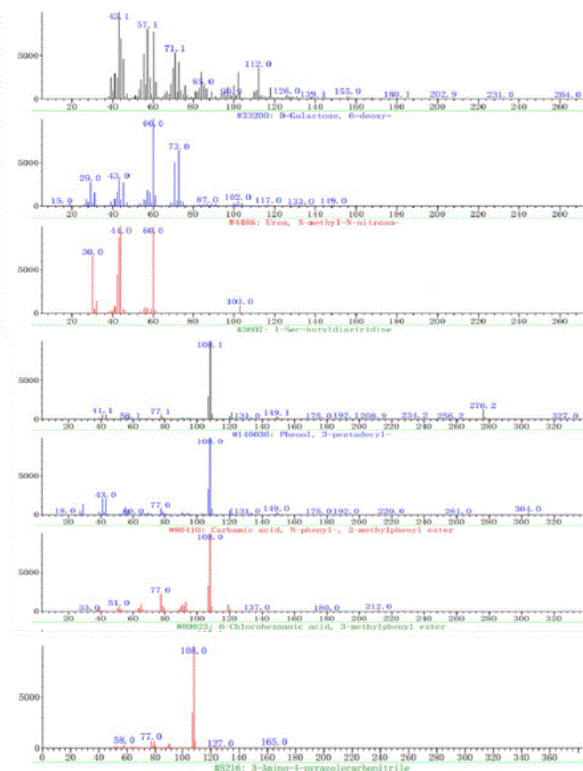
71: Nagaland University

72: Dr. Ambrish Singh, Dr. Yuanhua Lin (Southwest Petroleum University), Mrs. Shivani Singh (Lovely Professional University), Kashif Rahmani Ansari (Southwest Petroleum University), Yin Caihong (Department of Materials Engineering, Sichuan Polytechnic University), Prof. Ashutosh Tripathi, Asst. Professor Ashutosh Tripathi, Joginder Singh Panwar
33: IN 31: 202431029656 32: 2024-04-12

54: BILOBA EXTRACT AS A GREEN CORROSION INHIBITOR FOR PREVENTING STEEL BAR CORROSION IN CONCRETE PORE SOLUTION

00: -

The invention explains the use of Ginkgo Biloba fruit extract (GBFE) to create a sustainable and environmentally friendly corrosion inhibitor. In simulated concrete pore solution, the inhibitory performance of GBFE is screened (SCPS). The findings show that, at 50°C, GBFE significantly reduces the corrosion rate of B450 ribbed steel bars (RSBs) and inhibits its corrosion. Electrochemical techniques demonstrate that GBFE may control RSB cathode and anode reactions. The Langmuir adsorption isotherm controls the molecular adsorption of GBFE. Gas chromatography-mass spectrometry (GC-MS) and the Fourier Transform Infrared Spectrometer (FTIR) are used to classify the primary active components. The formation of an inhibitive layer of GBFE over the RSB surface is supported by the morphology maps of surface analysis. DFT and MC describe the adsorption of GBFE over the RSB.

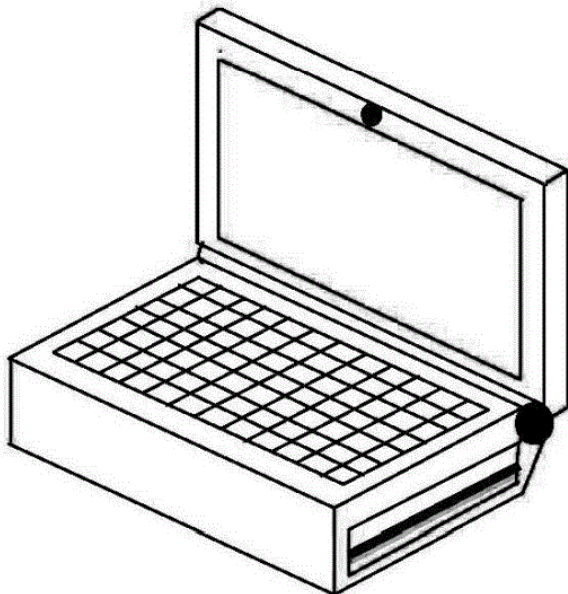


21: 2024/05435. 22: 2024/07/12. 43: 2025/01/20

51: G05B; G06F; H04N; G06N
 71: Dr. Kaippilly Raman Remesh Babu, Raji Sasidharan Pillai, Dr. Bindu Kumar Karthikeyan, Dr. Sangeetha Unnikrishnan, Indulal Sreedharan
 72: Dr. Kaippilly Raman Remesh Babu, Raji Sasidharan Pillai, Dr. Bindu Kumar Karthikeyan, Dr. Sangeetha Unnikrishnan, Indulal Sreedharan

54: MULTI-DEVICE INTERFACED SMART COMPUTING SYSTEM

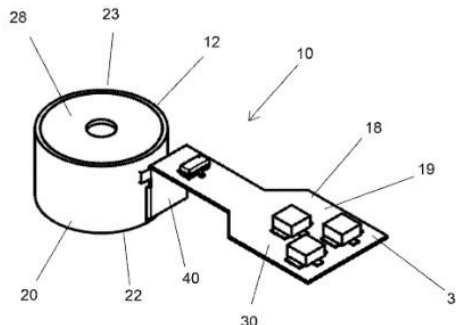
00: -
 The present invention discloses a novel multi-functional laptop computer (100) designed to elevate the mobile computing experience by incorporating advanced features such as an integrated printer (104) and integrated projector (102). The laptop comprises portable computing device housing, housing a high-end processing unit capable of executing diverse computing tasks. The integrated printer (104) mechanism embedded within the laptop enables direct production of hardcopy outputs, offering users a seamless and efficient printing solution on the go. Simultaneously, the integrated projector (102) module enhances mobile computing by projecting digital content onto external surfaces, providing a versatile and dynamic display experience. The invention introduces a comprehensive solution that combines the convenience of printing and the flexibility of projection within a single, compact laptop, redefining the capabilities of portable computing devices in the modern era.



21: 2024/05444. 22: 2024/07/12. 43: 2025/01/21
 51: B65G; G01B; G01D; G01L; G01N
 71: K F GROUP PTY LTD
 72: KAMARAS, Con
 33: AU 31: 2021904075 32: 2021-12-15

54: WEAR SENSOR

00: -
 A wear sensor (10) comprising a body (12) including at least first and second ultrasonic transducers (14) for sending and/or receiving ultrasonic signals and a connection member (18). The connection member (18) comprises a planar first end portion (30) having connectors thereon for receiving signals from and sending signals to the ultrasonic transducers (14) and a planar second end portion (32) having a plurality of tabs (34) extending outwardly from a first side (36) edge thereof connected by conductors on the connection member (18) to the connectors. The second end portion (32) is embedded within the body (12) of the wear sensor (10) adjacent the transducers (14) and the tabs (34) are bent out of the plane of the second end portion (32) of the connection member (18) for connection to the transducers (14).



21: 2024/05445. 22: 2024/07/12. 43: 2025/01/21
 51: B65G; G01B
 71: K F GROUP PTY LTD
 72: KAMARAS, Con
 33: AU 31: 2021904076 32: 2021-12-15

54: WEAR SENSOR

00: -
 A wear sensor (10) comprising a body (12) formed from a planar sheet of flexible material including a plurality of arms (14) being integrally formed with the body (12) such that the arms (12) are located coplanar with the body (12). A plurality of conductors are provided extending from the body (12) out along each of the arms (14). The arms (14) are bendable from the coplanar position to an

extended position, in which at least a portion of the arms (14) extends perpendicular to the plane of the body (12) to be received within a component such as the component wears, distal ends (34) of the arms are worn down which can be detected by passing electrical signals through the conductors.

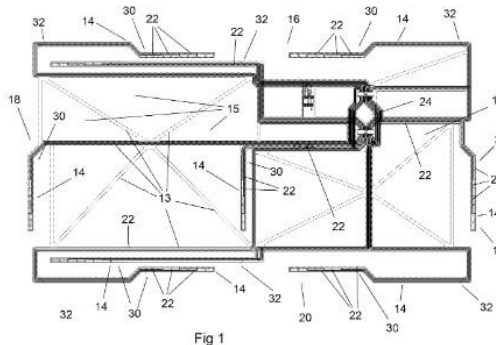
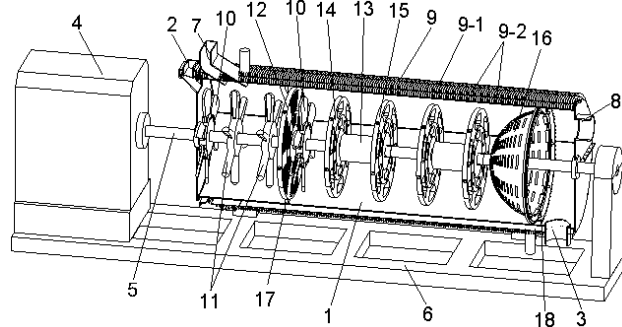


Fig 1

21: 2024/05475. 22: 2024/07/15. 43: 2025/01/21
 51: B02C
 71: TIANJIN CEMENT INDUSTRY DESIGN & RESEARCH INSTITUTE CO., LTD, China National Building Material Group CO., Ltd.
 72: Wenhai Nie, Chang Liu, Xin Du, Di Liu, Lingyun Peng
 33: CN 31: 202311192691.5 32: 2023-09-14
54: A HIGHLY SIZE ADAPTIVE STIRRING MILL
 00: -

A highly size adaptive stirring mill, which comprises a grinding cylinder. From the feed port to the discharge port of the grinding cylinder, a crushing zone and a grinding zone are arranged successively. In the crushing zone, a material guide agitator and multiple crushing agitators are arranged on the stirring shaft sequentially in feed-discharge direction. In the grinding zone, a material guide agitator, multiple grinding agitators and a separating unit are arranged sequentially on the stirring shaft in the direction in feed-discharge direction. In the crushing zone, the diameter and density of the grinding media are both greater than those in the grinding zone, and the filling ratio of the grinding media in the crushing zone is smaller than that in the grinding zone. The grinding agitators are divided into forward grinding agitators and reverse grinding agitators, which are arranged in an alternating and uniform manner to achieve rotations in different directions. Besides, the separating unit is of hollow hemispherical structure with its pitch being adjustable. The present invention can improve the adaptability of the dry stirring mill to

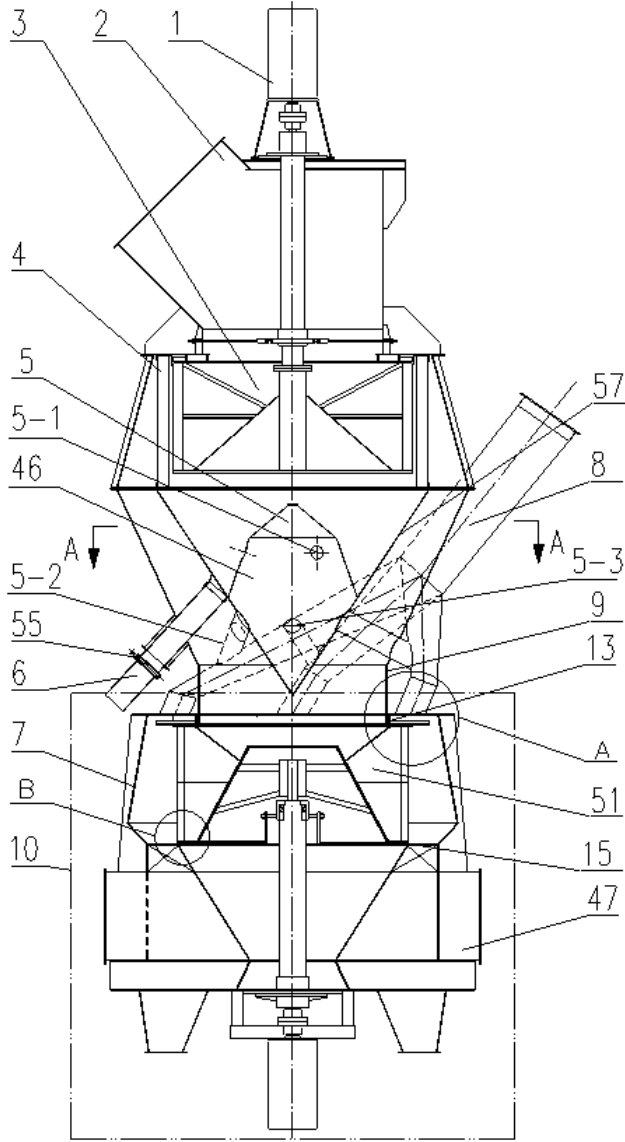
the size of raw materials, significantly enhance the grinding efficiency, and allow for flexible control of the fineness of the ground products.



21: 2024/05476. 22: 2024/07/15. 43: 2025/01/21
 51: B02C
 71: TIANJIN CEMENT INDUSTRY DESIGN & RESEARCH INSTITUTE CO., LTD, China National Building Material Group CO., Ltd.
 72: Haijian Dou, Mingzhe Li, Zhitao Liu, Weili Wang, Zhonghua Qin
 33: CN 31: 202311022734.5 32: 2023-08-14
54: A HIGH-EFFICIENCY LOW-RESISTANCE COARSE-FINE GRADIENT CLASSIFYING SEPARATOR AND ITS CLASSIFYING AND DESIGN METHOD
 00: -

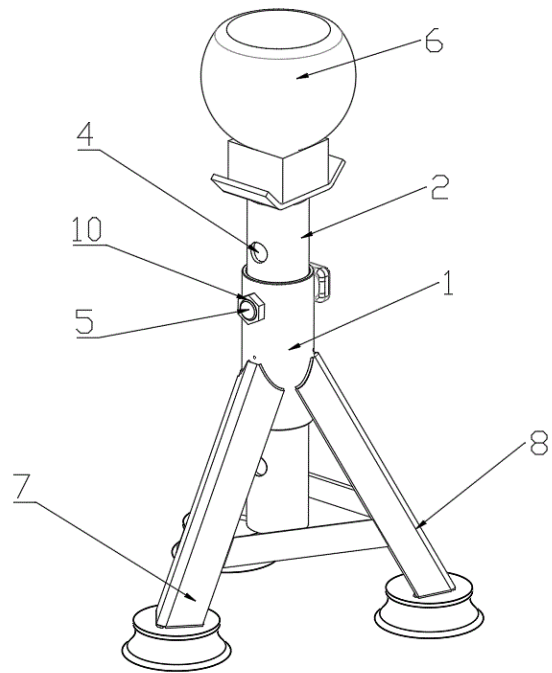
A high-efficiency low-resistance coarse-fine gradient classifying separator and its classifying and design method. It forms a sequentially connected layout from bottom to top, including the airmaterial distribution zone, pre-dispersion and coarse particle classifying zone, feeding and medium-coarse powder return zone, and medium-coarse powder and fine powder classifying zone. The air-material distribution zone is composed of an air inlet housing, an air inlet, a coarse particle outlet, an air guide cone, and an annular nozzle ring. The pre-dispersion and coarse particle classifying zone is composed of a coarse particle separation housing, a coarse particle separation rotating cage, a material distribution unit, and a coarse particle separation drive unit. The feeding and medium-coarse powder return zone and the medium-coarse powder and fine powder classifying zone are composed of a main feeding pipe, several sub feeding pipes, a medium-coarse powder return pipe, and a fine classifying unit. The present invention features a combination unit for dispersion, material distribution, and coarse-medium-fine particle separation. It achieves a

clearer gradient classifying of coarse and fine particles without the need for V-separator, resulting in lower separation resistance and longer service life of wear parts. It can solve a series of issues caused by common problems of V-separator, meeting well the material separation requirements of combined/semi-final grinding systems.



21: 2024/05477. 22: 2024/07/15. 43: 2025/01/21
 51: G01S
 71: Ningde Vocational and Technical College
 72: Jun Liu
54: POSITIONING AND DISTANCE MEASURING DEVICE FOR ENVIRONMENTAL ART DESIGN
 00: -

A positioning and distance measuring device for environmental art design comprises an external supporting pipe frame body; an adjusting pipe is provided in the center of the external supporting pipe frame body, a first limiting hole is provided on the external supporting pipe frame body, a plurality of second limiting holes are provided on the adjusting pipe, the first limiting hole on the external supporting pipe frame body and the second limiting holes on the adjusting pipe are detachably connected via a limiting component, and a positioning and distance-measuring instrument is provided at a top end of the adjusting pipe. A first supporting leg, a second supporting leg, and a third supporting leg are respectively provided on an outer circumferential surface of the adjusting pipe. The first supporting leg, the second supporting leg and the third supporting leg form a triangular supporting base. The invention supports the positioning and distance measuring device through the above structure and increases the support stability, improving the distance measurement accuracy.



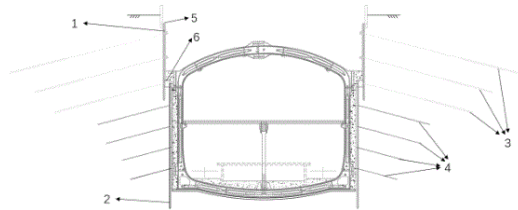
21: 2024/05478. 22: 2024/07/15. 43: 2025/01/21
 51: E21D
 71: China Construction Fifth Engineering Division Corp., Ltd., Qingdao University of Technology, Xinjiang University, China Construction Qingdao Investment and Construction Co., Ltd.

72: GONG, Zhengjun, CHEN, Xi, HE, Laisheng, LI, Yufeng, YU, Guangming, QIN, Yongjun, CHEN, Guokang, LEI, Jun, XIONG, Licai, WANG, Guangqun, WANG, Yudong, PU, Wanxu, BAI, Liyang, LU, Guohong, ZHANG, Tongzeng, ZHANG, Yanping

54: COMBINED SUPPORT SYSTEM OF PREFABRICATED SUBWAY STATION UNDER CONDITION OF REPEATED HEAVY LOAD

00: -

The assembled subway station combined support system under the condition of repeated heavy load can make the construction process safer. For the secondary steel pipe pile, and with the lengthening of the prestressed anchor cable, the small foundation pit deformation can be maintained in the hoisting stage; the combined support of the anchor cable and the anchor bolt is adopted to make the use of the anchor bolt more economical and reduce the cost. This method has wide application prospect and economic benefits, and has great significance in the construction and reconstruction of subway stations.



21: 2024/05479. 22: 2024/07/15. 43: 2025/01/21
51: E02D

71: China Construction Fifth Engineering Division Corp., Ltd., Qingdao University of Technology, Xinjiang University, China Construction Qingdao Investment and Construction Co., Ltd.

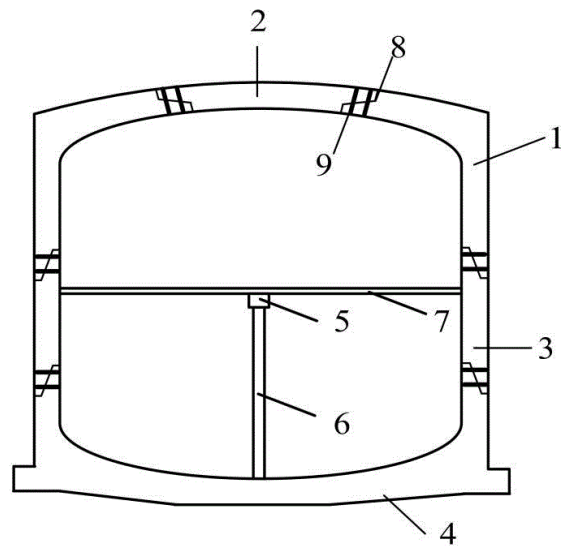
72: CHEN, Guokang, BO, Yinqiu, LI, Yufeng, QIN, Yongjun, WU, Gaoming, YU, Guangming, LIU, Chengzhi, CHEN, Xi, HE, Laisheng, YU, Dian, LI, Xiaozhong, XIONG, Licai, YIN, Hengqi, LU, Guohong, ZHANG, Tongzeng, ZHANG, Yanping, WANG, Guangqun

54: METHOD OF CONNECTING PREFABRICATED SUBWAY STATION COMPONENTS

00: -

Disclosed is a prefabricated subway station component connection method. The prefabricated subway station structure of the present invention includes a plurality of circular member segments, a

plurality of circumferential splicing member units, the edge of the member unit has a wedge joint, the length of the wedge joint extends parallel to the axis of the ring member segments, and the wedge joint of two adjacent member units; The thickness of the wedge joint gradually decreases away from the member unit. The side inclination of the wedge joint forms an occlusal slope, which has a water stop strip extending along the axis of the annular member segment, and the fasteners are connected between the wedge joints of the two adjacent member units. The water stop bar is only pressed and deformed when the two occlusal slopes are in place.



21: 2024/05480. 22: 2024/07/15. 43: 2025/01/21
51: F16M

71: Chuzhou University

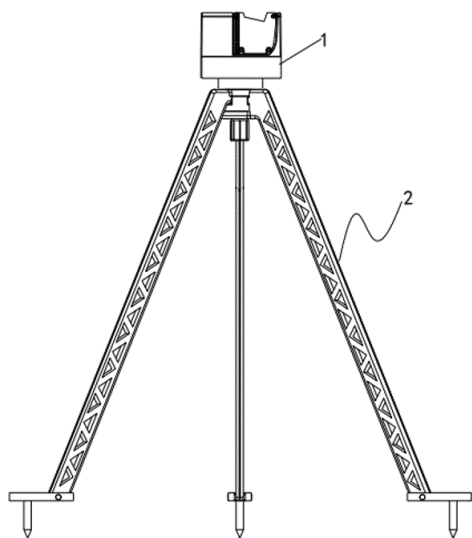
72: Deng Yuechuan, Qian Ruyou

54: A DEVICE FOR ENGINEERING SURVEYING AND MAPPING

00: -

The present invention discloses a device for engineering surveying and mapping, which relates to the technical field of engineering surveying and mapping, including a surveying and mapping instrument body. The main body of the surveying and mapping instrument is located on a support frame; the support frame includes three legs. The upper ends of the three legs are connected together by a fastening screw, and each leg is equipped with several lightening holes. The upper end of the legs is equipped with a fixing disc, the fixing disc is provided with mounting hole. The mounting hole is equipped

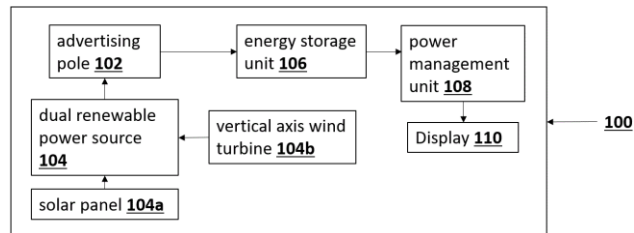
with an internal thread connected to the fastening screw thread. The lightening holes are a triangular structure and evenly distributed along the length direction of the legs. The three legs of the present invention are connected together by a fastening screw for easy disassembly and replacement. Each leg is equipped with several triangular-structured lightening holes, which can reduce the weight of the legs and maintain the strength of the legs, so that the legs are more lightweight.



21: 2024/05482. 22: 2024/07/15. 43: 2025/01/21
 51: H02G
 71: DR. CHAYAN BHATTACHARJEE, DR. PAWAN KUMAR KUSHWAHA
 72: DR. CHAYAN BHATTACHARJEE, DR. PAWAN KUMAR KUSHWAHA
54: SYSTEM FOR DESIGNING ADVERTISING POLES WITH DUAL RENEWABLE POWER SOURCE AND A METHOD THEREOF

00: -
 A system (100) and method (200) for designing advertising poles with dual renewable power source, comprises of: an advertising pole (102) integrated with a dual renewable power source (104) to generate electricity; an energy storage unit (106) embodied within the advertising pole (102) to store electrical energy generated by the dual renewable power source (104) for use during low-energy production periods; and a power management unit (108) interconnected with the energy storage unit (106) and a display (110) for regulating the flow of electricity from the renewable energy source to the

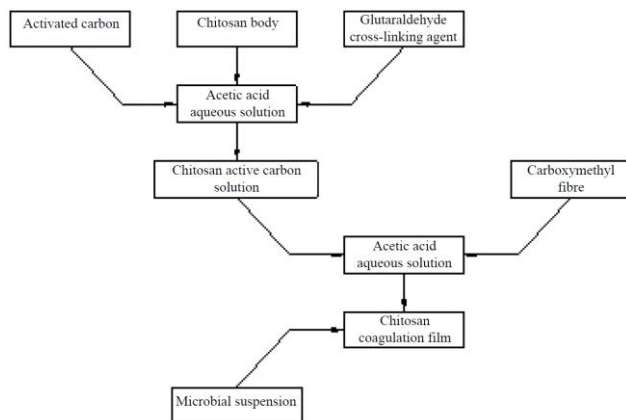
display (110) to optimize energy usage and distribution.



21: 2024/05483. 22: 2024/07/15. 43: 2025/01/21
 51: B01J
 71: Chuzhou University

72: Cheng Yuan, Lu Ziyang, Yang Miaomiao
54: CHITOSAN ADSORPTION MATERIAL AND PREPARATION METHOD THEREOF

00: -
 The present invention provides a chitosan adsorption material and a preparation method thereof, falling within the technical field of chitosan adsorption materials. The adsorption material of the present invention includes a chitosan body, activated carbon, carboxymethyl fibre and a microbial suspension. In the present invention, the activated carbon is added to increase the surface area of the adsorbent material by using high porosity of the activated carbon, to cause the adsorbent material to adsorb a large number of pollutants. at the same time, the activated carbon is combined with the reactivity of functional groups of chitosan by using adsorption capacity of the activated carbon to form a synergistic effect, thereby effectively enhancing an overall adsorption performance of the adsorbent material.



21: 2024/05485. 22: 2024/07/15. 43: 2025/02/12
 51: A61K; A61P

71: Dr. Reddys Laboratories Limited
 72: KHAN, Gayasuddin, SINGH, Sanjay Kuma,
 CHAUDHARI, Sangmesh Mallikarjun,
 CHOUDHURY, Anup Avijit, V, Hariharan
 33: IN 31: 202141060162 32: 2021-12-23

54: SOLID ORAL DOSAGE FORMS OF RABEPRAZOLE

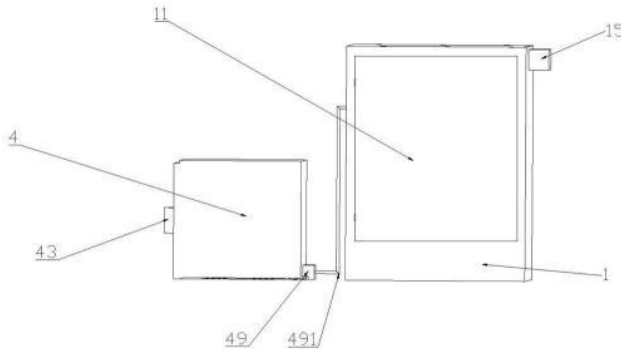
00: -
 The present invention relates to oral solid pharmaceutical dosage forms comprising proton pump inhibitor, as single active drug. The present specification specifically relates to orally disintegrating tablets that readily disintegrates in the mouth, releasing enteric coated drug pellets or units, comprising a proton pump inhibitor, Rabeprazole or a pharmaceutically acceptable salt thereof. The specification also relates to modified release oral dosage forms, which comprise of a core and a combination of a release modifying layers that together achieve beneficial release properties, suitable for once daily administration. The application also relates to processes for preparing the dosage forms as well as their use in the treatment of gastrointestinal diseases.

21: 2024/05502. 22: 2024/07/15. 43: 2025/01/21
 51: B05B

71: ANHUI BLUE FLAG ALUMINUM CO., LTD
 72: Lu Kai, Liu Lou, Song Yangyang, Du Lidong
 33: CN 31: 202210669232.0 32: 2022-06-14

54: ALUMINUM ALLOY FLUOROCARBON SPRAYING APPARATUS AND PROCESS

00: -
 The present relates to an aluminum alloy fluorocarbon spraying apparatus, the fluorocarbon coating can be prevented from coagulating by stirring in the liquid storage tank, and the coating can be sprayed easily; and uniform spraying can be implemented through the reciprocating motion of the reciprocating swinging apparatus on the first threaded rod and the reciprocating swing of the spray head; and different models of aluminum alloy can be clamped by means of the clamping apparatus, and the aluminum alloy can be accurately turned over 180 degrees by swinging cylinder for double-side spraying.

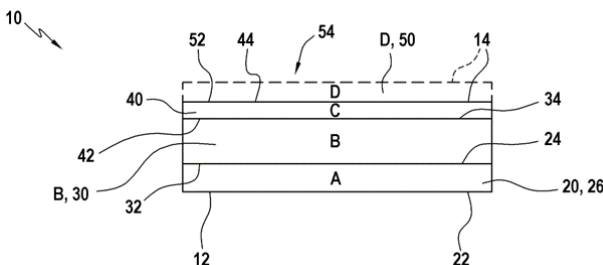


21: 2024/05504. 22: 2024/07/15. 43: 2025/01/21
 51: A41D; E04H

71: DECATHLON
 72: GONCALVES, Liza, GOURLET, Inès
 33: FR 31: 2200491 32: 2022-01-20

54: COMPLEX REDUCING THE CONDENSATION OF WATER, ARTICLE COMPRISING SUCH A COMPLEX, AND METHOD FOR PRODUCING SUCH A COMPLEX

00: -
 The present invention relates to a complex (10) reducing the condensation of water, having an inner face (12) and an outer face (14), said outer face (14) being oriented directly facing the outside atmosphere, and said complex (10) comprises, from the inner face (12) towards the outer face (14): a substrate A that is impermeable to water and permeable to water vapour (20, 26), a textile substrate B (30); and at least one metal M1, optionally in the form of an alloy, deposited directly on the textile substrate B (30) and forming a metal layer C (40). The present invention also relates to an article comprising such a complex (10), a method for producing such a complex (10) and the use of said complex (10) for producing an article limiting the condensation of water on an interior wall.



21: 2024/05505. 22: 2024/07/15. 43: 2025/01/21
 51: H05G

71: SOCIEDAD ESPAÑOLA DE ELECTROMEDICINA Y CALIDAD, S.A.

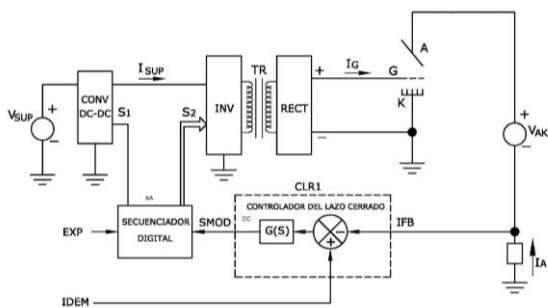
72: DÍAZ CARMENA, Ángel, MOLINA CASLA, José Luis, MIRÓN QUIRÓS, Agustín

33: ES 31: PCT/ES2022/070631 32: 2022-10-04

54: CIRCUIT FOR DIRECT CONTROL OF THE ANODE CURRENT OF AN X- RAY TUBE WITH MONOPOLAR OR BIPOLAR POWER SUPPLY BY MEANS OF THE AUTOMATIC REGULATION OF THE GRID CURRENT

00: -

A circuit that aims to control directly the anode current of a cold cathode X-ray tube by means of a feedback signal proportional to the current of the anode itself (IA) by means of the automatic regulation of the grid current (IG) of the X- ray tube, the control being carried out by means of a closed loop comprising: a closed loop control circuit (CLR1) that generates an amplified error signal (SMOD) that is the amplified difference between the signal proportional to the anode current (IA) and the demanded current of the anode (IDEM); a Digital Sequencer circuit that converts the received signal into several digital control signals; a grid current control circuit that receives the digital control signals from the Digital Sequencer circuit and comprises at least one set formed by an inverter (INV) and optionally a converter (DC-DC CONV); and a voltage and current adapter transformer (TR), the rectified output of which supplies the grid intensity (IG) necessary to obtain the demanded anode intensity (IA). It avoids having to calibrate and/or characterize the curve of the anode current (IA) versus the grid current (IG), keeping the X-ray tube in perfect condition throughout its useful life.



AA DIGITAL SEQUENCER
CC CLOSED-LOOP CONTROLLER

21: 2024/05510. 22: 2024/07/16. 43: 2025/01/22

51: B63H

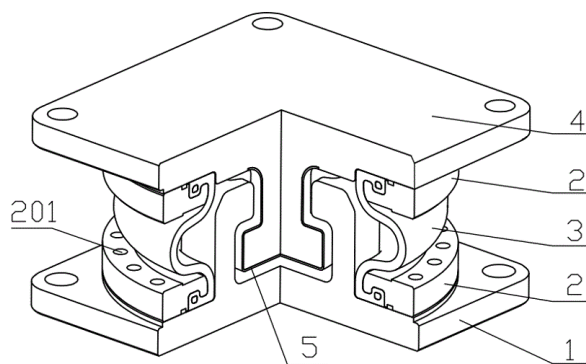
71: No. 719 Research Institute of China State Shipbuilding Corporation Limited

72: ZHANG Zhenli, WANG Qiangyong, QIANG Lei, ZHANG Limei, YANG Xuesong, GUO Hanbei, DAI Chengming, LIU Haijian, SHANG Chao, XIONG Bo, TAN Haitao, DU Saipeng, DING Ding

54: INTEGRATED AIRBAG VIBRATION ISOLATOR

00: -

An integrated airbag vibration isolator comprises: a lower mounting plate, a press ring assembly, an airbag body, an upper mounting plate, and a buffer layer. The lower mounting plate and the upper mounting plate each are integrated with a limiting structure; the upper mounting plate is, after inserted into the lower mounting plate, rotated by degrees; the press ring assembly presses and assembles, through fasteners thereof, the airbag body 3 on the lower mounting plate and the upper mounting plate; and the buffer layer is vulcanized on the spline-shaped protrusion structure at a bottom of the upper column of the upper mounting plate. The advantages of the present invention are that the integrated airbag vibration isolator can achieve a limit capability for three directions under a large load condition, a deformation of the mounting plate can be significantly reduced and a risk of air leakage can be reduced.



21: 2024/05511. 22: 2024/07/16. 43: 2025/01/22

51: F16F

71: No. 719 Research Institute of China State Shipbuilding Corporation Limited

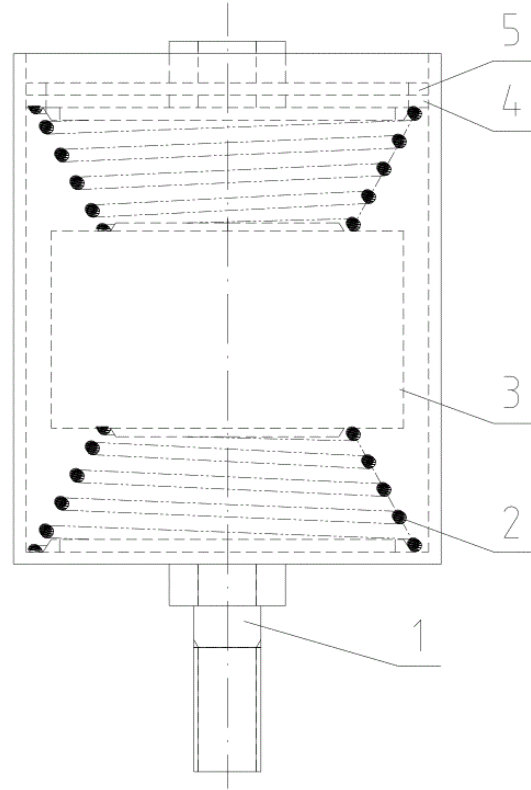
72: ZHANG Zhenli, GUO Hanbei, SHANG Chao, LIU Haijian, XIONG Bo, TAN Haitao, WANG Qiangyong, QIANG Lei, YANG Xuesong, DAI Chengming, DAI Ruijie, DU Saipeng, DING Ding

54: STEPLESS VARIABLE FREQUENCY VIBRATION ABSORBER

00: -

The present invention provides a stepless variable frequency vibration absorber, comprising: a support

cylinder, a nonlinear spring assembly, a mass block, an adjustment cover, and a locking cover. A thread on a support column of the stepless variable frequency vibration absorber is used to form a fastening connection with a target apparatus whose vibration needs to be damped, and a hexagonal nut on the support column of the stepless variable frequency vibration absorber is used to lock the stepless variable frequency vibration absorber and the apparatus whose vibration needs to be damped. The adjustment cover is connected to the support cylinder via threads, and the adjustment cover can be installed at any axial position, so that a pre-compression amount of the nonlinear spring assembly can be adjusted as required. Different pre-compression amounts correspond to different frequencies of the stepless variable frequency vibration absorber. Therefore, the stepless variable frequency vibration absorber can achieve a stepless frequency adjustment within a certain range. When a frequency of the stepless variable frequency vibration absorber needs to be adjusted, it is only necessary to rotate the adjustment cover, without needs for additional spare components or complicated disassembly and assembly processes.



21: 2024/05512. 22: 2024/07/16. 43: 2025/01/22
51: F16F

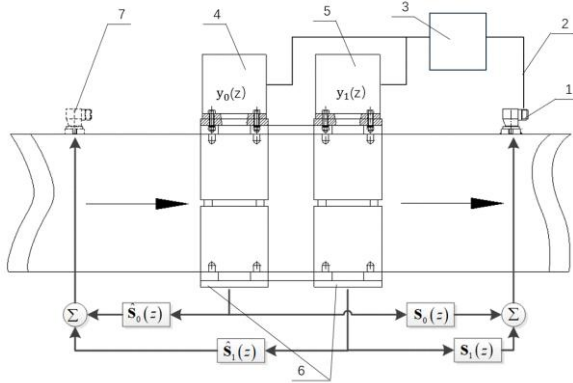
71: No. 719 Research Institute of China State Shipbuilding Corporation Limited
72: LEI Chengyou, WANG Li, ZHANG Lei, NIE Xiuyi, CUI Haijian, ZHOU Liubin, WANG Jiaxuan

54: ACTIVE VIBRATION DAMPING DEVICE FOR PIPELINE

00: -

A multi-channel active vibration damping device, in which a downstream sensor picks up a vibration signal $dp(z)$ of a target position for controlling pipeline, and transmits a collected signal to a controller via a connecting line. The controller generates a control signal $y0(z)$ and drives the secondary source group to work. On the one hand the control signal $y0(z)$ is directly output to the control source in the secondary source group, and drives the active vibration absorbing ring to active; on the other hand, the control signal $y0(z)$, after further filter operated, is output to the decoupling source in the secondary source group, and drives the active vibration absorption ring to active; the control source and the decoupling source produce vibrations transferred to an downstream pipeline and the vibrations superposed to completely offset a

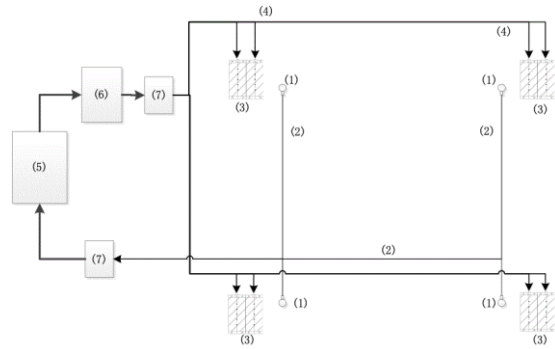
vibration of a target position. The control source produces a response function to the upstream sensor. The decoupling source produces a response function to the upstream sensor. Vibration responses generated by the control source and the decoupling source and transferred to an upstream pipeline are superposed to be completely offset with one another. Therefore, the secondary source group, when working, only produces a vibration transferred to the target position at downstream pipeline.



21: 2024/05513. 22: 2024/07/16. 43: 2025/01/22
 51: F16F
 71: No. 719 Research Institute of China State Shipbuilding Corporation Limited
 72: LEI Chengyou, LU Minyue, CAO Weiwu, WANG Li, LI Senchen, DENG Liangliang, MA Xunjun
54: MULTI-CHANNEL ACTIVE VIBRATION-REDUCING SYSTEM

00: -
 A multi-channel active vibration-reducing system includes: a sensor group, a connecting line, double secondary source groups, a connecting line, a controller, a power amplifier assembly, and a junction box. The controller further includes a decoupling filter. Each of the secondary source groups includes a control filter, a control source, and a decoupling source. The sensor group picks up a vibration signal in a control area, and the acquired signal is transmitted to the controller through the connecting line and the junction box. The controller takes the vibration signal in the control area picked up by the sensor group as a control target signal, that is, an error signal. The controller adopts an independent single-channel control algorithm, and the control filter of each of the secondary source groups is respectively updated by a single-channel

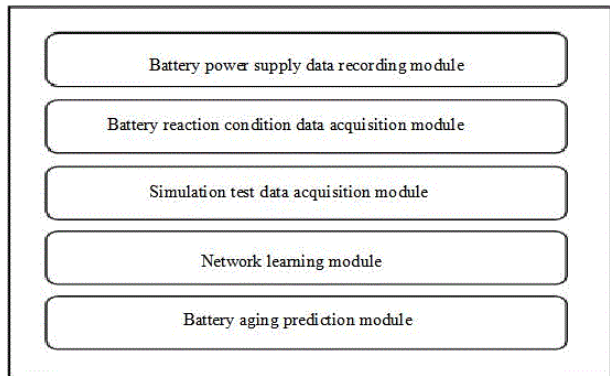
error signal to generate a control signal. On one hand, the control signal is directly output to the control source of each of the secondary source groups; and on the other hand, a decoupling signal is generated after the control signal passes through the decoupling filter in the controller, and is output to the decoupling source of each of the secondary source groups, and the control source drives the decoupling source to generate vibration to offset the vibration in the control area to realize decoupling.



21: 2024/05514. 22: 2024/07/16. 43: 2025/01/22
 51: G01R
 71: Guangzhou Civil Aviation College
 72: BAI Jiankun, LIN Xiaofeng, HE Yanbin
54: TEST SYSTEM OF SOLID HYDROGEN FUEL CELL BASED ON NETWORK LEARNING
 00: -

The invention provides a test system of solid hydrogen fuel cell based on network learning, which collects power supply data and reaction gas supply data of the solid hydrogen fuel cell in the process of external power supply, realizes the actual work monitoring of the solid hydrogen fuel cell, and simultaneously constructs a solid hydrogen fuel cell model which is the same as the solid hydrogen fuel cell, and makes the solid hydrogen fuel cell model in the same external power supply state as the solid hydrogen fuel cell. It is convenient to collect that data of the internal reaction environment of the battery, and quantitatively calibrate the internal reaction state of the solid hydrogen fuel cell. it learn and analyzes the performance of the solid hydrogen fuel cell from three aspects of external power supply, reaction gas input and internal reaction environment of the solid hydrogen fuel cell, and doe not need to carry out experimental tests on a large number of solid hydrogen fuel cells, thus reducing the workload

of battery performance testing, ensuring the matching between the test results and the solid hydrogen fuel cell itself, and improving the accuracy and reliability of the test results.

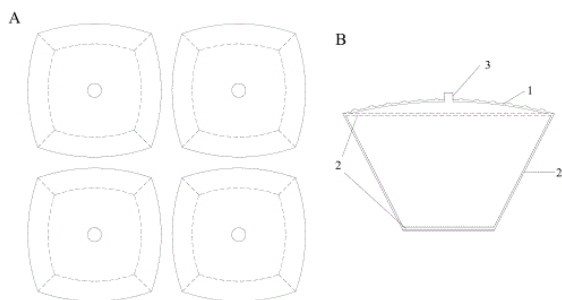


21: 2024/05515. 22: 2024/07/16. 43: 2025/01/22
 51: E02D
 71: Nanjing Tech University, The First Geological Brigade of Jiangsu Bureau of Geology
 72: Rui ZHU, Gang LIU, Wei CHANG, Feng ZHOU, Yuquan FENG, Wanli GUO, Lingkai ZHANG, Xiaoying ZHANG, Tao HUANG, Caikou WANG, Wei XING, Xin DONG, Yanwei GUO

54: METHOD FOR SLOPE REINFORCEMENT WITH GEOTEXTILES

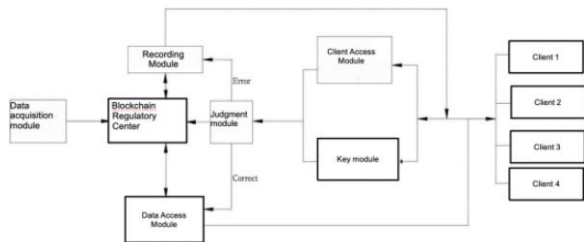
00: -
 The invention discloses a method for slope reinforcement with geotextiles for the prevention of rainfall erosion, which is composed of connected cup-shaped geotextile bag units, the cup-shaped geotextile bag units comprise a drainage group, a differential pressure grouting group and a filling group, a center of the drainage group is provided with a filling group, and a lower part of the drainage group is provided with a differential pressure grouting group. Through the drainage group, the invention realizes the transformation of precipitation from an excessive flow state to a turbulent flow state, improves the drainage rate of the top surface of the cup-shaped geotechnical bag unit, and avoids the phenomenon of rainfall siltation; through the differential pressure grouting group, the slurry filling of different parts of the slope-geotextile bag interface and the cup-shaped geotextile bag unit is effectively realized, which ensures the effective grouting and dense grouting of the geotextile bag on the slope, effectively weakens the soil and water loss of the

slope soil, and ensures the long-term stability of the slope soil under the rainfall condition.



21: 2024/05516. 22: 2024/07/16. 43: 2025/01/22
 51: H04L
 71: Ningbo University of Finance and Economics
 72: Chen Zhigang
54: A BLOCKCHAIN-BASED INDUSTRIAL DATA GOVERNANCE SYSTEM

00: -
 The invention provides an industrial data supervision system based on blockchain, involving the field of industrial data supervision technology. This blockchain-based industrial data supervision system includes a blockchain supervision center, data acquisition module, judgment module, recording module, and data access module: The blockchain supervision center is connected to the data acquisition module, judgment module, recording module, and data access module. The judgment module is connected to the recording module and data access module. When the judgment module outputs "error," it sends the output to the recording module. When the judgment module outputs "correct," it sends the output to the data access module. The system is equipped with a judgment module, blockchain supervision center, data access module, recording module, client access module, and key module. This setup allows external personnel to be promptly alerted in case of incorrect account and password inputs, enabling timely notification to other staff members about errors. This facilitates prompt repairs by staff members, thereby preventing loss of industrial data.



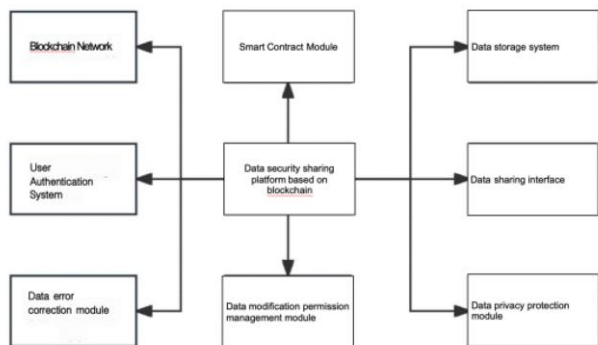
21: 2024/05517. 22: 2024/07/16. 43: 2025/01/22
51: H04L

71: Ningbo University of Finance and Economics
72: Chen Zhigang

54: A BLOCKCHAIN-BASED DATA SECURITY SHARING PLATFORM

00: -

This invention provides a blockchain-based data security sharing platform. The platform includes a blockchain network with multiple nodes, each storing a complete copy of the blockchain data. It features a smart contract module to manage data sharing rules and processes, a data storage system responsible for storing user-uploaded data, a user authentication system to verify identities and ensure only authorized users can access or share data, and a data sharing interface providing a unified access point for uploading, downloading, and sharing data. The blockchain-based platform ensures data immutability and consistency during sharing through distributed ledger technology and consensus mechanisms, automates data sharing rules and processes to reduce human intervention, enhances system efficiency, and employs encryption, fingerprint recognition, and dual-factor authentication for security.



21: 2024/05518. 22: 2024/07/16. 43: 2025/01/22
51: C08G

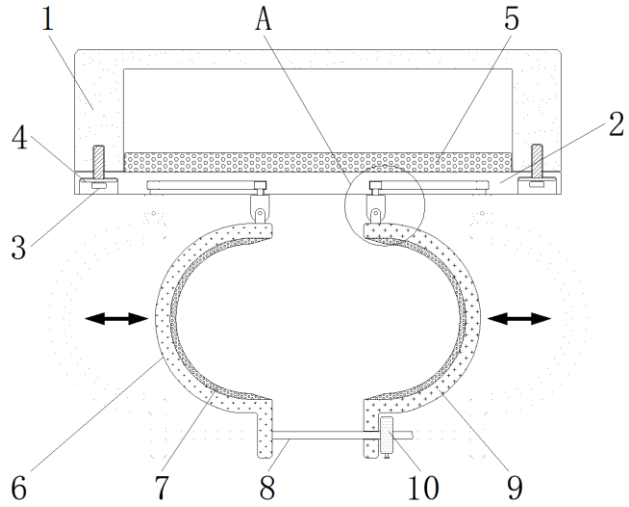
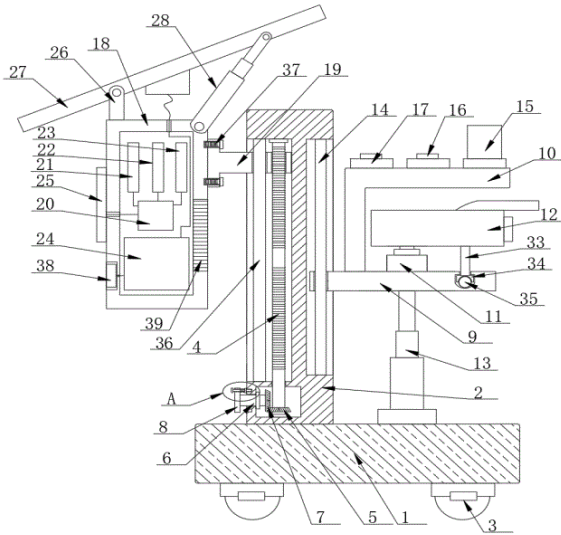
71: Institute of Agricultural Resources and Environment, Ningxia Academy of Agriculture and Forestry Sciences

72: Jianxin JIN, Linguo GUI, Jinqin HE, Yun LUO, Zhirong YIN, Jinyin LEI, Xiaoting LEI

54: AN INTELLIGENT CONTROL SYSTEM FOR WIDE INTERCROPPING OF WHEAT AND CORN

00: -

The invention belongs to the field of agricultural planting technology, which specifically relates to an intelligent control system for wide intercropping of wheat and corn. The system comprises a base, a column, a monitoring mechanism and a control mechanism. The column is fixedly connected with the top of the base, and the bottom of the base is rotationally connected with multiple omnidirectional self-locking wheels, a cavity is set at the bottom of the column, and a screw is rotationally inserted in the cavity, a first gear fixed on the screw, and a second gear meshing with the first gear is rotationally connected with the cavity through the rotating rod, one end of the rotating rod penetrates the inner wall of the cavity and is fixedly connected with a knob, one end of the knob is slidingly inserted with a clamping mechanism, and multiple card slots corresponding to the clamping mechanism are arranged around the column, the top of the screw penetrates the inner wall of the cavity and extends upward. The invention can monitor the growth of wheat and corn in a timely and effective manner through the setting of an adjustable monitoring mechanism, so as to effectively improve the economic benefit of wide intercropping of wheat and corn.

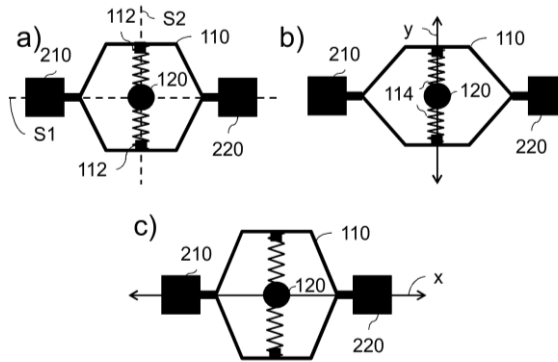
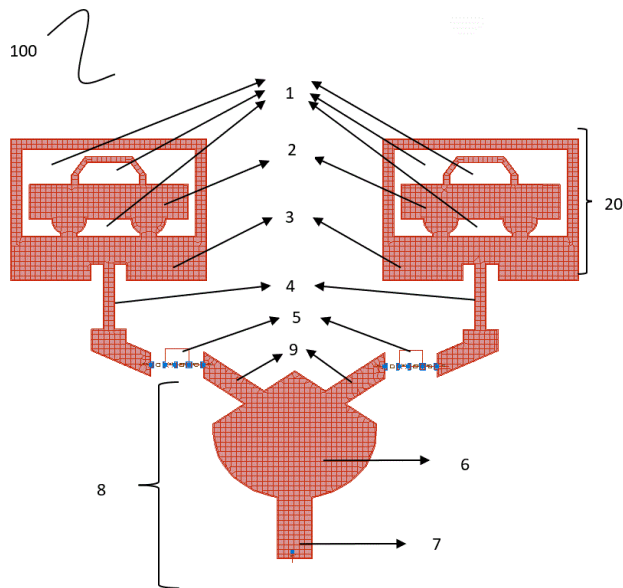


21: 2024/05523. 22: 2024/07/16. 43: 2025/01/22
 51: A61B
 71: Yan'an University Affiliated Hospital
 72: Yang Ren, Fang Lin
 33: CN 31: 202410853769.1 32: 2024-06-27
54: A PORTABLE ELECTROCARDIOGRAPHIC MONITORING DEVICE FOR THE GERIATRIC CARDIOLOGY DEPARTMENT

00: -
 The invention discloses a portable electrocardiographic monitoring device for the geriatric cardiology department, comprising an electrocardiographic monitoring device body, a display screen, an electrode sheet shell, etc. The monitoring equipment is conducive to carrying, can avoid causing the equipment too large and heavy causes of load, can be stable connection installation according to needs, can avoid long-term use of damage can not be dismantled and repaired problems, and has a good practical effect.

21: 2024/05526. 22: 2024/07/16. 43: 2025/01/22
 51: H01L
 71: Dr.M.A. BHAGYAVENI
 72: Dr.M.A. BHAGYAVENI, Dr.T. RAMESH BABU, RATHNA.R
 33: IN 31: 202341053198 A 32: 2023-08-08
54: A HYBRID PATCH-SLOT ANTENNA WITH CONICAL SEMICIRCULAR POWER DIVIDER AND PIN DIODE

00: -
 The present invention relates to an antenna capable of vehicle-to-everything (V2X) communication comprising a plurality of slots inside a pair of car shaped patches placed on a Flame Retardant 4 (FR-4) substrate, where the car shaped patches are fed by an inset feed structures to enhance gain and radiation efficiency, a power divider with conical semi-circular in shape, where the power divider is preceded by feed structures and splits the input of the antenna into two by means of splitters and supplies power evenly to the patches and a pair of PIN diodes attached in between feed structures and splitters that can be switched ON or OFF state. The antenna functions in dual band and triband frequencies by eliminating the usage of multiple antenna and the antenna is appropriate for both narrowband and wideband communication.

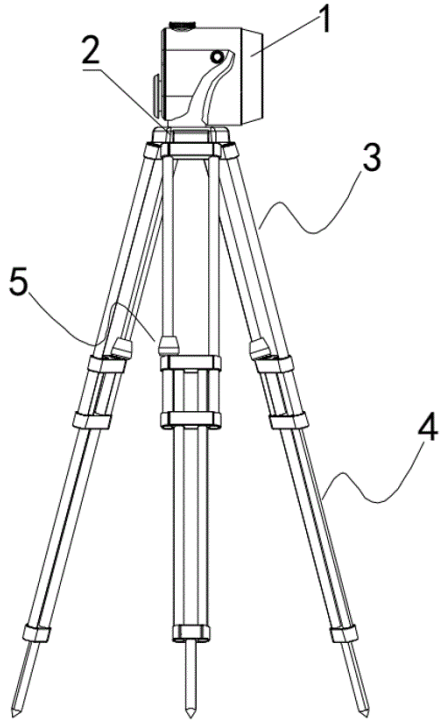


21: 2024/05529. 22: 2024/07/16. 43: 2025/01/22
 51: B81B
 71: NORTHROP GRUMMAN LITEF GMBH
 72: RENDE, Jan Daniel
 33: DE 31: 10 2021 134 351.8 32: 2021-12-22
54: COUPLING DEVICE FOR COUPLING VIBRATION SYSTEMS

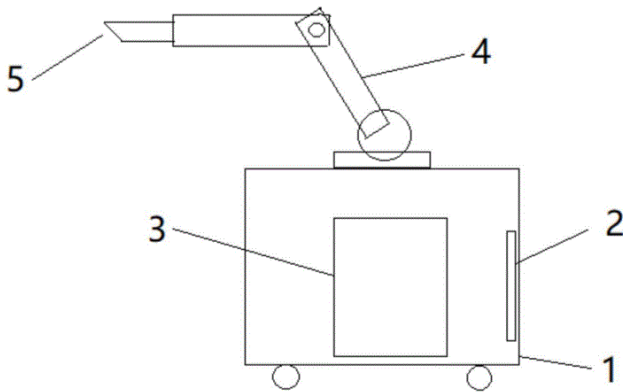
00: -
 A coupling device (100) for coupling two vibration systems (210, 220), which are mounted over a substrate such that the vibration systems are linearly arranged along a first direction (x) and can vibrate along the first direction (x), has a closed spring structure (110), which can be connected to the vibration systems (210, 220) at outer faces lying opposite each other along the first direction (x), and an anchor structure (120), which is rigidly connected to the substrate and which is arranged within the closed spring structure (110) and is connected to the spring structure (110) at two inner faces lying opposite each other along a second direction (y) that is orthogonal to the first direction. In this manner, the coupling device (100) connected to the vibration systems (210, 220) imparts a differential-mode coupling to the vibration systems (210, 220) as the mode with the lowest frequency.

21: 2024/05543. 22: 2024/07/17. 43: 2025/01/22
 51: F16M
 71: Chuzhou University
 72: Qian Ruyou, Deng Yuechuan
54: AN ENGINEERING SURVEYING AND MAPPING DEVICE

00: -
 The invention discloses an engineering surveying and mapping device, which relates to the technical field of engineering surveying and mapping, including the body of a surveying and mapping instrument. The body of the surveying and mapping instrument is installed on a support plate, and there are several upper supports hinged with the support plate through a pin along the side of the support plate, and each upper support is connected with a lower support through a limiting component. For the present invention, the tube sleeve on the fixed sleeve is loosened, the shrapnel is clamped and then the connecting rod I can be released. The position of the lower support on the connecting rod I of the upper support is moved and then the tube sleeve on the fixing sleeve is screwed, the connecting rod I is clamped by clamping the shrapnel, so the support height of the body of the surveying and mapping instrument can be adjusted and the whole process of adjustment is convenient.

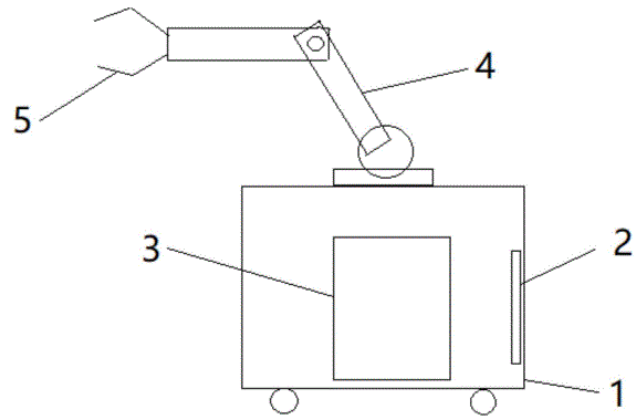


21: 2024/05545. 22: 2024/07/17. 43: 2025/01/22
 51: B21D
 71: Beijing Institute of Technology
 72: Changhua Hu
 33: CN 31: 2023112394516 32: 2023-09-25
54: A MOBILE MANIPULATOR FOR MACHINING
 00: -
 A mobile manipulator for machining is proposed, which generates the movement of a vehicle body and the action of a manipulator through a computer motion control. The device is easy to operate and automatic, and is suitable for machining applications in various production processes.



21: 2024/05546. 22: 2024/07/17. 43: 2025/01/22
 51: A01G

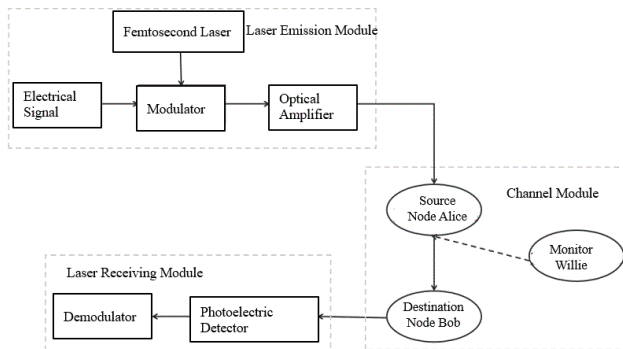
71: Beijing Institute of Technology
 72: Changhua Hu
 33: CN 31: 202311240072.9 32: 2023-09-25
54: A MOBILE ASSEMBLY MANIPULATOR
 00: -
 A mobile manipulator for machining is proposed, which generates the movement of a vehicle body and the action of a manipulator through a computer motion control. The device is easy to operate and automatic, and is suitable for assembly applications in various production processes.



21: 2024/05547. 22: 2024/07/17. 43: 2025/01/22
 51: H04B
 71: SOUTHWEST UNIVERSITY
 72: GAO Ziye, XIONG Tao, BIAN Jiayi, DENG Tao, XIA Guangqiong, WU Zhengmao, LIN Xiaodong, TANG Xi, WANG Fei, XIE Yingke
 33: CN 31: 2024211388931 32: 2024-05-23
54: COVERT COMMUNICATION SYSTEM BASED ON FEMTOSECOND LASER
 00: -

The present application provides a covert communication system based on femtosecond laser, including: a laser emission module for encoding an original signal into a pulse position modulation (PPM) signal, and carrying and emitting a femtosecond laser into an atmospheric channel; a channel module for transmitting an optical signal and constructing a covert communication model; and a laser receiving module for channel decoding after signal detection and converting an optical signal into an electrical signal. The present application uses PPM modulation to carry and emit the modulated signal into the atmosphere channel by a femtosecond laser, which breaks through the disadvantages of high energy consumption of continuous laser, complicated modulation and

demodulation process, and insufficient photoelectric detection value at the receiving end in traditional laser communication technology. It also uses a three-node model to establish a covert communication model, and finally converts the photoelectric signal at the receiving end into the original signal.



21: 2024/05548. 22: 2024/07/17. 43: 2025/01/22

51: A01G

71: Soil and Fertilizer And Resources and Environment Institute, Jiangxi Academy of Agricultural Science

72: QIU, Caifei, CHEN, Jin, SHAO, Caihong, CHEN, Xia, QIU, Xiaoying, PENG, Huohui, FENG, Chao

54: FORMULATION OF SEEDLING SUBSTRATE FOR MELASTOMA DODECANDRUM CUTTINGS AND PREPARATION METHOD THEREOF

00: -

The present invention falls within the technical field of preparing a novel plant seedling substrate, and discloses a formulation of a seedling substrate for *Melastoma dodecandrum* cuttings and a preparation method thereof. The substrate includes 50 to 62 parts of edible oil-decolourized spent bleaching clay, 10 to 20 parts of river sand, 5 to 10 parts of vinasse, 5 to 10 parts of rice husk ash, 0.5 to 1 part of lime powder, 0.5 to 1 part of amino acid powder, 0.003 to 0.007 parts of riboflavin, 5 to 8 parts of broken *Hericium erinaceus*, and 7 to 9 parts of pine bark. The seedling substrate for *Melastoma dodecandrum* cuttings of the present invention has the characteristics of safety, hygiene, low consumption, and high efficiency. The application of the seedling substrate in breeding *Melastoma dodecandrum* can make the germination rate of *Melastoma dodecandrum* seeds reach more than 52 percent.

21: 2024/05549. 22: 2024/07/17. 43: 2025/01/22

51: A01G

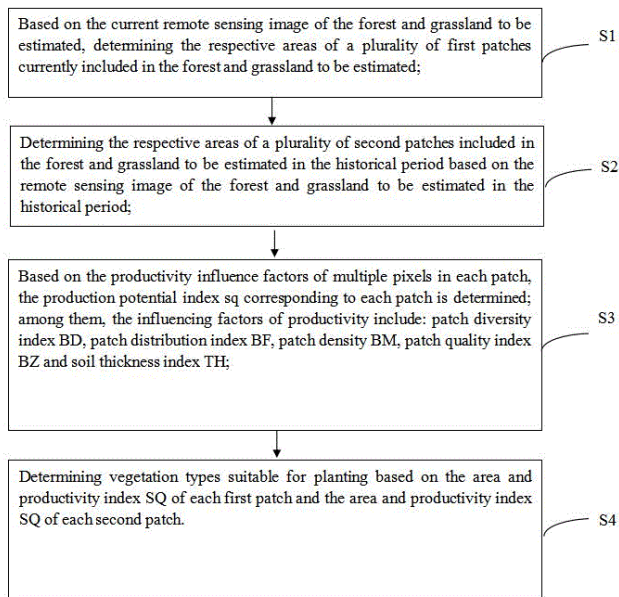
71: Shanxi Academy of Forestry and Grassland Sciences

72: ZHAO Juan, ZHENG Zhili, HAN Xiaolin, GUO Cuiping, MA Jialin, LI Meiliang, CHEN Chun, GUO Bin, CHANG Maolin, GAO Long

54: METHOD FOR EVALUATING PRODUCTION POTENTIAL OF VEGETATION

00: -

The invention discloses a method for evaluating production potential of vegetation, which comprises the following steps: calculating the production potential index SQ by measuring the patch diversity index BD, the patch distribution index BF, the patch density BM, the patch quality index BZ and the soil thickness index TH of forest and grassland, selecting vegetation types suitable for planting according to the production potential index SQ, and scientifically and reasonably planning the seedling types and planting types, so as to greatly improve the survival rate and preservation rate of afforestation.



21: 2024/05550. 22: 2024/07/17. 43: 2025/01/22

51: G08G

71: Wenzhou Polytechnic

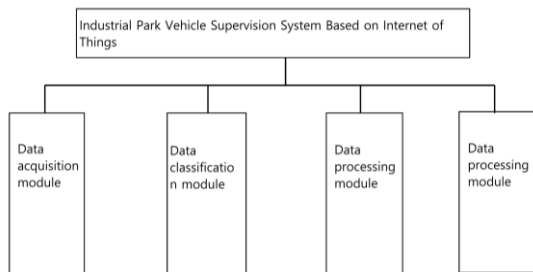
72: Wu Shuying

54: A VEHICLE SUPERVISION SYSTEM FOR INDUSTRIAL PARKS BASED ON THE INTERNET OF THINGS

00: -

The present invention discloses an industrial park vehicle supervision system based on the Internet of Things, effectively providing an efficient, intelligent,

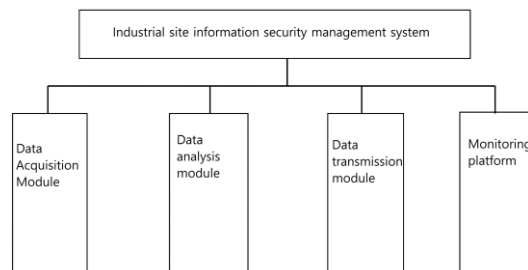
and secure industrial park vehicle management system. The present invention provides an industrial park vehicle supervision system based on the Internet of Things, comprising: an access management unit for recording the entry and exit of vehicles, and displaying the positions of parking spaces that can be parked based on a display, while recording the flow of vehicles entering the industrial park; Vehicle tracking unit, used for real-time monitoring of vehicles to obtain their driving route and speed in real time; Vehicle management unit, used to record the parking spaces of vehicles and mark them as non parking spaces; Vehicle payment unit is used to calculate the parking time of vehicles, generate payment information, and thus form an efficient and safe vehicle supervision method.



21: 2024/05551. 22: 2024/07/17. 43: 2025/01/22
 51: G06F
 71: Wenzhou Polytechnic
 72: Wu Shuying
54: AN INDUSTRIAL SITE INFORMATION SECURITY MANAGEMENT SYSTEM
 00: -

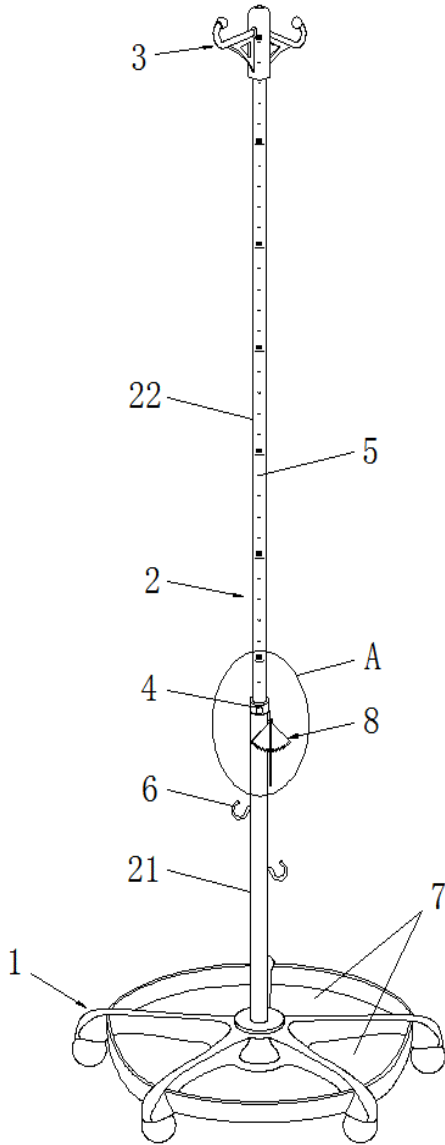
The present invention discloses an industrial site information security management system, which effectively solves the problem of information security being affected by the humidity of sensors in industrial sites. The system provided by the present invention includes a data acquisition module, a data analysis module, a data transmission module, and a monitoring platform; The data acquisition module is used to collect the first humidity data of the industrial site based on sensors; The data analysis module is used to determine whether the first humidity data exceeds a preset threshold, and when the preset threshold is exceeded, collect the second humidity data corresponding to the sensor inside the first humidity data, and output alarm data to the data transmission module based on the second humidity

data; The data transmission module is used to transmit the received alarm data to the monitoring platform; The monitoring platform is used to generate alarms based on alarm data and replace the sensor corresponding to the second humidity data based on the alarm data.



21: 2024/05553. 22: 2024/07/17. 43: 2025/01/22
 51: A61M
 71: Chongqing University Cancer Hospital
 72: Deng Yuhong, Liu Tingting, Lv Jing, Wang Xia
 33: CN 31: 202420841631.5 32: 2024-04-23
54: MULTIFUNCTIONAL INFUSION SUPPORT
 00: -

The present invention provides a multifunctional infusion support, including a movable chassis, telescopic supporting rods and hooks I. The supporting rods include a lower supporting pipe and an upper supporting pipe; a height of a top end of the lower supporting pipe is consistent with a height of a bed, a length of the upper supporting pipe is greater than 2.5 m, and scale lines are arranged at the upper supporting pipe from top to bottom. In the present invention, a height of the upper supporting pipe is adjusted, and a height value is read from the scale lines, thereby accurately obtaining the height of the infusion bag or infusion bottle suspended at the top end from the human body infusion site lying flat on the bed, accurately meeting height requirements of the infusion bag or infusion bottle suspended at the top end from the human body infusion site lying flat on the bed when the transfusion speed of platelets and stem cells needs to be quick, and accurately adjusting a distance between an enema bag and an anus of a patient when enema.



21: 2024/05584. 22: 2024/07/18. 43: 2025/01/23
 51: E04H
 71: Frederick Andre DU PREEZ
 72: Frederick Andre DU PREEZ
 33: ZA 31: 2023/08097 32: 2023-08-22

54: FOLDABLE TANK

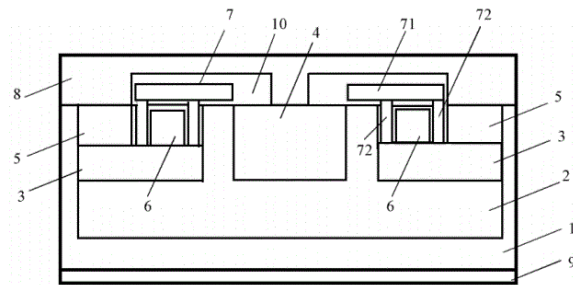
00: -
 The invention discloses a foldable tank having a self-standing sidewall, which includes a self-supporting container adapted to hold water having a cylindrical inner side wall having a first upper circular edge and a first lower circular edge, the cylindrical inner side wall being formed of a first inner layer comprising of waterproof vinyl; a disc bottom water-tightly bonded to said first lower circular edge of said cylindrical waterproof vinyl side wall, said disc bottom being

formed of a waterproof sheet made from non-reinforced vinyl; a cylindrical middle side wall made of a semi-rigid material for structure; and a cylindrical outer side wall of reinforced vinyl. The cylindrical outer side wall has a second upper circular edge, and the first upper circular edge of the cylindrical inner side wall is folded over and/or joined to the second upper circular edge of the cylindrical outer side wall.

21: 2024/05585. 22: 2024/07/18. 43: 2025/01/22
 51: H01L
 71: Zhejiang Xinke Semiconductor Co., Ltd.
 72: LI, Jingbo, WANG, Xiaozhou, ZHAO, Yan, QI, Hongji, CAO, Mingjie

54: TRI-GATE GA2O3 TRANSVERSE MOSFET POWER DEVICE AND PREPARATION METHOD THEREOF

00: -
 The present invention discloses a tri-gate Ga2O3 transverse MOSFET power device and a preparation method thereof. A substrate groove is formed in the Ga2O3 substrate, and a Ga2O3 epitaxial layer is arranged in the substrate groove; two P-type trap regions and a P-type control region are arranged on the upper surface of the Ga2O3 epitaxial layer, the P-type control region is arranged between the two P-type trap regions, and n+-type source regions and channel regions are spaced apart on the upper surface of the P-type trap regions; each gate includes a top gate and two side gates, the two side gates are arranged at both sides of each of the channel regions respectively, the top gate is arranged above the channel region, and both ends of the top gate come into contact with the two side gates respectively. The present invention has better thermal stability.

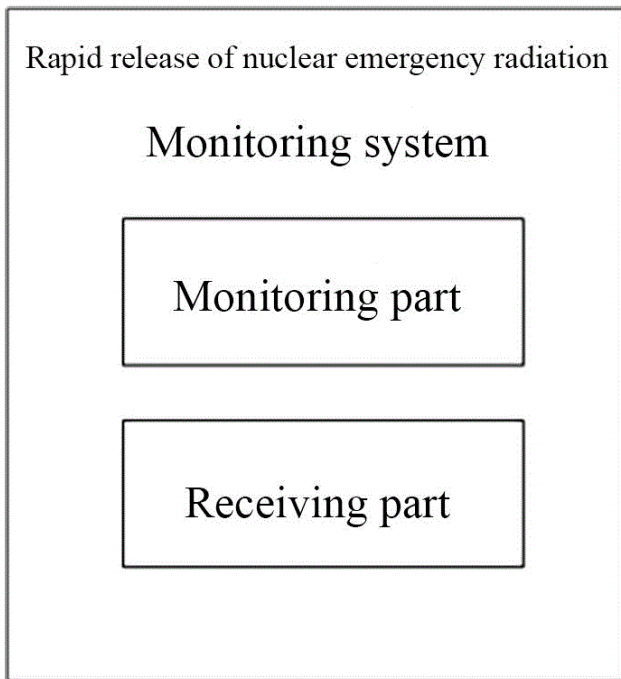


21: 2024/05586. 22: 2024/07/18. 43: 2025/01/22
 51: G01T

71: Jiangsu Ocean University
 72: Jianhua Xue, Pengtao Cao

54: A RAPID DELIVERY NUCLEAR EMERGENCY RADIATION MONITORING SYSTEM AND A METHOD THEREOF

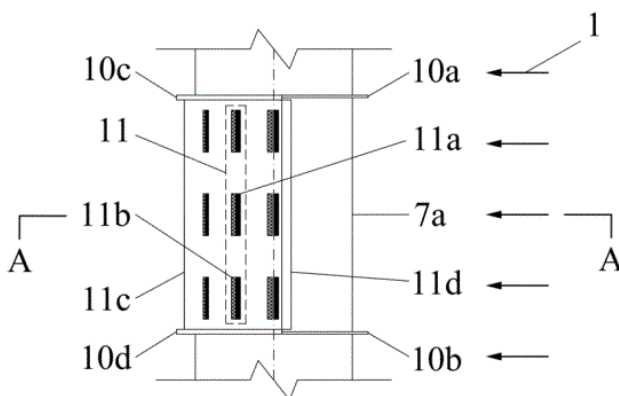
00: -
 The invention relates to the technical field of nuclear radiation detection, and discloses a rapid delivery nuclear emergency radiation monitoring system and a method thereof. The system consists of a monitoring part and a receiving part. The receiving part is used to receive the alarm information sent by the monitoring part. The monitoring part is set in the preset monitoring area and is used to detect the radiation intensity of the preset monitoring area. The monitoring part includes: Radiation detection module, environmental detection module, analysis module and transmission module. The invention improves the ability of accurate monitoring and timely warning of the nuclear radiation intensity in the preset monitoring area through the cooperative work of the monitoring part and the receiving part and the modification of environmental parameters.



21: 2024/05588. 22: 2024/07/18. 43: 2025/01/28
 51: F03D
 71: CHANGSHA UNIVERSITY
 72: Zhang Xuwen, Shen Lian, Zhou Shuai, Wang Hanfeng, Lei Xu, Luo Haiyin, Pan Xiaowang, Li Jia

54: SMART CONTROL SYSTEM FOR VORTEX-INDUCED VIBRATION OF WIND TURBINE TOWERS BASED ON INTERMITTENT PLASMA ACTUATORS

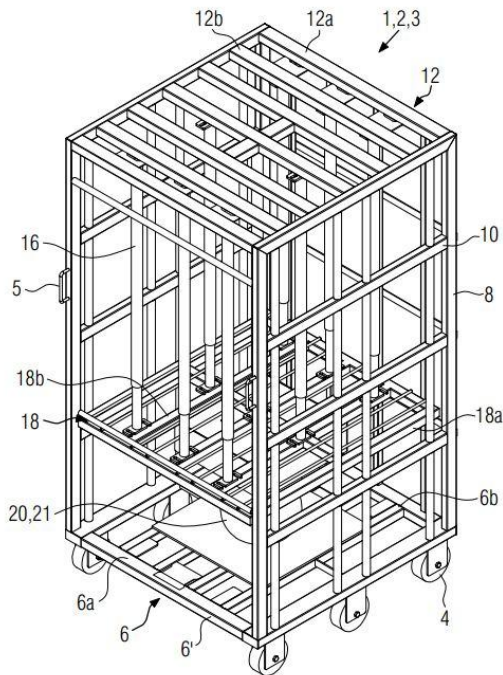
00: -
 The present invention discloses a smart control system for vortex-induced vibration of wind turbine towers based on intermittent plasma actuators. The system includes a wind speed and direction anemometer, a smart controller, a plasma power supply, a rotary device and intermittent plasma actuators. When external oncoming flow excites the wind turbine towers to produce vortex-induced vibration, the wind speed and direction anemometer transmits the measured wind speed and direction information to the smart controller. The smart controller firstly activates the drive motor of the rotary device to rotate the intermittent plasma actuators to the leeward side of the tower based on the wind direction information, and then adjusts the plasma power supply to provide high-frequency and high-voltage alternating current voltages to the intermittent plasma actuators based on the wind speed information. The wall jet induced by the actuators distorts and disrupts the structure of Kármán vortex streets and reduces the vortex shedding frequency in the tower wake, thereby suppressing the vibration amplitude of the tower. The system has the advantages of fast response time, relatively light weight, simple structure and lower cost.



21: 2024/05589. 22: 2024/07/18. 43: 2025/01/22
 51: A22C; A23P; B30B
 71: EBERHARDT GMBH
 72: EBERHARDT, Rainer, EBERHARDT, Ralf
 33: EP 31: 23189751.3 32: 2023-08-04

54: DEVICE OR METHOD FOR PRODUCING A FOOD PRODUCT FROM A PORTION OF FOOD

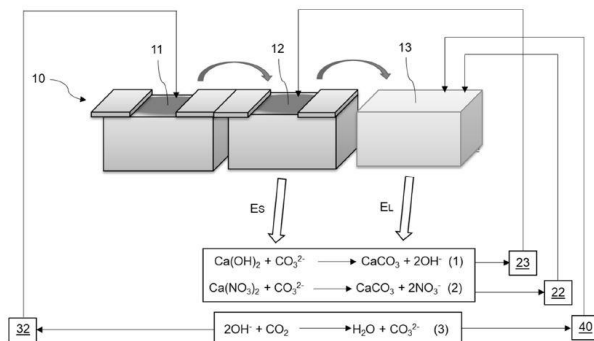
00: -
 The invention relates to a device (1) or a method for producing a food product from a portion of food. The device (1) comprises a housing (2) which is open on at least one side for receiving a plurality of separate mold containers (30) which are arranged directly on top of one another in at least one stack (32) and can each be filled with a portion of food. The device (1) furthermore comprises at least one drive (20) arranged in a bottom region (6) of the housing (2) for driving a pressure die (18) which is mounted in the housing (2) so as to be slidable in the direction of the stack (32) for exerting a pressing force (FP) upon the stack (32) and a telescopic guide rail (16) arranged between a cover (12) of the housing (2) and the pressure die (18) for guiding the pressure die (18) in the housing (2).



21: 2024/05605. 22: 2024/07/18. 43: 2025/01/22
 51: C02F; C23C
 71: HYDROMECHANIQUE ET FROTTEMENT
 72: GARCIA, Frédéric, HEAU, Christophe
 33: FR 31: 2200858 32: 2022-01-31
54: METHOD FOR TREATING WASTE WATERS AND RESIDUE SLUDGE BY MEANS OF CARBONATION AND DECARBONATION IN A

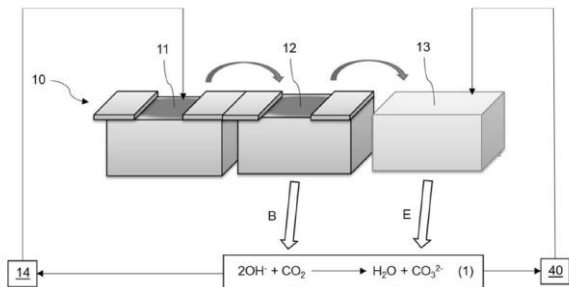
CHEMICAL INSTALLATION FOR NITRIDATION IN A MOLTEN SALT BATH

00: -
 The present invention relates to a method for treating waste waters (E_L), and/or residue sludge (E_s) from an oxidation bath, in an installation (10) for nitridation in a molten salt bath, comprising a nitridation bath (11), an oxidation bath (12), and a stop bath (13). The treatment method comprises a method A of decarbonation for recovering oxidation salts, and a method B of carbonation for recovering carbonate salts.



21: 2024/05606. 22: 2024/07/18. 43: 2025/01/22
 51: C02F; C23C
 71: HYDROMECHANIQUE ET FROTTEMENT
 72: GARCIA, Frédéric, HEAU, Christophe
 33: FR 31: 2200855 32: 2022-01-31
54: METHOD FOR TREATING WASTE WATERS AND RESIDUE SLUDGE BY MEANS OF CARBONATION IN A CHEMICAL INSTALLATION FOR NITRIDATION IN A MOLTEN SALT BATH

00: -
 The present invention relates to a method for treating waste waters (E), and/or residue sludge (B) from an oxidation bath, to recover oxidation salts, in an installation (10) for nitridation in a molten salt bath, comprising a nitridation bath (11), an oxidation bath (12), and a stop bath (13). The method comprises a transformation of hydroxide ions OH⁻ of waste waters (E) and/or residue sludge (B) into carbonate ions CO₃²⁻, and a separation of water and carbonate salts, to recover carbonate salts.



21: 2024/05609. 22: 2024/07/19. 43: 2025/01/23
 51: A61C
 71: Anhui University of Chinese Medicine
 72: PENG, Sijing, GE, Jiejie, YUAN, Juan, WANG, Xiao, WANG, Xiang, CONG, Jin, LI, Chunyan
 33: CN 31: 202410180771.7 32: 2024-02-18
54: ORAL CAVITY CLEANING DEVICE FOR ELDERLY CARE

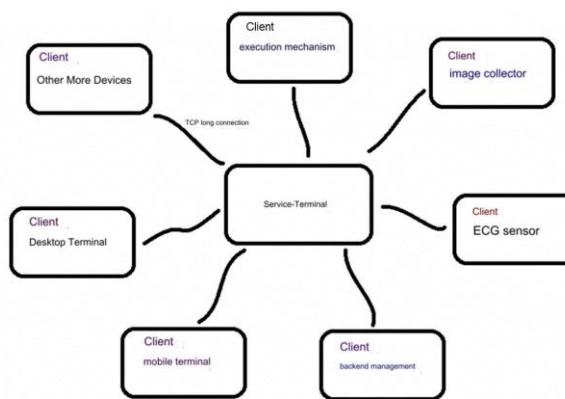
00: -
 Disclosed in the present invention is an oral cavity cleaning device for elderly care, which relates to the technical field of oral cavity cleaning. The device includes a rod body, one side of the rod body is in threaded connection to an annular cylinder, and an outer wall of the annular cylinder is provided with a plurality of groups of dredging holes. The portion, positioned outside the dredging holes, of the outer wall of the annular cylinder is fixedly connected to a plum blossom type block, and the plum blossom type block is made of sponge. An outer wall of the plum blossom type blocks is fixedly connected to a plurality of groups of blocking blocks, and storage grooves are formed between the plurality of groups of the blocking blocks and the plum blossom type block.



21: 2024/05611. 22: 2024/07/19. 43: 2025/01/23
 51: H04L
 71: Hainan Medical University
 72: Qinghui Sun, Wu Wang, Li Yin, Hao Xiu, Yufei Lu, Yuan Wang, Xuesong Liu
 33: CN 31: 202410483343.1 32: 2024-04-22
54: A ONE-TO-MANY COMMUNICATION SERVICE SYSTEM AND METHOD BASED ON TCP PROTOCOL

00: -

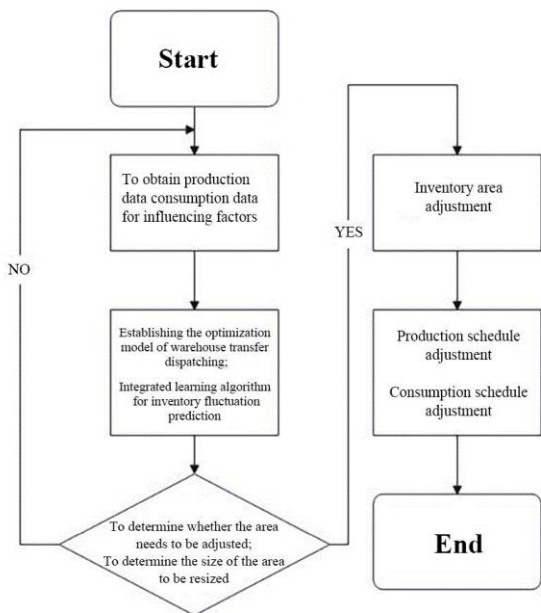
The present invention relates to a one-to-many communication service system and method based on TCP protocol, including a client and a server, wherein the client establishes a long TCP connection with the server, and the server is used to establish a message list and cache all data sent by the client; at the same time, the received data is actively pushed to all connected clients; and the server cleans up and recycles the messages that have been pushed by all clients. The present invention realizes compatible access of multiple devices based on TCP by sharing a system cache, message insertion, thread processing, and other software algorithms, and realizes one-to-many and many-to-many communication, which not only ensures the reliability of data transmission and reception, but also takes into account the timeliness of data transmission and reception.



21: 2024/05612. 22: 2024/07/19. 43: 2025/01/23
 51: G06Q
 71: Shenyang Jianzhu University
 72: Shuo Lin, Shunchao Zhang, Zhonghua Han
 33: CN 31: 202311395918.6 32: 2023-10-25
54: A DYNAMIC ADJUSTMENT METHOD FOR STORAGE AREA OF PREFABRICATED COMPONENTS

00: -
 A dynamic adjustment method for storage area of prefabricated components relates to the production technology field of prefabricated component enterprises. The method includes the following steps: Collecting the production information of prefabricated components, the consumption information of prefabricated components of construction enterprises and various data affecting inventory fluctuations; The K-means algorithm was

used to cluster and group the data. The grouped data is input into the bidirectional short-duration network model with attention mechanism for deep learning, and the Bayesian algorithm is used for hyperparameter optimization to reduce the training time of the model. These models are used as the base learner of the integrated learning model of Stacking, and LR algorithm is selected as the meta-learner to further predict inventory fluctuations. According to the forecast results, the storage area of precast components is dynamically adjusted. At the same time, the forecast results are fed back to the production enterprise and the construction enterprise, so that both sides can adjust the production plan and construction plan in real time. This method is of great significance for the rational utilization of the storage area of prefabricated components and the coordinated development of production and consumption of prefabricated components.

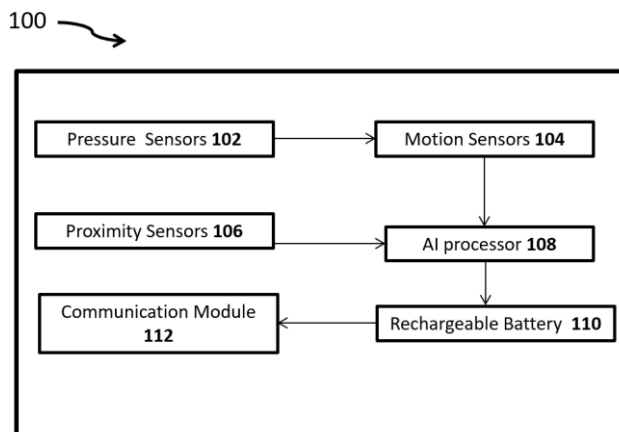


21: 2024/05615. 22: 2024/07/19. 43: 2025/01/23
 51: A61B
 71: Prof. (Dr.) Sailesh Iyer, Sathiya Ayyadurai, Dr. Feroza D Mirajkar, Dr. Tanmay Kasbe, Dr. Rahul Paul, Dr. Preeti Upadhyay, Dr. Deepti Yadav, Dr. Farheen Mohammed
 72: Dr. Feroza D Mirajkar, Dr. Rahul Paul, Dr. Preeti Upadhyay, Dr. Deepti Yadav, Dr. Farheen Mohammed, Prof. (Dr.) Sailesh Iyer, Sathiya Ayyadurai, Dr. Tanmay Kasbe

54: ARTIFICIAL INTELLIGENCE-BASED SMART TOOTHBRUSH FOR ELDERLY PEOPLE

00: -

The present invention discloses an AI-based smart toothbrush system designed specifically for elderly individuals, aiming to enhance oral hygiene management through advanced sensor technology and artificial intelligence (AI) techniques. The system features an ergonomic handle housing multiple sensors, including pressure sensors, motion sensors (such as accelerometers and gyroscopes), and proximity sensors, which monitor brushing techniques in real-time. An AI processor integrated within the handle analyzes sensor data using machine learning techniques to provide personalized feedback on brushing patterns, pressure levels, and coverage consistency. This feedback is communicated to users through the toothbrush handle and a connected smartphone application, which also facilitates data storage, remote monitoring by caregivers, and access to educational resources on oral hygiene.



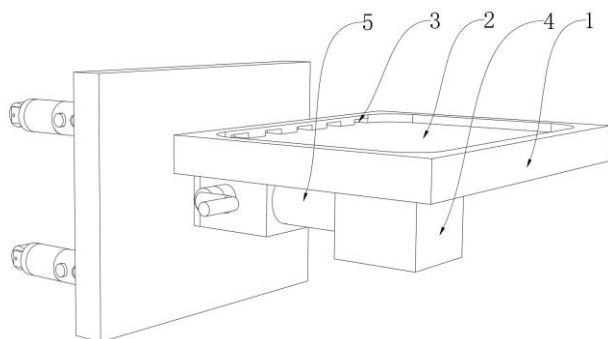
21: 2024/05616. 22: 2024/07/19. 43: 2025/01/23
 51: G09F
 71: Xinyu University
 72: Zhang Yi, Yi Xianghong, Wang Maoyang, Jiang Xunyan

54: ECONOMIC MANAGEMENT INFORMATION DISPLAY DEVICE BASED ON ARTIFICIAL INTELLIGENCE

00: -

The present invention provides an economic management information display device based on artificial intelligence (AI), including a rotating rod; an outer ring of the rotating rod is rotatably connected

with a fixing block, a bottom of the rotating rod is fixedly connected with a connecting column, and a bottom of the connecting column is fixedly connected with a first bevel gear. In the present invention, by adjusting the angle of the display board through the rocking lever, the connecting post, the rotating lever, and the linkage between the first bevel gear and the second bevel gear, it is possible to ensure that the viewer or the user can view the contents at an optimal angle, which is very important for displaying pictures, videos, documents or other information.

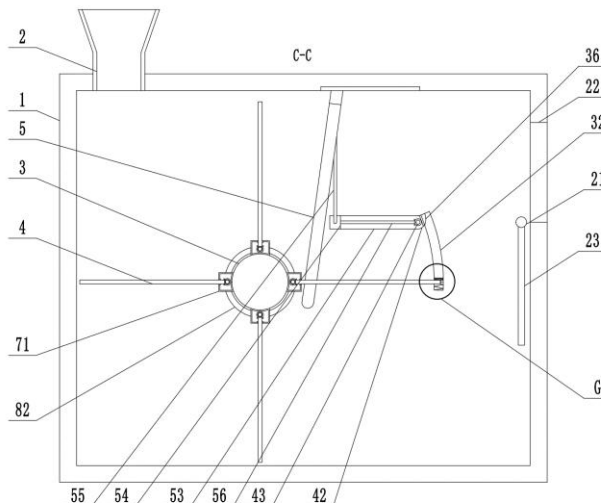


21: 2024/05617. 22: 2024/07/19. 43: 2025/01/23
51: B29B

71: Hangzhou Normal University
72: Liu Zhiquan, Zhang Hangjun
33: CN 31: 202311216644X 32: 2023-09-20
54: DEVICE FOR RECYCLING AND TREATING DEGRADABLE PLASTICS

00: -
The present invention relates to a device for recycling and treating degradable plastics, falling within the technical field of plastic recycling, including a box body and an introduction pipe fixedly arranged at one side of the top of the box body. A first rotary shaft is horizontally arranged inside the box body, multiple groups of cylinders are radially arranged at equal intervals around the outside of the first rotary shaft, multiple stop bars are arranged at the top of one side of the box body away from the introduction pipe at equal intervals, a driving mechanism is arranged on the box body for driving the first rotary shaft to rotate, and the present invention continuously presses the introduced degradable plastic into water for displacement so as to make the degradable plastic fully contact with water. Ensuring the cleaning effect during the recovery and treatment of the degradable plastic,

and at the same time, the stop bar concentrating the cleaned degradable plastic on one side of the box body and separating the introduced plastic, so as to continuously clean the recovered degradable plastic, and further improving the cleaning efficiency of the degradable plastic; and the degradable plastic recovery and treatment device of the present invention has a good effect, is easy to use, and has strong practicality, which is worth promoting.

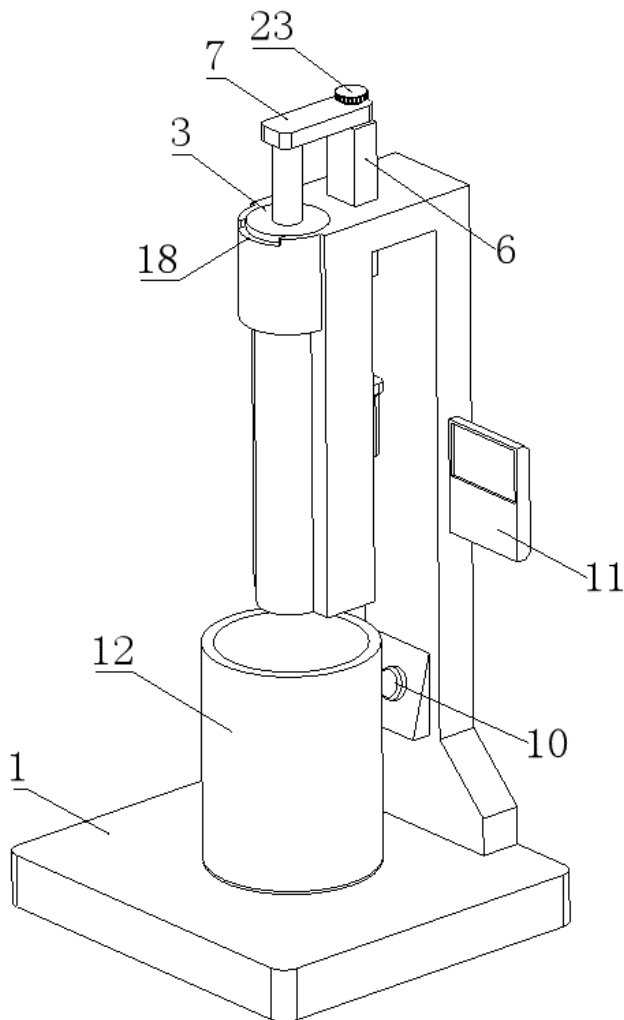


21: 2024/05619. 22: 2024/07/19. 43: 2025/01/23
51: B01D

71: Chuzhou University
72: Cheng Yuan, Yang Miaomiao, Lu Ziyang
54: MOLECULARLY IMPRINTED PROBE SOLID PHASE MICROEXTRACTION DEVICE

00: -
The present invention discloses a molecularly imprinted probe solid phase microextraction device, falling within the technical field of solid phase extraction. The present invention includes an extraction support, one end of the extraction support is provided with a guide pipe, a handle rod is inserted inside the guide pipe, a fibre head is fixedly connected at the bottom of the handle rod, one end of the extraction support is provided with a lifting hole, a lifting sliding rod is inserted inside the lifting hole, and an L-shaped push rod is rotatably connected at the top of the lifting sliding rod. The present invention scans the distance between the fibre head and the solution in the transparent liquid storage cup according to the laser scanner, and drives the driving screw rod to form a threaded connection with the lifting sliding rod by starting the

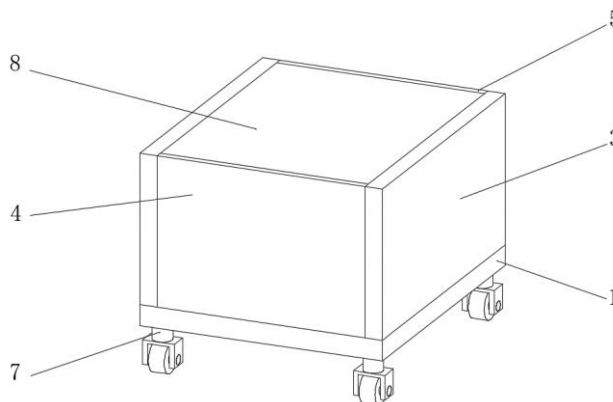
driving motor, and drives the L-shaped push rod to push the handle rod to push out the fibre head, so as to drive the fibre head to be immersed in the solution or directly placed in the upper space of the solution according to the information about the solution, thereby facilitating automatic control of the length of the fibre head extending out of or retracting the inside of the guide pipeline, thereby effectively improving the extraction accuracy of the device.



21: 2024/05620. 22: 2024/07/19. 43: 2025/01/23
 51: B65D
 71: Chuzhou University
 72: Huang Menghui
**54: SAMPLE ANTI-COLLISION PACKING BOX
 DESIGNED FOR HOUSEHOLD PRODUCTS**
 00: -

The present invention provides a sample anti-collision packing box designed for household products, falling within the technical field of anti-

collision packaging boxes. The limiting fixing mechanism includes two fixing plates, both of the fixing plates are fixedly connected on the top of a base, two rail rods are fixedly connected between opposite sides of the two fixing plates, two limiting clamping plates are slidably connected between the outer surfaces of the two rail rods, a motor is fixedly connected to one side of the right side of the fixing plates, a threaded rod is fixedly connected to the output end of the motor, and both of the limiting clamping plates are threadedly connected to the threaded rod. In the present application, by providing a limiting and fixing mechanism, the sample can be clamped and fixed tightly so as to limit the sample without disturbing, reducing the risk of damage caused by position movement and shaking, and improving the protection effect of the sample, and this bidirectional limiting and clamping design enables the packaging box to be applicable to more types of household product designs.



21: 2024/05624. 22: 2024/07/19. 43: 2025/01/23
 51: A61K
 71: Hunan Yueningkang Biotechnology Co.LTD
 72: OUYANG Yaoli, LIU Shifeng
 33: CN 31: 202211550808.8 32: 2022-12-05
**54: MEDICINE FORMULA FOR TREATING
 ANEMIA**
 00: -

The invention discloses a formula of a traditional Chinese medicine formula for treating anemia, which relates to the technical field of traditional Chinese medicines. Aiming at the problems that most of the existing western medicines for treating anemia have side effects, but the compatibility of the traditional Chinese medicines for treating anemia is not reasonable enough, the curative effect is minimal,

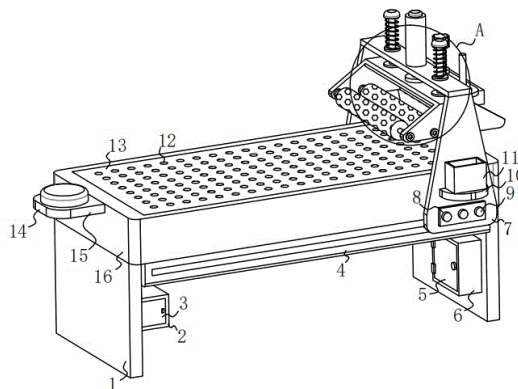
and only the symptoms of anemia can be treated, so that the immunity of human bodies cannot be improved, and the taking effect is poor, the following scheme is proposed, including that following raw material in parts by weight: 12-16 parts of jujubae fructus, 2-4 parts of rehmanniae radix, 3-7 parts of citri reticulatae pericarpium, 5-9 parts of Ionicerae japonicae flos, 2-5 parts of ligustri lucidi fructus, 1-3 parts of agrimoniae herba, 7-9 parts of pinelliae rhizoma, 8-12 parts of astragali radix, 4-8 parts of salviae miltiorrhizae radix et rhizoma, 12-15 parts of angelicae sinensis radix, 13-17 parts of lycii fructus, 3-4 parts of asini corii colla and 15-17 parts of mel. The invention has reasonable compatibility, can effectively treat anemia, improve human immunity, has no side effects, is easy to be accepted by different users, has good taking effect, and is worthy of popularization and use.

21: 2024/05651. 22: 2024/07/22. 43: 2025/01/24
 51: A61H
 71: Nanjing University of Chinese Medicine
 72: FANG Yi, CHEN Zhewei, WANG Chun, GONG Jiakuan, XIA Youbing, WU Yunchuan, GAO Zishan, XIONG Ying

54: APPARATUS FOR ACUPUNCTURE, TUINA, MAGNETIC THERAPY, AND MASSAGE

00: -
 The present invention provides an apparatus for acupuncture, tuina, magnetic therapy, and massage. The apparatus for acupuncture, tuina, magnetic therapy, and massage includes two support frames and a physiotherapy bed. The physiotherapy bed is fixedly connected to top portions of the two support frames, mounting shells are fixedly connected at both positions of a bottom portion of the physiotherapy bed on a front surface and a back surface, and a drive assembly is mounted at an end between the two mounting shells. Threaded rods are respectively, rotatably connected in the two mounting shells via two rotation rings, a limit ring is mounted at an end of an outer surface of the threaded rod, and a first pulley is fixedly connected at the end of the outer surface of the threaded rod. The apparatus for acupuncture, tuina, magnetic therapy, and massage provided by the present invention enhances the degree of automation in physiotherapy, reduces the repetitive motion during massage or tuina treatment by the physiotherapist

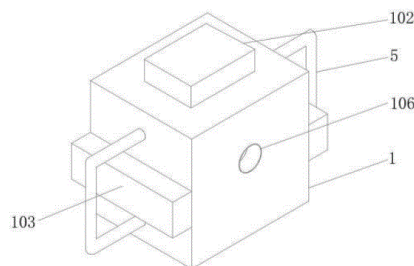
holding a device for the patient, reduces the workload of the physiotherapist, and allows for precise control of massage and tuina strength via a pressure sensor, thereby improving the physiotherapy effect.



21: 2024/05652. 22: 2024/07/22. 43: 2025/01/24
 51: C21D
 71: Harbin Xinhua Aviation Industry Co., Ltd.
 72: SUN, Daxin, SU, Lankui, KANG, Geng, LAPATSIN, Siarhei, TANG, Jiachao, ZHURAVKOV, Michael

54: HEAT TREATMENT PROCESS FOR METAL WORKPIECE

00: -
 The present invention discloses a metal workpiece heat treatment process, which solves the following problems: when an existing metal workpiece heat treatment device anneals the metal workpiece, steam from annealing is passed through a condensation device to recover water resources, and a large part of thermal energy in steam is lost due to conversion of a condenser, which is prone to cause waste of energy in the whole device; and it is difficult to effectively filter and remove small metal debris carried in steam, which affects water cooling and annealing of the whole device.



21: 2024/05653. 22: 2024/07/22. 43: 2025/01/24

51: C23C

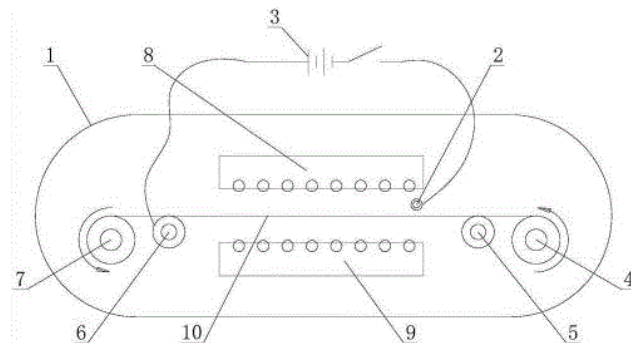
71: Jiangsu Xingteliang Technology Co., Ltd

72: Zhouzhengxing, Zhoujie

54: DEVICE AND METHOD FOR PREPARING GRAPHENE FILMS

00: -

The present invention relates to the technical field of graphene film preparation, and a device and method for preparing graphene films are disclosed. The device includes a vacuum chamber, and a conveyor mechanism and a heating mechanism arranged inside the vacuum chamber. The conveyor mechanism includes a first conveyor assembly and a second conveyor assembly arranged opposite to each other at left and right ends of the vacuum chamber, the first conveyor assembly and the second conveyor assembly are connected via a conveyor belt in a transmission manner, and the conveyor belt and the second conveyor assembly are electrically conductive. The heating mechanism includes a first heating assembly and a second heating assembly symmetrically arranged at upper and lower ends of the conveyor belt, and a gas delivery mechanism is arranged between the first heating assembly and the second heating assembly. The gas delivery mechanism includes an air nozzle disposed above the conveyor belt and close to one end of the first conveyor assembly, and the air nozzle is electrically conductive. In the present invention, by applying a certain voltage between the second conveyor assembly and the air nozzle, an electric field is generated between a graphene foil tape and the air nozzle, and the optimized growth of graphene films is promoted under the action of the electric field.



21: 2024/05660. 22: 2024/07/22. 43: 2025/01/24

51: B66F

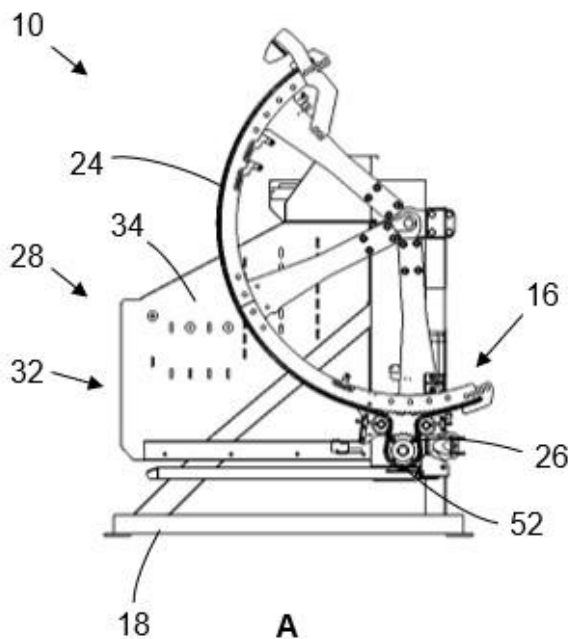
71: GOSSAMER MACHINERY (PTY) LTD

72: JANSE VAN RENSBURG, Rudolf Georg

54: APPARATUS FOR DISCHARGING CONTENTS OF A CONTAINER

00: -

A bin tipping machine (10) according to the invention includes a drive mechanism comprising fixed sprocket segments (16), each with a chain (24) engaged on some of its teeth, a motor driving drive sprockets (52) that are also engaged with the chains (24). The machine (10) includes a cradle (28) that is configured to receive a bin and the drive sprockets (52) are supported on the cradle (28), so that the cradle (28) pivots as the drive sprockets (52) are turned by the motor and progress along the chains.



21: 2024/05661. 22: 2024/07/22. 43: 2025/01/24

51: C12G

71: AMONÉ LOUISE VAN DER MERWE

72: AMONÉ LOUISE VAN DER MERWE

54: PREPARED ALCOHOLIC BEVERAGE AND SYRUP FOR PREPARING SAME

00: -

The invention pertains to a prepared alcoholic beverage comprising soda water, brandy, and various flavouring agents, and a syrup for preparing the same. The invention specifically includes apricot, cinnamon and ginger, and orange-flavoured beverages and syrups. The formulations of the beverages and syrups provide a unique taste experience by combining distinct flavours with

brandy and soda water while maintaining a low-calorific profile.

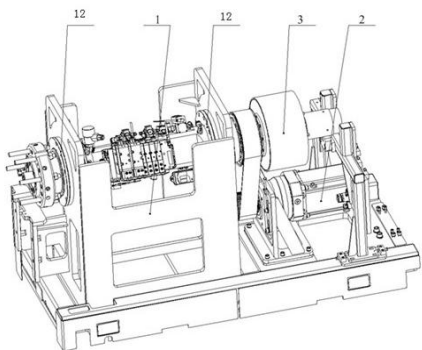
21: 2024/05662. 22: 2024/07/22. 43: 2025/01/30
51: B29D

71: MESNAC CO., LTD., QINGDAO MESNAC MACHINERY & ELECTRIC ENGINEERING CO., LTD.

72: YANG, Huili, SUN, Fengxin, CHEN, Yaxiong
33: CN 31: 202123260108.9 32: 2021-12-22

54: PASSENGER RADIAL TIRE FORMING MACHINE AND CASE THEREOF

00: -
Disclosed in the present application are a passenger radial tire forming machine and a case thereof. The passenger radial tire forming machine comprises: a rotating main shaft, the rotating main shaft being provided with a gas supply passage and a threading passage; an electrical slip ring device, the electrical slip ring device being fixedly connected to the rotating main shaft, and the electrical slip ring device being connected to a gas supply device and a power supply device; a drum device, fixedly connected to the rotating main shaft, the gas supply device being communicated with a gas passage inlet of the drum device by means of the gas supply passage, and the power supply device being electrically connected to the drum device by means of a cable arranged in the threading passage. By forming the gas supply passage and the threading passage on the rotating main shaft, the positions of gas and the cable are provided, the pipeline is simplified, and a gas source line and the cable are not exposed any more.



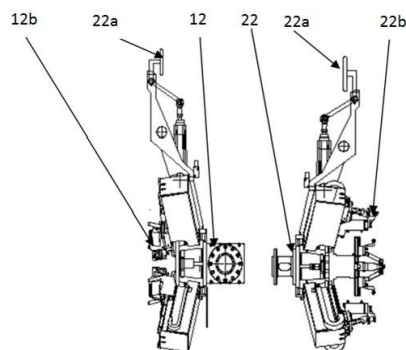
21: 2024/05663. 22: 2024/07/22. 43: 2025/01/30
51: B29D

71: MESNAC CO., LTD., QINGDAO MESNAC MACHINERY & ELECTRIC ENGINEERING CO., LTD.

72: YANG, Huili, XIE, Gang, LIU, Yunfei, HOU, Dongyun, CHEN, Yaxiong
33: CN 31: 202111585277.1 32: 2021-12-22

54: CONTROL METHOD AND CONTROL SYSTEM FOR TIRE FORMING MACHINE, AND READABLE STORAGE MEDIUM

00: -
Disclosed in the present application are a control method and control system for a tire forming machine, and a readable storage medium. The control method comprises: in response to a signal for mounting a tire bead, a second mechanical arm body driving a second claw part to move to a material preparation area, and the second claw part executing a grabbing action on the tire bead and a spacer; the second mechanical arm body driving the second claw part to place the tire bead at a preset tire bead position and place the spacer at a spacer holding position; in response to a green tire rolling signal, a first pressing roller part rolling a first sidewall of a green tire on a forming drum and a tire tread adjacent to the first sidewall, and a second pressing roller part rolling a second sidewall of the green tire and a tire tread adjacent to the second sidewall; and in response to a green tire unloading signal, a first mechanical arm body driving a first claw part to grab the green tire, and transferring the green tire to a tire unloading position. By means of integrated control, the control method shortens the space occupied by a mechanical device, reduces the control complexity, and avoids the possibility of interference caused by executing mutual actions between mechanical parts.



21: 2024/05665. 22: 2024/07/22. 43: 2025/01/30
51: B29D

71: MESNAC CO., LTD., QINGDAO MESNAC MACHINERY & ELECTRIC ENGINEERING CO., LTD.

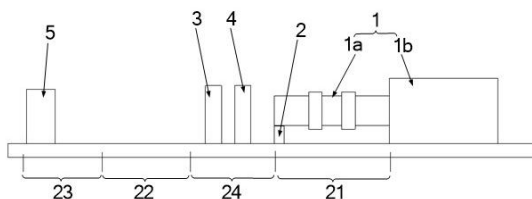
72: YANG, Huili, LIU, Yunfei, XIE, Gang, HOU, Dongyun, CHEN, Yaxiong

33: CN 31: 202111585297.9 32: 2021-12-22

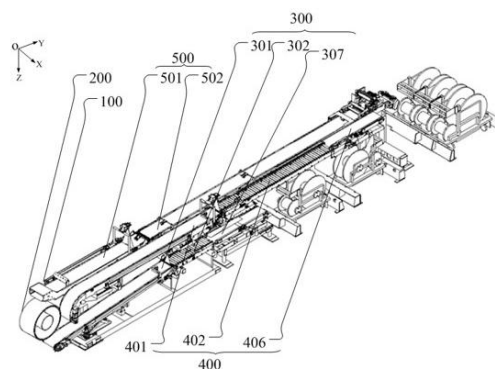
54: FOLLOW-UP CONTROL METHOD AND SYSTEM FOR FORMING MACHINE

00: -

Disclosed in the present application are a follow-up control method and system for a forming machine. The follow-up control method comprises: in response to an instruction of moving a forming drum module from a fitting station to a ring locking station, controlling the forming drum module and a stitching press roller module to move towards the ring locking station, wherein the moving speed of the stitching press roller module to the ring locking station and the moving speed of the forming drum module to the ring locking station have a preset speed difference, so as to control the stitching press roller module to perform a stitching operation on a composite joint on the forming drum module, and when the forming drum module reaches a preset position before the ring locking position of the ring locking station, the stitching press roller module completes the stitching operation. According to the follow-up control method, the stitching operation of the stitching roller module and the ring locking process of the forming drum module can be performed at the same time, and compared with the conventional step execution mode, the action execution period in the whole control process of the forming machine is greatly shortened



The present application discloses a two-stage feeding system, a two-stage building machine, a uni-stage building machine, and a feeding method. In the two-stage feeding system, a control apparatus first controls a lamination drum to run to a first preset position; when the lamination drum runs to the first preset position, the control apparatus controls a first belt ply conveying template to move in a direction close to the lamination drum so as to laminate a first belt ply onto the lamination drum, and then the control apparatus controls a second belt ply conveying template to move in the direction close to the lamination drum so as to laminate a second belt ply onto the lamination drum; and finally, the control apparatus controls the lamination drum to run to a second preset position, and when the lamination drum runs to the second preset position, the control apparatus controls a tread conveying template to move in the direction close to the lamination drum so as to laminate a tread onto the lamination drum. According to the system, a belt ply drum does not cause the lamination drum to deform in a vertical direction because the belt ply drum is subjected to a large inertia force, and thus, the lamination quality of a tire blank is effectively improved.



21: 2024/05668. 22: 2024/07/22. 43: 2025/01/30
51: B29D

71: QINGDAO MESNAC MACHINERY & ELECTRIC ENGINEERING CO., LTD., MESNAC CO., LTD.

72: YANG, Huili, LIU, Zhibin, HOU, Dongyun, QI, Kun

33: CN 31: 202111585297.9 32: 2021-12-22

54: TWO-STAGE FEEDING SYSTEM, TWO-STAGE BUILDING MACHINE, UNI-STAGE BUILDING MACHINE, AND FEEDING METHOD

00: -

21: 2024/05687. 22: 2024/07/23. 43: 2025/01/24
51: C05F; C05G

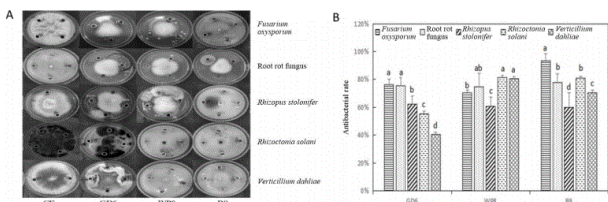
71: Yancheng Teachers University, Yancheng Tinghu District Dezerui Biotechnology Co., Ltd.

72: SHEN, Min, WU, Limeng, YOU, Ruiqiang, KANG, Yijun, XIAO, Jiabin, WANG, Huanli, HONG, Jian, SUN, Tao, XU, Yang

33: CN 31: 202410300123.0 32: 2024-03-15

54: GROWTH PROMOTING RHIZOBACTERIA COMPOUND MICROBIAL AGENT AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF

00: -
 The present invention relates to a growth promoting rhizobacteria compound microbial agent as well as a preparation method and an application thereof. The growth promoting rhizobacteria powder is compound microbial agent powder, and the growth promoting rhizobacteria compound microbial agent is composed of a growth promoting rhizobacteria suspension and a carrier, wherein an amount ratio of the carrier to the growth promoting rhizobacteria suspension is 2,000-4,000g : 2-4 L. The growth promoting rhizobacteria compound microbial agent can significantly prevent and reduce the generation of continuous cropping obstacles in Asclepiadaceous medicinal plants; improve the seed germination of Asclepiadaceous medicinal plants in continuously cropped soil; colonize in the roots of Asclepiadaceous plants and soil and regulate the composition of the microbial community structure in the soil, inhibit the outbreak of soil borne diseases, promote the root development of crops, and improve the stress resistance of Asclepiadaceous medicinal plants.

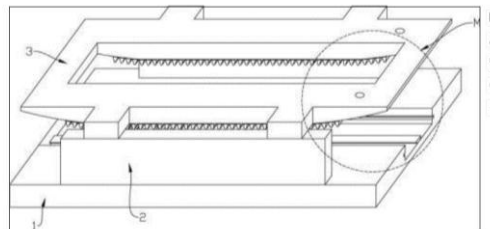


21: 2024/05689. 22: 2024/07/23. 43: 2025/01/24
 51: G01B; G01N
 71: Harbin Xinhua Aviation Industry Co., Ltd.
 72: SUN, Daxin, SU, Lankui, KANG, Geng, LAPATSIN, Siarhei, TANG, Jiachao, ZHURAVKOV, Michael

54: PART DETECTION DEVICE

00: -
 A part detection device includes a lower base plate and an upper detection plate, wherein the base plate and the detection plate are relatively fixed; moving grooves are formed in the base plate, a removable placement component is arranged in the moving grooves, and stations for placing parts are arranged on the placement component. The present invention provides a part detection device, which is used to detect the accuracy of racks on the outer surface of the part; the whole device has the advantages of

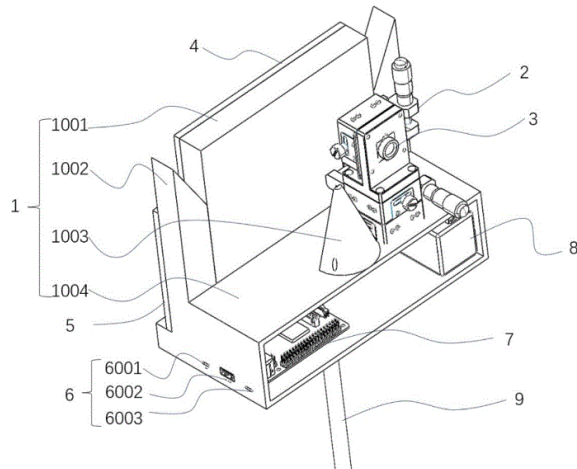
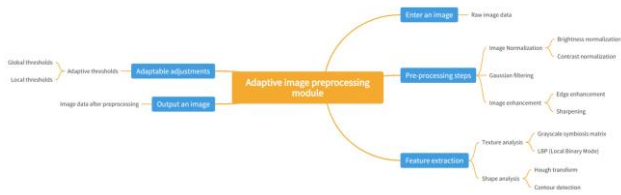
simple structure, low cost, easy operation and high detection efficiency.



21: 2024/05690. 22: 2024/07/23. 43: 2025/01/24
 51: G06K
 71: Xingchen Lu, Xuan Zhang, Yuxiao Gu
 72: Xingchen Lu, Yuxiao Gu, Xuan Zhang
54: AN ARTIFICIAL INTELLIGENCE IMAGE RECOGNITION SYSTEM BASED ON ADAPTIVE MULTIMODAL FUSION AND REINFORCEMENT LEARNING STRATEGY

00: -
 The present invention introduces an artificial intelligence image recognition system based on adaptive multimodal fusion and enhanced learning strategies, aimed at improving the accuracy and robustness of image recognition technology under variable environmental conditions. The system encompasses the fields of artificial intelligence, image processing, machine learning, and computer vision technologies, and is particularly suitable for processing images under different lighting, angles, and occlusion conditions, as well as large-scale datasets. The core technologies of the system include an adaptive image preprocessing module that automatically adjusts preprocessing parameters based on the lighting and angle of the image; multimodal feature fusion technology that enhances the model's understanding of image content by combining features from different modalities such as color, depth, and surface normal vectors; and enhanced learning strategies that further improve the model's recognition capabilities. The specific implementation of the invention includes steps such as image acquisition, adaptive preprocessing, multimodal feature extraction, feature fusion, and model training and optimization. The feature fusion step involves feature connection, feature weighting, and high-order interaction, with the feature weighting introducing an attention mechanism to dynamically adjust the weights of different features. The model training and optimization steps employ strategies

such as adaptive threshold adjustment, image effect enhancement, evaluation and regularization techniques for multimodal feature fusion, and the integration of deep neural networks with support vector machines.



21: 2024/05691. 22: 2024/07/23. 43: 2025/01/24
51: H04N

71: Yuxiao Gu, Xuan Zhang, Xingchen Lu

72: Yuxiao Gu, Xuan Zhang, Xingchen Lu

54: A RECORDING DEVICE BASED ON THE REAL-TIME IMAGING EFFECT OF AR GLASSES

00: -

The utility model relates to the augmented reality (AR) technical field, in particular a shooting device for real-time imaging effect of AR glasses, comprises a box, a microcontroller, a rechargeable battery. Described box body front is fixed with XYZ three-axis slide unit. Described XYZ three-axis slide table is fixed with high-definition camera. Described box back upper side is fixed with control button panel. Described box back downside is provided with detachable touchscreen display. Described box body both sides have connecting interface. The inner side of the box is fixed with a microcontroller and a rechargeable battery. Described cabinet bottom is connected with shooting grip. The utility model discloses by external camera recording, avoid the problem that can not directly record AR effect because AR glasses itself uses grayscale camera, avoid the problem that recording video is inconsistent with the field of view that user actually observes, conveniently record horizontal screen video, support autofocus, can adapt to the common AR glasses that are on sale, has certain versatility, supports storage and synchronization of recorded data simultaneously.

21: 2024/05692. 22: 2024/07/23. 43: 2025/01/24
51: B60P; E04H

71: Sam May

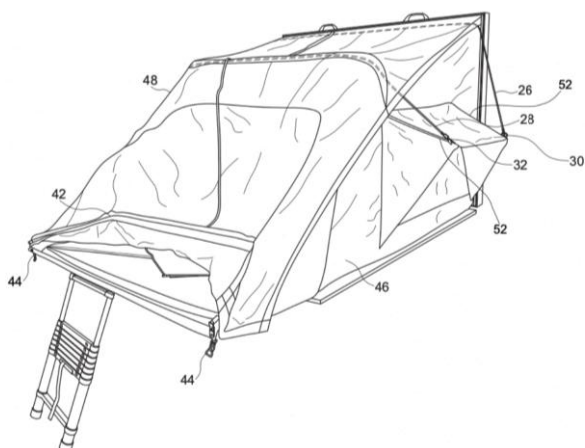
72: Sam May

33: AU 31: 2023902348 32: 2023-07-24

54: AN IMPROVED ROOFTOP TENT ASSEMBLY FOR VEHICLES

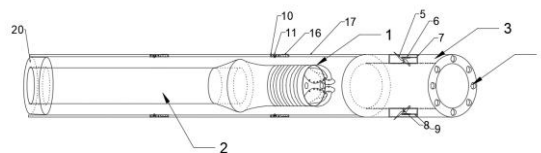
00: -

The present invention generally relates to a rooftop tent assembly. In particular, the invention relates to a rooftop tent assembly equipped with windows comprising window shades, and further, a mechanism for easy deployment of the vehicle rooftop tent along with its accompanying window and window shades. The rooftop tent assembly comprises a base configured to be affixed to a rooftop of a vehicle, an extension plate securely and hingedly connected to one end of the base plate and a cover hingedly affixed to another end of the base, wherein the cover is configured to conceal the rooftop tent assembly. The rooftop tent assembly further comprises a ladder configured to enable a user to deploy the rooftop tent assembly by pulling down on the ladder thereby deploying a tarp over the base and extension plate, an internal seal system providing a water-tight and dust-proof seal and a pair of windows located on either side of the rooftop tent assembly, wherein each window comprises a window shade extending outwards from both sides and top of the window. Each window shade is held in place through one or more ropes. When the tent is deployed the one or more ropes are pulled into tension, raising the window shade located above the window.



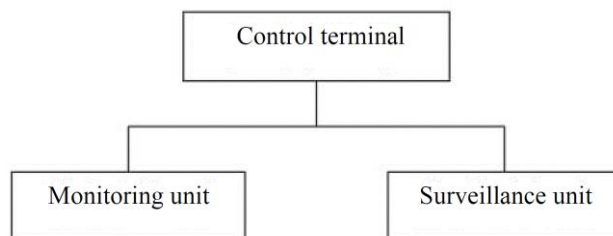
21: 2024/05693. 22: 2024/07/23. 43: 2025/01/24
 51: E21B
 71: Beijing China Coal Mine Engineering Co., Ltd., CHINA UNIVERSITY MINING AND TECHNOLOGY-BEIJING
 72: HE, Wen, GAO, Xiaogeng, XIE, Fuxing, LI, Shengsheng, CHEN, Dongdong, ZHAO, Wenkang, XIANG, Junxing, YANG, Xue, HE, Hongwei, YANG, Hongjun, DING, Zhenyu, DENG, Yun, AN, Xuliang, XIE, Tengda, ZHANG, Zhifeng, YANG, Xiangyu, WANG, Zhiqiang, ZHANG, Zhixuan
54: ANTI-COLLAPSE DEVICE AND METHOD FOR GROUND DIRECTIONAL DRILLING IN FAULT FRACTURE AREA

00: -
 The present invention discloses an anti-collapse device and method for ground directional drilling in fault fracture area and relates to the technical field of ground directional drilling, A drill bit housing is comprised; a front side of the drill bit housing is provided with fixed drill bits; the fixed drill bits are arranged in a ring shape; and a periphery of the drill bit housing is provided with a plurality of relief grooves; elastic barb devices are comprised; the elastic barb devices are installed in the relief grooves; a hollow anti-collapse pipe is comprised; head of the anti-collapse pipe is fixedly connected with tail of the drill bit housing; the tail of the anti-collapse pipe is internally provided with an elastic rubber plug; and a peripheral side of the anti-collapse pipe is provided with a plurality of grouting holes; slider switch devices are comprised; the slider switch devices are installed on the anti-collapse pipe and used for opening or closing the grouting holes.



21: 2024/05694. 22: 2024/07/23. 43: 2025/01/24
 51: A61B
 71: The First Affiliated Hospital of Bengbu Medical College
 72: CAI Ronglan, YANG Lijuan, ZHU Ming
54: GENERAL MOVEMENTS ASSESSMENT SYSTEM FOR INFANTS BASED ON SENSING MOTION MONITORING

00: -
 The present invention provides a general movements (GMs) assessment system for the infants based on sensing motion monitoring, including a control terminal. The control terminal includes a data acquisition module, a data processing module, a data sorting module and a data analysis module, which are used for running an assessment system, connecting various types of monitoring devices into the system via Internet of Things (IoT) or a network connection. In the present invention, the data acquisition module performs preliminary acquisition on information data of multiple groups of sensors to record motion data acquisition within five minutes, and transmits the preliminary acquired motion data to the data processing module to extract original data, extracts key feature data such as motion speed, acceleration, angular speed and motion change, then transmits the extracted feature data to the data sorting module for classification and arrangement, and transmits same to the data analysis module for depth analysis to evaluate the motion quality of the infant, thereby judging the data such as the motion trajectory of the infants more accurately.



21: 2024/05696. 22: 2024/07/23. 43: 2025/01/24
 51: G06F; G07C; G06Q

71: STARKEYS LLC

72: KAHN, Ari

33: US 31: 17/567,044 32: 2021-12-31

33: US 31: 17/567,051 32: 2021-12-31

33: US 31: 17/750,389 32: 2022-05-22

33: US 31: 17/750,392 32: 2022-05-22

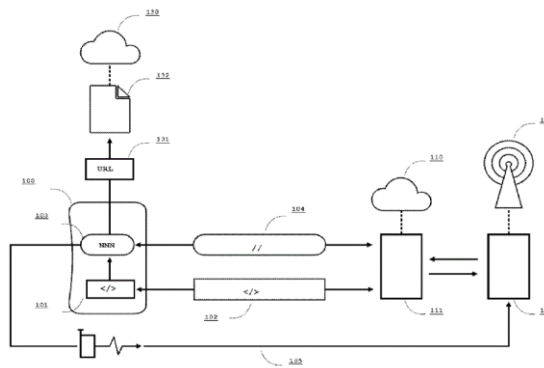
33: US 31: 17/829,145 32: 2022-05-31

33: US 31: 17/862,402 32: 2022-07-11

54: PERMISSION-BASED CONTROLLING NETWORK ARCHITECTURES AND SYSTEMS, HAVING CELLULAR NETWORK COMPONENTS AND ELEMENTS MODIFIED TO HOST PERMISSION CONTROLLING SCHEMAS DESIGNED TO FACILITATES ELECTRONIC PEER-TO-PEER COMMUNICATION SESSIONS BETWEEN MEMBER COMPUTING DEVICES BASED ON CELLULAR COMMUNICATION SIGNALS IN ACCORDANCE WITH NOVEL CELLULAR COMMUNICATIONS PROTOCOLS, AND METHODS FOR USE THEREOF

00: -

In some embodiments, the present disclosure provides a method that includes: executing, by a processor of a computing device, an application program instruction to display an access controller interface element and an access code on a screen of the computing device, the access controller interface element being operationally linked to an access-restricted digital resource; transmitting, by the processor, based on an activity performed with the access controller interface element, an access request over a cellular network, including the access code and an identity linked to the computing device; receiving, by the processor over the internet, in response to the transmitting of the access request and via the application program, an access program instruction to unlock the access-restricted digital resource for accessing via the computing device; and executing, by the processor, the access program instruction to unlock the access-restricted digital resource for accessing via the computing device.



21: 2024/05699. 22: 2024/07/23. 43: 2025/01/24

51: C12N

71: CHINESE PLA GENERAL HOSPITAL

72: ZHANG, Cuiping, CHU, Ziqiang, MA, Kui, FU,

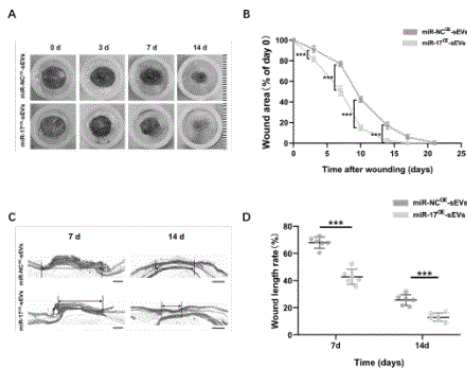
Xiaobing

33: CN 31: 202310354160.5 32: 2023-04-04

54: ENGINEERED EXOSOME FOR PROMOTING HEALING OF DIABETIC WOUNDS, AND PREPARATION METHOD AND APPLICATION THEREOF

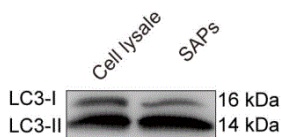
00: -

The present invention provides an engineered exosome for promoting healing of diabetic wounds, and a preparation method and application thereof. The preparation method for the engineered exosome for promoting healing of diabetic wounds is provided and includes: infecting mesenchymal stem cells with miR-17-5p overexpressed lentivirus, and performing screening to obtain a stably transfected cell line; and performing multiplication culture on the stably transfected cell line, and extracting an exosome to obtain the engineered exosome for promoting healing of diabetic wounds. The exosome obtained by the preparation method can obviously protect the diabetic wounds and promote healing of the wounds faster.



21: 2024/05700. 22: 2024/07/23. 43: 2025/01/24
 51: C12N
 71: CHINESE PLA GENERAL HOSPITAL
 72: ZHANG, Cuiping, CUI, Shengnan, LIU, Xi, TIAN, Guanglei, FU, Xiaobing
 33: CN 31: 202310779644.4 32: 2023-06-29
54: AUTOPHAGOSOME, AND EXTRACTION METHOD AND APPLICATION THEREOF

00: -
 The present application belongs to the technical field of biopharmaceuticals, and particularly relates to an autophagosome, and an extraction method and application thereof. The present application provides a novel extracellular vesicle for inhibiting ferroptosis, that is, an extraction method for an autophagosome, which has the advantages of easy acquisition, no need of special stimulation to maternal cells, etc., and the extraction method is suitable for large-scale extraction, and has a strong clinical potential application value. The present application also provides the autophagosome obtained by the extraction method. In the example, a fibroblast ferroptosis model is constructed with high glucose, and the autophagosome is configured to verify that the autophagosome can reduce sensitivity of cells to the ferroptosis, such that the cells escape adverse factors inducing the ferroptosis.



21: 2024/05710. 22: 2024/07/24. 43: 2025/01/24
 51: E01D
 71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA

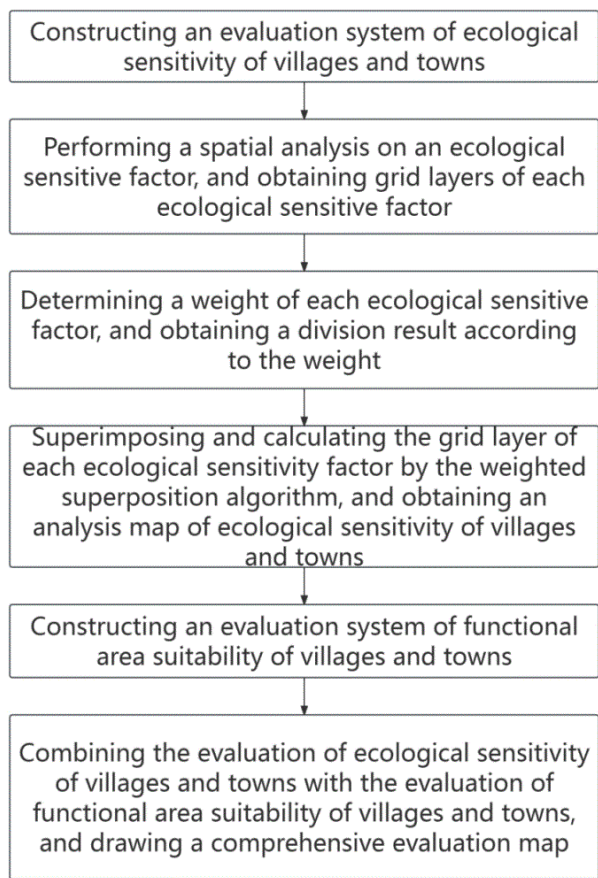
CONSTRUCTION SECOND ENGINEERING BUREAU
 72: WANG, Hongjun, ZHANG, Fengmin, WANG, Gang, ZHANG, Ansheng, Feng, Ruili, WU, Huihui, LIN, Dongqin, LI, Chengjun, HU, Pan, YUAN, Xin
54: CONSTRUCTION METHOD FOR ULTRAHIGH CLIMBING FRAME

00: -
 The present invention discloses a construction method for an ultrahigh climbing frame. In the present invention, the arrangement of the protective net can effectively prevent a tool, a material, or another object that may fall during construction from injuring pedestrian below, thereby reducing safety accidents at a construction site. The protective net isolates the construction site from the outside, helping to maintain construction order within the site and reduce external interference. Additionally, the protective net can prevent external debris from entering a construction region, ensuring a clean construction environment and improving construction efficiency. The arrangement of the safety passage provides a safe passing space for construction personnel, reducing the risk of collision and fall during operation in the ultrahigh climbing frame. In case of an emergency, the safety passage can serve as a quick evacuation route, ensuring that the construction personnel can rapidly and safely leave the site. The existence of the safety passage helps to improve the operation efficiency of the construction personnel.

21: 2024/05713. 22: 2024/07/24. 43: 2025/02/07
 51: G06Q
 71: Anhui Science and Technology University
 72: Baojuan ZHOU, Wei ZHANG, Yuanyuan JIA, Chenchen YUAN, Qiudi WANG
54: AN EVALUATION METHOD FOR ECOLOGICAL SENSITIVITY AND FUNCTIONAL AREA SUITABILITY OF VILLAGES AND TOWNS

00: -
 The present invention discloses an evaluation method for ecological sensitivity and functional area suitability of villages and towns, which belongs to the field of environmental monitoring technology, comprising: constructing an evaluation system of ecological sensitivity of villages and towns; performing a spatial analysis on an ecological sensitive factor; determining a weight of each ecological sensitive factor, and obtaining a division

result according to the weight; superimposing and calculating the grid layer of each ecological sensitivity factor by the weighted superposition algorithm, and obtaining an analysis map of ecological sensitivity of villages and towns; constructing an evaluation system of functional area suitability of villages and towns; comprehensively evaluating ecological sensitivity and functional area suitability of villages and towns. By using the above method, the present invention can make a hierarchical comprehensive analysis of various ecological risks, various ecological functions and the production and living functions of villages and towns

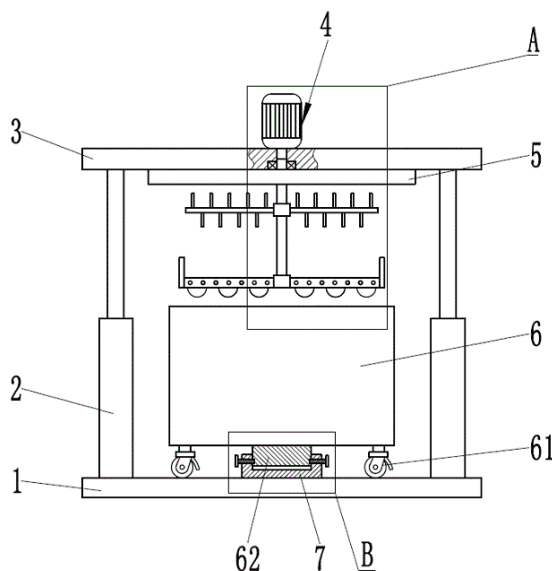


21: 2024/05714. 22: 2024/07/24. 43: 2025/01/24
 51: B01F
 71: Wenzhou Polytechnic
 72: Fang Liwei

54: STIRRING MACHINE FOR HIGH VISCOSITY LIQUID STIRRING

00: -
 The invention discloses a stirring machine for high-viscosity liquid stirring. The stirring machine

including a bottom plate, an oil cylinder, a top plate and a stirring mechanism, wherein the stirring mechanism comprises a motor, a rotating shaft, a plurality of first stirring assemblies and a plurality of second stirring assemblies, the ends of the plurality of second stirring assemblies can be attached to the inner side wall of the stirring box, and the stirring box is positioned through a positioning device on the bottom plate, so that the stirring mechanism stirs the stirring box. In the present application, the stirring box can be locked or unlocked by locking the screw, which is convenient to use and clean, and in the arranged stirring mechanism, the lyophobic plate and the lyophobic hole can lyophobic the high-viscosity liquid.

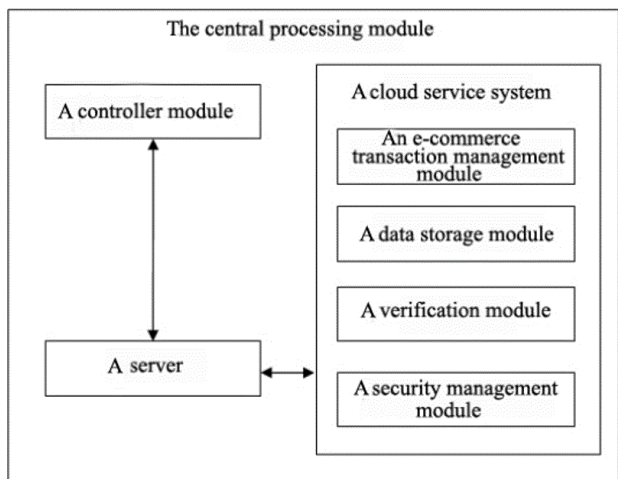


21: 2024/05715. 22: 2024/07/24. 43: 2025/01/24
 51: G06Q
 71: Zhejiang Industry and Trade Vocational College
 72: Jin Xiujin, Huang Beilei, Wu Qifan, Liu Min, Gao Tiange, Liu Yingjun

54: DATA PROCESSING DEVICE FOR CROSS-BORDER E-COMMERCE

00: -
 The present disclosure provides a data processing device for a cross-border e-commerce, including a device body, a central processing module, and a display module; the device body further comprises a workbench and a base, a rectangular placement cavity is formed in the base, the workbench is divided into an operation area, a scanning area and a display area, an operation input module is installed

in the operation area, a scanner is installed in the scanning area, and an electric sliding rail is installed above the display area; the operation input module and the display module are electrically connected with the central processing module, the operation input module is used for managing personnel to input an operation instruction, the display module is used for displaying data processing information and translation information, and the central processing module is used for processing the e-commerce data according to the input operation instruction.

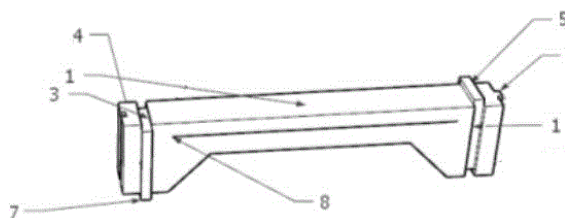


21: 2024/05716. 22: 2024/07/24. 43: 2025/01/24
 51: E02D
 71: Hunan University of Technology
 72: BIN Jia, PAN Chi, XIE Jiahui, HE Chengxin, WU Junpeng, XU Zhuojun, LIU Binghao, BU Guobin, LIU Fangcheng, HE Jie

54: EXTENSIBLE PREFABRICATED UNDERGROUND STRUCTURE SYSTEM AND CONSTRUCTION METHOD

00: -
 The invention discloses an extensible prefabricated underground structure system and a construction method, which comprise a first template and a second template; the adjacent first templates are directly embedded and assembled to form; or the adjacent first templates are assembled and formed by a plurality of second templates; the first template has a cubic structure, and one end face is fixedly connected with the groove connecting plate through a first dislocation plate; the other opposite side end face of that first template is fixedly connected with the protrusion connecting plate through a second dislocation plate; the groove on the groove connecting plate is matched with the convex shape

on the protrusion connecting plate; the first dislocation plate and the second dislocation plate are symmetrical about the axis center of the first template; the template adopted by the invention has higher flexibility, and realizes a multi-size, multi-layer and multi-warehouse underground structure; the expansibility of the system function brings more convenience to the structure layout and maintenance, and ensures the stability and safety of the structure.



21: 2024/05717. 22: 2024/07/24. 43: 2025/01/24
 51: G06F
 71: Dongguan YOHO Electronic Technology Co., Ltd.
 72: Wenyi PENG, Jiangyu HU, Kai CAO, Bisong GUO, Yang LUO

54: AUTHORIZATION METHOD AND SYSTEM BASED ON PAYMENT METHOD OF ENERGY STORAGE POWER SUPPLY EQUIPMENT

00: -
 This application pertains to shared leasing technology and provides a method for authorization based on payment methods for energy storage devices. The method includes: obtaining the user's payment method; for installment payments, obtaining the user's installment information; for rental payments, obtaining the user's rental information; sending the installment or rental information to the control platform to obtain the timestamp and the unique ID of the MCU through the control platform; determining the number of usage passwords N to be generated based on the installment or rental information; generating a usage password book based on the energy storage device ID, the timestamp, the unique ID, and the number of usage passwords N; sequentially sending the usage passwords from the usage password book to the user's device based on the user's payment method. This application enables users to choose the appropriate payment method according to their usage needs and financial capabilities.

21: 2024/05723. 22: 2024/07/24. 43: 2025/01/28
51: B23K

71: PANDROL

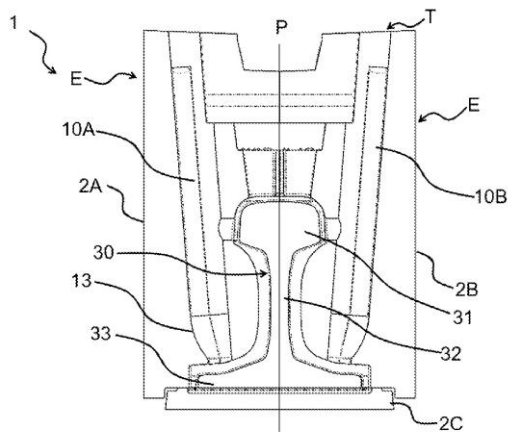
72: MERESSE, Clément, BORDERY, Pierre,
WINIAR, Lionel

33: FR 31: 2114504 32: 2021-12-24

54: MOULD FOR ALUMINOTHERMIC WELDING OF RAILS

00: -

The invention relates to a mould (1) for aluminothermic welding of two rails (30), said mould (1) comprising at least two side parts (2A, 2B) made of refractory material, configured to be mounted temporarily opposite one another on either side of the ends of the rails (30) to be welded so as to define a moulding cavity between said rail ends (30), each side part (2A, 2B) comprising at least one filling pipe (10A, 10B) configured to guide molten metal from the upper portion of the mould to a zone of the moulding cavity located at the base (33) of a rail, characterised in that each filling pipe (10A, 10B) has a section (110, 120) which is perpendicular to a flow axis of the molten metal in the pipe (10A, 10B) and narrows so as to progressively reduce the width of said section (110, 120) in a direction opposite a mean longitudinal plane (P) common to the two rails to be welded.



21: 2024/05741. 22: 2024/07/25. 43: 2025/01/28
51: B22F

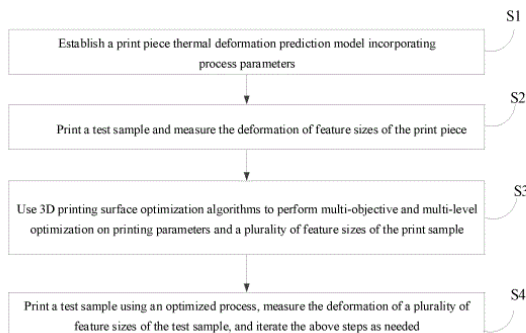
71: Huaxi Jingchuang Medical Technology
(Chengdu) Co., Ltd.

72: LIU, Yichen

54: 3D PRINTING PROCESS PARAMETER OPTIMIZATION METHOD FOR REDUCING THERMAL DEFORMATION OF WORKPIECE

00: -

The present invention discloses a 3D printing process parameter optimization method for reducing thermal deformation of a workpiece, and relates to the field of 3D printing. The present invention establishes a print piece thermal deformation prediction model incorporating process parameters, prints a test sample and measures the deformation of feature sizes of the print piece, uses 3D printing surface optimization algorithms to perform multi-objective and multi-level optimization on printing parameters and a plurality of feature sizes of the print sample, prints a test sample using an optimized process and measures the deformation of a plurality of feature sizes of the test sample, and iterates the above steps as needed. The present invention achieves higher material utilization and higher manufacturing flexibility, and improves the accuracy of 3D printed parts.



21: 2024/05742. 22: 2024/07/25. 43: 2025/01/29
51: E04D

71: Muci YUE, Xiuling CAO, Weijie CAO

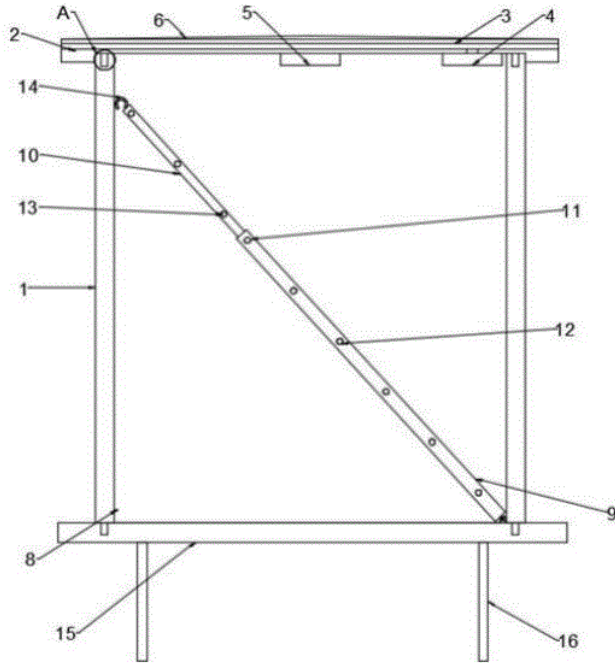
72: Xiuling CAO, Muci YUE, Weijie CAO, Liang YU,
Haiyan XU, Binbin WANG, Yuxin ZHAI

54: NEW GREEN ENERGY-SAVING HOUSE

00: -

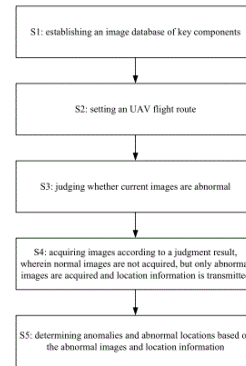
The invention discloses a new green energy-saving house, including wallboards and a roof plate, the bottom of the wallboard is connected to the bottom plate through the movable limit mechanism, and the upper end of the wallboard is fixed with the roof plate through the movable limit mechanism, one side of the wallboard is connected with a retractable connection mechanism, a horizontal ventilation cavity is set in the middle of the roof plate, and a ventilation fan and a ceiling light are set on the lower side, and the output end of the ventilation fan is connected with the ventilation cavity through the

pipeline. The parts of the house in the invention are convenient for assembly and disassembly, the connection is stable and the internal design is convenient and practical, through the setting of a ventilation cavity on the roof plate, it is convenient for ventilation and heat dissipation, which is conducive to improving the utilization rate of refrigeration equipment in the house and is more energy-saving and environmentally friendly.



21: 2024/05743. 22: 2024/07/25. 43: 2025/01/28
 51: B64C; B64D
 71: Changchun Institute of Technology, Jilin Sport University
 72: LIU, Hongxi, WANG, Hongyan, WANG, Chaoyong, SU, Xiaoying, WANG, Chaoqun, PU, Pengshuai, YANG, Yixu, XU, Yanjuan, FU, Li'an, TANG, Chuqiao, ZHAO, Ziyi
54: POWER TRANSMISSION LINE DEFECT IMAGE SELECTIVE-SHOOTING METHOD
 00: -
 Disclosed is a power transmission line defect image selective-shooting method, including the following steps: S1: establishing a database; S2: setting a route according to a Beidou Navigation Satellite System; S3: performing model judgment; S4: performing data acquisition; and S5: determining an abnormal zone. Key components along the route of the trouble zone are detected and analyzed by means of a visible light image detection module and an infrared image detection module of the UAV

terminal, wherein the visible light detection module is configured to acquire visible light images, and the infrared detection module is configured to detect temperature imaging of the key components, judge whether there is abnormal heating of the key components, and recognize damaged key components. The mode of detection and recognition followed by selective shooting effectively reduces the quantity of pictures to be taken, so that the data redundancy is reduced, and the efficiency is improved.

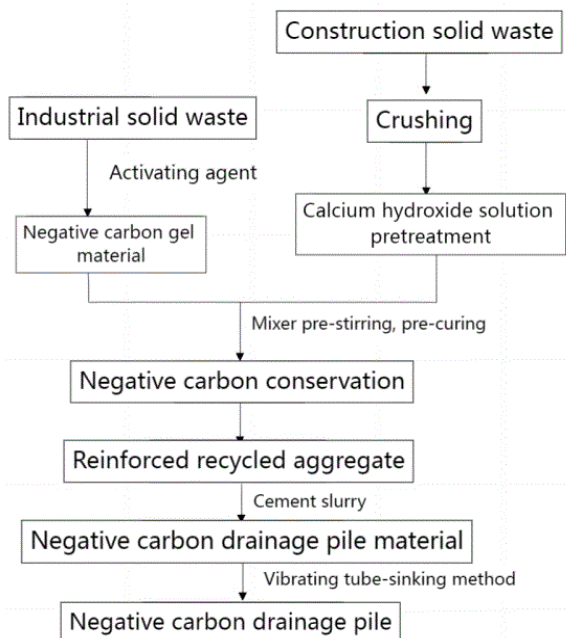


21: 2024/05744. 22: 2024/07/25. 43: 2025/01/28
 51: E02D
 71: CHINA FIRST HIGHWAY ENGINEERING GROUP CO., LTD, Nanjing Tech University, Nanjing Lvzhi Geotechnical Technology Co., Ltd.
 72: Leilei GU, Shengnian WANG, Zhijian WU, Haiyan JIANG, Jitao DAI, Jiancai HAO, Xingwang PENG

54: NEGATIVE CARBON REINFORCED RECYCLED AGGREGATE DRAINAGE PILE FOR LARGE PORE CEMENT STABILIZED INDUSTRIAL BUILDING SOLID WASTE AND PREPARATION PROCESS THEREOF

00: -
 The invention discloses a negative carbon reinforced recycled aggregate drainage pile for large pore cement stabilized industrial building solid waste and preparation process. The drainage pile is composed of negative carbon reinforced recycled aggregate, cement, and water according to the specific gradation and water-cement ratio design, which is formed by the vibration sinking pipe method, where the cement mixing ratio is 3 %-6 %, and the water-cement ratio is 0.30-0.35, after mixing the cement into the cement slurry, it is mixed with the negative carbon reinforced recycled aggregate to obtain the mixture, and the thickness of the aggregate wrapped

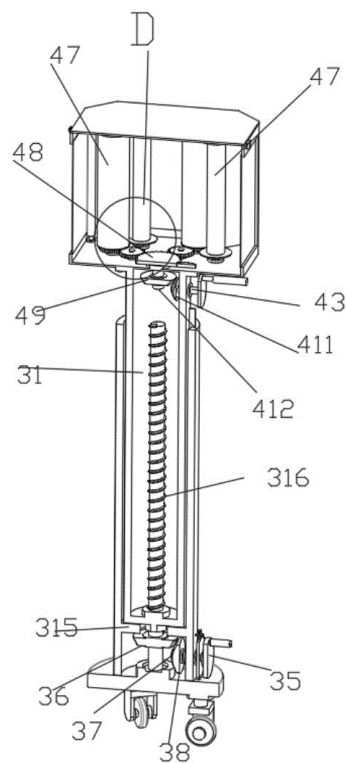
slurry is between 0.3mm-0.5mm. The negative carbon-reinforced recycled aggregate is obtained by pretreatment, wrap shell granulation, and carbon curing after pre-curing of the broken coarse aggregate of construction solid waste, the particle size of construction solid waste is between 9mm-16mm. The pretreatment is carried out by soaking in calcium hydroxide solution, and the wrap shell granulation is stirred by a mixer. The pre-curing condition is pre-curing at 50-60 °C for 2-4h, and then the aggregate carbon curing is carried out, the concentration of calcium hydroxide solution pretreated is between 0.01 mol/L and 0.05 mol/L, the wrap shell granulation is 70-80 parts of construction solid waste and 15-20 parts of negative carbon gel material, and the water-cement ratio of gel material is 0.25-0.30, so that industrial solid waste is wrapped in the surface layer of construction solid waste to form a 0.5mm-2.0mm thick protective layer. The negative carbon gel material is based on industrial solid waste as the precursor, alkali metal oxide or strong alkali weak acid mixture as the activator, it is mixed according to the proportion of 65 % -75 % industrial solid waste and 20 % -30 % activator.



54: TEACHING AID FOR MENTAL HEALTH EDUCATION

00: -

The invention discloses a teaching aid for mental health education, belonging to the technical field of mental health education. The upper end of the base is provided with an adjusting component for adjusting the height of the multi-directional exhibition component; the top of the adjusting component is provided with a multi-directional exhibition component for simultaneously displaying pictures in four directions; the multi-directional exhibition component comprises a polygonal box body, eight groups of winding rollers, a driving component, a synchronous rotating component, eight groups of detachable winding roller mounting components, eight groups of limiting flattening pieces and four groups of exhibition components. With the adoption of the teaching aid for mental health education, four faces can be displayed at the same time, which is beneficial for the educated to form a circle and watch in four directions at the same time during outdoor teaching, thus solving the problem that it is difficult to see clearly when one face is far away in the prior art, and the display effect is better.



21: 2024/05745. 22: 2024/07/25. 43: 2025/01/28
 51: G09B
 71: Chuzhou city Career Academy
 72: GU Lianlian, YANG Rujiang

21: 2024/05746. 22: 2024/07/25. 43: 2025/01/28

51: B65D

71: Nagaland University

72: P. Kiewhuo, L Jing (Don Bosco College Kohima), M C Rusta, L N Kakati (Downtown University), B. Ao, L Mozhui, V B Meyer Rochow (Department of Genetics and Physiology, Department of Ecology and Genetics, Oulu, Finland)

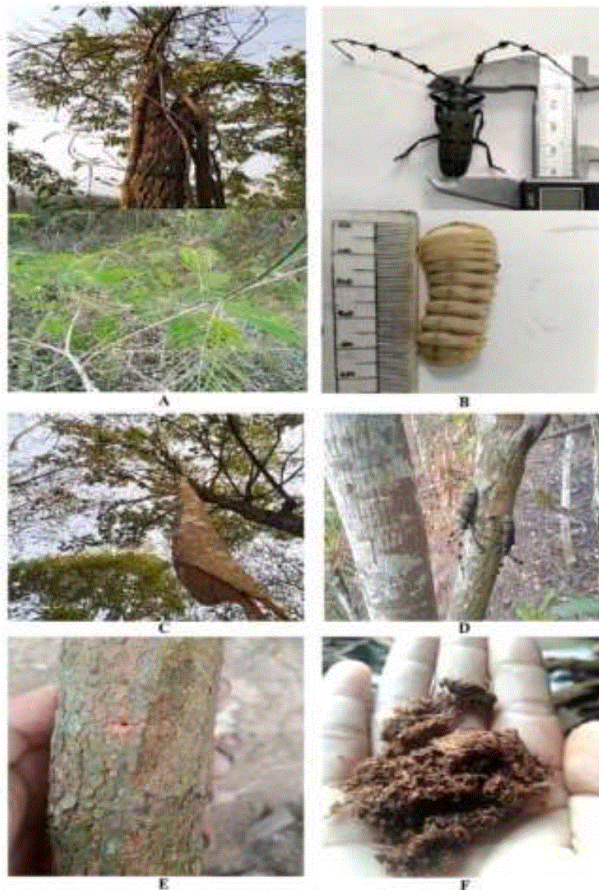
33: IN 31: 202431040905 32: 2024-05-27

54: SEMI-DOMESTICATION OF THE LONGHORN BEETLE THYSIA WALLICHII AND ITS NUTRITIVE VALUE

00: -

The larval stages are wood-borers, long horn beetles are typically regarded as pests that weaken or destroy trees. Nonetheless, some species are domesticated in Nagaland for their highly nutritious and exquisitely tasting larvae. The current study documents the conventional wisdom regarding the semi-domestication methods of *Thysia wallichii*.

Furthermore, the protein and lipid contents of the larvae were measured and found to be 56.18 ± 4.06 % and 5.51 ± 0.07 %, respectively. Not only are the species' larvae valued as food, but they also provide a living for nearby insect farmers. The market price for the larvae is INR 1000/kg.



21: 2024/05747. 22: 2024/07/25. 43: 2025/01/28

51: C09K

71: Henan University of Urban Construction

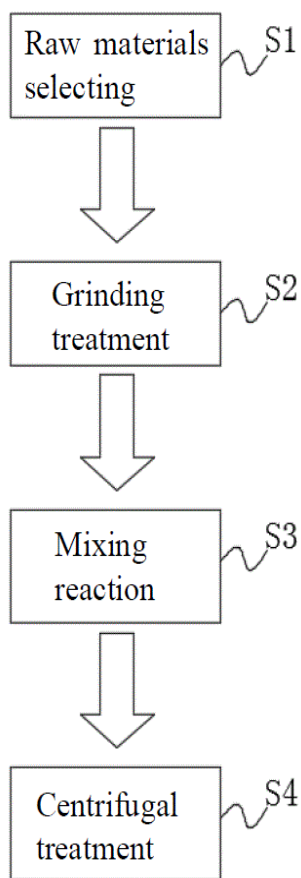
72: Geng Hongchao, Mao Yanli, Zhu Xinfeng, Kang Haiyan, Wang Chaohai, Song Zhongxian, Yan Xu, Huang Zhenzhen, Zhang Xia, Peng Rongfu, Chen Xiaoxu, Li Xiaolan, Yan Xiaole, Yan Yuzhang, Zhong Sijie, Shi Mengyao, Dong Yuting, Xu Linlang

54: NEW PREPARATION METHOD FOR TERNARY ALLOY TYPE CDSES QUANTUM DOTS

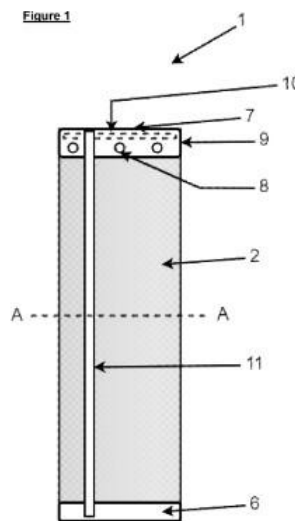
00: -

The present invention provides a new preparation method for ternary alloy type CdSeS quantum dots, including S1. raw materials selecting: select trialkylphosphine selenide, trialkylphosphine sulfide and trialkylphosphine oxide as raw materials; S2. grind treatment: carry out grinding treatment to trialkylphosphine selenide, trialkylphosphine sulfide and trialkylphosphine oxide by grinding equipment to form trialkylphosphine selenide powder, trialkylphosphine sulfide powder and trialkylphosphine oxide powder, and store each powder in a sealed container; S3. mixing reaction;

and S4. centrifugal treatment. The present invention relates to the technical field of industrial manufacturing of quantum dot materials, and has the advantages of simple, safe and stable preparation process, good repeatability and low cost. In the preparation process, after grinding the raw materials, particle sizes of the raw materials are smaller, a reaction can be more sufficient, a waste of the raw materials can be reduced, and at the same time, production quality of the quantum dots can be improved.



and configured for placement in a conventional borehole. The wall includes a high-tensile strength, liquid-impermeable inner layer (4), a woven, thermally-insulating middle layer (3) and a high tensile strength, liquid impermeable outer layer (2). The body further has an operatively leading end (6) and an operatively trailing end (7), with an opening located towards the trailing end (7) and suitably configured and dimensioned to enable loading of an explosive charge there through. The leading end (6) is closed off and arranged to retain an explosive charge while blocking the ingress of liquid and the corresponding contamination of such charge within the tubular body to limit sleeve failure prior to detonation.



21: 2024/05754. 22: 2024/07/25. 43: 2025/01/28
51: F42D

71: GLENCORE OPERATIONS SOUTH AFRICA (PTY) LIMITED

72: STENZEL, Gerhard Johann

33: ZA 31: 2022/04166 32: 2022-04-21

54: SLEEVE AND METHOD FOR THERMALLY-INSULATING A BLAST HOLE

00: -

A hot-hole, blasting sleeve (1) comprising a flexible, thin-walled, elongate body of composite material, defining an inner chamber (5), the body dimensioned

21: 2024/05755. 22: 2024/07/25. 43: 2025/01/29
51: C12N

71: CHINESE PLA GENERAL HOSPITAL

72: ZHANG, Cuiping, CHU, Ziqiang, MA, Liqian, FU, Xiaobing

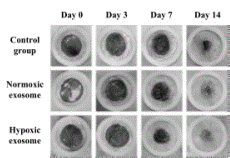
33: CN 31: 202310348957.4 32: 2023-04-04

54: HYPOXIA-INDUCED EXOSOME OF HUMAN UMBILICAL CORD MESENCHYMAL STEM CELLS, AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

Disclosed are a hypoxia-induced exosome of human umbilical cord mesenchymal stem cells, and a preparation method and application thereof. The present invention provides an exosome with high expression of miR-17-5p, and the exosome is secreted by hypoxia-induced human umbilical cord mesenchymal stem cells. High expression of miR-

17-5p can be achieved by preparing the exosome of human umbilical cord mesenchymal stem cells under hypoxic conditions. The expression quantity of miR-17-5p in the exosome with high expression of miR-17-5p is significantly higher than that in an exosome of human umbilical cord mesenchymal stem cells obtained by normoxia induction. The exosome is used for diabetic wounds, and a therapeutic effect thereof on the diabetic wounds is significantly better than that of the exosome prepared under normoxia conditions, which has not only advantages in healing speed, but also has greater application potential in stimulating regeneration of skin appendages and improving healing quality.

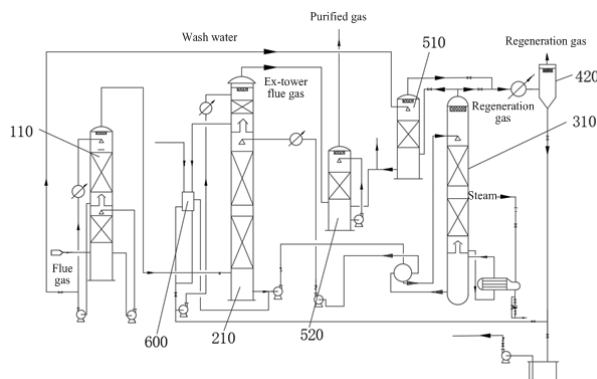


21: 2024/05756. 22: 2024/07/25. 43: 2025/01/29
 51: B01D; F23J
 71: Tongxing Environmental Protection Technology Co., Ltd
 72: Huang Zhongbin, Zheng Yong, Lv Wenbin, Ye Huang

54: WET CARBON CAPTURE PROCESS COUPLING WATER BALANCE CONTROL WITH UTILIZATION OF INTERNAL HEAT OF SYSTEM
 00: -

Disclosed is a wet carbon capture process coupling water balance control with utilization of internal heat of a system. The wet carbon capture process includes, in a sequential connection manner: a pretreatment unit, an absorption unit, a regeneration unit and a separation unit, where the separation unit is configured to decompose the regeneration gas that is in the regeneration unit into water and carbon dioxide; where the wet carbon capture process further includes a recovery unit that is arranged between the regeneration unit and the separation unit, the recovery unit includes a regeneration gas washing tower, a bottom gas inlet end of the regeneration gas washing tower is in communication with a regeneration gas outlet of the regeneration unit, and a top solution inlet end of the regeneration gas washing tower is in communication with an

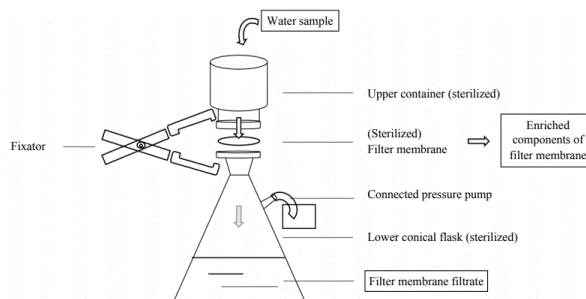
external circulation flow path of a cooling section of a pretreatment tower.



21: 2024/05773. 22: 2024/07/26. 43: 2025/02/07
 51: C12Q
 71: Jiangsu Academy of Agricultural Sciences
 72: XIE, Yajing, SCHMIDT, Stefan, LIU, Xianjin, LI, Dandi, DU, Xuefei, LI, Bin, HE, Xin, XU, Chongxin, LIU, Yuan, ZHANG, Cunzheng

54: METHOD FOR RAPIDLY DETECTING PATHOGENS IN AGRICULTURAL WATER
 00: -

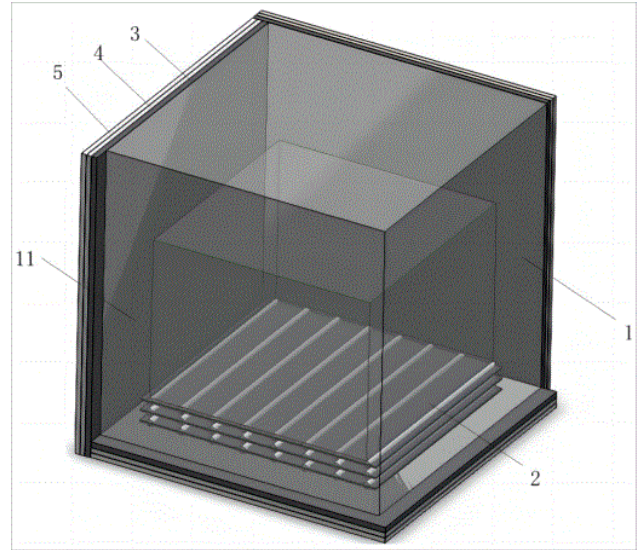
The present invention provides a method for rapidly detecting pathogens in agricultural water, which belongs to the technical field of detection of food-borne pathogens. The method provided by the present invention can enrich a plurality of common pathogenic bacteria and food-borne viruses in a water sample at the same time, such that rapid detection of the food-borne pathogens in agricultural water is realized.



21: 2024/05774. 22: 2024/07/26. 43: 2025/01/29
 51: E21B
 71: Northeastern University
 72: Zaobao LIU, Ming WU, Yu QIN, Xiating FENG, Chuan WANG, Xiwei ZHANG, Jianyu XU, Jiasong YANG, Yulong ZHANG, Xin WANG

54: A DEEP HIGH-TEMPERATURE THERMAL RESERVOIR SIMULATION SYSTEM THAT INTEGRATES 3D PRINTING TECHNOLOGY

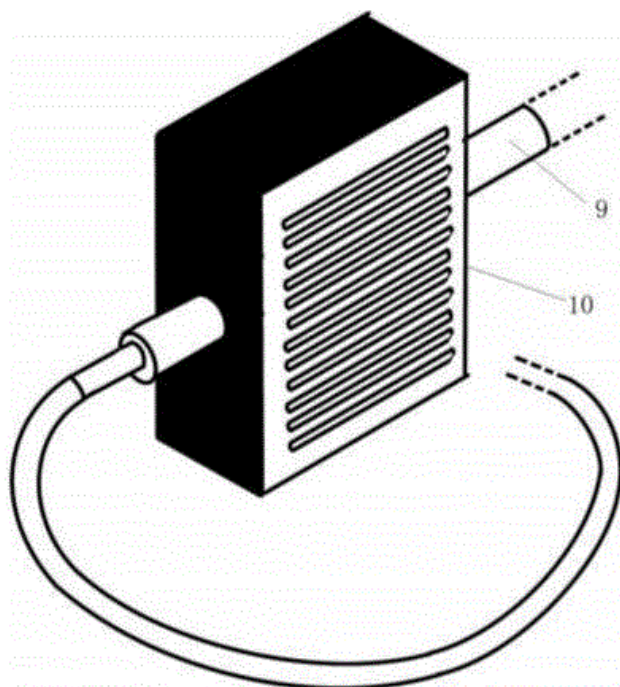
00: -
 The invention relates to a deep high-temperature thermal reservoir simulation system that integrates 3D printing technology, which involves the technical field of large-scale similar physical model simulation system. The invention uses 3D printing equipment to prepare a five-meter-level similar physical model to simulate the deep high-temperature rock mass, the deep high-temperature rock mass is simulated by heating the five-meter-level similar physical model with a heating component from the bottom, so as to provide a high-temperature environment with a maximum heat preservation time of 6 months and a highest temperature of 400 centigrade for the five-meter-level similar physical model and simulate the application of the geothermal gradient in the true environment. At the same time, the prefabricated fiber bragg grating sensor, the high-temperature resistant temperature sensor and strain sensor are used to monitor the strain, stress and temperature of each point in the five-meter-level similar physical model under the deep high-temperature thermal reservoir environment. Therefore, it provides a nearly true thermal environment for the subsequent geothermal injection-production fracturing experiment based on a five-meter-level similar physical model.



21: 2024/05777. 22: 2024/07/26. 43: 2025/01/29
 51: E04G

71: Wuhan Polytechnic University
 72: MA Yuxi, LIU Zijun, LI Junjie, LIU Songlin, ZHENG Zhongyi, SHU Feng
 33: CN 31: 202311273948.X 32: 2023-09-28
54: HEAT DISSIPATION AND WEAR-RESISTANT DEVICE FOR CONCRETE VIBRATING ROD

00: -
 The present application relates to the technical field of concrete vibrating, and provides a heat dissipation and wear-resistant device for a concrete vibrating rod. The concrete vibrating rod includes a flexible pipe, and the flexible pipe includes a flexible shaft and a steel strip; the heat dissipation wear-resistant device includes a heat sink, a heat insulation layer coated on the outer side of the flexible shaft, an wear-resistant and ageing-resistant layer coated on the outer side of the thermal insulation layer; a wear-resistant part, movably sleeved on an outer side of the wear-resistant and aging-resistant layer; a heat absorption section of pulsating heat pipe, arranged in a gap between the wear-resistant part and the wear-resistant and aging-resistant layer; a heat insulation section of the pulsating heat pipe, arranged at an outer side of the heat absorption section of the pulsating heat pipe, the outer side of the heat insulation section of the pulsating heat pipe is coated and connected with a steel strip, and the pulsating heat pipe radiating sections are distributed in a radiator. Through the pulsating heat pipe and the radiator, the heat generated by the internal parts of the vibrating rod during operation is absorbed and discharged, reducing the possibility of heat accumulation generated inside the flexible pipe, so that the vibrating rod is always maintained in a safe and efficient working state.



the index scores obtained from Steps (1)-(5) to get the total index score. When the total index score is less than 35, collapse is not possible; When the total index score is less than 50 and greater or equal to 35, it is not easy to collapse; When the total index score is less than 70 and greater or equal to 50, it is very easy collapse; When the total index score is greater or equal to 70, it is prone to collapse. The method of the invention can predict the risk of karst ground collapse in advance so that preventive measures can be taken in advance to reduce the harm and loss caused by karst ground collapse.

21: 2024/05779. 22: 2024/07/26. 43: 2025/01/29
51: C01B

71: Zhaoqing Tianying Biotechnology Co., Ltd.
72: Meiqing Liang, Zhuguang He, Yongquan Liang
33: CN 31: 202322043488.3 32: 2023-08-01

54: FLOW-CONTROLLED HIGH-ACTIVITY SELENIUM PRODUCTION DEVICE

00: -

The invention discloses a high-activity selenium production device with controllable flow. Inside the evaporation chamber, a limit block is fixedly installed, and at the bottom of the limit block, a heating tube is fixedly installed. On the right side of the heating tube, a protective layer is fixedly installed. The top of the evaporation chamber is equipped with an air outlet, inside of which a fixed block is installed. On the left side of the fixed block, a coarse filter mesh is fixedly installed, and on top of the coarse filter mesh, a fine filter mesh is fixedly installed. At the top of the air outlet, a connection valve head is fixedly installed, and on top of the connection valve head, a valve body is fixedly installed. On the top of the valve body, a gas pipe is fixedly installed, which facilitates the control of gas discharge. On the left side of the top of the evaporation chamber, a feed inlet is provided, and at the top left side of the feed inlet, a storage chamber is fixedly installed. On the left side of the feed inlet, a motor is fixedly installed, and on the right side of the motor, a rotating rod is fixedly installed, increasing the safety of production.

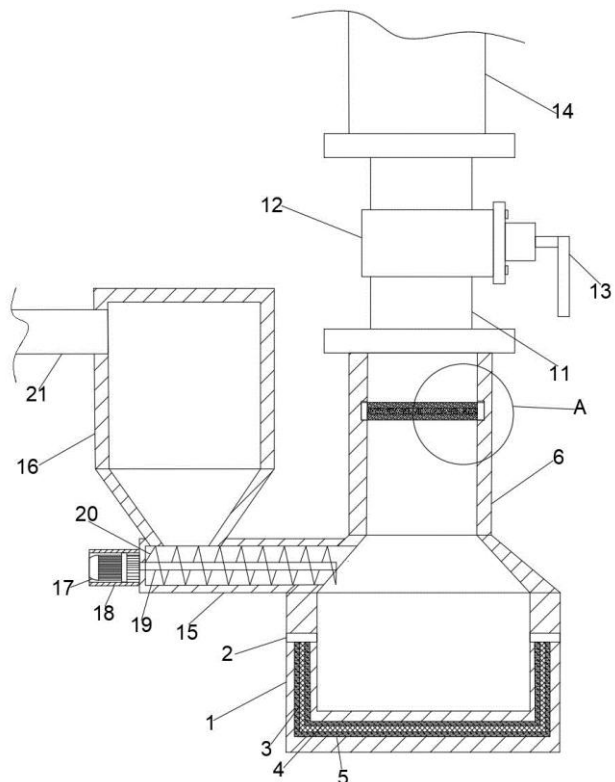
21: 2024/05778. 22: 2024/07/26. 43: 2025/01/29
51: G06F

71: Yunnan Hongkai Investment Co., Ltd., Yunnan Geological Engineering Survey and Design Research Institute Limited Company, Kunming University of Science and Technology
72: Shengdong Huang, Xingyong Han, Feng Pan, He Chang, Yongfeng Yan, Jie Lv, Guangshu Yang, Xiaojun Zheng, Li Zhou, Jiaorong Hu, Ruyan Li, Han Zhou

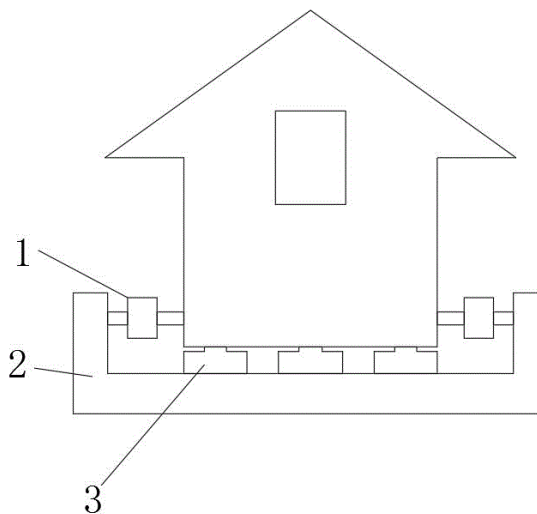
54: A FUZZY COMPREHENSIVE PREDICTION AND EVALUATION METHOD FOR KARST GROUND COLLAPSE RISK

00: -

The invention discloses a fuzzy comprehensive prediction and evaluation method for karst ground collapse risk, which belongs to the field of geological disaster monitoring. It includes the following steps: (1) Calculating the hydraulic gradient and get the index score according to the hydraulic gradient; (2) Determining the lithology and structure of the overburden, and we can obtain the index scores according to the lithology and structure of the overburden; (3) Determining the thickness of the cover layer, and we can obtain the index scores according to the thickness of the cover layer; (4) Determining the karst landform and get the index score according to the karst landform; (5) Calculating the linear karst rate and get the index score according to the linear karst rate; (6) Adding



effectively mitigate the vibrations of the entire device, thereby enhancing the safety of the building.



21: 2024/05780. 22: 2024/07/26. 43: 2025/01/29
51: E04B

71: Nanchong Vocational and Technical College
72: Yong Zhang

54: AN EARTHQUAKE-RESISTANT BUILDING DESIGN STRUCTURE

00: -
The present invention relates to the technical field of building structures and discloses an earthquake-resistant building design structure, comprising a device base. The inner side of the device base is equipped with a side damping device, and the top of the device base is equipped with several base damping devices. The top of the base damping devices supports the main building structure. The side damping device includes a side connecting ring, which is fixedly connected to a connector. The connector is a funnel-shaped fixed body. The side of the connector is equipped with an eighth connecting device, which is movably connected to the connector. The side of the eighth connecting device is fixedly connected to a middle connecting plate. The side of the middle connecting plate is equipped with a spring, which is fixedly connected to a rear connecting plate. The side damping device and the base damping device work together to more

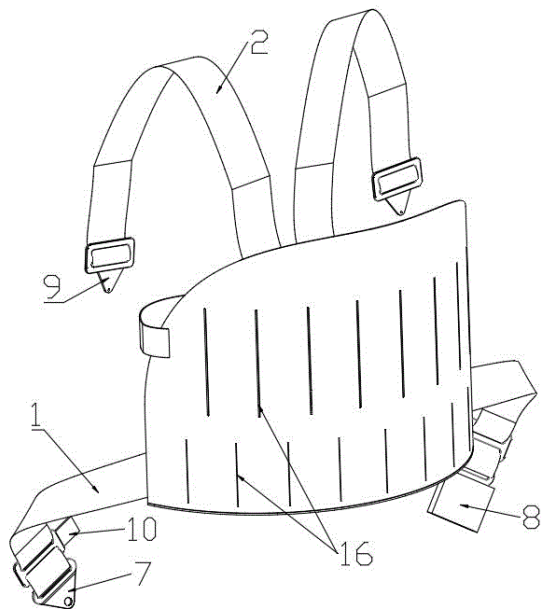
21: 2024/05781. 22: 2024/07/26. 43: 2025/01/29
51: A61F

71: Beijing Changping District Hospital of Integrated Traditional Chinese and Western Medicine
72: Mingzhu Xu, Zeqi Yang, Jinbao Yang, Yusheng Yang, Xiaohan Chen, Xiaojun Chen

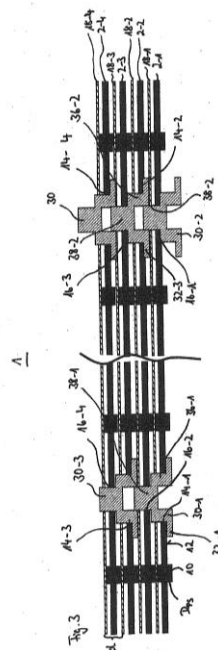
54: MULTIFUNCTIONAL NEWBORN KANGAROO-STYLE CARRIER

00: -
The invention discloses a multifunctional newborn kangaroo-style carrier, comprising a detachably connected waist carrier and shoulder carriers, wherein a newborn supporting part is connected to a front side of the waist carrier, and a newborn wrapping and covering part is vertically connected to a rear side of the newborn supporting part; two sides of the newborn wrapping and covering part are fixedly connected to the waist carrier, and two sets of auxiliary belts are fixedly connected at a top of the newborn wrapping and covering part, and inner ends of the two sets of auxiliary belts are fixedly connected to the shoulder carriers; two sets of extension holes are provided on the newborn supporting part to facilitate the extension of the newborn's legs. The invention can create a kangaroo-like wrap around the newborn through the structure mentioned hereinabove to increase the newborn's sense of security during the embracing process; moreover, the combination of multiple structures such as the newborn supporting part and the newborn wrapping and covering part can provide

sufficient space for the newborn, it has a good supporting effect on the newborn and prevents the newborn from squeezing the mother during use of the carrier.



extends through at least a first electric plate (2), a first insulating layer (18), a second electric plate (2) and a second insulating layer (18).



21: 2024/05785. 22: 2024/07/26. 43: 2025/01/29
51: H01M
71: POWERCELL SWEDEN AB
72: MUNTHE, Stefan, FLINK, Johan, VELÉN, Robin
33: SE 31: 2250133-2 32: 2022-02-10

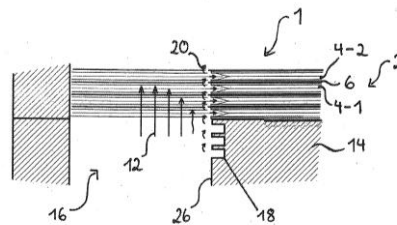
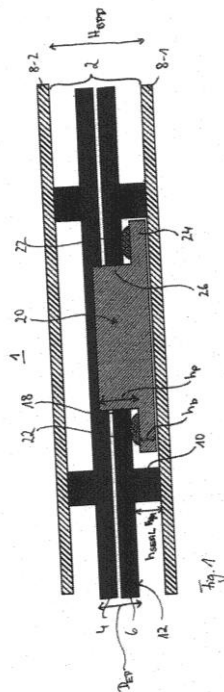
54: ALIGNMENT DEVICE FOR AN ELECTRIC CELL STACK, PARTICULARLY A FUEL CELL STACK

00: -
Disclosed is an electric cell stack (1) comprising at least a plurality of electric plates (2) and a plurality of insulating layers (18), wherein the stack of the plurality of electric plates (2) and insulating layers (18) are alternately stacked in such a way that the electric plates (2) are separated by insulating layers (18), and the electric plates (2) and/or the insulating layers (18) are aligned to each other, wherein each electric plate (2) has a first alignment through hole (14) and a second alignment through hole (16), wherein at and/or in the alignment through holes (14; 16) inner alignment elements (30) are provided for aligning the electric plates (2) and the insulating layers (18), wherein each inner alignment element (30) has a base plate (32) and an adjusting portion (34) protruding from the base plate (32), wherein the adjusting portion (34) of one alignment element (30)

21: 2024/05786. 22: 2024/07/26. 43: 2025/01/29
51: H01M
71: POWERCELL SWEDEN AB
72: MUNTHE, Stefan, FLINK, Johan, VELÉN, Robin
33: SE 31: 2250131-6 32: 2022-02-10

54: VOLTAGE MONITORING DEVICE FOR AN ELECTRIC STACK, PARTICULARLY FOR A FUEL CELL STACK

00: -
Disclosed is an electric cell stack (1) comprising a plurality of electric plates (2; 4) sandwiching insulation layers (8), wherein at least one of the plurality of electric plates (2; 4) a voltage monitoring element (20) for monitoring a voltage of said electric plate (2; 4) is arranged, wherein said at least one electric plate (2; 4) at which the electric voltage monitoring element (20) is arranged has at least one through hole (18; 19), wherein at and/or in the through hole (18; 19) the voltage monitoring element (20) is arranged.



21: 2024/05787. 22: 2024/07/26. 43: 2025/01/29
51: H01M

71: POWERCELL SWEDEN AB

72: STENEBY, Bengt

33: SE 31: 2250134-0 32: 2022-02-11

54: FUEL CELL STACK

00: -

A fuel cell stack (1) is provided, comprising a plurality of unit fuel cells (2) stacked in a stacking direction (8), wherein the fuel cells (2) are sandwiched by a cover plate (28) and a feeding plate (14), wherein the feeding plate (14) comprises a reactant supply channel (16) and a reactant outlet, and the cover plate (28) covers the fuel cell stack (1), wherein a turbulence element (18) is arranged in the reactant stream creating at least one turbulence in a flow (12) of the supplied fluid, wherein the turbulence element (18) is arranged in an area of the feeding plate (14), where the reactant streams in stacking direction (8), and/or at an area of the cover plate (28) which is perpendicular to the stacking direction (8), where the reactant streams perpendicular to the stacking direction (8).

21: 2024/05806. 22: 2024/07/29. 43: 2025/02/04

51: A61M

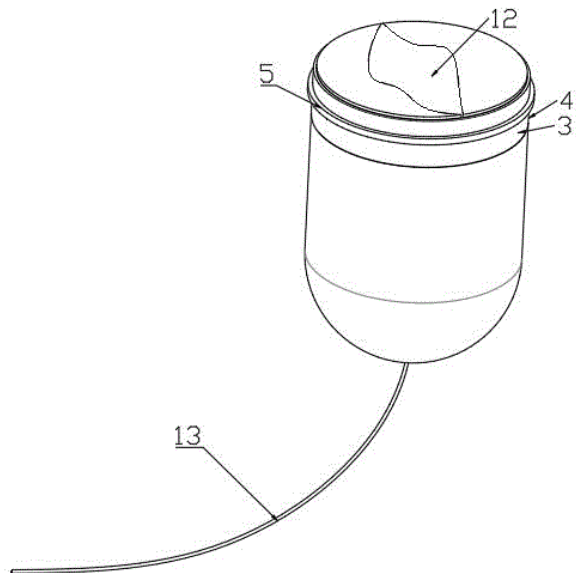
71: Bei'an First People's Hospital

72: Yuxin Liu, Zhijie Qu

54: STOOL COLLECTOR

00: -

A stool collector comprises a stool collection cavity, wherein a protective film is wrapped around an outer surface of the stool collection cavity; a top end of the protective film is close to a top opening of the stool collection cavity; a limiting component is detachably connected to a top end of the stool collection cavity; an inflatable airbag strip is provided on a circumferential surface of the limiting component to prevent the stool collection cavity from falling off. The invention adopts a stool collector to collect stool to ensure no stool moisture loss which may cause cell damage during collection, ensuring accuracy during the stool test. The limiting component and the inflatable airbag strip are detachably connected to the top end of the stool collector. The structural setting of the airbag strip can effectively prevent the stool collector from falling off during use, which is beneficial to the stool collection of the stool collector.



21: 2024/05807. 22: 2024/07/29. 43: 2025/02/04

51: A01B

71: Chifeng Agricultural and Animal Husbandry Science Research Institute

72: Zeran Kang, Yunshan Wei, Xiaolei Wang, Yushan Zhao, Yingchun Liu, Zhihui Cui, Xuechao Zhou, Haibo Hu, Qingyan Zhang, Bin Zhang, Pengyu Fu

54: SOWING METHOD FOR EFFICIENT PLANTING OF BEANS

00: -

The invention provides a sowing method for efficient planting of beans, belonging to the technical field of planting and sowing methods, comprising the following steps: S1. high-quality seeds selection; S2. soil preparation: beans prefer fertile and well-drained soil; deeply till the soil before sowing and add appropriate amount of organic fertilizer to improve soil fertility; S3. sowing time: according to the growth cycle of beans and local climatic conditions, choose the appropriate sowing time, adopt the appropriate sowing method and sowing depth for sowing; S4. watering management: keep the soil moist after sowing, but avoid waterlogging; S5. thinning and final singling: after the seedlings grow out, thin out the seedlings according to the growth of the plants and maintain an appropriate spacing between plants. The invention effectively improves the growth efficiency and yield of beans and ensures the crop quality through the implementation of high-quality seed selection, reasonable soil preparation, scientific

sowing time and method, good watering management, appropriate thinning and final singling management, and effective disease and pest control.

21: 2024/05808. 22: 2024/07/29. 43: 2025/02/04

51: A61K

71: Junwei Liu

72: Junwei Liu

33: CN 31: 2024106841184 32: 2024-05-30

54: APHRODISIAC HEALTH-CARE MEDICINAL WINE

00: -

The invention discloses an aphrodisiac health-care medicinal wine, wherein the formula ratio is: 5 grams to 15 grams of cordyceps, 2 grams to 8 grams of velvet antler, 10 grams to 20 grams of ginseng, 5 grams to 20 grams of deer whip, 2 grams to 12 grams of Icariin, 2 grams to 5 grams of testiset penis phocae, 10 grams to 20 grams of safflower, 2 grams to 8 grams of Hippocampus, 6 grams to 16 grams of mink whip, 15 grams to 30 grams of male silkworm Goose essence powder, 2 grams to 10 grams of rabbit silk seeds, 8 grams to 16 grams of Eucommia ulmoides, 3 grams to 6 grams of Rosa laevigata Michx, 6 grams to 15 grams of Cistanche deserticola Ma, 15 grams to 30 grams of Curculigo orchioides Gaertn, 15 grams to 30 grams of Morinda officinalis, 6 grams to 12 grams of Polygala root, 10 grams to 30 grams of Schisandra chinensis, 2 grams to 9 grams of Polygonatum japonica, 2 grams to 8 grams of Cornus officinalis, 15 grams to 30 grams of Rehmannia glutinosa, 2 grams to 10 grams of Cynomorium, 3 grams to 9 grams of Cnidium monnieri, 8 grams to 16 grams of Leek seeds, 6 grams to 16 grams of flatstem milkvetch seed, 20 grams to 30 grams of Chrysanthemum, 2 grams to 8 grams of wolfberry, 3 grams to 10 grams of verbena, 10 grams to 20 grams of licorice, 5 grams to 10 grams of honeysuckle, 2 grams to 8 grams of Codonopsis pilosula, deep mountain wild honey. The formula of the aphrodisiac health-care medicinal wine has the advantages of rich ingredients, scientific proportions, rigorous production process, wide application range and good taste, and can comprehensively improve male sexual function and physical health.

21: 2024/05809. 22: 2024/07/29. 43: 2025/02/04
51: C22B

71: NEI MONGOL SHENGLONG DADI TECHNOLOGY CO., LTD

72: LI, Yuqiang

33: CN 31: 202410410713.9 32: 2024-04-08

54: METHOD FOR RECYCLING METAL MATERIALS FROM SPENT CARBON-SUPPORTED NOBLE METAL CATALYSTS BY USING IONIC LIQUIDS

00: -

The present invention provides a method for recycling metal materials from spent carbon-supported noble metal catalysts by using ionic liquids, which belongs to the technical field of noble metal recycling. According to the present invention, a polar organic solvent is utilized to soak the spent carbon-supported noble metal catalysts, such that organic pollutants in the spent carbon-supported noble metal catalysts can be dissolved, and the situation that a recycling rate of noble metals is affected due to existence of the organic pollutants can be prevented. According to the present invention, a particle size of the spent carbon-supported noble metal catalysts is reduced by means of ball milling, such that structures in the spent carbon-supported noble metal catalysts are opened, the noble metals embedded in the spent carbon-supported noble metal catalysts are prevented from failing to be fully released, and the recycling rate of the noble metals is further improved.

21: 2024/05810. 22: 2024/07/29. 43: 2025/02/04
51: A01N; E02F

71: INSTITUTE OF HYDROGEOLOGY AND ENVIRONMENTAL GEOLOGY, CHINESE ACADEMY OF GEOLOGICAL SCIENCES

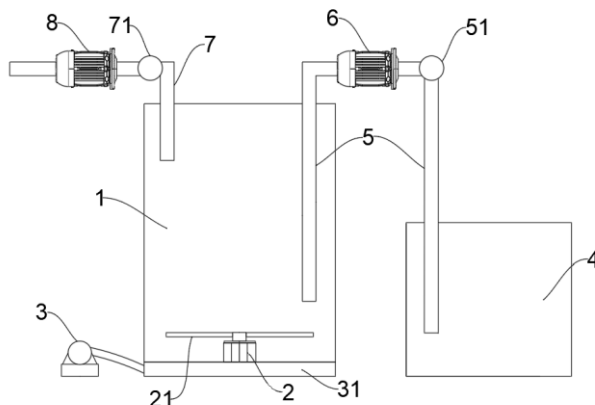
72: CHEN, Hongyun, LIU, Xinlei, LIU, Junjian, YANG, Jingyi

54: SIMPLE AND RAPID PROCESSING DEVICE USED FOR GRADING SOIL PARTICLE SIZE

00: -

The present disclosure discloses a simple and rapid processing device used for grading soil particle size, which involves the technical field of soil treatment devices. It includes an extraction mechanism, a separation mechanism and a collection mechanism set in turn, a water inlet end of the extraction mechanism extends into the separation mechanism, a water outlet end extends into the collection

mechanism, the bottom of the separation mechanism is sequentially equipped with an aeration device and a stirring device from top to bottom, to accelerate the separation process. In the present disclosure, after the turbid liquid of soil samples is stirred, aerated and settled in the separation mechanism, the extraction mechanism extracts the upper liquid to the collection mechanism, continuing to add water to the separation mechanism, after stirring, aeration and settling again, the upper liquid is extracted to the collection mechanism again until the upper liquid in the separation mechanism is no longer turbid, that is, the small particulate matter in the turbid liquid of the soil samples are all extracted; and the whole processing process is not affected by the cementation in the process of soil formation of the samples and is not affected by the accuracy of the device, the sample processing speed is fast, the precision is high, and the cost is low.



21: 2024/05811. 22: 2024/07/29. 43: 2025/02/04
51: G06F

71: Institute Of Geology, Chinese Academy Of Geological Sciences

72: ZHANG, Bin, SUN, Jingbo, ZHAO, Shuangfeng, CHEN, Wen, TIAN, Pengfei, DING, Ruxin, SHEN, Ze, ZHANG, Wen, LI, Zhi, DU, Qiuyi

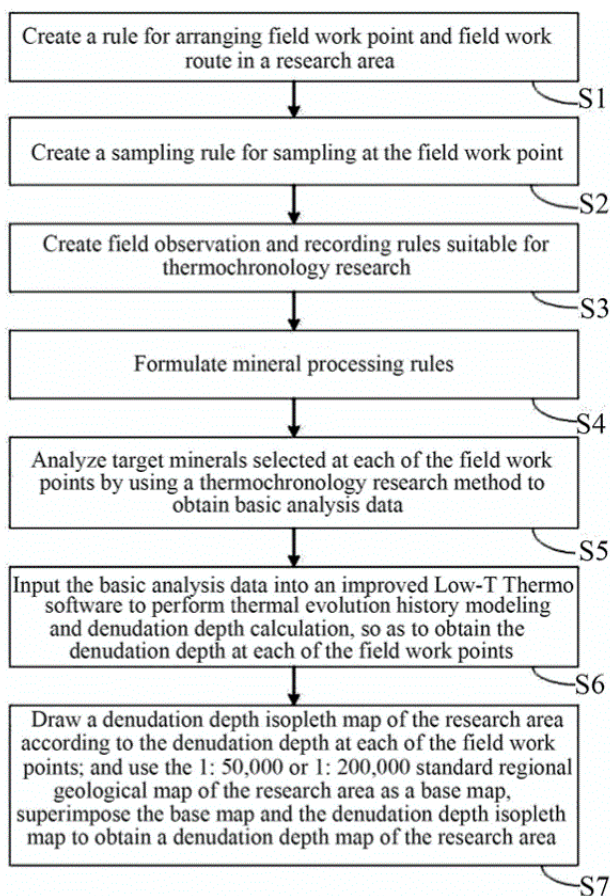
33: CN 31: 202311174354.3 32: 2023-09-13

54: LARGE-SCALE DENUDATION DEPTH THEMATIC MAPPING METHOD

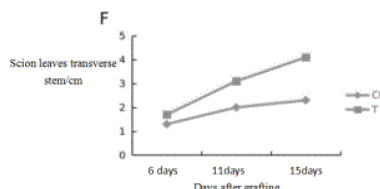
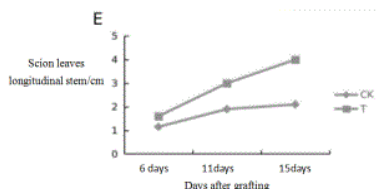
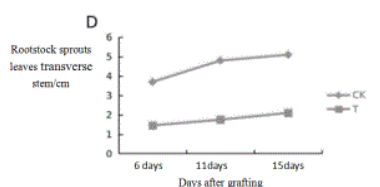
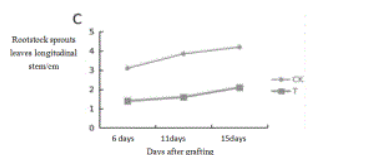
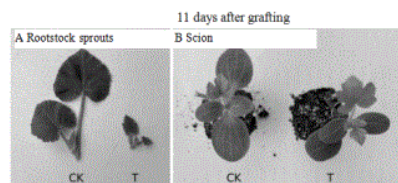
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Provided is a large-scale denudation depth thematic mapping method, which includes: creating a rule for arranging field work point and field work route, a sampling rule, a field observation and recording rule and a mineral processing rule of a research area; analyzing a target mineral selected at each field

work point by using a thermochemistry research method; inputting analysis data into an improved Low-T Thermo software to perform thermal evolution history modeling and denudation depth calculation, so as to obtain a denudation depth at each of the field work points; drawing a denudation depth isopleth map of the research area according to the denudation depth at each of the field work points; and setting a large-scale standard regional geological map of the research area as a base map, superimposing the base map and the denudation depth isopleth map to obtain a denudation depth map of the research area.



The invention discloses a medicament for inhibiting sprouts regeneration of grafted watermelon rootstock, and belongs to the technical field of plant grafting. The effective components of the medicament provided by the invention include pendimethalin, flumetralin, brassinolide and potassium phosphite; the concentrations of pendimethalin, flumetralin, brassinolide and potassium phosphite are 37.13-41.28 μ L/L/L, 2.06-2.63 mg/L, 0.1-0.5 mg/L and 0.3mL/L in turn. By using the medicament provided by the invention, the times of manually removing sprouts after grafting can be reduced, the labor input can be reduced, the grafting survival rate of watermelons can be improved, the nutritional competition can be reduced, the growth of scions can be promoted, the seedling raising efficiency can be improved, and the foundation for obtaining high-yield and high-quality watermelons can be laid.



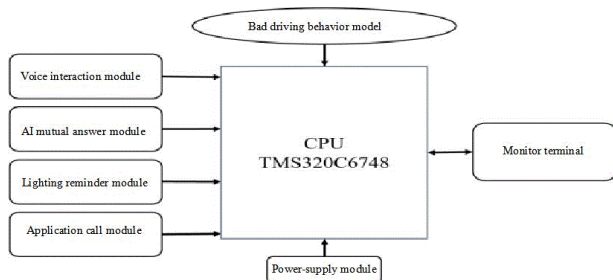
21: 2024/05812. 22: 2024/07/29. 43: 2025/02/04
 51: A01G
 71: Weifang Academy of Agricultural Sciences
 72: YANG Xiaodong, SUN Shasha, HAN Lujie, SUN Jifeng, ZHANG Yuanguo, LI Na, WANG Jin
54: MEDICAMENT FOR INHIBITING SPROUTS REGENERATION OF GRAFTED WATERMELON ROOTSTOCK
 00: -

21: 2024/05813. 22: 2024/07/29. 43: 2025/02/04
51: G06K

71: Henan University of Urban Construction
72: WANG Yuhua, LIN Mengyang, PU Jinbiao, LI Aizeng, HU Guoping, JIAO Shuaiyang, LIU Anqi

54: DRIVER MONITORING SYSTEM BASED ON DEEP LEARNING

00: -
The invention provides a driver monitoring system based on deep learning, which comprises a monitor terminal used for collecting driving behavior image data; Driving behavior identification means for identifying the driving behavior image data; the warning device is used for warning and reminding when bad driving behavior is identified. The invention can provide more comprehensive and accurate fatigue monitoring and personalized driving assistance.



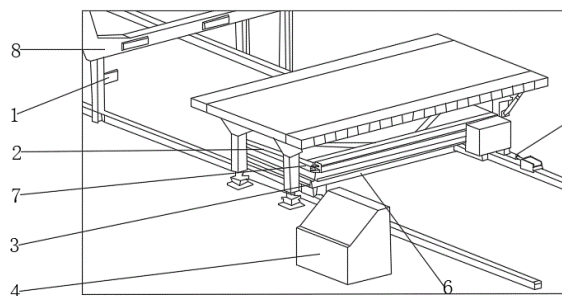
21: 2024/05814. 22: 2024/07/29. 43: 2025/02/04
51: G01D

71: Jiangsu Senmiao Engineering Quality Testing Co., Ltd

54: HIGH-PRECISION AUTOMATIC ADJUSTMENT DETECTION DEVICE FOR SEGMENTAL BEAMS

00: -
The invention provides a high-precision automatic adjustment and detection device for segmental beams, which relates to the technical field of bridge construction, and includes a high-precision laser sensor, a three-dimensional adjustment trolley, a hydraulic system, a hydraulic automatic control system and a bench body. In the invention, the high-precision laser sensor is used by an external measuring robot to automatically track the target measurement, and the coordinates of the control points are compared with the design coordinates by detecting the control points on the beam conveyed on the three-dimensional adjustment trolley, and the coordinate deviation is observed, and when the

coordinate deviation is within the allowable range, the measurement is finished. When the coordinate deviation exceeds the allowable range, the external measuring robot transmits data to the hydraulic automatic control system, and the hydraulic automatic control system starts to control the first hydraulic cylinder, the second hydraulic cylinder and the third hydraulic cylinder to work. At the same time, the high-precision laser sensor monitors the template adjustment and transmits the monitoring data to hydraulic automatic control system. When the coordinate deviation meets the requirements, it can stop working.



21: 2024/05816. 22: 2024/07/29. 43: 2025/02/04
51: H01L

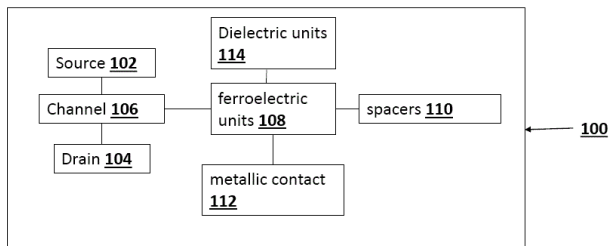
71: Malvika, Vivek Kumar, Dr. Bijit Choudhuri, Dr. Kavicharan Mummaneni, Dr. Puspa Devi Pukhrabam

72: Malvika, Vivek Kumar, Dr. Bijit Choudhuri, Dr. Kavicharan Mummaneni, Dr. Puspa Devi Pukhrabam

54: 3-DIMENSIONAL CYLINDRICAL FERROELECTRIC BASED NEGATIVE CAPACITANCE GATE-ALL-AROUND FET SILICON-NANOWIRE DEVICE FOR LOW POWER APPLICATIONS

00: -
A 3-Dimensional cylindrical ferroelectric based negative capacitance gate-all-around FET (NC-GAA FET) silicon-nanowire device (100), comprises of: a source (102); a drain (104); a channel (106) sandwiched between the source (102) and drain (104) sideways; a ferroelectric unit wrap around the channel (106) for introducing the NC effect, such that the ferroelectric unit wrap around the channel (106); a dual pair of spacers (110) made up of a dielectric material, wherein each pair of spacers (110) sandwiches the ferroelectric units (108); and a

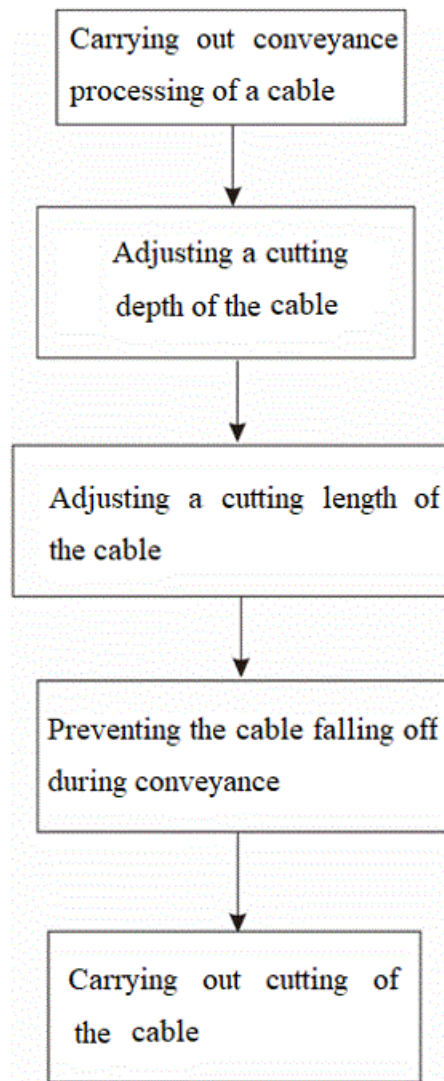
metallic contact (112), wherein the ferroelectric unit (108) is inserted between the insulators (110) and the metallic contact (112), wherein the channel (106) is boron doped while the source and drain are arsenic doped, wherein a 3 nm thin hafnium oxide is used as spacer on both sides of device.



21: 2024/05817. 22: 2024/07/29. 43: 2025/02/04
 51: H02G
 71: Sichuan Huaneng Jialingjiang Hydropower Co., Ltd.
 72: Yang YANG, Ping CHEN, Duanxi WANG, Xiwang ZHONG, Hao WANG
 33: CN 31: 2023112331786 32: 2023-09-22
54: HANDHELD CABLE CUTTING METHOD AND DEVICE THEREOF

00: -
 The present disclosure provides a handheld cable cutting method and a device thereof. The method includes: carrying out conveyance processing of a cable; adjusting a cutting depth of the cable; adjusting a cutting length of the cable; preventing the cable falling off during conveyance; and carrying out cutting of the cable. The present disclosure has the following beneficial effects. Through the arrangement of a cutting adjustment unit and a collecting unit, a driving component is started to drive a cutting component to rotate, so that the cable enters inside the cutting component under the limit of a guide component and is evenly cut off before being conveyed out of the device for usage. By rotating an adjustment component, the cable length to be cut off by the cutting component is adjusted depending on different usage scenarios. The adjustment of the cutting component can adjust the cutting length, which is convenient to cut different diameters of cables and adjust the cutting of the insulating layer on the outer surface of the cable, to facilitate subsequent wire connection. The accuracy of cutting is improved. Through the arrangement of a collecting component, the cables that are conveyed out and the insulating layers on the surfaces of the

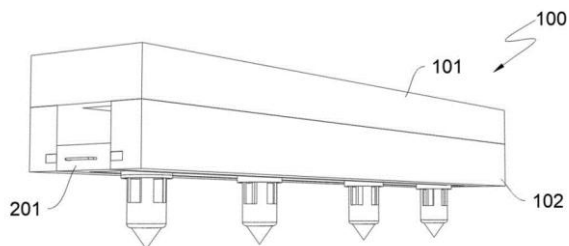
cables are preliminarily gathered. A cable placement component is convenient to place the processed cables, for subsequent usage.



21: 2024/05818. 22: 2024/07/29. 43: 2025/02/04
 51: G01D
 71: Sichuan Huaneng Kangding Hydropower Co., Ltd.
 72: Yazhou LI, Zhipeng SONG, Xiaoming LI
 33: CN 31: 2024103360407 32: 2024-03-22
54: DEVICE FOR DETECTION OF RESERVOIR SEDIMENT ACCUMULATION

00: -
 The present disclosure relates to the technical field of devices for detection of reservoir sediment accumulation, more particularly to a device for detection of reservoir sediment accumulation. The

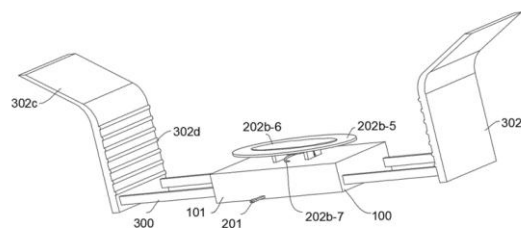
device includes: a limiting mechanism including a first track, a second track fixedly connected to the first track and a moveable trolley arranged on the first track; and a sampling mechanism including an engaging track connected to an interior of the second track and sampling cylinders engaged with the engaging track. The moveable trolley has a bottom connected with a telescopic component through a motor. The first track is internally formed with a first track groove. The moveable trolley drives the telescopic component to move along the first track, so that the telescopic component drives the sampling cylinder to move downward to sample sediments, meanwhile a color display window of the sampling cylinder is marked with a color to distinguish sampling cylinders of different depths, whereby to learn the depths of the collected samples inside different sampling cylinders and to facilitate analysis of the sediment samples of different depths, thus to assist in works such as formulating of sediment cleaning plans.



21: 2024/05819. 22: 2024/07/29. 43: 2025/02/04
 51: G01K
 71: Sichuan Huaneng Baoxinghe Hydropower Co., Ltd.
 72: Jiangtao LIU, Bo ZHOU, Dehang SHI, Chifei ZHANG, Xing LAI, Hongyu WU, Zuorui LI
 33: CN 31: 2023110953027 32: 2023-08-28
54: METHOD FOR VERIFICATION OF ACCURACY OF SENSOR SIGNAL SOURCE AND TEMPERATURE MEASUREMENT DEVICE THEREOF

00: -
 The present disclosure relates to the technical field of power plants, more particular to a method for verification of accuracy of a sensor signal source and a temperature measurement device thereof. The method includes: outputting an on-off signal and an analog signal to a sensor through a signal acquisition device respectively; measuring comprehensive data information of the sensor

through the signal acquisition device; conducting a corresponding comparative analysis between the comprehensive data information collected by the signal acquisition device and the signal output by the signal acquisition device, to obtain the accuracy of the sensor signal source. The present technical solution is mainly applied to the signal acquisition and maintenance of a PLC in a river basin power station, which outputs an analog signal to the PLC and then measures the comprehensive data information of the PLC, and finally conducts a comparative analysis between the signal output to the PLC and the measured PLC signal to obtain the signal source accuracy of the PLC. The whole process is fully automated, with both high measurement efficiency and high accuracy, which is less prone to errors. It has a wide range of application scenarios.

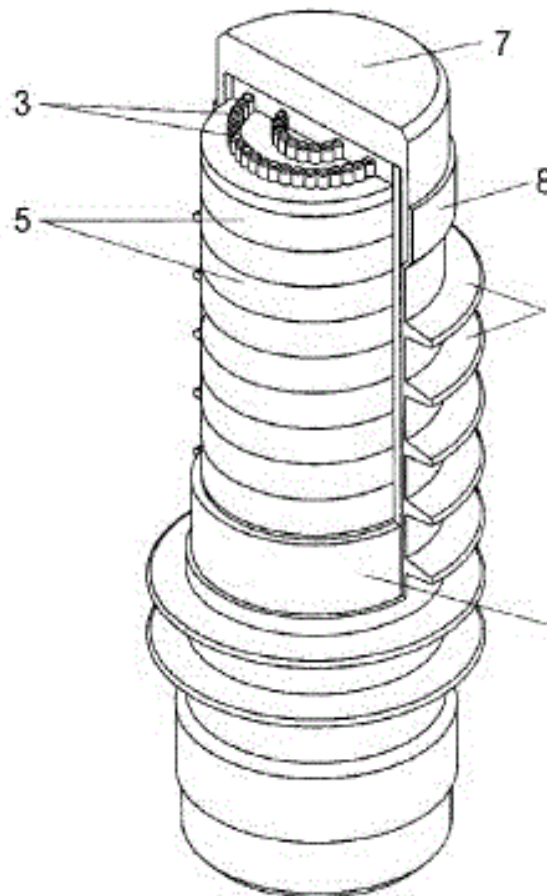
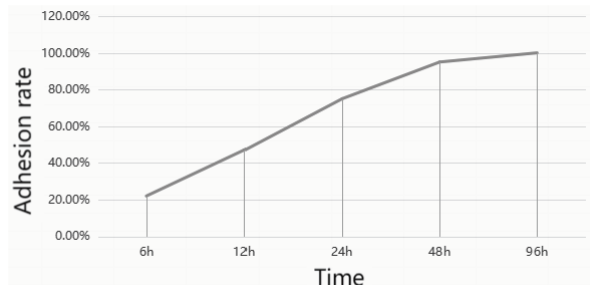


21: 2024/05820. 22: 2024/07/29. 43: 2025/02/04
 51: C07K
 71: ECOLOGY AND NATURE CONSERVATION INSTITUTE, CHINESE ACADEMY OF FORESTRY
 72: LI, Yongxia, WANG, Xuan, WEN, Xiaojian, LIU, Zhenkai, FENG, Yuqian, ZHANG, Wei, LI, Dongzhen, ZHANG, Xingyao

54: CULTURE OF ESTEYA VERMICOLA AND ITS PREPARATION METHOD AND APPLICATION

00: -
 The present invention provides a culture of Esteya vermicola and its preparation method and application, the present invention belongs to the technical field of microbial science. The present invention provides a preparation method of a culture of Esteya vermicola, including the following steps: 1) configuring solid medium: mixing wheat bran, pine sawdust and glucose at a weight ratio of 6:3:1, adding 15% distilled water by weight to the mixture, and obtaining the solid medium after high pressure sterilization; and 2) culturing fungal strains: inoculating Esteya vermicola Fxy120 in the solid medium, adding 0.05-0.1% potassium dihydrogen

phosphate and 1-1.5% potato leaching solution by weight to the medium, culturing for 10~14d, adding 10 times the weight of water, after filtering, and taking the culture filtrate, to obtain the culture of *Esteya vermicola* Fxy120. The culture prepared by the present invention can produce a large number of adhesive lunate spores with a nematode-killing effect, which can prevent the infection of *Bursaphelenchus xylophilus*.



Фиг. 2

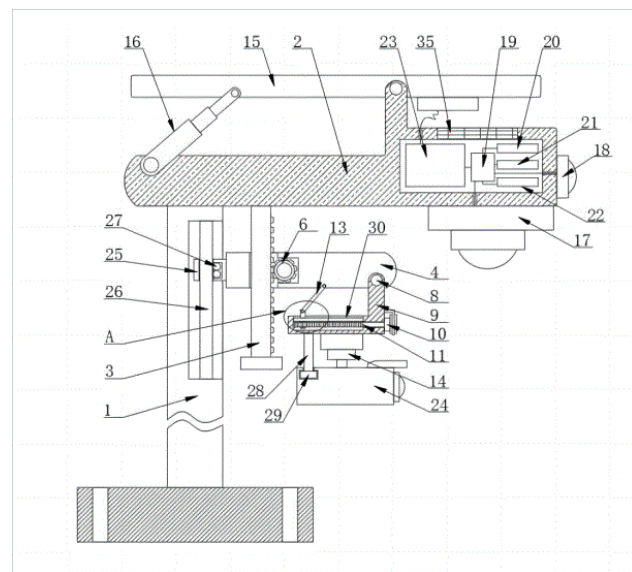
21: 2024/05833. 22: 2024/07/29. 43: 2025/02/05
 51: H01T; H02H
 71: STREAMER, ELECTRIC COMPANY INC.
 72: ENKIN, Evgenii Yurievich
 33: RU 31: 2021139441 32: 2021-12-28
54: SURGE PROTECTOR
 00: -

The invention is a surge protector comprising a housing and discharge modules. The discharge modules comprise insulating bodies and a plurality of electrodes arranged in said insulating bodies with the formation of discharge gaps between the electrodes. The discharge modules are arranged inside the housing and are electrically connected in series. The mechanical strength of the housing is greater than the mechanical strength of the discharge modules. The technical result of the invention is a reduction in the dimensions of the surge protector by comparison with surge protectors having equivalent voltage ratings.

21: 2024/05858. 22: 2024/07/30. 43: 2025/02/05
 51: G05B; H04N
 71: Sinosteel Ma'anshan General Institute of Mining Research Co., Ltd., (Ma'anshan) Intelligent Emergency Technology Co., Ltd. of China Iron and Steel Mining Institute
 72: Xiaozhou CHENG, Nan QIN, Jun LUO, Ping HU, Cai YU, Yun ZHANG, Dejun ZHOU, Meijie WANG, Qi HUANG, Jingwen DENG, Bokun CHEN, Shihu DING
54: AN INTELLIGENT INTEGRATED SUPERVISION PLATFORM FOR MINE SAFETY PRODUCTION
 00: -

The invention belongs to the field of mine safety production technology, which is an intelligent integrated supervision platform for mine safety production, comprising the main rod and the installation plate, the installation plate is fixedly connected with the top of the main rod, the bottom of the installation plate is fixedly connected with the

rack and pinion, the support plate is slidingly sleeved on the rack and pinion, the support plate is equipped with a port corresponding to the rack and pinion, the port is rotationally connected with the gear meshing with the rack and pinion through the rotating rod, one end of the rotating rod runs through the inner wall of the port and is fixedly connected with a knob, one end of the knob is slidingly inserted with a clamping mechanism, and the support plate is surrounded by a plurality of slots corresponding to the clamping mechanism, the bottom of the support plate is connected with an L-type fixed plate by rotating the shaft. The invention can monitor the mine production through the setting of the adjustable monitoring mechanism, and the monitoring mechanism can be adjusted freely according to the actual needs, thus effectively improving the use effect of the monitoring mechanism.



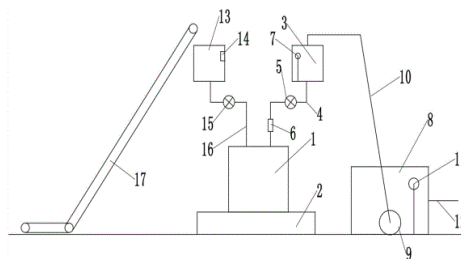
21: 2024/05859. 22: 2024/07/30. 43: 2025/02/07
51: B28C

71: Zhejiang University of Science And Technology
72: FENG, Keyu, CAI, Chenggang, FENG, Xi, YU, Aihua, SHI, Yang, RAO, Zhongwei

54: BATCH PRODUCTION APPARATUS FOR PEARL POWDER CELADON

00: -
Disclosed is a batch production apparatus for pearl powder celadon, relating to the technical field of pearl powder production devices. The batch production apparatus for pearl powder celadon includes a stirring cylinder, a weighing platform, a water storage tank, a water discharge pipe, a flow

control valve, and a flow meter, where the stirring cylinder is configured to contain pearl powder raw materials and water; the weighing platform is configured to bear the stirring cylinder; the water storage tank is fixedly arranged above the stirring cylinder and configured to store water; one end of the water discharge pipe is fixedly connected to and communicated with the water storage tank, and the other end of the water discharge pipe extends into the stirring cylinder; the flow control valve is provided on the water discharge pipe; the flow meter is provided on the water discharge pipe.



21: 2024/05861. 22: 2024/07/30. 43: 2025/02/05
51: B09C

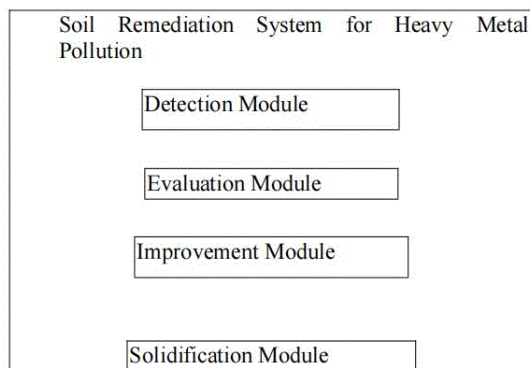
71: Sichuan University of Science and Engineering, Yibin Wuliangye Co., Ltd., SICHUAN ZHIXIANGYI TECHNOLOGY CO., LTD., Sichuan Bozhiduo Technology Co., Ltd., Zigong Zhishengxin Technology Co., Ltd

72: Chi-Hui Tsou, Ling Bai, Jian-Hua Du, Tao Yang, Li Lin, Yunsong Bai, Xuefei Hu, Chih-Yuan Tsou
33: CN 31: 202311143683.1 32: 2023-09-06

54: A COMPREHENSIVE SOIL REMEDIATION SYSTEM AND METHOD FOR MITIGATING HEAVY METAL POLLUTION IN CONTAMINATED ENVIRONMENTS

00: -
The invention relates to the field of pollution control technology, and discloses a comprehensive soil remediation system and method for mitigating heavy metal pollution in contaminated environments, which includes a detection module for comprehensive detection of polluted soil to determine the degree of pollution, types, and distribution of heavy metals, and to generate detection information to be sent to the evaluation module. The evaluation module compares the detection information provided by the detection module with a preset model in the system to select a remediation method. The improvement module selects a soil remediation method based on the evaluation made by the evaluation module to

remediate the soil. The solidification module is used to solidify and seal soil that cannot be remediated by the improvement module, preventing the migration of heavy metals. The system can systematically detect and remediate soil and solidify the soil that cannot be remediated to prevent further pollution of the surrounding soil. Different remediation methods are adopted according to different soil types and specific soil information to meet the needs of actual production and life.



21: 2024/05862. 22: 2024/07/30. 43: 2025/02/05
51: B23B

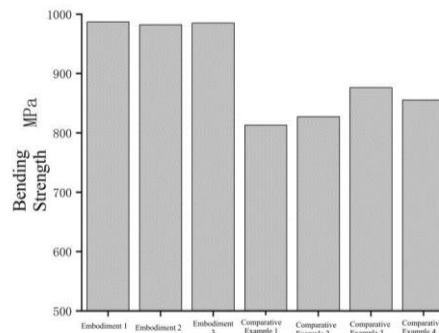
71: Zhuning Zeng
72: Zhuning Zeng

33: CN 31: 2024103514829 32: 2024-03-26

54: HIGH-TOUGHNESS ZIRCONIA CERAMIC SCORING KNIFE AND PREPARATION METHOD THEREOF

00: -

The invention discloses a high-toughness zirconia ceramic scoring knife and a preparation method thereof. The high-toughness zirconia ceramic scoring knife is obtained by processing the surface of a ceramic tool base. The invention uses flake Al₂O₃, Al₂O₃ nanoparticles, Si₃N₄ particles, ZrO₂ particles, and graphene-coated SiC particles as base material, combining them with graphene-coated SiC particles, freezing and sintering them to obtain a ceramic knife matrix, and finally processing the surface of a ceramic tool base to produce a wear-resistant and high-strength ceramic scoring knife.



21: 2024/05863. 22: 2024/07/30. 43: 2025/02/05

51: A61K

71: Henan Datong Biotechnology Co., LTD

72: He Zelin

54: PURE TRADITIONAL CHINESE MEDICINE FORMULA FOR ROTTING SKIN AND ROTTEN BODY OF AQUATIC ANIMALS AND PREPARATION METHOD THEREOF

00: -

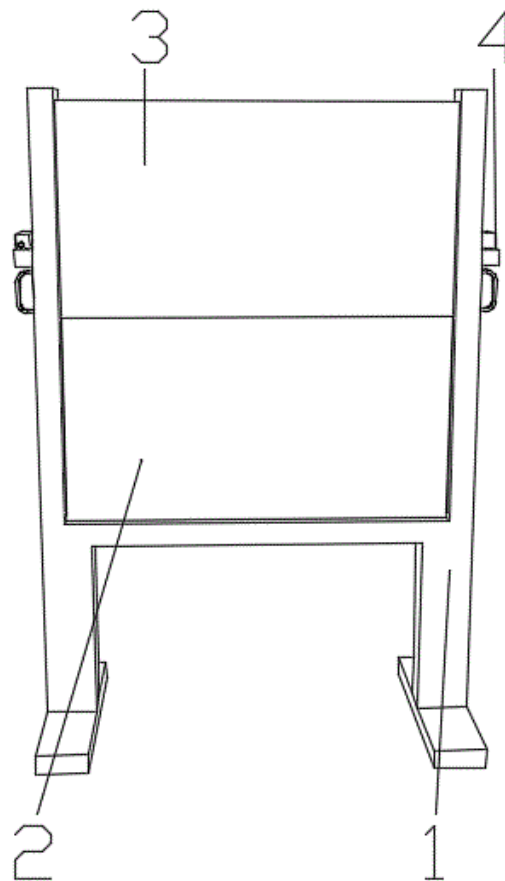
The present invention provides a pure traditional Chinese medicine formula for rotting skin and rotten body of aquatic animals and a preparation method thereof, the raw materials in parts by weight include: Herba Houttuyniae 10-20 parts, Galla Chinensis 25-35 parts, Fructus Gleditsia 10-12 parts, glycerin 3-5 parts, snake oil 3-5 parts, Radix Notoginseng 6-8 parts, Radix Sophorae Flavescentis 5-7 parts, Folium Lantanae Camarae 3-5 parts, Radix Isatidis 4-6 parts, Fructus Crataegi 6-8 parts, Rhizoma Coptidis 7-9 parts, and purified water 500 parts, and the present invention relates to the technical field of disease control of aquatic animals. According to the pure traditional Chinese medicine formula for rotting skin and rotten body of aquatic animals and a preparation method thereof, the skin fester disease of aquatic animals can be effectively treated; and compared with the traditional Chinese medicine formula on the market, the treatment success rate is obviously improved, the treatment is more thorough, the mortality rate of aquatic animals is reduced, the overall product quality of aquatic animals is improved, and the preparation cost is low, which is beneficial to popularization and use.

Statistical objects \ Statistical items	Treatment success rate
Examples 1-3	0.94
Traditional Chinese medicine formula on the market	0.75

21: 2024/05864. 22: 2024/07/30. 43: 2025/02/05
 51: B43L
 71: Guizhou Education University
 72: Tao Lei

54: ADJUSTABLE DERIVATION DEVICE FOR SECOND-ORDER DIFFERENTIAL EQUATIONS

00: -
 The present invention provides an adjustable derivation device for second-order differential equations, including a supporting frame. A fixed blackboard is fixedly connected to one end of an interior of the supporting frame. A sliding blackboard for increasing a usable area of the blackboard when deriving second-order differential equations is arranged at one end of a side surface of the supporting frame, and limit mechanisms for limiting a position of the sliding blackboard when sliding are arranged at one end of a side surface of the sliding blackboard. In the present invention, through the sliding blackboard, the limit mechanisms and the like, the sliding blackboard can be moved to a lower position, maximizing a usable area of the blackboard. Users can effectively utilize the blackboard space for derivation and expression, enabling a complete display of derivation steps and results on the blackboard, allowing students or audience receive an entire derivation process, and ensuring an efficiency of information transmission.



21: 2024/05865. 22: 2024/07/30. 43: 2025/02/05
 51: A61K
 71: Henan Datong Biotechnology Co., LTD
 72: He Zelin

54: PURE CHINESE MEDICINE FORMULA FOR VIRAL INFECTIONS OF AQUATIC ANIMALS AND PREPARATION METHOD THEREFOR

00: -
 The present invention provides a pure Chinese medicine formula for viral infections of aquatic animals and a preparation method therefor. Raw materials of the formula include 3-5 parts of Rheum Officinale, 7-9 parts of Scutellaria Baicalensis, 5-7 parts of Eucalyptus leaves, 2-4 parts of Cortex Sapii Radicis, 2-6 parts of Andrographis Paniculata, 3-7 parts of Folium Isatidis, 3-5 parts of Cortex Meliae, 4-6 parts of Pericarpium Granati, 2-4 parts of Folium Pini, 3-5 parts of Acorus Calamus, 1-5 parts of Pulsatilla Chinensis, 2-6 parts of Radix Codonopsis, 7-9 parts of Glycyrrhiza Uralensis and 200 parts of water. The present invention relates to the technical field of preventing virus infections of aquatic animals. According to the present invention, by adding

Rheum Officinale, Scutellaria Baicalensis, Eucalyptus leaves, Cortex Sapii Radicis, Andrographis Paniculata and Folium Isatidis, the antibacterial ability and antiviral ability of a soft-shelled turtle can be improved; by adding Cortex Meliae, Pericarpium Granati, Folium Pini, Acorus Calamus and Pulsatilla Chinensis, the antiparasitic and antifungal ability of the soft-shelled turtle can be improved, and the quality and yield can be improved; and by adding Radix Codonopsis and Glycyrrhiza Uralensis, an immune function of the soft-shelled turtle can be improved, a mortality is reduced even after viral infections due to high resistance of the soft-shelled turtle.

Statistical item Statistical object	Morbidity	Mortality after onset
Examples 1 to 3	0.15	0.26
Chinese medicine formulas on the market	0.38	0.84

21: 2024/05871. 22: 2024/07/30. 43: 2025/02/06
51: G07C
71: Sichuan Huaneng Taipingyi Hydropower Co., LTD.

72: Zhong HUANG, Dongdong ZHAO, Xuan YI, Zhenhan QIU, Hong ZHAO

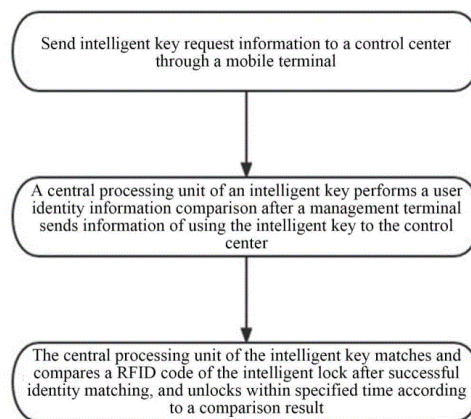
33: CN 31: 2023110215899 32: 2023-08-15

54: INTELLIGENT DOOR LOCK CONTROL METHOD AND SYSTEM

00: -

The present disclosure relates to the technical field of power plants, more particular to a method for verification of accuracy of a sensor signal source and a temperature measurement device thereof. The method includes: outputting an on-off signal and an analog signal to a sensor through a signal acquisition device respectively; measuring comprehensive data information of the sensor through the signal acquisition device; conducting a corresponding comparative analysis between the comprehensive data information collected by the

signal acquisition device and the signal output by the signal acquisition device, to obtain the accuracy of the sensor signal source. The present technical solution is mainly applied to the signal acquisition and maintenance of a PLC in a river basin power station, which outputs an analog signal to the PLC and then measures the comprehensive data information of the PLC, and finally conducts a comparative analysis between the signal output to the PLC and the measured PLC signal to obtain the signal source accuracy of the PLC. The whole process is fully automated, with both high measurement efficiency and high accuracy, which is less prone to errors. It has a wide range of application scenarios.



21: 2024/05894. 22: 2024/07/31. 43: 2024/12/09
51: A01D; B07B

71: CHUZHOU UNIVERSITY

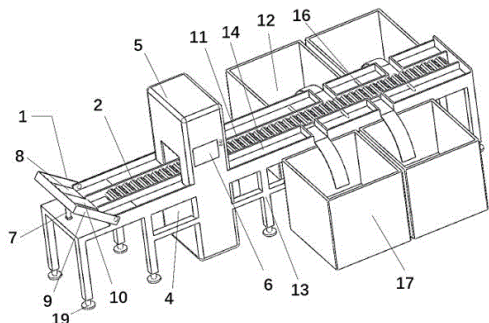
72: ZHANG, Yinping, HUANG, Junwei, XIA, Chenyang

54: A MACHINE VISION-BASED GUAVA GRADING SYSTEM AND CLASSIFICATION METHOD

00: -

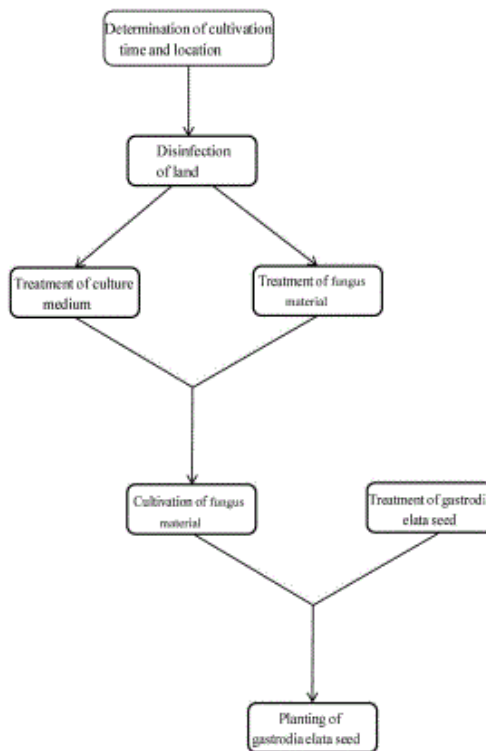
The invention discloses a high-efficiency guava grading device, suitable for guava grading operations in large-scale guava planting bases and fruit processing factories. The device includes a material receiving device, an intelligent monitoring device, a grading conveyor device, a grading receiving device, and a control system. The material receiving device is characterized by an adjustable-speed conveyor belt to ensure the even distribution of guavas. The intelligent monitoring device uses a high-definition camera and image processing

software to quickly and accurately identify the size, color, shape, and other characteristics of the guavas. Based on the judgment of the visual recognition system, the grading conveyor device uses a pusher mechanism to accurately place the guavas into different levels of grading receiving devices. This invention is time-saving, labor-saving, easy to use, reduces manpower consumption, and saves grading costs.



21: 2024/05896. 22: 2024/07/31. 43: 2025/02/06
 51: A01G
 71: Chongqing Academy of Chinese Materia Medica
 72: GUO, Lian'an, WU, Zhen, LI, Shoubao, DENG, Xiaoshu, WANG, Jia, XU, Jinzhi, TAN, Fayin, LUO, Changshu, WANG, Yongde
54: METHOD FOR CULTIVATING GASTRODIA ELATA USING PRUNED BRANCHES OF CAMELLIA SINENSIS OR MORUS ALBA
 00: -

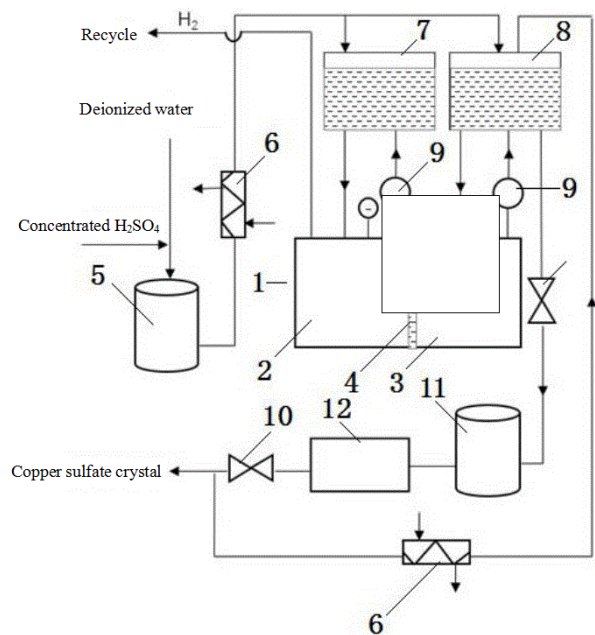
Disclosed is a method for cultivating *Gastrodia elata* using pruned branches of *Camellia sinensis* or *Morus alba*, including pretreatment, land treatment, fungus material treatment, and *Gastrodia elata* seed treatment, where the pretreatment includes determination of cultivation time; the land treatment includes a selection of a planting location and land disinfection; the fungus material treatment includes selection of fungus material and treatment of the fungus material and soaking disinfection; and the *Gastrodia elata* seed treatment includes selecting and soaking disinfection. Firstly, cultivation time of *Gastrodia elata* is determined and a suitable time is selected for growth of *Gastrodia elata*. The method for cultivating *Gastrodia elata* using pruned branches of *Camellia sinensis* or *Morus alba* is provided with culture material and *Gastrodia elata* seed treatment.



21: 2024/05897. 22: 2024/07/31. 43: 2025/02/07
 51: C25C
 71: Kunming University of Science and Technology
 72: YAO Yaochun, YANG Bin, TANG Jian
54: METHOD FOR CONTINUOUSLY PREPARING HIGH-PURITY COPPER SULFATE CRYSTAL BY ION-EXCHANGE MEMBRANE ELECTROLYSIS
 00: -

The invention relates to a method for preparing copper sulfate crystals, in particular to a method for continuously preparing high-purity copper sulfate crystals by ion-exchange membrane electrolysis. In this method, an ion-exchange membrane is used to divide the electrolytic cell into an anode chamber and a cathode chamber, and sulfuric acid solution is introduced into the electrolytic cell, with copper sheets as the anode and insoluble materials as the cathode. Electrolysis is carried out at the temperature of 20°C-85°C, and hydrogen ions in the cathode chamber are reduced to hydrogen, and hydrogen is recovered. The copper anode is oxidized to generate copper ions and dissolved, and a copper sulfate solution is obtained in the anode chamber. Filtering the copper sulfate solution, removing impurities, cooling to 20°C-30°C, separating out copper sulfate crystals, and heating

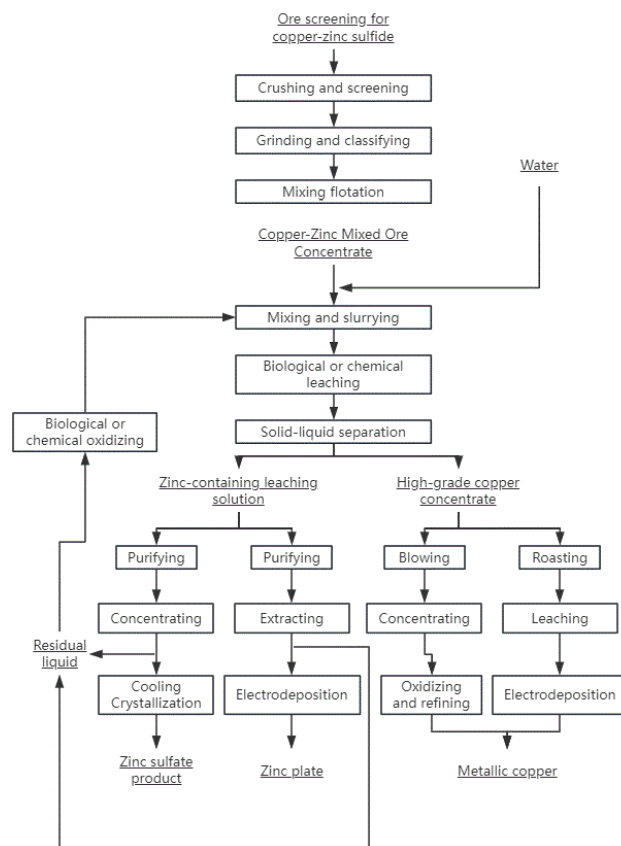
the filtered mother liquor by a heat exchange device before returning to the circulating tank in the anode chamber; washing and drying the obtained copper sulfate crystals to obtain high-purity copper sulfate crystals. The method of the invention overcomes the problems of complex process, high cost, long time consumption and the like of the existing preparation method of high-purity copper sulfate, and the method is simple in process and can realize continuous production and large-scale industrial application.



21: 2024/05898. 22: 2024/07/31. 43: 2025/02/06
 51: B03D
 71: China Ruilin Engineering Technology Co., Ltd.
 72: SHEN Louyan, ZHAO Hongbo
54: COMBINED PROCESS OF BENEFICIATION AND METALLURGY FOR EFFICIENT UTILIZATION OF COPPER-BASED POLYMETALLIC ORES
 00: -

The invention provides a combined process of beneficiation and metallurgy for efficient utilization of copper-based polymetallic ores. In the beneficiation stage, after the raw ore of copper-zinc mixed ore reaches a proper particle size through processes such as crushing, grinding and grading, mixed flotation is used to obtain copper-zinc mixed ore concentrate with higher recovery rate; then, in the copper-zinc separation stage, the copper-zinc mixed

ore concentrate obtained in the above steps is subjected to slurry mixing and drug removal treatment, and is prepared for biological leaching or chemical leaching. According to the used leaching method, the potential, pH value, pulp concentration, temperature, leaching reagent ratio, species and concentration of leaching microorganisms of the leaching system are regulated, and finally the selective leaching of zinc from the copper-zinc mixed ore concentrate is realized. Obtaining copper concentrate and leaching solution containing zinc ions; finally, the metal copper and zinc are finally obtained by wet or pyrometallurgical process. The process of the invention has the advantages of simple flow, perfect technology, high comprehensive recovery rate, complete separation of copper and zinc, and low cost, and is beneficial to industrial application.

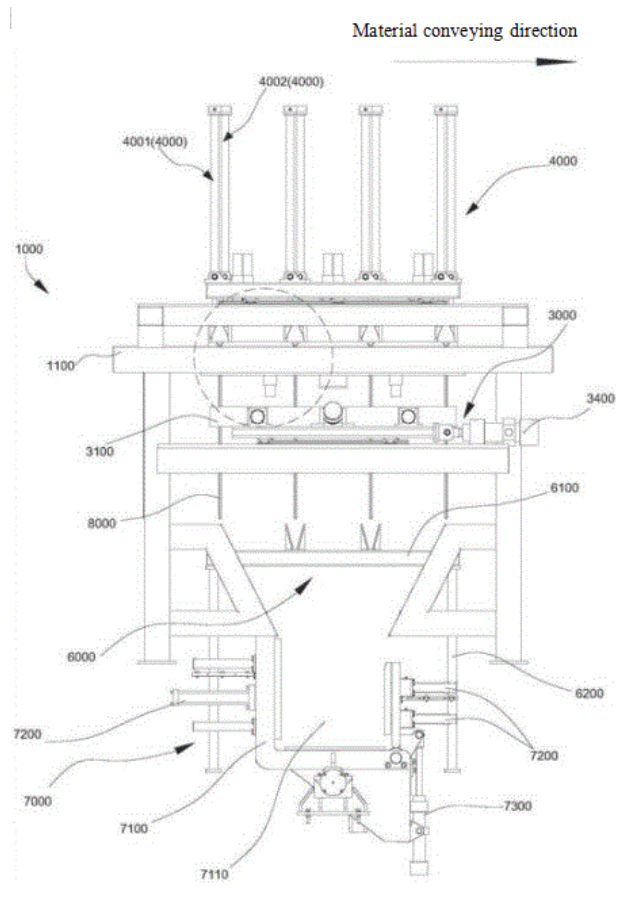


21: 2024/05899. 22: 2024/07/31. 43: 2025/02/06
 51: C25C
 71: Jiangxi ruilin equipment co., Ltd., China Ruilin Engineering Technology Co., Ltd.
 72: SHEN Louyan, OUYANG Tao, DENG Aimin, LI Kun

54: CATHODE STRIPPING EQUIPMENT FOR STRIPPING COPPER LAYER

00: -

The application discloses a cathode stripping equipment for stripping copper layer, which includes a transport device, a lifting device, a plate loosening device, a stripping device, a plate connecting device and a compression device, where the transport device is used for transporting materials, the material includes a cathode plate and metal layers attached to opposite sides of the cathode plate, the lifting device is used for lifting the materials, and the plate loosening device is used for acting on the cathode plate along the transport direction of the cathode plate to deform the cathode plate to form an opening between the cathode plate and the metal layer at one side. It is also used to act on the cathode plate in the direction opposite to the transportation direction of the cathode plate to deform the cathode plate and form an opening between the cathode plate and the metal layer on the other side. The stripping device is used to insert the opening and move to strip the metal layer from the cathode plate. The plate connecting device is used to receive the stripped metal layer and drive the metal layer to move. The compression device is used to rest the metal layer on the compression device when the plate connecting device drives the metal layer to move. The compression device is used to compress the metal layer. The technical scheme of that application can improve the work efficiency.

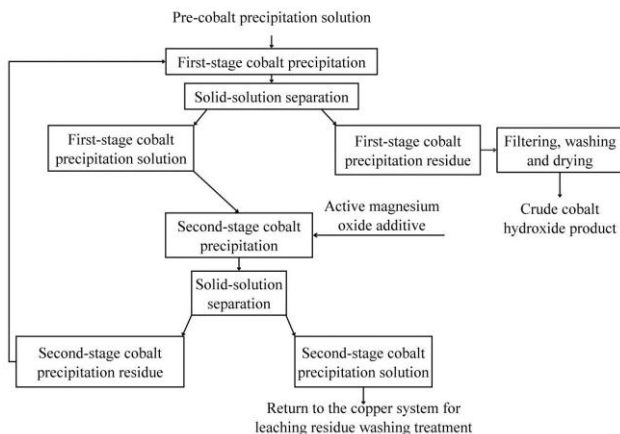


21: 2024/05900. 22: 2024/07/31. 43: 2025/02/06
 51: C22B
 71: China Ruilin Engineering Technology Co., Ltd.
 72: ZHANG Haibao, SHEN Louyan, FU Xiaodan
54: PURIFICATION METHOD OF CRUDE COBALT HYDROXIDE

00: -

The invention provides a purification method of crude cobalt hydroxide, belonging to the technical field of non-ferrous metal hydrometallurgy. In the method, after impurity ions such as iron and manganese are removed from the cobalt precipitation solution, cobalt precipitation is carried out in two stages, a first-stage cobalt precipitation residue is used as a product, and a second-stage cobalt precipitation residue is used as an additive for the first-stage cobalt precipitation; before the first-stage cobalt precipitation, impurity ions in the cobalt precipitation solution mainly remain manganese and zinc ions. Based on the traditional first-stage cobalt precipitation method, in order to improve the direct yield of cobalt, excessive magnesium oxide is added to make the final pH reach 8.0-8.5, in order to

precipitate a large amount of manganese and zinc ion into the first-stage cobalt precipitation residue, but it is easy to cause the disadvantages of increasing impurity content and magnesium oxide consumption. The invention has the advantages of reducing impurity content in crude cobalt hydroxide to improve the cobalt content in crude cobalt hydroxide and reducing the consumption of active magnesium oxide to reduce production.

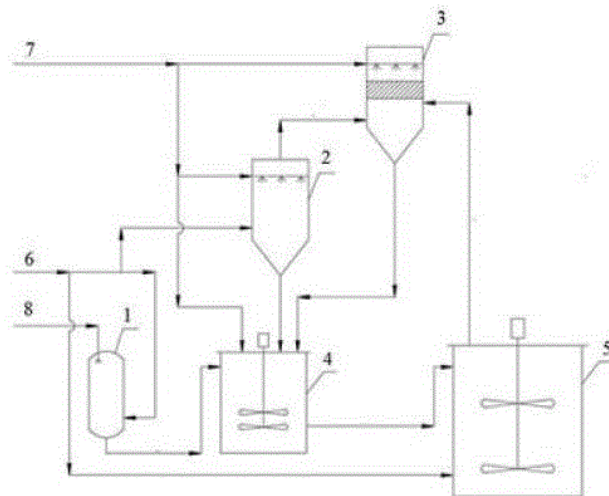


21: 2024/05901. 22: 2024/07/31. 43: 2025/02/06
 51: C22B
 71: China Ruilin Engineering Technology Co., Ltd.
 72: SHEN Louyan, HU Shenchen, LI Wenhua, GAO Zhiyong, SUN Wei

54: LEACHING METHOD AND SYSTEM FOR HETEROGENITE

00: -
 The invention provides a method and a system for leaching heterogenite. The method comprises the following steps: simultaneously introducing SO₂ gas into a pressurized adsorption tank, introducing SO₂ gas into a primary adsorption tower, and introducing SO₂ gas into a leaching tank, reacting SO₂ gas with water to generate H₂SO₃, reducing Fe³⁺ ions into Fe²⁺ ions by H₂SO₃, and further leaching cobalt by Fe²⁺ ions. The system comprises a pressurized adsorption tank, a primary adsorption tower, a mixing tank and a leaching tank. According to the method and system for leaching cobalt by SO₂ provided by the invention, SO₂ gas is introduced in three paths at the same time, so that the utilization rate of SO₂ gas can be improved by more than 15%, and at the same time, a large amount of Fe³⁺ in raffinate is reduced to Fe²⁺, so that the leaching rate of cobalt is improved by more than 3%, and at the

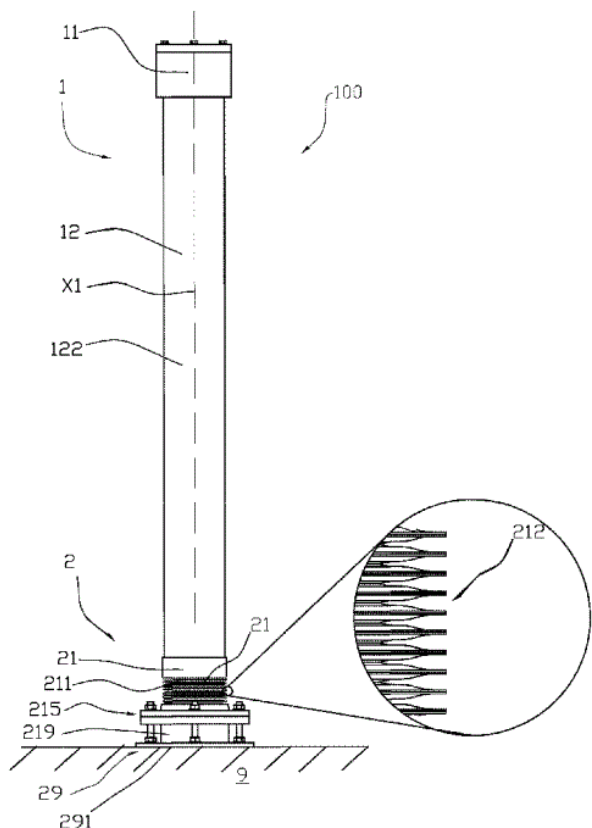
same time, environmental pollution caused by the escape of SO₂ gas is avoided.



21: 2024/05915. 22: 2024/07/31. 43: 2025/01/28
 51: F03B; F03D; F03G; H02K; H02N
 71: SINE DELTA AS
 72: BARRATT, Steven
 33: NO 31: 20220068 32: 2022-01-19

54: APPARATUS FOR PRODUCING ELECTRICITY FROM A MOVING FLUID AND METHOD

00: -
 Apparatus for producing electricity from a moving fluid comprising: - an elongated body having a longitudinal axis, the elongated body being arranged to be attached to the ground or seabed and exposed to the moving fluid; - at least one tensioned cable, which is supported in tension from the elongated body, and which is arranged at least in part inside the elongated body and further arranged to oscillate or vibrate upon oscillation of the elongated body; and - at least one energy harvester for converting kinetic energy of the at least one oscillating or vibrating tensioned cable to electric energy.



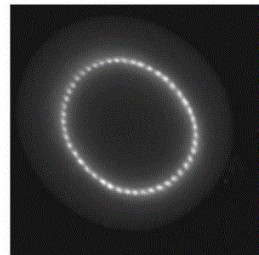
21: 2024/05942. 22: 2024/08/01. 43: 2025/02/05
51: G06T

71: Zhejiang University of Science And Technology
72: FENG, Keyu, CAI, Chenggang, FENG, Xi, YU, Aihua, SHI, Yang, RAO, Zhongwei

54: METHOD FOR TESTING PEARL LUSTER

00: -
Disclosed is a method for testing pearl luster, relating to the field of pearl luster testing. The method includes the steps of: acquiring reflective images of surfaces of a pearl using an acquisition device; preprocessing acquired reflective images; performing multi-threshold binarization on images obtained after the preprocessing; performing image particle statistics on a plurality of images obtained after the multi-threshold binarization to generate a counting array; calculating a mean value and a standard deviation of the counting array; rotating the pearl for m repeated measurements to generate m mean values and m standard deviations; calculating a mean value and a standard deviation of the m mean values again to obtain values a and b; calculating a mean value and a standard deviation of the m standard deviations again to obtain values c

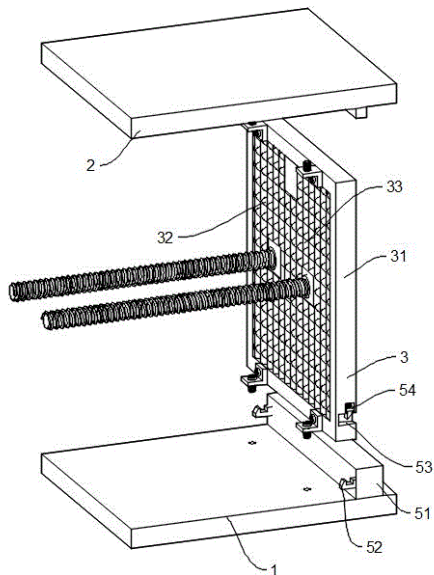
and d; and comparing the values a, b, c, and d with corresponding set thresholds.



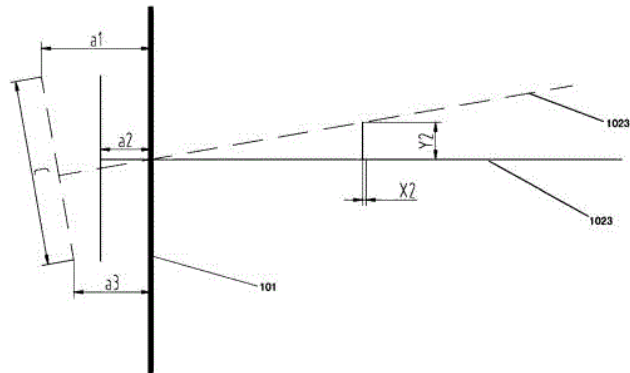
21: 2024/05943. 22: 2024/08/01. 43: 2025/02/05
51: E21F
71: Xichuan Coal Mine Branch, Huaneng Tongchuan Zhaojin Coal Power Co., Ltd.
72: Bo Liu, Tao Hu, Yuhui Miao, Jiangbo Di, Wei Yi, Xuyu Huang, Chao Zhang
33: CN 31: 202410956902.6 32: 2024-07-16

54: A PREFABRICATED COAL MINE SEALING WALL

00: -
The invention discloses a prefabricated coal mine sealing wall. The invention belongs to the field of mine safety wall and solves the problem that the existing sealing wall cannot be quickly assembled and jointed, including the bottom protection plate, the top supporting plate, the isolation plate and the safety protection plate. A top supporting plate is arranged on the top of the bottom protection plate, an isolation plate is installed between the bottom protection plate and the top supporting plate, and a safety protection plate is arranged on the side of the isolation plate. A positioning mechanism is fixed on the surface of the bottom protection plate. The positioning mechanism comprises a side baffle plate, an inserting block, an inserting slot and a clamping component. In the invention, by setting a positioning mechanism and an adjusting mechanism, the two groups of partitions can be positioned and installed quickly, which can speed up the installation of the main components of the sealing wall, which can change the traditional mode of complete concrete pouring, which can speed up the overall working efficiency of the equipment, and can also adjust the spacing between the two groups of partitions according to the thickness of the subsequent pouring concrete. It can make the overall assembly of the equipment more simple.



materials and control the walking of the first car and the second car.

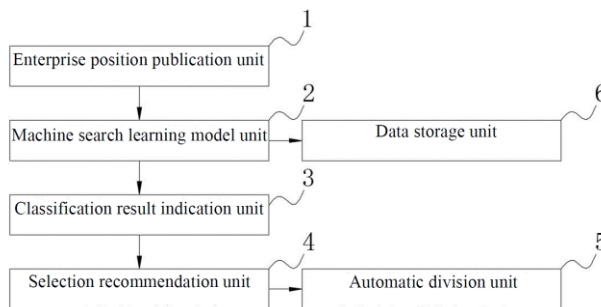
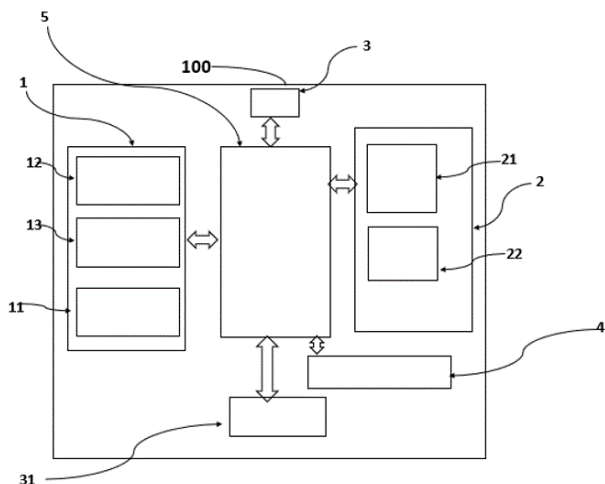


21: 2024/05945. 22: 2024/08/01. 43: 2025/02/05
 51: H02P
 71: Jiangxi ruilin equipment co., ltd., China Rulin Engineering Technology Co., Ltd.
 72: SHEN Louyan, HUANG Jianfei, OUYANG Tao
54: DRIVING SYSTEM, DRIVING POSITION DETECTION DEVICE AND DETECTION METHOD THEREOF

00: -
 The invention discloses a driving system and a driving position detection device thereof, and also discloses a driving position detection method of the driving system. The driving system comprises a first track; a first car and a second car, wherein the first car comprises a car body and a second track; a first position measurer; a deviation measurer, which measures the distances between at least two first physical points on the first car and the side surface of the first track or the preset line or the preset surface; a second position measurer; and a data processor which is connected with the first position measurer, the deviation measurer and the second position measurer so as to calculate the position of any point on the first car and the second car according to the initial position of the first car, the measured values of the first position measurer, the deviation measurer and the second position measurer and the geometric relationship between any point on the second car and the second physical point. The driving system according to the embodiment of the invention can better hoist

21: 2024/05946. 22: 2024/08/01. 43: 2025/02/05
 51: A63B
 71: MANGALAYATAN UNIVERSITY, ALIGARH, Dr. Kishan Pal Singh
 72: Dr. Kishan Pal Singh
54: GYM-BASED ELECTRICAL GENERATION SYSTEM WITH ADAPTIVE RESISTANCE AND ENERGY OPTIMIZATION FEATURES

00: -
 The Present invention relates to a gym-based electrical generation system (100) designed to convert physical exercise into electrical energy efficiently. The system comprises an advanced pull-down machine (1) with ergonomic design and biometric sensors (13) to monitor user effort. It includes a dual-shaft system (2) with smart-material technology, and a freewheel sprocket and chain drive mechanism (3) to maximize energy output during exercise. A heavy-duty flywheel (31) with real-time rotational energy adjustment and a DC dynamo (4) optimize energy conversion and storage. The system features an innovative charging unit (5) with integrated circuits, supercapacitors, and diodes to efficiently charge a high-density battery pack. Additionally, it includes a kinetic energy recovery mechanism, pillow block bearings with vibration dampening, and an intelligent energy storage system for optimized energy allocation. This invention provides a reliable and efficient method for generating and storing electrical power through gym equipment.



21: 2024/05947. 22: 2024/08/01. 43: 2025/02/05

51: G06Q

71: Huainan Normal University

72: Shi Yong

54: ENTERPRISE TALENT INTELLIGENT RECOMMENDATION MACHINE LEARNING CLASSIFICATION MODEL AND METHOD

00: -

The present invention provides an enterprise talent intelligent recommendation machine learning classification model and a method, including an enterprise position publication unit, a machine search learning model unit, a classification result indicating unit and a selection recommendation unit. An output end of the enterprise position publication unit is connected to an input end of the machine search learning model unit, and the present invention relates to the technical field of enterprise talent recommendation. The enterprise talent intelligent recommendation machine learning classification model and a method, the published position information is learned and browsed through a browsing learning record module, after clicking enter, basic information of job applicant will be obtained through a login information acquisition module, a system will screen the information of various people through an information screening module, the information of the job applicant will be analyzed through an information learning classification confirmation module to screen out the talents needed by the enterprise, and actively contact the job applicant through an intelligent communication module and analyze the wishes of the job applicant through a will analysis module.

21: 2024/05948. 22: 2024/08/01. 43: 2025/02/05

51: G01N

71: Xichuan Coal Mine Branch, Huaneng Tongchuan Zhaojin Coal Power Co., Ltd.

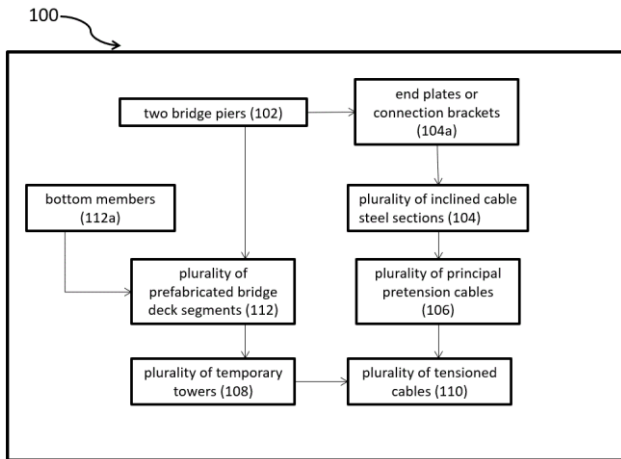
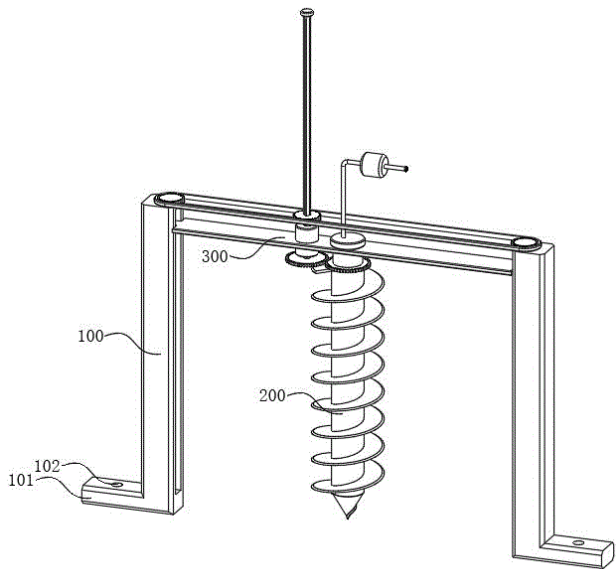
72: Yuhui Miao, Tao Hu, Bo Liu, Jie Wang, Wei Yi, Jiangbo Di, Zhongyan Jiang

33: CN 31: 202410939407.4 32: 2024-07-12

54: A COAL MINE GROUNDWATER SAMPLING DEVICE AND THE METHOD THEREOF

00: -

The invention discloses a coal mine groundwater sampling device and the method thereof, belonging to the technical field of groundwater collection. The device comprises a supporting frame, a drilling rod and a mounting sliding plate. Through the extension of the electric telescopic rod in the telescopic component arranged, the hollow pipe and the drilling head move downward after the completion of the drilling so that the water inlet hole contacts the groundwater. The groundwater is extracted by the conveying pump in the sampling component, and the water sample is stored by the penetrating hole and storage and connection, and the sample of different depths of the groundwater can be freely controlled by the different extension lengths of the electric telescopic rod. Through the rotation of the first drive motor in the lifting component, the second linkage sprocket can be rotated, so that the first linkage sprocket on both sides can be rotated with the driving chain, and then it can drive the screw rod on both sides to rotate, and then it can drive the mounting sliding plate to move upward or downward, so that the drilling rod can move downward or upward. While moving down, the device is able to drill holes into the ground.



21: 2024/05950. 22: 2024/08/01. 43: 2025/02/05
51: E04B

71: Techno India University, West Bengal
72: Dr. Subashis Biswas, Dipayan Ghosh

54: A SYSTEM FOR SAFE DESIGN OF A LONG SPAN CABLE STAYED CANTILEVER BRIDGE AND A METHOD FOR CONSTRUCTING THE SAME

00: -

The present invention relates to a system for long span cable stayed cantilever bridge. The proposed bridge combines cable-stayed and cantilever principles. It features main piers with inclined attachment points, supporting cable steel sections and prefabricated deck segments. The structure includes principal pretension cables extending from piers to the ground, enhancing stability. The construction method involves site-specific foundation design, strategic pier erection, and precise cable tensioning. Advanced foundation protection measures and monitoring systems are incorporated. This design optimizes material usage, spans long distances, and offers enhanced stability and resilience to environmental stressors. Benefits include improved traffic capacity, reduced congestion, and lower long-term maintenance costs. The bridge's aesthetic appeal can create iconic landmarks, potentially boosting local economies. This invention addresses modern urban infrastructure challenges while providing a durable, efficient, and visually striking transportation solution.

21: 2024/05951. 22: 2024/08/01. 43: 2025/02/05
51: G06N

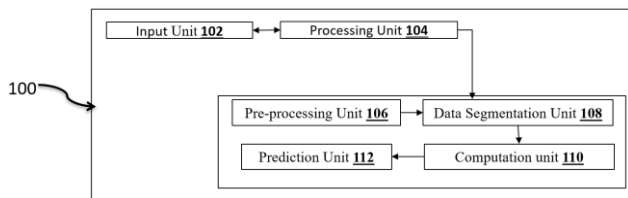
71: Nisha Thakur, Dr Sanjeev Karmakar, Sneha Thakur, Vertik Shrivastav, Anuradha Deewan, Shri Naveen Vaishnav, Dr Vikas Pandey, Dr Rajiv Pathak, Dr. Shreerup Gowasmi

72: Nisha Thakur, Dr Sanjeev Karmakar, Sneha Thakur, Vertik Shrivastav, Anuradha Deewan, Shri Naveen Vaishnav, Dr Vikas Pandey, Dr Rajiv Pathak, Dr. Shreerup Gowasmi

54: A DEEP LEARNING MODELLING SYSTEM FOR LONG RANGE MONSOON FORECAST AND METHOD THEREOF

00: -

A deep learning modelling system (100) for long range monsoon forecast and method thereof, comprises of: an input unit (102) to receive rainfall data with a plurality of independent parameters from a region to form a dataset; and a processing unit (104) for processing the received rainfall data, comprises of: a pre-processing unit (106) configured to scale and pre-process the input data by reducing number of independent parameters without minimizing the significance of the data by a Principal component analysis technique; a data segmentation unit (108) to divide the reduced data into a plurality of segments; a computation unit (110) to find optimum values of window size and number of LSTM unit based on a genetic approach based LSTM; and a prediction unit (112) to predict rainfall data based on the calculated optimum values.



21: 2024/05962. 22: 2024/08/02. 43: 2025/02/12
 51: E21B; G01F
 71: Etienne ZEEMAN
 72: Etienne ZEEMAN
 33: ZA 31: 2023/07696 32: 2023-08-04
54: WATER-LEVEL INDICATOR ARRANGEMENT

00: -
 The invention discloses a water-level indicator arrangement for indicating the water-level in a water reservoir, which includes a buoy adapted to float on water in the water reservoir; a cement block being located at the bottom of the water reservoir and having a first pulley; a second pulley located at the top of the water reservoir; an indicator object located on the outside of the water reservoir; and a cable and/or rope having at least twice the length of the height of the water reservoir and being first connected to the buoy, then pulled through the first pulley, then pulled through the second pulley and then connected to the indicator object and thus allowing the water indicator to indicate the water-level in the water reservoir.

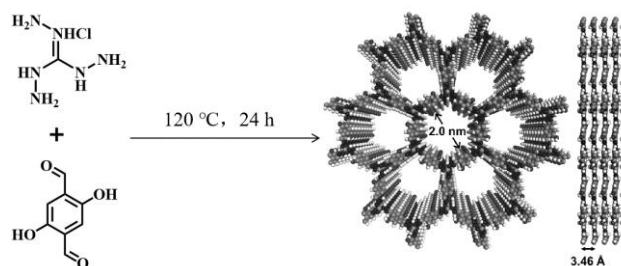
21: 2024/05963. 22: 2024/08/02. 43: 2025/02/05
 51: G06F
 71: Hubei Institute of Standardization and Quality (Hubei WTO/TBT Notification Consulting Center)
 72: CHEN, Yanming, LU, Xi, XU, Shukun, SHI, Ying, SHU, Cheng, HAN, Yangyu, CHEN, Lei, SHAO, Xuan
54: DOCUMENT VALIDATION METHOD

00: -
 The present invention provides a document validation method, which includes the following steps: S1, reading a document and converting a graph; S2, converting a image; S3, determining whether a next image exists, if it exists, repeating the process of S2, if it does not exist, proceeding to S4; S4, setting a return format; S5, reading document paragraphs, reading sections in the document via Document. Sentences, acquiring all content of the document, and acquiring all paragraphs in each node; and S6, processing returned error content. The document validation

method can read and validate various parts in the document and convert the graph and image, improving the efficiency and accuracy of document processing.

21: 2024/05964. 22: 2024/08/02. 43: 2025/02/05
 51: C08G
 71: Jingtangshan University, Ganjiang River Middle Reaches Hydrology and Water Resources Monitoring Center
 72: HOU Linli, WANG Le, ZENG Keni, FU Wenjie, LANG Fengxiang, XIAO Yingjie, MAO Yan
54: CATIONIC COVALENT ORGANIC FRAMEWORK MATERIAL FOR RAPIDLY ADSORBING INDOMETACIN, AND PREPARATION METHOD AND APPLICATION THEREOF

00: -
 The invention belongs to the technical field of adsorption materials and sewage treatment, and relates to a cationic covalent organic framework material for rapidly adsorbing indometacin, and a preparation method and application thereof. In the invention, 2,5-dihydroxy terephthalaldehyde and triaminoguanidine hydrochloride are used as reactants, and the cationic covalent organic framework material is obtained after solvothermal reaction in a mixed solvent and post-treatment. The saturated adsorption capacity of indometacin as the target pollutant reached 500 milligrams per gram, and it is found that the material has selective adsorption for indometacin, which indicated that it has excellent adsorption capacity for indometacin, and it is expected to be used to eliminate non-steroidal antibiotics in water environment, and it may be used for adsorption and separation of pharmaceutical wastewater, which has important application value in the field of pharmaceutical wastewater.



21: 2024/05965. 22: 2024/08/02. 43: 2025/02/05
 51: E21C

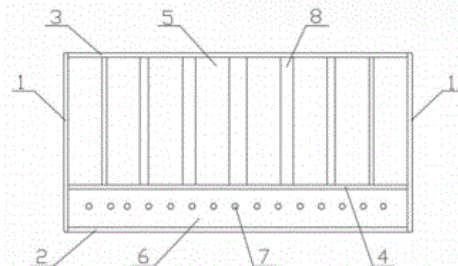
71: Liupanshui Normal University
 72: LI, Tao, WU, Qiang, FAN, Limin, MA, Liqiang, JIANG, Zequan, SUN, Kui, GAO, Ying, JI, Ruijun
54: METHOD FOR EFFECTIVELY IDENTIFYING WATER-PRESERVED COAL MINING AREA IN WEATHERED BEDROCK AQUIFER

00: -
 Disclosed is a method for effectively identifying a water-preserved coal mining area in a weathered bedrock aquifer, including: dividing a stratum structure type; when a target stratum area is of a first type, and invasion degree of burnt rock in an aquiclude is greater than or equal to a first set threshold, performing determination based on an initial hydraulic gradient and effective thickness of the aquiclude, and a head elevation of a loose sand layer aquifer; when being of a second type, and invasion degree of burnt rock in a weathered bedrock aquifer is greater than or equal to a second set threshold, performing determination according to a water retaining capacity and water enrichment of the burnt rock; when being of a third type, performing determination according to the invasion degree of burnt rock and a surface water body; and when being of a fourth type, performing determination directly.

21: 2024/05966. 22: 2024/08/02. 43: 2025/02/05
 51: G09B
 71: Henan University of Urban Construction
 72: YANG, Mingfei, MA, Yabing, WANG, Xibin, FENG, Yanan, NIU, Kaikai
54: AUXILIARY TEST MODEL FRAMEWORK FOR RADAR DETECTION

00: -
 Disclosed in the present invention is an auxiliary test model framework for radar detection. The model framework includes a bottom plate and two frame plates which are arranged perpendicular to the bottom plate, where a plurality of locking universal wheels are arranged at a bottom of the bottom plate, two sides of the two frame plates are connected by means of a concrete plate and a first metal plate respectively, and a containing cavity is formed between the two frame plates, the first metal plate and the concrete plate. A second metal plate parallel to the first metal plate is arranged between the two frame plates, and the containing cavity is divided into a test area I and a test area II by the second metal plate. The test area II is filled with concrete, a

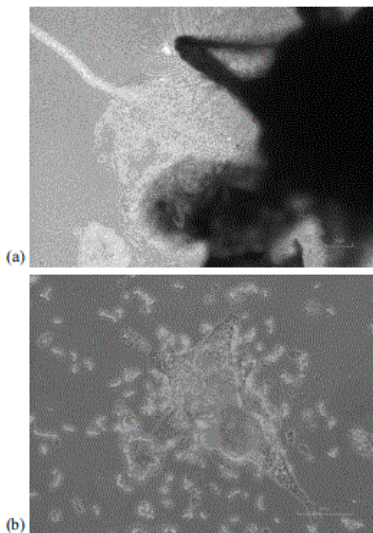
plurality of reinforcing bars are embedded in the concrete.



21: 2024/05967. 22: 2024/08/02. 43: 2025/02/05
 51: C12N
 71: Institute of Highland Forest Science, Chinese Academy of Forestry
 72: DING, Weifeng, LING, Xiaofei, LU, Qin, WANG, Weiwei, CHEN, Xumei, ZHANG, Xin, LI, Xian, MA, Chenjing, CHEN, Hang

54: ERICERUS PELA CELL CULTURE METHOD
 00: -

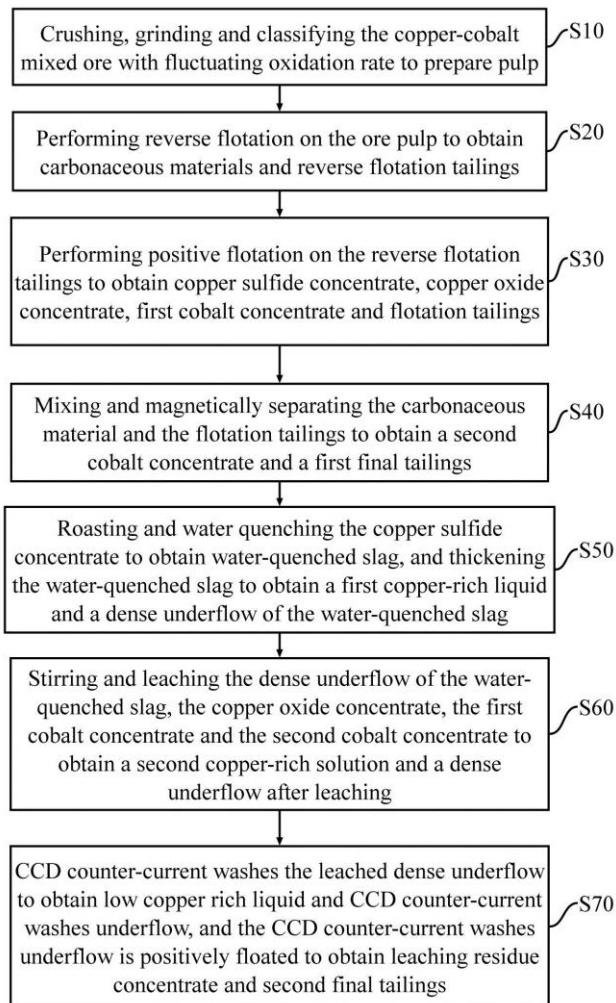
The present invention provides an *Ericerus pela* cell culture method. In the present invention, newly hatched *Ericerus pela* nymphs are collected to 1.5 mL sterile Eppendorf centrifuge tubes, a medium for primary culture is added, and the nymphs are cut into pieces with ophthalmic point surgical scissors to form cell suspensions; the cell suspensions are kept static, supernatant is drawn and transferred to 25 mL culture flasks, the medium is added, and the culture flasks are cultured away from light in a constant temperature incubator at 27 degrees Celsius; and the growth conditions of the cultures are observed regularly, and the medium is replaced until the cells grow well. The method can effectively remove the wax and microorganisms from the surface of the *Ericerus pela* and thus obtain sterile cell cultures; the mild culture conditions are suitable for the growth of *Ericerus pela* cells.



21: 2024/05968. 22: 2024/08/02. 43: 2025/02/05
 51: B03D
 71: China Ruilin Engineering Technology Co., Ltd.
 72: SHEN Louyan, YANG Bin, TANG Guobiao, ZHANG Fan, ZHAO Hongbo
54: FLOTATION METHOD OF COPPER-COBALT MIXED ORE WITH HIGH RECOVERY RATE
 00: -

The invention provides a flotation method of copper-cobalt mixed ore with high recovery rate, which comprises the following steps: crushing raw ore, grinding and classifying to prepare pulp; performing reverse flotation on the pulp to obtain carbonaceous matter and reverse flotation tailings; the reverse flotation tailings are subjected to positive flotation to obtain copper sulfide concentrate, copper oxide concentrate, first cobalt concentrate and flotation tailings; Mixing and magnetically separating carbonaceous materials and flotation tailings to obtain a second cobalt concentrate and a first final tailings; roasting and water quenching the copper sulfide concentrate to obtain a first copper-rich liquid and a dense underflow of water-quenched slag; stirring and leaching the dense underflow of water-quenched slag, copper oxide concentrate, first cobalt concentrate and second cobalt concentrate to obtain a second copper-rich solution and a dense underflow after leaching; the dense underflow after leaching is washed by CCD countercurrent, and the underflow with low copper and rich liquid is obtained, and the leaching residue concentrate and the second final tailings are washed by CCD countercurrent. The process has the advantages of

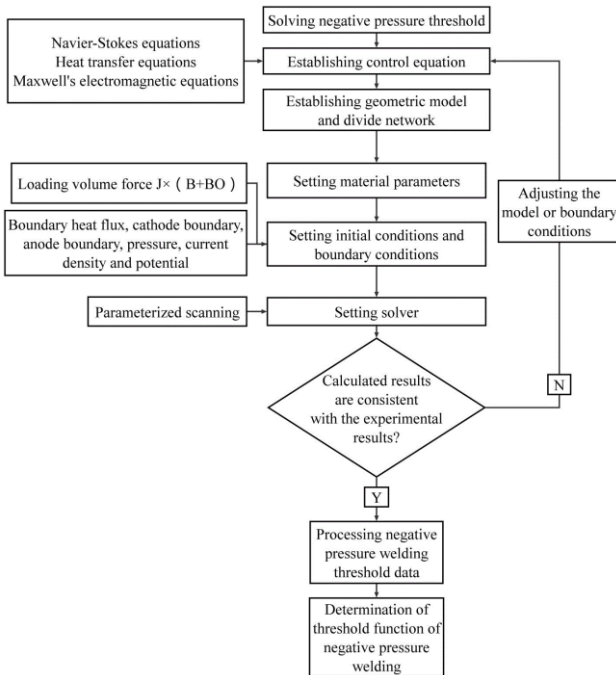
clear structure, easy operation and control, stable and reliable process, as much copper and cobalt resources can be recovered as possible, and enterprise benefits can be improved.



21: 2024/05969. 22: 2024/08/02. 43: 2025/02/05
 51: B23K
 71: Shanghai University of Engineering Science
 72: WANG Ying, LUO Jian, CHENG Riping, ZHENG Kanghui
 33: CN 31: 2024102383134 32: 2024-03-03
54: METHOD FOR DETERMINING MAGNETIC FIELD PARAMETER THRESHOLD OF NEGATIVE-PRESSURE ARC WELDING
 00: -

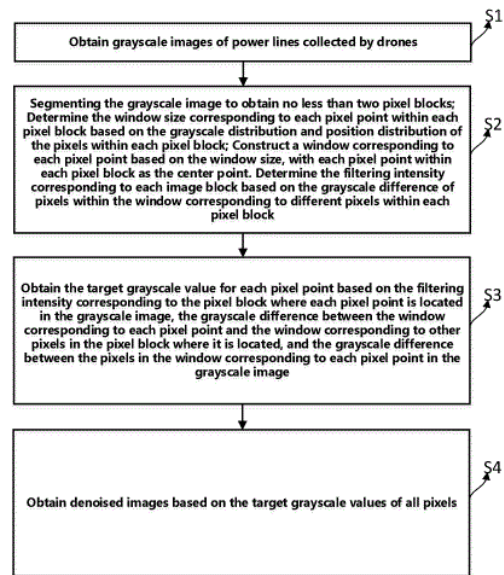
The invention provides a method for determining the magnetic field parameter threshold of negative-pressure arc welding, which includes the following steps: forming a control equation using the Navier-Stokes equation, heat transfer equation, and Maxwell's electromagnetic equation; establishing a

geometric model and mesh division; setting material parameters; setting initial conditions and boundary conditions; parameterized scanning, setting solver, collecting negative-pressure threshold data, and fitting negative-pressure threshold function; through the above steps, through numerical simulation calculation of negative-pressure threshold under different conditions, and then fitting the calculated negative-pressure threshold data, the equation for determining the magnetic field parameter threshold of negative-pressure arc welding can be obtained, which can more accurately predict the threshold condition of negative-pressure arc welding and provide guidance for negative-pressure arc welding technology; and solving the flowing and unstable behavior of the molten pool caused by gravity, arc positive pressure, and plasma flow force in the process of conventional positive pressure arc thin-wall surfacing, thin-wall additive manufacturing, and inclined welding.



21: 2024/05970. 22: 2024/08/02. 43: 2025/02/05
 51: G05D
 71: Zhengzhou University of Aeronautics
 72: CHEN, Yu, MA, Zhengxiang, QIN, Yuqin, LIU, Zhaoyu, ZHANG, Qiaoping, WEN, Xinling, LIANG, Kun, ZHANG, Wenli, ZHANG, Yiqun
 33: CN 31: 202311489953.4 32: 2023-11-09
54: METHOD FOR AUTOMATIC CONTROL OF UAV IMAGE ACQUISITION

00: -
 The present invention relates to the field of image processing technology, specifically to a method for automatic control of UAV image acquisition. The method comprises: obtaining grayscale images of power lines captured by UAVs; segmenting grayscale images to obtain pixel blocks; determining filtering intensity for each pixel block based on grayscale differences of pixels within corresponding windows; obtaining denoised images based on filtering intensity and grayscale differences of pixels within windows corresponding to each pixel in its respective pixel block. The invention improves filtering effectiveness of grayscale images of power lines.



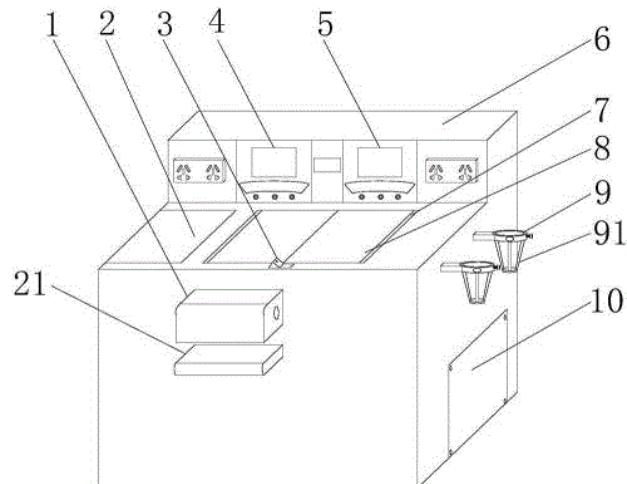
21: 2024/05974. 22: 2024/08/02. 43: 2025/02/05
 51: B01J
 71: GANSU ZHONGSHANG FOOD QUALITY INSPECTION AND TESTING CO., LTD
 72: YUAN, Caixia, WU, Lihua, SUN, Liedong, HONG, Xia, HE, Haining, LI, Guijun, LI, Lihong, YANG, Guangrui, WU, Jianqiang

54: APPLICATION OF CHITIN-FUNCTIONALIZED MESOPOROUS CARBON IN EXTRACTING FLAVONOID COMPOUNDS FROM FLOWERS OF CHINESE ROSE
 00: -
 The present invention belongs to the technical field of organic matter extraction and discloses an application of chitin-functionalized mesoporous carbon in extracting flavonoid compounds from

flowers of Chinese rose. The present invention takes chitin-functionalized mesoporous carbon as an adsorbent, greatly improves the dispersibility and stability of mesoporous carbon, realizes the rapid enrichment of rutin, quercetin and kaempferol flavonoid compounds in flowers of Chinese rose, provides a new strategy for the rapid separation and enrichment of flavonoid compounds and has important practical value for the study of effective components of traditional Chinese medicine. At the same time, the present invention uses less toxic and volatile chemical solvents, saving operation time.

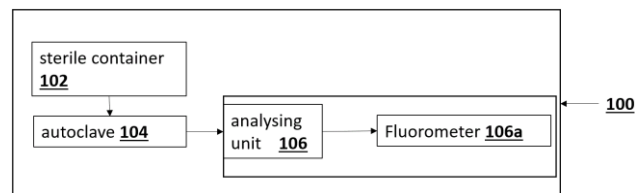
21: 2024/05977. 22: 2024/08/02. 43: 2025/02/05
 51: B01L
 71: HUBEI UNIVERSITY OF EDUCATION
 72: YU Ning
54: EXPERIMENTAL PLATFORM FOR PHYSICAL EXPERIMENTS

00: -
 The invention discloses an experimental platform for physical experiments, and relates to the technical field of physical experimental platforms. An experimental platform for physical experiments comprises a dryer, a voltmeter, an ammeter and a casing, where the dryer is installed on one side of the casing, the voltmeter is installed on the casing. According to the invention, through the fixing structure consisting of the fixing rod, the fixing seat, the external thread, the screw, the connecting plate and the pressure sensor, an operator can put the pump bottle filled with disinfectant on the fixing seat in advance, screw the screw continuously into the external thread, and clamp the pump bottle filled with disinfectant by friction, so that the pump bottle filled with disinfectant is not easy to shake. Moreover, students can disinfect their hands by pressing the pump bottle filled with disinfectant, and the pressure sensor is installed in the middle of the fixing seat to feel the external pressure, which solves the problem that the existing experimental platform is inconvenient for students to disinfect their hands before and after the experiment.



21: 2024/05979. 22: 2024/08/02. 43: 2025/02/05
 51: G01N
 71: Nagaland University, Lydia Yeptho, Talijungla, Watitemjen
 72: Lydia Yeptho, Talijungla, Watitemjen
54: COMPOSITION, SYSTEM AND METHOD FOR SYNTHESIZING AND ANALYSING METAGENOMIC PROFILE OF KATSING

00: -
 A composition, system (100) and method (200) for synthesizing and analysing metagenomic profile of Katsing, comprises of: a sterile container (102) for collecting 200-300 gm of Katsing; an autoclave (104) connected to the sterile container (102) for autoclaving the collected Katsing with a first defined quantity of distilled water for a defined duration, wherein 40-60 gm of roasted Chenopodium sp seeds and a second defined quantity of distilled water is added to the autoclaved mixture for to obtain a Katsing mixture for fermentation; and an analysing unit (106) connected to the autoclave (104) for analysing the metagenomic profile of the fermented Katsing mixture.



21: 2024/05981. 22: 2024/08/02. 43: 2025/02/06
 51: C21D; C22C
 71: SALZGITTER FLACHSTAHL GMBH
 72: MOLODOV, Konstantin, KWIATON, Norbert
 33: DE 31: 10 2022 102 418.0 32: 2023-02-02

54: HIGH-STRENGTH HOT DIP-COATED STEEL STRIP WITH PLASTICITY BROUGHT ABOUT BY MICROSTRUCTURAL TRANSFORMATION AND METHOD FOR PRODUCTION THEREOF

00: -
 The invention relates to a method of producing a hot dip-coated high-strength steel strip with plasticity brought about by microstructural transformation, comprising the following steps: (i) producing a hot-rolled steel strip consisting of the following elements in % by weight: C: from 0.15 to 0.205, Mn: from 19. to 26., Al: from 0.2 to 0.7, Si: from 0.5 to 0.9, Cr: from 0.2 to 0.5, Nb: from 0.01 to 0.06, Mo: <0.15, B: ≤0.001, P: ≤0.02, S: ≤0.005, balance: iron, including customary steel-accompanying elements, where, for a value $\mu=4.5 \times$

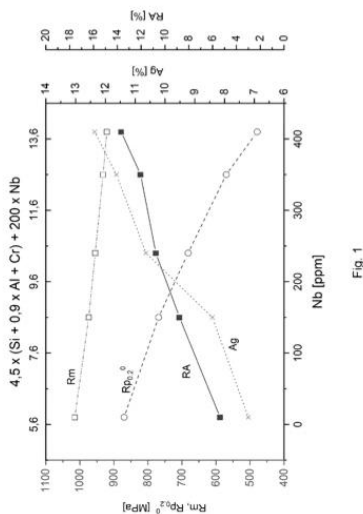


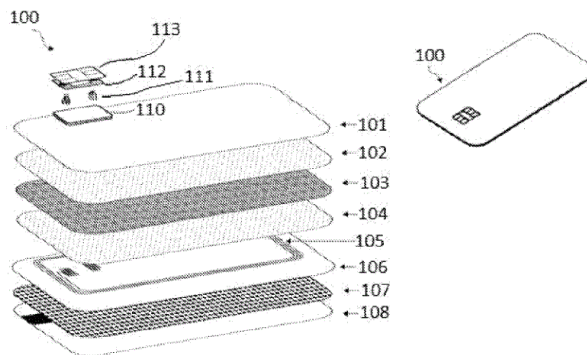
Fig. 1

21: 2024/05982. 22: 2024/08/02. 43: 2025/02/06
 51: G06K
 71: MCT CARDS & TECHNOLOGY PRIVATE LIMITED
 72: DEVADIGA, Shrikanth N, RAO, Sushir, SHET, Nishanth N, BHAT, Nagabhushan S, RAO, Sudhish S, GUPTE, Abhay
 33: IN 31: 202241000462 32: 2022-01-04

54: A DUAL INTERFACE SMART CARD WITH METAL FACE LAYER AND MANUFACTURING METHOD THEREOF

00: -
 The present invention relates to a dual interface smart card (100), comprising, a metal layer (101), a self-adhesive layer (102), a magnetic layer (103), a dual adhesive layer (104), an antenna (105), an antenna inlay layer (106), an overlay layer (108) with magnetic strip, a filler material (110), integrated

circuit chip module (113), wherein, said metal layer (101) acts as a surface layer and said self-adhesive layer (102) creates a bond, said dual adhesive layer (104) bonds said magnetic layer (103) with said antenna inlay layer (106) and said overlay layer (108) with magnetic stripe is a protective layer for said printed layer (107) lay said magnetic stripe for swiping said dual interface smart card (100). The integrated circuit chip module (113) is embedded by using Te-connect process which comprises of solder paste to connect antenna (105) and module contact pads.

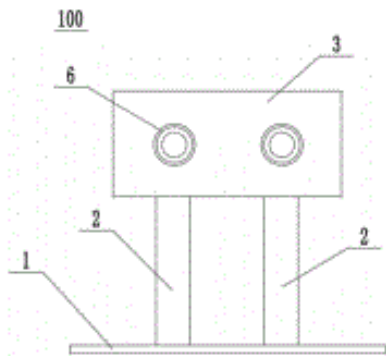


21: 2024/06005. 22: 2024/08/05. 43: 2025/02/06
 51: A63B

71: Qingdao University of Technology
 72: WANG, Jun, QU, Hongjun

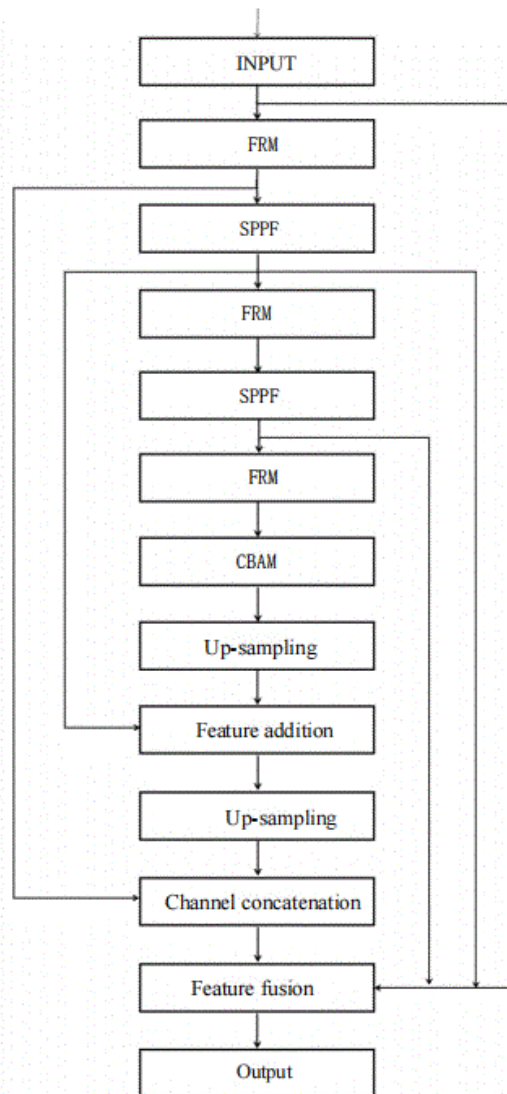
54: STRENGTH TRAINING DEVICE FOR MARTIAL ARTS

00: -
 Disclosed is a strength training device for martial arts. The strength training device for martial arts includes a box body, supporting columns and a base which are fixedly connected from top to bottom, where a fixed shaft is fixedly arranged in the box body, the box body is provided with a rotating bracket, and the rotating bracket includes two rotating plates. A sleeve is arranged in a side wall of the box body corresponding to each of the two connecting rods separately, the connecting rods are arranged in the corresponding sleeves in a penetrating manner, and the connecting rods slidably match the corresponding sleeves. The rubber rods are located outside the box body, a buckle can be sleeved on a part of each of rod bodies of the connecting rods between the sleeves and the rubber rods, two ends of the buckle are provided with limiting protrusions.



21: 2024/06006. 22: 2024/08/05. 43: 2025/02/06
 51: G06T
 71: Yangtze Delta Region Institute (Huzhou),
 University of Electronic Science and Technology of
 China
 72: Shaoning ZENG, Yunbo RAO, Yuling YI
 33: CN 31: CN 2023114260906 32: 2023-10-31
**54: METHOD FOR INFORMATION FUSION AND
 VISUAL ENHANCEMENT NETWORKS AND
 COMPUTER DEVICES THEREOF**

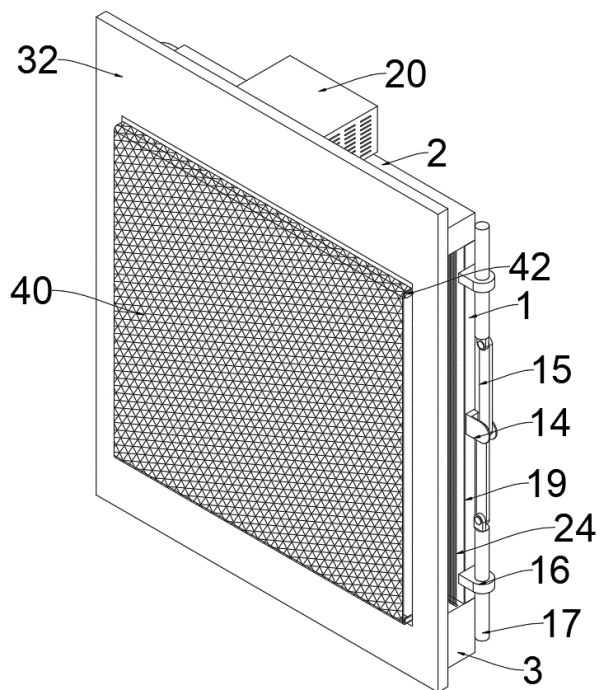
00: -
 Provided herein is a method for an information fusion and visual enhancement network, which comprises the following steps: step 1, putting an original image into an information fusion image enhancement module; step 2, extracting high-level semantic features; step 3: conducting a feature concatenation and a feature fusion; and step 4: performing a model training. It utilizes a deep learning technology, achieves intelligent analysis of the input image content and characteristics through autonomous learning and automatic parameter adjustment. Consequently, it dynamically selects the optimal enhancement method without the need for manual intervention, significantly enhancing the convenience of operation and user experience. Additionally, after performance optimization, it can be widely applied in real-time or high-throughput scenarios. It provides users with fast and high-quality image enhancement services, and it is expected to find broad application across multiple fields.



21: 2024/06007. 22: 2024/08/05. 43: 2025/02/10
 51: F42D
 71: Anhui Jiangnan Blasting Engineering Co., Ltd
 72: Fan Baolong, Gao Pengfei, Ma Guoqiang, Yang
 Ling, Yan Bo, Ge Lifang, Wang Gang, Luo Jiangtao,
 Zhou Xing
 33: CN 31: 2024105936736 32: 2024-05-13
**54: PROTECTIVE DEVICE FOR BUILDING
 BLASTING AND PROTECTIVE METHOD
 THEREFOR**

00: -
 Disclosed are a protective device for building blasting and a protective method therefor, falling within the field related to building blasting protection. Currently, the too tight tie of a quilt, a mat and other flexible protective structures is against the impact, resulting in serious damage due to the impact, which is not conducive to the protection against flying

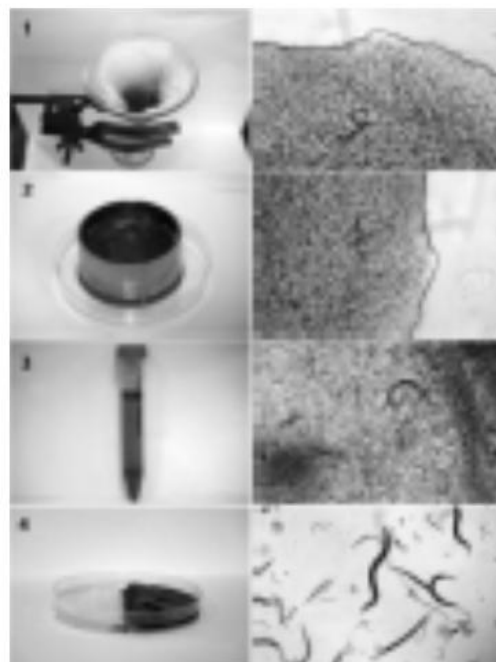
stones and dust in blasting process and in a period of time after the blasting, and the too loose tie deforms the position facing the maximum impact, resulting in protection gap generated in other positions. To solve the above problems, a blasting impact protection unit includes a blasting impact protection plate, the blasting impact protection plate is internally arranged with a sixth rectangular hollow cavity, a first connecting piston is arranged at an upper end of an interior of the sixth rectangular hollow cavity, a second connecting piston is arranged at a lower end of the interior of the sixth rectangular hollow cavity, and a middle sealed cavity is formed between the first connecting piston and the second connecting piston inside the sixth rectangular hollow cavity.



21: 2024/06008. 22: 2024/08/05. 43: 2025/02/06
 51: C12Q; G01N
 71: ZHEJIANG UNIVERSITY
 72: HOU, Jie, HU, Chao, LIANG, Zhongxue, CAO, Qinqin, LIN, Daohui
 33: CN 31: 2024109462387 32: 2024-07-25
54: METHOD FOR EVALUATING TOXICITY OF EMERGING CONTAMINANTS IN SOIL ON NEMATODES

00: -
 The present invention discloses a method for evaluating toxicity of emerging contaminants in soil

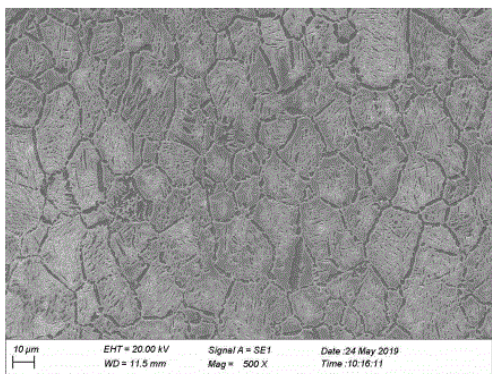
on nematodes. The method specifically includes: preparing simulated contaminated soil, and dividing a vessel configured to isolate *Caenorhabditis elegans* into a left zone and a right zone, which are an *Escherichia coli* culture zone and a soil placement zone respectively; adding a solid culture medium into the *Escherichia coli* culture zone, and inoculating *Escherichia coli* on the solid culture medium; adding, after cultivating the *Escherichia coli* for a period of time, soil containing the *Caenorhabditis elegans* into the soil placement zone, conducting standing for 3 h-5 h, and enabling the *aenorhabditis elegans* to crawl from the soil placement zone to the *Escherichia coli* culture zone through sitotaxis of the *Caenorhabditis elegans* for the *Escherichia coli*; and taking the solid culture medium, washing a surface of the solid culture medium, and collecting the *Caenorhabditis elegans*.



21: 2024/06011. 22: 2024/08/05. 43: 2025/02/06
 51: B23K
 71: HARBIN WELDING INSTITUTE LIMITED COMPANY
 72: ZHOU, Jun, WU, Yanquan, ZHANG, Chunbo, LIANG, Wu, LI, Yunlei, LI, Rui, QIN, Feng, LIN, Yue, WANG, Qi, YANG, Haifeng, ZHANG, Wenhan, WANG, Zhiyong, ZHANG, Xuelong, YUAN, Mingqiang, ZHAO, Yushan, YAN, Hanlin, XU, Ming, HUANG, Caiyan

33: CN 31: 202310904568.5 32: 2023-07-24
54: WELDING METHOD FOR Ti2AlNb-BASED ALLOY

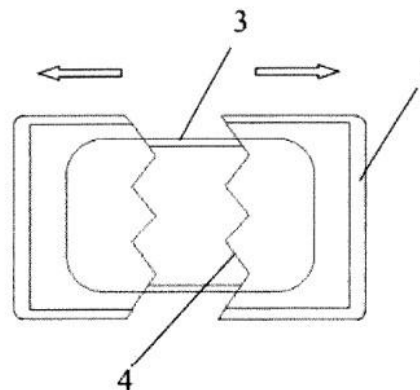
00: -
 The present invention belongs to the technical field of welding, and particularly relates to a welding method for a Ti2AlNb-based alloy. The present invention provides a welding method for a Ti2AlNb-based alloy, including the steps of: performing solid solution treatment on the Ti2AlNb-based alloy to obtain a Ti2AlNb-based alloy in a solid solution state; welding the Ti2AlNb-based alloy in a solid solution state to obtain a welded Ti2AlNb-based alloy; and performing heat preservation treatment, first aging heat treatment, and second aging heat treatment successively on the welded Ti2AlNb-based alloy to obtain a welded alloy. According to the welding method provided by the present invention, the microstructure type and the distribution state of a welded joint and a base metal are optimized while eliminating the residual stress of the welded joint, thereby effectively improving the strength performance of Ti2AlNb-based alloy inertia friction welding assemblies.



21: 2024/06014. 22: 2024/08/05. 43: 2025/02/06
 51: A61F; B65D
 71: GERASIMENKO, Vadim Mihajlovich
 72: GERASIMENKO, Vadim Mihajlovich
 33: RU 31: 2022102436 32: 2022-02-02
54: CONDOM PACKAGE

00: -
 The invention relates to barrier contraceptives, and more particularly to a condom package capable of securely retaining a condom until the latter is fully unrolled. The claimed condom package comprises a wrapper having disposed therein a holder equipped with retainers for retaining a condom in a rolled

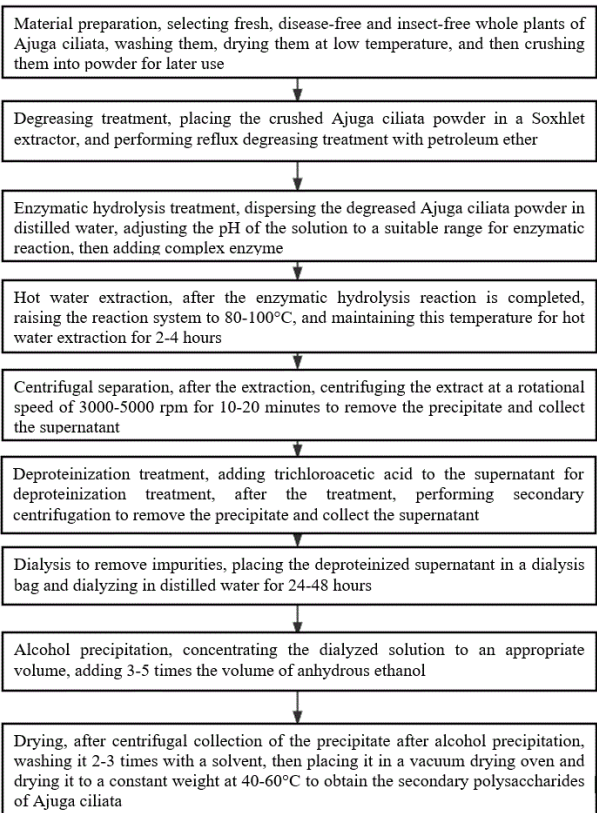
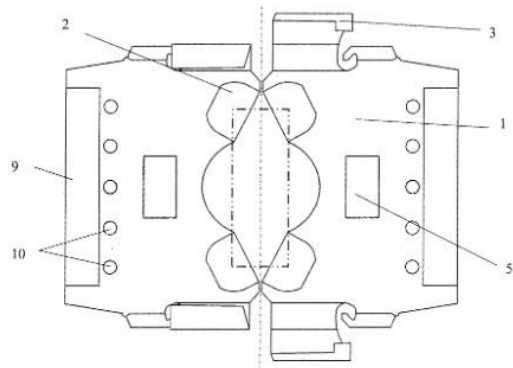
state, said retainers being arranged on the inner and/or outer side of the rolled condom, wherein a variably sized gap is provided in each retainer and/or at least between a pair consisting of an inner and an outer retainer, allowing a rolled condom to be placed in the retainers via the gap when the retainers are in one position, and preventing a fully rolled condom from detaching from the retainers when the latter are in another position.



Фиг. 1

21: 2024/06015. 22: 2024/08/05. 43: 2025/02/06
 51: A61F
 71: GERASIMENKO, Vadim Mihajlovich
 72: GERASIMENKO, Vadim Mihajlovich
54: CONDOM HOLDER

00: -
 The invention relates to the field of hygiene and human health, namely to the individual packing of condoms used as a means of contraception and prevention of infection transmission, in particular, to a condom holder designed to facilitate putting on a condom, avoiding its contamination and tearing when putting on. The condom holder includes a base with means for gripping the condom ring, and locking devices. The locking devices are made in the form of latches with a stopper. The base is made detachable. The means for gripping the condom ring are hook-shaped. The base is provided with handles for holding with fingers. The technical result is to ensure the fixation of a condom when putting it on (as the condom ring is unwound), as well as during transportation and storage in the individual packing.



21: 2024/06034. 22: 2024/08/06. 43: 2025/02/07
51: C12P

71: Huangshan University
72: PAN Le, ZHANG Yanfei, HUANG Xinghao, YANG Yujie, ZHANG Junhao

54: METHOD FOR EXTRACTING SECONDARY POLYSACCHARIDES FROM AJUGA CILIATA

00: -

The application relates to the technical field of polysaccharide extraction, and discloses a method for extracting secondary polysaccharides from *Ajuga ciliata*, which includes the following steps: S1.

material preparation: selecting fresh, disease-free and insect-free whole plants of *Ajuga ciliata*, washing them, drying them at low temperature, and then crushing them into powder for later use; S2. degreasing treatment: placing the crushed *Ajuga ciliata* powder in a Soxhlet extractor, and performing reflux degreasing treatment with petroleum ether to remove the fat-soluble components, the reflux time is 2-4 hours, after the treatment, taking out the sample powder and drying the residual solvent by natural ventilation; S3. enzymatic hydrolysis treatment: dispersing the degreased *Ajuga ciliata* powder in distilled water. In the degreasing treatment step, the fat-soluble components are effectively removed by petroleum ether reflux degreasing, reducing the interference of impurities on polysaccharide extraction and improving the purity of polysaccharides. In addition, the enzymatic hydrolysis treatment fully destroys the cell wall structure and promotes the release of polysaccharides, significantly improving the extraction efficiency of polysaccharides.

21: 2024/06035. 22: 2024/08/06. 43: 2025/02/07
51: C12P

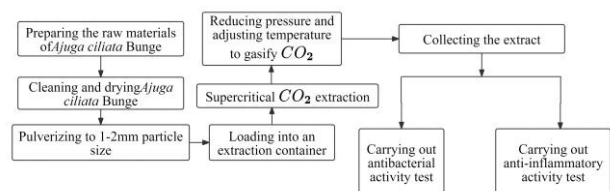
71: Huangshan University
72: PAN Le, ZHANG Yanfei, ZHANG Hujun, ZHANG Zhi, ZHOU Xin

54: METHOD FOR EXTRACTING ANTIBACTERIAL ACTIVE COMPONENTS FROM AJUGA CILIATA BUNGE

00: -

The invention relates to the technical field of the extraction of *Ajuga ciliata* Bunge, and discloses a method for extracting antibacterial active components from *Ajuga ciliata* Bunge, which includes the following steps: S1, cleaning and drying the plant material of *Ajuga ciliata* Bunge, and pulverizing to a particle size of 1-2mm; S2, loading the crushed *Ajuga ciliata* Bunge plant material into a high-pressure extraction container of a supercritical fluid extraction system; S3, using supercritical carbon dioxide as an extraction solvent, and carrying out extraction for 2-3 hours at a temperature range of 40 - 60°C and a pressure range of 200-300 bar. By using supercritical carbon dioxide and selectively adding ethanol as cosolvents, the extraction efficiency and selectivity are improved, the use of harmful solvents is reduced, and the environmental

impact is reduced. At the same time, the high purity and quality of the extract are ensured by rotary evaporator and high performance liquid chromatography, thus improving the stability and curative effect of the product.



21: 2024/06036. 22: 2024/08/06. 43: 2025/02/07
 51: C05G
 71: Institute of Plant Nutrition, Resources and Environment, Henan Academy of Agricultural Sciences
 72: Cuimin GAO, Yonghui YANG, Jicheng WU, Hao LIU, Yunhong ZHANG, Fang HE, Jinli DING, Xiaoying PAN

54: ORGANIC-INORGANIC HIGH-NITROGEN WATER-SOLUBLE FERTILIZER AND PREPARATION METHOD THEREOF

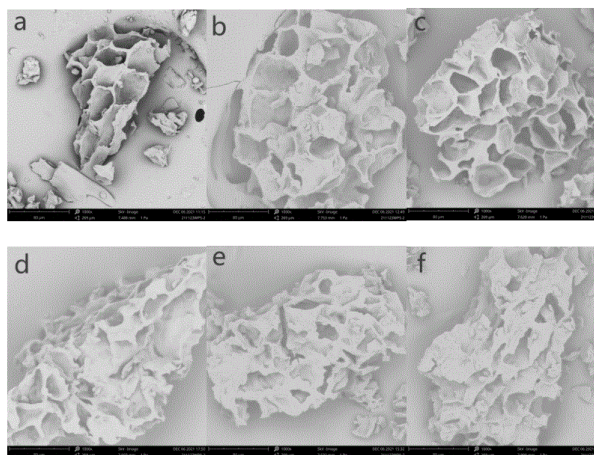
00: -
 Disclosed are an organic-inorganic high-nitrogen water-soluble fertilizer and a preparation method thereof. The organic-inorganic high-nitrogen water-soluble fertilizer is prepared from the following raw materials in parts by weight: 100 parts of biogas slurry, 20 -50 parts of urea, 12 -20 parts of potassium chloride or 12 -20 parts of potassium sulfate, 0.01 -0.1 parts of urease/nitrification inhibitor, 0.2 -8 parts of humic acid, 0.5 -10 parts of amino acid, 0.1 -5 parts of calcium, 0.02 -2 parts of magnesium, 0.05 -1 parts of sulfur, 0.05 -0.5 parts of iron, 0.03 -0.5 parts of zinc and 0.02 -1 parts of manganese. The organic-inorganic high-nitrogen water-soluble fertilizer has the characteristics of quick-acting nutrition, high absorption and utilization rate, and multi-nutrient nutrition and the like, and provides soil modification and nutrient guarantee for high yield, quality improvement and efficiency improvement of crops and green continuous development of the soil environment.

21: 2024/06037. 22: 2024/08/06. 43: 2025/02/07
 51: A23C
 71: Spice and Beverage Research Institute, Chinese Academy of Tropical Agricultural Science, Hainan

Xingke Tropical Crop Engineering Technology Limited Company
 72: DONG Wenjiang, ZHANG Jiyue, YU Xinxin, HU Rongsuo, DU Jiao, ZONG Ying

54: FLAVOR FREEZE-DRIED COFFEE AND PREPARATION METHOD THEREOF

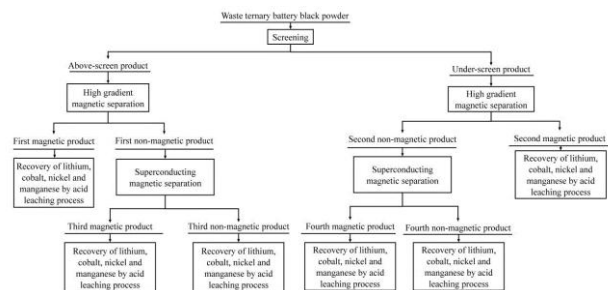
00: -
 The invention provides flavor freeze-dried coffee and its preparation method. The invention uses ultrasonic technology to assist deionized water extraction, low-temperature freezing centrifugation, low-temperature rotary evaporation concentration and vacuum freezing technology to produce cold-extracted flavor freeze-dried coffee under the unique continuous low-temperature processing conditions. Based on the unique physical characteristics and chemical composition of roasted coffee beans, the invention adopts continuous low-temperature processing technology to prepare cold-extracted flavor freeze-dried coffee, which avoids the loss of nutrients and flavor components in the extraction process, improves the nutrition and flavor quality of freeze-dried coffee, significantly shortens the processing time and improves the processing efficiency of coffee deep processing industry.



21: 2024/06061. 22: 2024/08/07. 43: 2025/02/07
 51: C22B
 71: Zhengzhou Institute of Multipurpose Utilization of Mineral Resources, CAGS
 72: WANG Wei, CHANG Xueyong, LIU Lin, LIU Hongzhao, CAO Yaohua, WANG Hongliang, WANG Ke

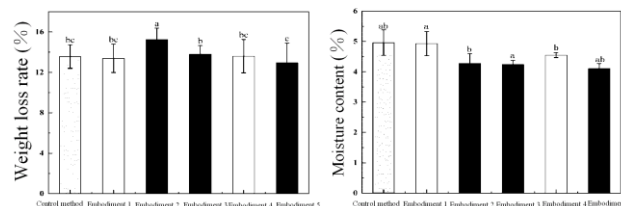
33: CN 31: 2024108315605 32: 2024-06-25
54: STAGE TREATMENT AND RECOVERY METHOD OF WASTE TERNARY LITHIUM BATTERY BLACK POWDER

00: -
 The invention discloses a stage treatment and recovery method of waste ternary lithium battery black powder, belonging to the technical field of waste lithium battery treatment and recovery. Based on the different particle size distributions of different components in the waste ternary lithium battery black powder, the invention firstly divides the waste ternary lithium battery black powder into an above-screen product and an under-screen product through screening; then respectively carrying out magnetic separation on the above-screen product and the under-screen product, and obtaining a magnetic product and a non-magnetic product after magnetic separation; among them, lithium, cobalt, nickel and manganese are enriched in magnetic products, while carbon and aluminum are enriched in non-magnetic separation products; finally, through the classified leaching of magnetic separation concentrate and magnetic separation tailings, the recovery rate of valuable components can be improved and the acid consumption can be reduced. The recovery method provided by the invention has the advantages of simple operation, high efficiency and wide application prospect.



21: 2024/06062. 22: 2024/08/07. 43: 2025/02/07
 51: A23F
 71: Spice and Beverage Research Institute, Chinese Academy of Tropical Agricultural Science, Hainan Xingke Tropical Crop Engineering Technology Limited Company
 72: DONG Wenjiang, YU Xinxin, ZHANG Jiyue, HU Rongsuo, HUANG Mei, ZONG Ying
54: FLAVOR COFFEE AND PREPARATION METHOD THEREOF
 00: -
 The invention relates to the technical field of food processing, in particular to a flavor coffee and its preparation method. According to the invention, different *Saccharomyces cerevisiae* are adopted to

carry out microbial inoculant treatment on peeled wet coffee beans processed by a semi-dry method, so as to promote the interaction and transformation of nutrients and flavor active substances in coffee beans. Compared with the samples processed by traditional semi-dry method, there are significant differences in pyrazines, alcohols, aldehydes and pyrroles in coffee beans inoculated by *Saccharomyces cerevisiae*, and the cup score of sensory evaluation is higher than that of uninoculated samples as a whole. Therefore, *Saccharomyces cerevisiae* is expected to be a high-quality microbial starter in semi-dry coffee processing, in order to provide theoretical basis and technical support for the improvement of coffee primary processing technology, product flavor and quality.

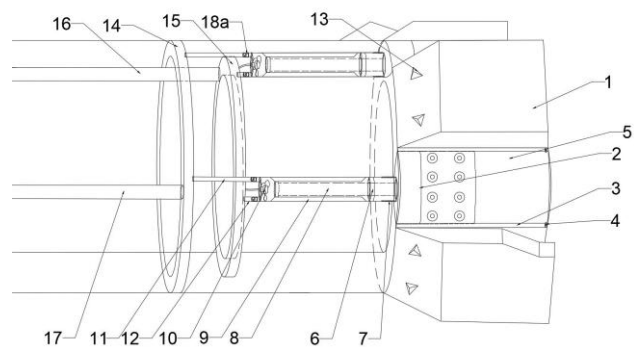


21: 2024/06064. 22: 2024/08/07. 43: 2025/02/07
 51: E02D
 71: CCTEG BEIJING CHINA COAL MINE ENGINEERING CO.,LTD, CHINA UNIVERSITY OF MINING AND TECHNOLOGY-BEIJING
 72: XIE Fuxing, GAO Xiaogeng, HE Wen, CHEN Dongdong, YANG Xiangyu, XIANG Junxing, XIE Tengda, LI Shengsheng, HE Hongwei, YANG Hongjun, SI Yanqiang, LI Guanghong, ZHANG Hongfa, ZHANG Zhifeng, ZHAO Wenkang, JIA Qingbo, LI Zijian, CHANG Jingchen, ZHANG Zhixuan

54: DIRECTIONAL DRILLING INTO FAULT FRACTURE ZONE PARTITION GUNITING ANTI-COLLAPSE HOLE SYSTEM AND USE METHOD THEREOF

00: -
 The invention relates to a directional drilling into fault fracture zone partition guniting anti-collapse hole system and a use method thereof, which comprises a hydraulic propulsion column, a slurry propulsion channel, a hybrid propeller, a circular hole liquid-passing snap ring, a telescopic pipeline, a moving grouting spray surface, a spray surface slideway, a self-locking device, a slurry conveying pipeline, a slurry distribution ring, a slurry distribution pipeline, a

check valve, a grouting pipe, a bag, a blasting valve and an overturning device. After directional drilling into the fractured zone, the moving grouting spray surface pushed out by slurry pressure during withdrawal, two kinds of slurry are mixed into quick-setting slurry through a hybrid propeller in the slurry pushing channel to carry out rotary grouting and stable drilling, and then they extend into the grouting hole sealer for grouting. The invention has the characteristics of simple structure, stability, reliability, strong adaptability and the like, can effectively improve the stability of drilling holes in fault fracture areas, and provides a safer and more efficient solution for drilling solidification grouting operation.



21: 2024/06065. 22: 2024/08/07. 43: 2025/02/07
51: G06K

71: Dr. Himadri Mandal, Dr. Amit Phadikar, Dr. Goutam Kumar Maity, Dr. Angshuman Majumdar, Dr. Ramkrishna Rakshit, Dr. Aniruddha Ghosh, Dr. Subhalaxmi Chakraborty, Atanu Chowdhury, Calcutta Institute of Technology, University of Engineering and Management, Kolkata, Brainware University

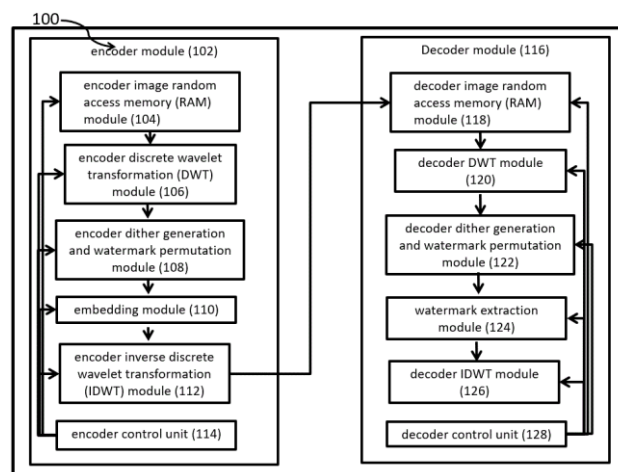
72: Tien-Lung Chiu, Dr. Himadri Mandal, Dr. Amit Phadikar, Dr. Goutam Kumar Maity

54: A SYSTEM BASED ON DATA HIDING TECHNIQUE FOR EFFICIENT QUALITY ACCESS CONTROL OF IMAGES AND A METHOD THEREOF

00: -

The present invention relates to a system and method based on data hiding technique, for efficient quality access control of images. The present invention discloses a hardware implementation of a data hiding technique for efficient quality access control of images using lifting-based discrete wavelet transformation (DWT). It comprises modules for image storage, DWT/IDWT, dither generation, watermark permutation, embedding, and extraction.

A binary watermark is embedded into the DWT coefficients of the host image using adaptive dither modulation, enabling access control. The hardware architecture, designed using power-aware techniques, offers low power consumption of 78.48mW at 130.14MHz for 512x512 images. It achieves high throughput of 23.8MB/s for encoding/decoding, minimal resource utilization, and avoids storing the original image, reducing memory requirements. The invention provides an efficient, real-time, and easily integrable solution for image access control, enabling content protection and commercial benefits for vendors while allowing authorized users to access superior quality.



21: 2024/06066. 22: 2024/08/07. 43: 2025/02/12
51: F42D

71: Anhui Jiangnan Blasting Engineering Co., Ltd
72: Yang Shichun, Gao Pengfei, Ma Guoqiang, Yang Ling, Ge Lifang, Wang Gang, Fan Baolong, Yan Bo, Luo Jiangtao, Zhou Xing

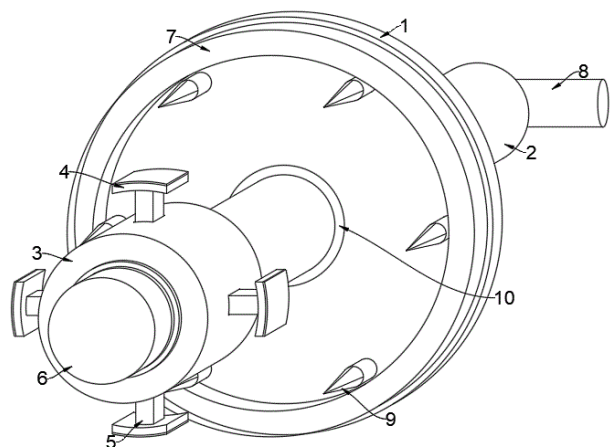
33: CN 31: 2024105937122 32: 2024-05-13

54: BLAST-HOLE CLOSURE ASSEMBLY AND CLOSURE METHOD THEREFOR

00: -

Disclosed is a blast-hole closure assembly and a closure method therefor. The blast-hole closure assembly includes a first connecting sleeve, arranged above a blocking disk, a mounting seat being arranged at one end of the first connecting sleeve; a driving cavity, disposed at a center of the mounting seat, four telescopic cavities being disposed inside the mounting seat, and second connecting sleeves are arranged inside the four telescopic cavities; and a rotating rod, arranged inside the first connecting sleeve, a nut being

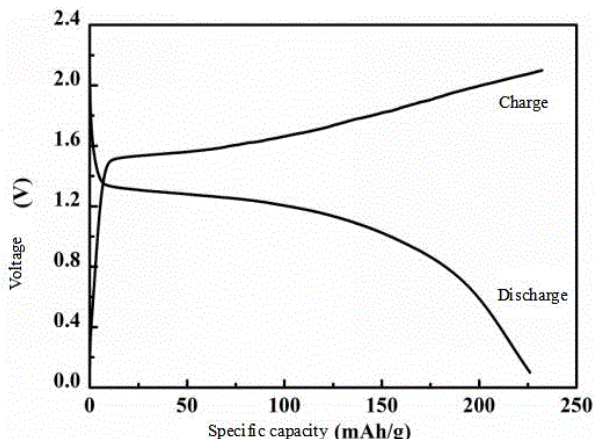
arranged at one end of each of the four second connecting sleeves, screws being arranged inside the second connecting sleeves, and a driven bevel gear and a driving bevel gear being arranged inside the drive cavity. A fixing structure of the closure assembly is formed by four retractable second connecting sleeves. The mounting seat is inserted into a blast-hole, the four second connecting sleeves are extended and the fixing block is in close contact with an inner wall of the blast-hole to effectively fix the closure assembly. A gap between the blocking disk and the ground is filled by an airbag to improve the effect of the closure of the blast-hole.



21: 2024/06092. 22: 2024/08/08. 43: 2025/02/12
 51: H01G
 71: Henan University of Urban Construction
 72: LIU Chengyuan, JIE Chaoyang, CAO Dao, LIU Lei, YIN Xupeng, ZHANG Shuaixiang, LI Junchi
54: RECHARGEABLE HYBRID BATTERY

00: -
 The invention discloses a rechargeable hybrid battery, which belongs to the field of batteries. The raw materials of the rechargeable hybrid battery include a lithium-based positive electrode, a metal aluminum negative electrode and an electrolyte, and the electrolyte consists of lithium salt, aluminum chloride-based room-temperature molten salt and a flame retardant. The lithium salt is adopted in the electrolyte of the invention, which not only improves the physical and chemical properties of the electrolyte, but also effectively inhibits the growth of "dendrite" and "dead aluminum" on the aluminum negative electrode, and improves the stability of the aluminum negative electrode and the safety of the

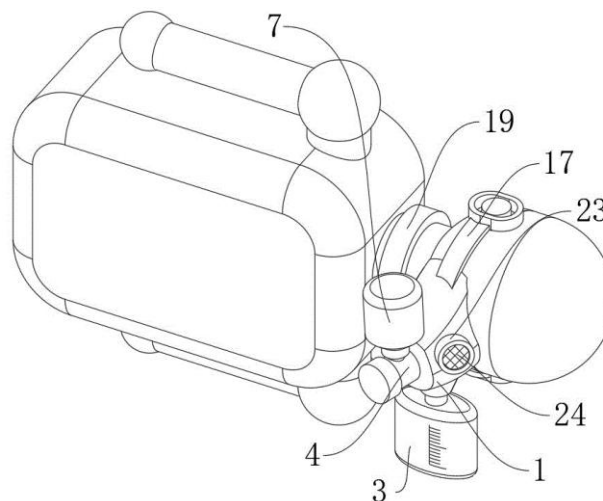
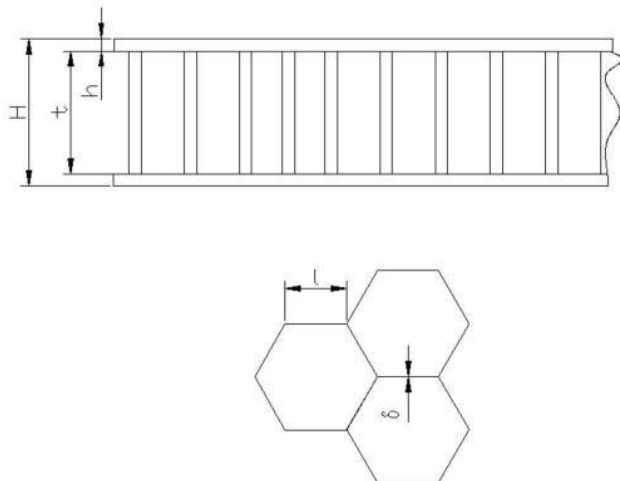
battery. The adopted positive active material is the electrode material of a commercial lithium battery, and the negative electrode aluminum element is rich in the earth's crust, which is cheap and reduces the preparation cost of the electrode and the battery.



21: 2024/06095. 22: 2024/08/08. 43: 2025/02/12
 51: B31B; G01M
 71: SHENZHEN POLYTECHNIC UNIVERSITY
 72: WANG, Dongmei, ZHOU, Hao

54: DAMPING EVALUATION METHOD FOR PAPER HONEYCOMB STRUCTURES

00: -
 The present invention relates to the technical field of mechanics, in particular to a damping evaluation method for paper honeycomb structures. Based on the characteristics of honeycomb fiberboards, damping calculation methods of the honeycomb fiberboards with different specifications during vibration are provided, theoretical bases for the design of packaging boxes are provided, and basic calculation methods are also provided for the damping calculation of packaging systems. According to the present invention, the method includes the following steps: S1. axial strength characterization of honeycomb fiberboards; and S2. basic theory of damping and damping characterization of honeycomb fiberboards.

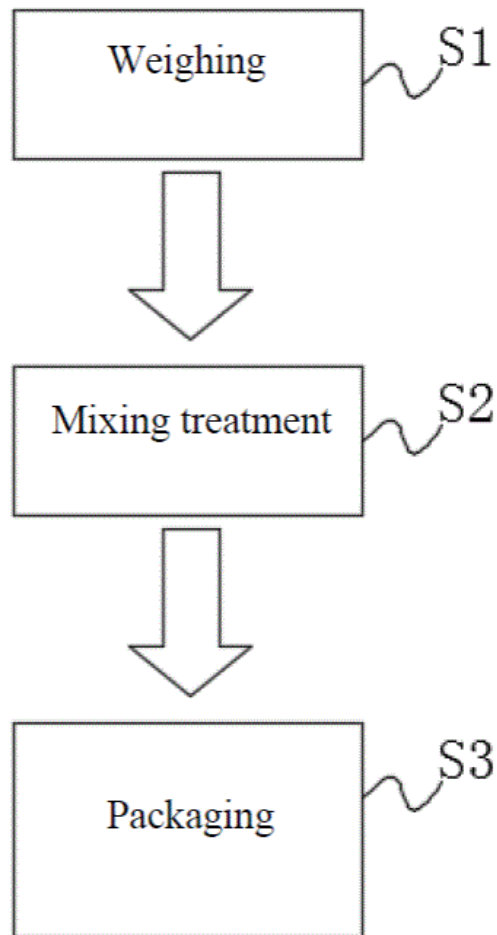
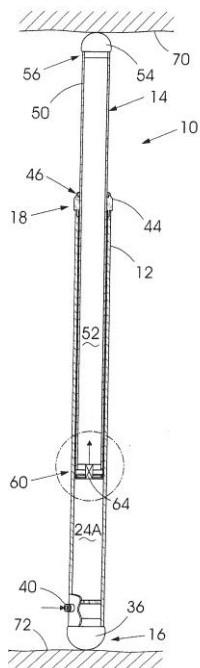


21: 2024/06098. 22: 2024/08/08. 43: 2025/02/12
 51: A61J
 71: The Second Affiliated Hospital of Nanchang University
 72: Xueqin Li, Shufang Wang, Huilan Zhai, Fen Xie, Zhili Wen, Dandan Wang, Rui Hu
54: PROTECTIVE DEVICE FOR PREVENTING VOMIT POLLUTION DURING GASTROSCOPY
 00: -

The invention discloses a protection device for preventing vomit pollution in general gastroscopy, and relates to the technical field of gastroscopy equipment. The invention comprises a mask, wherein the bottom of the mask is communicated with a collecting pipe, the bottom of the collecting pipe is communicated with a collecting bag, and the front side of the mask is communicated with a supporting tube; the front side of the mask is provided with a lubricating component, and the lubricating component comprises a connecting pipe, wherein the connecting pipe is communicated with the top of the supporting tube, and the top of the surface of the connecting pipe is connected with a fixed tube in a threaded way. According to the invention, due to the arrangement of the mask, the mask can be attached to the patient's mouth during gastroscopy, so as to play the role of shielding, and prevent the patient from spitting vomit when the gastroscope is inserted; due to the arrangement of the collecting bag, the vomit can be collected, which is convenient for medical staff to clean; and due to the arrangement of the lubricating component, the surface of the gastroscopy insertion part can be lubricated when the gastroscopy is inserted, so that the discomfort of the patient is reduced.

21: 2024/06099. 22: 2024/08/08. 43: 2025/02/13
 51: E21D
 71: MSP MINE SUPPORT PRODUCTS (PTY) LTD
 72: NISSEN, Christian Engelstoff
 33: ZA 31: 2023/08923 32: 2023-09-21
54: SUPPORT PROP
 00: -

A support prop which includes a cylindrical aluminium liner which is externally reinforced with a shell made from a composite material, an aluminium plunger with a seal which engages with an inner surface of the liner, a filler valve through which a volume inside the liner, adjacent the seal, in use is pressurized with a fluid, and a pressure relief valve which in use allows fluid under pressure to escape from the volume as the plunger is forced into the liner.

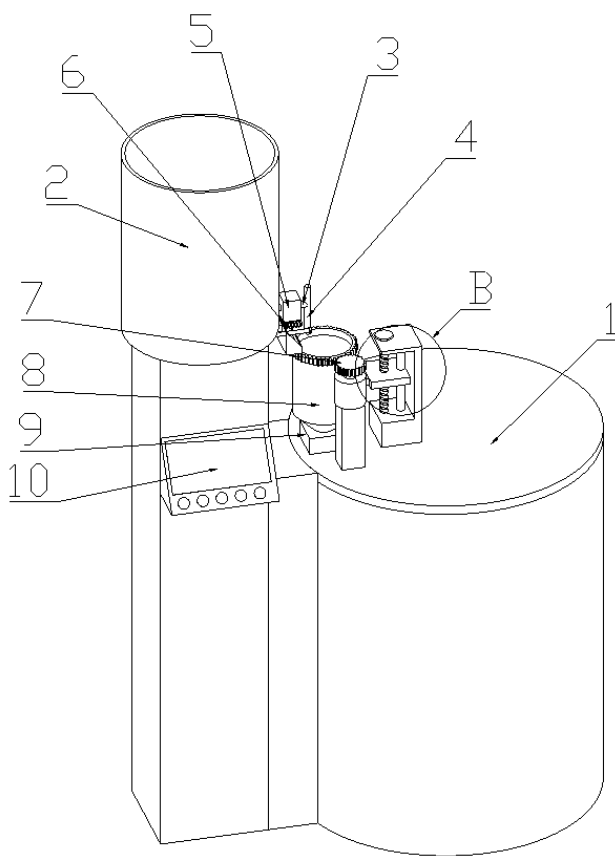


21: 2024/06100. 22: 2024/08/08. 43: 2025/02/12
 51: A61K
 71: Ji'an City Horticulture Field
 72: Xiao Weiming, Xiao Min
54: MEDICAMENT FOR CORRECTING FRUIT GRANULATION AND INTERNAL CRACK OF HONEY POMELOS AND PREPARATION METHOD THEREFOR

00: -
 The present invention relates to the technical field of agriculture, and in particular to a medicament for correcting fruit granulation and internal crack of honey pomelos and a preparation method therefor. The method includes: S1, weighing: weighing 5 parts of rapeseed cake, 3 parts of magnesium sulfate, 10 parts of boric acid, 2 parts of uniconazole, 2 parts of magnesium sulfate, 20 parts of urea, 2 parts of ammonium phosphate, 12 parts of cyclodextrin, 2 parts of maleic acid, 2 parts of maleic acid, 1 parts of phytic acid, 5 parts of sucrose ester and 70 parts of water using a weighing apparatus, and placing the same separately in containers for later use; S2, mixing treatment; and S3, packaging. The medicament contains rich organic fertilizer and can provide rich boron, calcium, phosphorus and other elements for fruits, effectively inhibiting fruit granulation, reducing internal crack, significantly improving the inhibitory effect, and further improving the production quality of honey pomelos.

21: 2024/06101. 22: 2024/08/08. 43: 2025/02/12
 51: B01J
 71: Jiangsu College of Nursing
 72: Zhang Yanjun
 33: CN 31: 2024108850953 32: 2024-07-03
54: SYNTHETIC REACTION DEVICE FOR PRECISE FEEDING OF CHEMICAL DRUGS
 00: -
 Disclosed is a synthetic reaction device for precise feeding of chemical drugs, falling within the field of chemical drug synthesis. A synthetic reaction kettle is included, one side of the synthetic reaction kettle is fixed with a support platform, the support platform is fixed with a drug storage barrel, the drug storage barrel is fixed with a discharge pipe, the discharge pipe is fixed with a discharge head, the discharge pipe is mounted with a discharge solenoid valve, and the discharge head is arranged with a receiving mechanism; the synthetic reaction kettle is fixed with a feeding barrel, a feeding solenoid valve is mounted between the feeding barrel and the synthetic

reaction kettle, and the feeding barrel is arranged with a dosing mechanism; and the support platform is fixed with a control panel. The control panel is utilized to switch on the discharge solenoid valve, allowing drugs into the feeding barrel through the discharge head from the drug storage barrel, and the dosing mechanism monitors the drug in the feeding barrel. When the drug in the feeding barrel reaches the required dosage, the control panel switches off the discharge solenoid valve, allowing the drug to be precisely fed to the synthetic reaction kettle.

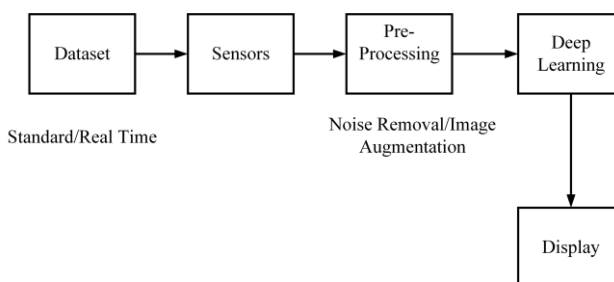


21: 2024/06102. 22: 2024/08/08. 43: 2025/02/12
 51: G06Q
 71: Dr. Haider Mehraj
 72: Dr. Haider Mehraj

54: A MODEL FOR DETECTING APPLE LEAF DISEASE USING DEEP LEARNING ALGORITHMS

00: -
 Apple leaf diseases must be identified and prevented as soon as possible to improve productivity. Since convolutional neural networks (CNN) have produced significant achievements in the field of machine vision, deep CNN models are used in this work to identify and diagnose diseases

in apples from their leaves. When CNN models are developed from the scratch, they require many parameters and a significant computational cost. In this model, we therefore used standard CNN pre trained networks albeit with optimisation to speed up the training and reduce computational cost. The implemented models were trained with an open dataset consisting of 3 different classes of apple diseases and one healthy class. The implemented models achieved a disease-classification accuracy rates of 98.13% and 96.12%, using ResNet1 and InceptionV3, which were greater than that of traditional handcrafted-feature-based approaches.

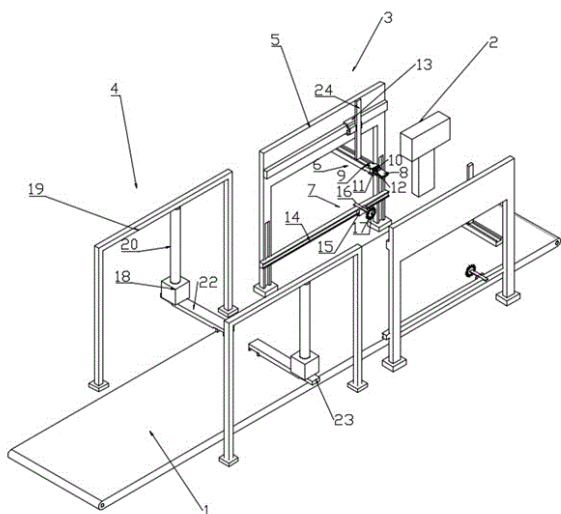


21: 2024/06139. 22: 2024/08/12. 43: 2025/02/13
 51: G01R
 71: Zhejiang Technical Institute of Economics
 72: JIANJUN XU, WEIYUE ZHAO, TENGFEI XIANG, YOUMING WANG

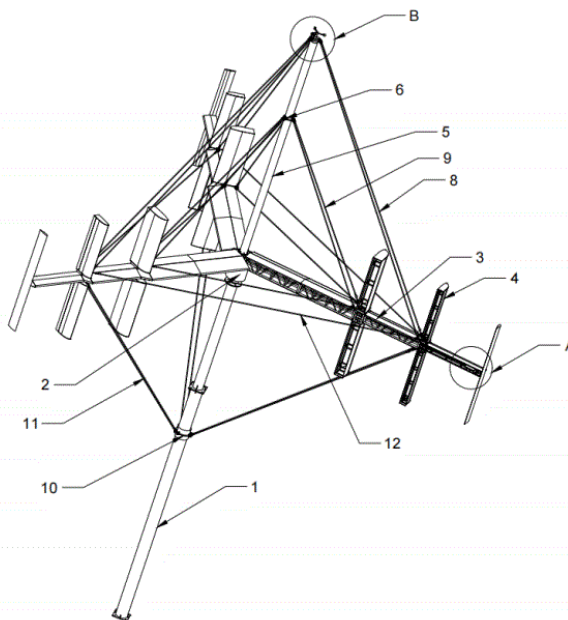
54: AN AUTOMATIC SORTING DEVICE FOR RECYCLING OF USED LITHIUM BATTERIES

00: -
 The present invention discloses an automatic sorting device for recycling waste lithium batteries, which includes a scanner on the side of the starting position of the transportation platform, a shell unloading device on the inward side of the scanner, a pressure measuring transfer device on the side where the shell unloading device is separated from the scanner, and a shell unloading device located on the first support frame. The shell unloading device includes a top tearing cover device on the upper side of the first support frame and a sawing edge device on the lower side. There is a clamp plate on the top cover tearing device, with one end of the clamp plate hinged to the side of the first sliding rod, the side of the clamp plate hinged to the connecting rod, and the connecting rod hinged to the support seat. The support seat is fixedly connected to the sliding column, and the sliding column is slidably connected

to the first sliding rod. The lower end face of the first sliding rod is slidably connected to the second sliding rod, and the side of the second sliding rod is slidably connected to the sliding block. The first sliding block is slidably connected to the first support frame. The advantage of the present invention compared to prior art is that it adopts a pipeline type mechanical disassembly with high efficiency, is safer than manual disassembly, and avoids the situation of battery explosion and injury to people.



pressure control method for a high pressure jet booster vertical axis wind power generation device, which can timely open or close the compressor and the electromagnetic valve according to the size of the wind power.



21: 2024/06141. 22: 2024/08/12. 43: 2025/02/13
 51: F03D
 71: Shaanxi Kerlimar Engineers Co., Ltd.
 72: SUN, Ming
 33: CN 31: 202311270305.X 32: 2023-09-28
54: HIGH PRESSURE JET BOOSTER VERTICAL AXIS WIND POWER GENERATION DEVICE AND METHODS OF HIGH PRESSURE CONTROL
 00: -

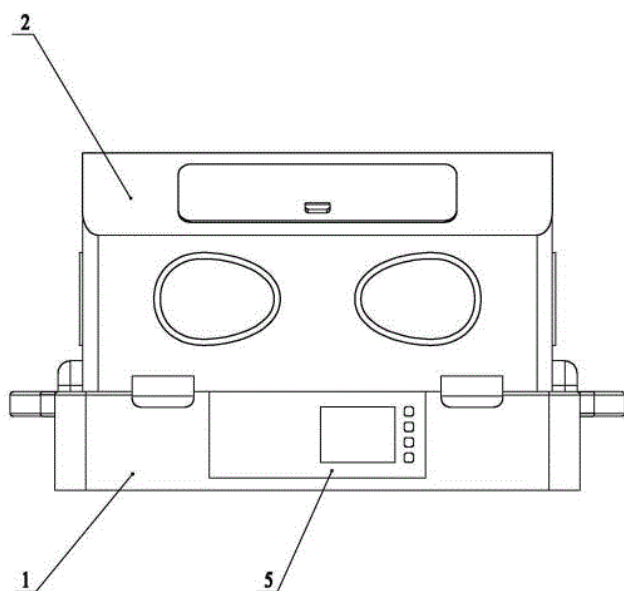
The present invention belongs to the field of wind power generation technology, specifically discloses a high-pressure jet booster vertical axis wind power generation body structure and a high-pressure jet boost assembly for driving the rotation of the vertical axis wind power generation body structure, where the vertical axis wind power generation body structure for extending the cantilever of the vertical axis wind power generation device, in order to overcome the problems of breeze power generation and intermittent power generation, a high-pressure jet boost assembly to power the cantilever and improve the power generation efficiency. Based on this, the present invention also discloses a high

21: 2024/06143. 22: 2024/08/12. 43: 2025/02/13
 51: A61G
 71: Affiliated Women's Hospital of Jiangnan University
 72: JIANG Shanyu, YU Renqiang, LI Ping, QIAN Weilin

54: INTELLIGENT MONITORING INCUBATOR FOR NEWBORNS AND INTELLIGENT MONITORING METHOD

00: -
 The invention relates to an intelligent monitoring incubator for newborns and an intelligent monitoring method. The intelligent monitoring incubator includes a incubator base and a incubator cover, a incubator control box is arranged on the incubator base; a setting module, a storage module, an alarm module and a processing module are arranged in the incubator control box. The setting module is used for inputting information of newborns; the storage module is used for storing calculation control programs and related numerical values associated with the above information; the alarm module is used for sending an alarm signal; the processing module is used for presetting target parameters; and the processing module is also connected with a heating

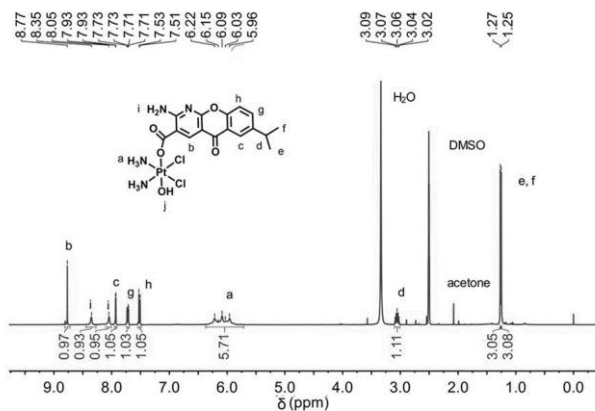
device and a humidifying device. A skin temperature probe, an in-box temperature sensor, a humidity sensor, an oxygen concentration sensor and an oxygen supply device are arranged in the intelligent incubator for newborns, and the skin temperature probe, the in-box temperature sensor, the humidity sensor, the oxygen concentration sensor and the oxygen supply device are respectively connected with the processing module. The invention can realize intelligent regulation of temperature, humidity and oxygen concentration, and provide a suitable small environment for newborns, especially premature infants.



21: 2024/06147. 22: 2024/08/12. 43: 2025/02/13
 51: A61K
 71: Henan University of Urban Construction
 72: GUO Yan, ZHANG Shuaiguo, HU Jiyong, FENG Qiao, DANG Liyun, SONG Yongxin, WANG Shan, HU Nan, LI Guochao
54: TETRAVALENT PLATINUM OVARIAN CANCER CELL DEATH INDUCER AND PREPARATION METHOD AND APPLICATION THEREOF

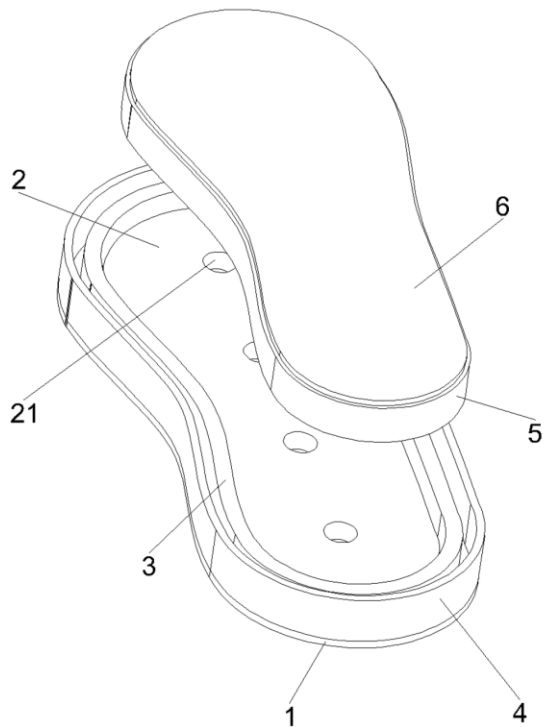
00: -
 The invention discloses a tetravalent platinum ovarian cancer cell death inducer and a preparation method and application thereof, and belongs to the technical field of anti-tumor tetravalent platinum complexes. The preparation method provided by the invention has the advantages of simple process, convenient operation and good product stability; the prepared tetravalent platinum ovarian cancer cell

death inducer has strong cytotoxicity on cisplatin-resistant ovarian cancer cell lines at the cellular level, and can simultaneously induce different types of death modes of tumor cells. Therefore, it can solve the toxicity and drug resistance problems of traditional platinum drugs and improve the anti-tumor effect of platinum drugs.



21: 2024/06152. 22: 2024/08/12. 43: 2025/02/13
 51: A43D
 71: ZHEJIANG LIKANG SHOES MATERIAL CO., LTD.
 72: JIN, Shenghua, WANG, Liang, HUANG, Huafeng
54: MAKING PROCESS OF SHOE MIDSOLE
 00: -

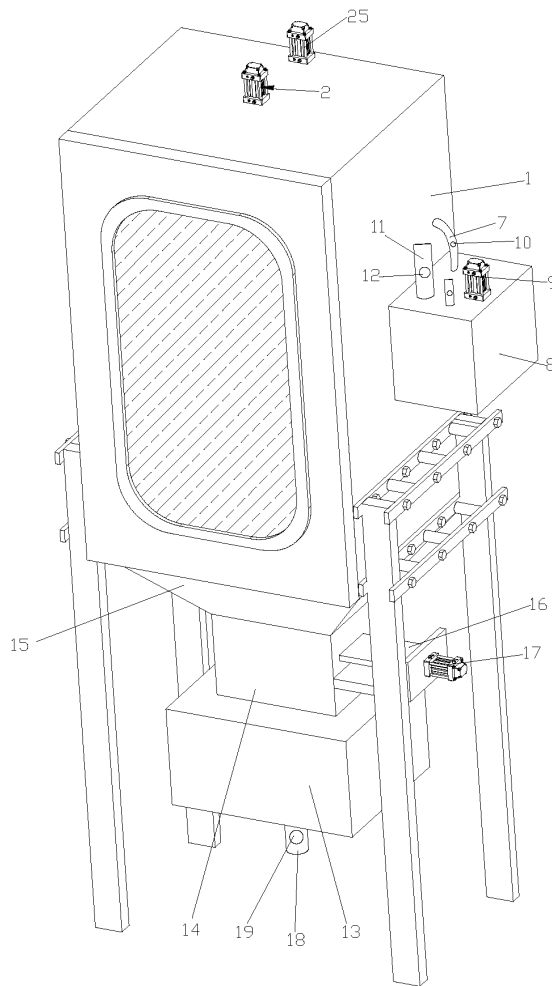
The present invention discloses a making process of a shoe midsole, comprising the following steps: stack multiple sheets of dried pulp paper between a template and a pressing plates; b. cut the pulp paper by displacing a cutting blade on the outer periphery of the pressing plate downwards; c. displace the pressing plate downwards; d. inject glue into the inner side of outer ring 1 through the glue injection hole opened on the template; f. drive the pressing plate to press down on the template, and shape the pulp paper by pressing down the pressing plate; g. dry and trim the shaped pulp paper to produce the required shoe midsole. By cutting the pulp paper first, then using the outer ring 1 to limit the outer periphery of the pulp paper, and pre-pressing the cut pulp paper with the pressing plate, there will be no wrinkles or other issues in the making process, thereby improving the quality of the produced midsole.



21: 2024/06153. 22: 2024/08/12. 43: 2025/02/13
 51: B22C; B24B
 71: SUICHANG JINLEI MACHINERY CASTING CO., LTD
 72: FANG, Jianbing, PAN, Yangyan, WU, Rongfa, LEI, Xiaojun
54: SANDING DEVICE AND SANDING METHOD FOR CASTINGS

00: -
 The present invention relates to a sanding device and a sanding method for castings, including a box body and an iron casting clamping mechanism arranged inside the box body. A sliding seat is slidably connected inside the box body in a vertical direction; a moving seat I is driven and slidably connected to the sliding seat, a moving seat II is driven and slidably connected to the moving seat I, and the moving seat II is arranged opposite to the iron casting clamping mechanism; and a high-pressure sand blasting nozzle is driven and swingably connected to the moving seat II, a high-pressure sand delivery member is provided on the box body, and the high-pressure sand delivery member communicates with the high-pressure sand blasting nozzle through a pipe, so that the surface of iron castings can be sanded, which reduces cases in which the iron castings cannot be sanded due to different shapes, further improves the sanding

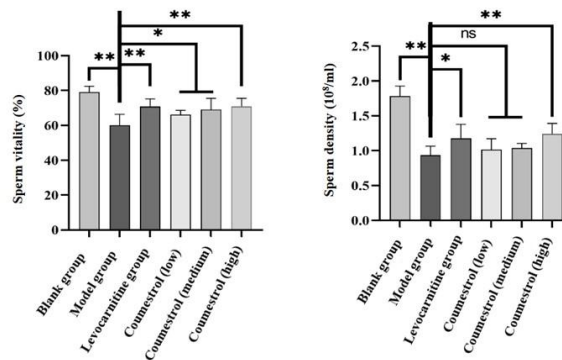
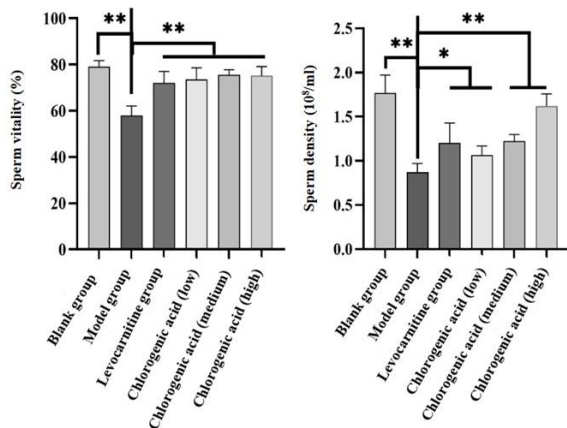
quality of the iron castings, and further increases the sanding effects of the iron castings.



21: 2024/06154. 22: 2024/08/12. 43: 2025/02/13
 51: A61K; A61P
 71: NORTHEAST AGRICULTURAL UNIVERSITY
 72: LI, Yanhua, CHEN, Long, LI, Shunda, ZHANG, Yu, ELIPHAZ, Nsabimana, QU, Qianwei, YAN, Mengshi, WANG, Haoran
54: APPLICATION OF CHLOROGENIC ACID IN PREPARING MEDICINES FOR TREATING OLIGOASTHENOZOOSPERMIA OR IMPROVING REPRODUCTIVE SYSTEM DAMAGE

00: -
 Disclosed is an application of chlorogenic acid in preparing medicines for treating oligoasthenozoospermia or improving reproductive system damage. According to the present invention, the effect of the chlorogenic acid on the oligoasthenozoospermia in rats is observed by constructing a model of oligoasthenozoospermia in

the rats, and a certain theoretical support is provided for the treatment of the chlorogenic acid in the oligoasthenozoospermia.



21: 2024/06155. 22: 2024/08/12. 43: 2025/02/13
51: A61K; A61P

71: NORTHEAST AGRICULTURAL UNIVERSITY
72: LI, Yanhua, LI, Shunda, CHEN, Long, ZHANG, Yu, ELIPHAZ, Nsabimana, QU, Qianwei, WANG, Haoran, YAN, Mengshi

54: APPLICATION OF COUMESTROL IN PREPARING MEDICINES FOR TREATING OLIGOASTHENOZOOSPERMIA OR IMPROVING REPRODUCTIVE SYSTEM DAMAGE

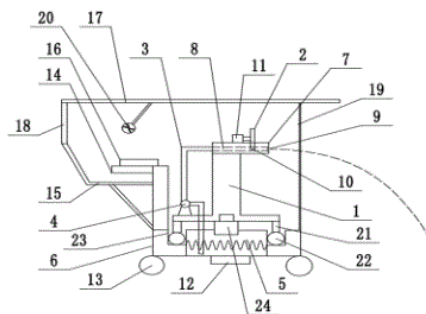
00: -
Disclosed is an application of coumestrol in preparing medicines for treating oligoasthenozoospermia or improving reproductive system damage. According to the present invention, the effect of the coumestrol on the oligoasthenozoospermia in rats is observed by constructing a model of the oligoasthenozoospermia in the rats, and a certain theoretical support is provided for the treatment of the coumestrol in the oligoasthenozoospermia.

21: 2024/06182. 22: 2024/08/13. 43: 2025/02/13
51: A01G

71: Jinling Institute of Technology
72: ZHANG, Min

54: GARDEN WATER-SAVING IRRIGATION DEVICE

00: -
The present invention discloses a garden water-saving irrigation device, including an irrigation body, a water baffle, a water delivery pipe, a water pump, a water storage tank and a movable base. The water storage tank is fixedly provided on the movable base, a bottom end of the irrigation body is provided on the movable base. An irrigation head is fixedly provided on a top end of the irrigation body, a water outlet channel is arranged in the irrigation head. A first end of the irrigation head is arranged with a water spray port. One end of the water delivery pipe is fixedly connected to a second end of the irrigation head, the other end of the water delivery pipe extends into the water storage tank. The water pump is provided on the water delivery pipe. The water baffle is provided on the irrigation head and can move up and down.



21: 2024/06189. 22: 2024/08/13. 43: 2025/02/12

51: C12N

71: Institute of Horticultural Crops, Xinjiang Academy of Agricultural Sciences

72: Zhang Songlin, Zhong Haixia, Cai Lu, Zhang Fuchun, Wu Xinyu, Zhou Xiaoming

54: GENE VVAGL62 FOR REGULATING AND CONTROLLING DEVELOPMENT OF GRAPE FRUITS, AND APPLICATION THEREOF

00: -

Disclosed are a gene VvAGL62 for regulating and controlling development of grape fruits, and application thereof. A complete open reading frame sequence of the gene is 312 bp, encoding 103 amino acids. The present disclosure constructs a vector pART-CAM-GFP-VvAGL62, and Arabidopsis thaliana and tomatoes are used as recipient materials for genetic transformation. It is found by researches that siliques/fruits of overexpressed Arabidopsis thaliana/tomato plants are increased significantly. The above results indicate that VvAGL62 regulates and controls development of the fruits and plays an important role in development of plant tissue and organs. The disclosed disclosure is the application of the gene VvAGL62 in development of new varieties of Fujiminori grapes.

Sequence+homologous arm.seqFGGAGGGACACG	13
62-4_PR_C2211150047_D02.txIRC	CCTCTATATAAGGAGTTCAATTCATTGGAGAGGACACG	40
62-8_PR_C2211150047_D04.txIRC	CCTCTATATAAGGAGTTCAATTCATTGGAGAGGACACG	40
Consensus	tgagagggacacg	
Sequence+homologous arm.seq	CTCGAGATGGCTACTATAAGAAAGAGTAAGGTCGCCAAA	53
62-4_PR_C2211150047_D02.txIRC	CTCGAGATGGCTACTATAAGAAAGAGTAAGGTCGCCAAA	80
62-8_PR_C2211150047_D04.txIRC	CTCGAGATGGCTACTATAAGAAAGAGTAAGGTCGCCAAA	80
Consensus	ctcgagatggctactataagaaagagtaaggctgccaaa	
Sequence+homologous arm.seq	GGGTTGAGATGACTAAAATGGCAAAGAAAGTAACCTACA	93
62-4_PR_C2211150047_D02.txIRC	GGGTTGAGATGACTAAAATGGCAAAGAAAGTAACCTACA	120
62-8_PR_C2211150047_D04.txIRC	GGGTTGAGATGACTAAAATGGCAAAGAAAGTAACCTACA	120
Consensus	gggttgagatgactaaaatggcaaaagaaagtaacctaca	
Sequence+homologous arm.seq	GGTACCTTTCCAAACGTCGGCTGGCCTTTCAAGAAA	133
62-4_PR_C2211150047_D02.txIRC	GGTACCTTTCCAAACGTCGGCTGGCCTTTCAAGAAA	160
62-8_PR_C2211150047_D04.txIRC	GGTACCTTTCCAAACGTCGGCTGGCCTTTCAAGAAA	160
Consensus	ggtacctttccaaaacgctggctggcctttcaagaaa	
Sequence+homologous arm.seq	GCTAGTGAATTGAGCACCTTTGTGGCCGCAAACTGCCA	173
62-4_PR_C2211150047_D02.txIRC	GCTAGTGAATTGAGCACCTTTGTGGCCGCAAACTGCCA	200
62-8_PR_C2211150047_D04.txIRC	GCTAGTGAATTGAGCACCTTTGTGGCCGCAAACTGCCA	200
Consensus	gctagtgaattgagcacctttgtggcccgcaaaactgccca	
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62-4_PR_C2211150047_D02.txIRC	TTATAGTCTTCTCCAGGTA AAAAAGTATATTCAATTTGG	240
62-8_PR_C2211150047_D04.txIRC	TTATAGTCTTCTCCAGGTA AAAAAGTATATTCAATTTGG	240
Consensus	ttatagctcttctccaggtaaaaaagtatattcaatttgg	
Sequence+homologous arm.seq	CCATCCATCTGTCGAATCCATCGTAGATCGGTTCCCTACA	253
62-4_PR_C2211150047_D02.txIRC	CCATCCATCTGTCGAATCCATCGTAGATCGGTTCCCTACA	280
62-8_PR_C2211150047_D04.txIRC	CCATCCATCTGTCGAATCCATCGTAGATCGGTTCCCTACA	280
Consensus	ccatccatctctgcaatcccatcgtagatcggttccctaca	
Sequence+homologous arm.seq	CGGAATCCCTTTACA AATGCTGGTACACTACAACCTTTTCG	293
62-4_PR_C2211150047_D02.txIRC	CGGAATCCCTTTACA AATGCTGGTACACTACAACCTTTTCG	320
62-8_PR_C2211150047_D04.txIRC	CGGAATCCCTTTACA AATGCTGGTACACTACAACCTTTTCG	320
Consensus	cggaatccctttacaaatgctggtagactacaaccttttcg	
Sequence+homologous arm.seq	AGGCTCATCGGGCTCAAACTACTACCAACCAATGAATT	333
62-4_PR_C2211150047_D02.txIRC	AGGCTCATCGGGCTCAAACTACTACCAACCAATGAATT	360
62-8_PR_C2211150047_D04.txIRC	AGGCTCATCGGGCTCAAACTACTACCAACCAATGAATT	360
Consensus	aggctcatcgggctcaaaactactaccaaccaaatgaatt	
Sequence+homologous arm.seq	CGACTACAGGATG.....	347
62-4_PR_C2211150047_D02.txIRC	CGACTACAGGATGACGATGACAGGGCGATTATAAAGAT	400
62-8_PR_C2211150047_D04.txIRC	CGACTACAGGATGACGATGACAGGGCGATTATAAAGAT	400
Consensus	cgactacaaggatg	
Sequence+homologous arm.seq	347
62-4_PR_C2211150047_D02.txIRC	GACGATGACAA	411
62-8_PR_C2211150047_D04.txIRC	GACGATGACAA	411
Consensus		

21: 2024/06190. 22: 2024/08/13. 43: 2025/02/12

51: G01N

71: Taizhou University

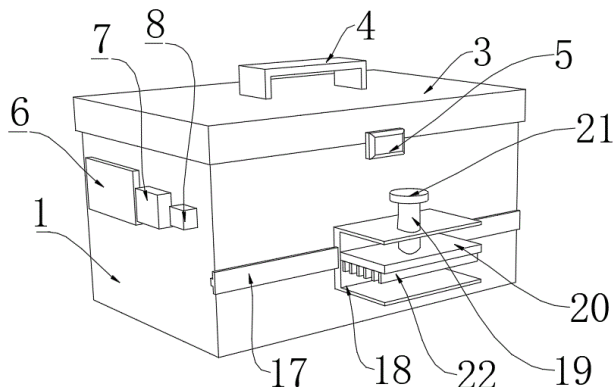
72: Fu Huansen, Xu Sheng, Xing Xiaoyang, Zhou Cheng, Li Yanlin, Zhu Yong, Xia Huafeng, Cao Jian, Miao Xinghua, Zhang Yifei, Li Fei

54: RAPID DETECTION DEVICE FOR PESTICIDE RESIDUES IN AGRICULTURAL PRODUCTS

00: -

The present invention provides a rapid detection device for pesticide residues in agricultural products, including a detection box. A detection tank is disposed at a top of the detection box, a manifold is fixedly connected to an interior of the detection tank, uniformly distributed water outlet heads are arranged at an exterior of the manifold, and a top cover is arranged at a top of the detection tank; and a display screen is fixedly connected to a left side of the detection box, and a single chip microcomputer (SCM) is arranged on a front side of the display screen. In the present invention, through the mutual cooperation of the detection box, the top cover, the handle, the display screen, the SCM, a water tank and the like, the pesticide on agricultural products

can be quickly detected, and the device is small in size and convenient to carry.



21: 2024/06191. 22: 2024/08/13. 43: 2025/02/12

51: A61M

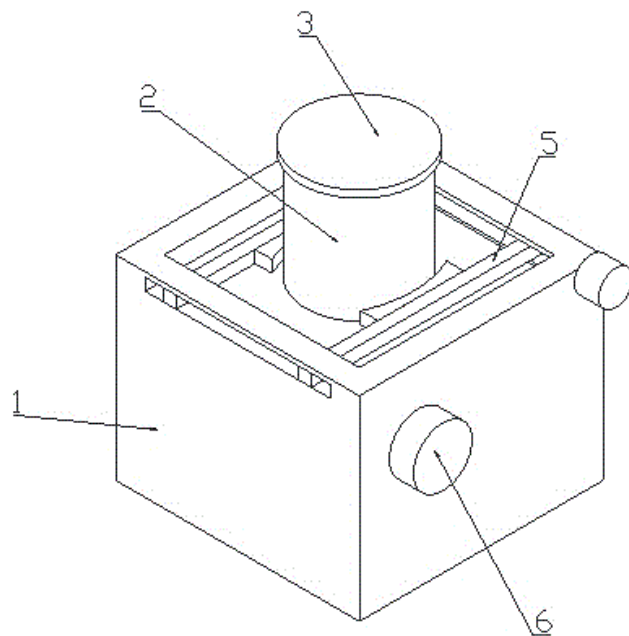
71: Chengdu Fifth People's Hospital

72: Bi Yan, Li Juan

54: DEVICE FOR PREPARATION OF ANESTHETIC MIXED DRUGS FOR NERVE BLOCK

00: -

Disclosed is a device for the preparation of anesthetic mixed drugs for nerve block, which relates to the technical field of hospital pharmacy. A support base is included. A mixing vessel is arranged at the support base, an agitating mechanism is arranged between the support base and the mixing vessel, a clamping mechanism is arranged between the support base and the mixing vessel, a switch is mounted on one side of the support base, and the mixing vessel is covered with a sealing cap. The clamping mechanism mounted on the support base securely holds the mixing vessel in place. Subsequently, by flipping the switch, the agitating mechanism is activated, propelling the drugs within the mixing vessel to blend. This process greatly facilitates the preparation of anesthetic mixed drugs, while minimizing the risk of uneven mixing that may arise from manual agitation of the vessel.



21: 2024/06193. 22: 2024/08/13. 43: 2025/02/12

51: H04L

71: Wenzhou University of Technology

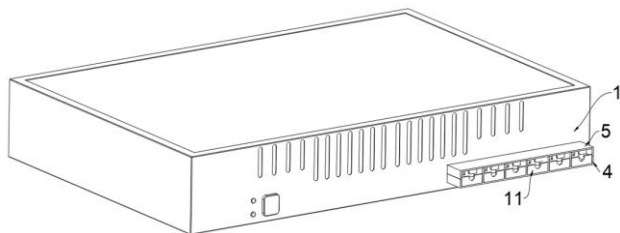
72: Weng Zhengqiu, Zheng Xiangyang, Liu Mingzhe, Chen Haiting, Gao Zhouyi, Zhang Weinuo, Chen Meihao

54: A NETWORK SECURITY MONITORING DEVICE

00: -

The present invention discloses a network security monitoring device, which belongs to the technical field of network security devices. The device comprises a body, and a groove is opened on the side wall of the body. A connecting plate I is arranged in the groove, and the inner wall of the connecting plate I is evenly and equidistantly provided with traction plates. Arc-shaped grooves are penetrated on the traction plates. By pulling the connecting plate I, the arc-shaped grooves on the traction plates are used to sort the cables, thus avoiding cable confusion, reducing the possibility of cable damage due to friction or distortion, helping to extend the service life of cables and ensure the stable operation of equipment, and facilitating subsequent inspection, maintenance and replacement of cables. Through the cooperation of the traction plate on the inner wall of the connecting plate I and the block on the inner wall of the connecting plate II, when sorting the cables, it can avoid the plug falling off the socket, and enable quick repair or maintenance of a single cable,

thereby ensuring the normal operation of the equipment and the stable transmission of data, and effectively enhancing the stability of the cables during the sorting process.



21: 2024/06195. 22: 2024/08/13. 43: 2025/02/13

51: G06K

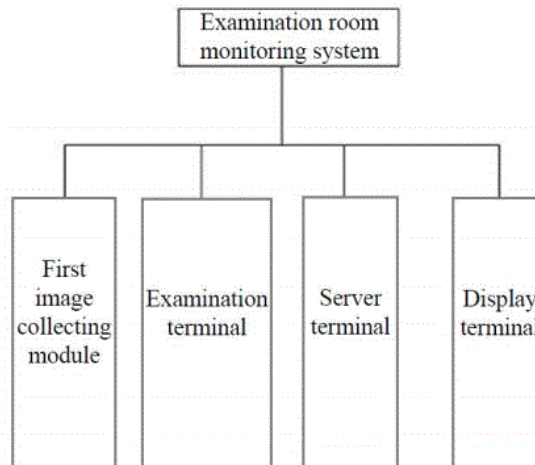
71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE

72: LIU, Chenguang

54: AI-BASED EXAMINATION ROOM MONITORING SYSTEM

00: -

Disclosed is an AI-based examination room monitoring system, relating to the technical field of examination room monitoring systems. The system includes: a first image collecting module, configured to perform body image collection on examinees in an examination room and upload collected image data to a server terminal for data processing; an examination terminal, configured to verify identities of the examinees and issue examination papers, and transmit the completed examination papers to the server terminal for processing; a server terminal, configured to recognize whether the examinees are cheating, and process information about the examination papers uploaded by the examination terminal to obtain scores for an examination; and a display terminal, configured to be used by an invigilator, in which the data processed by the server terminal is transmitted to the display terminal via the wireless network for display, and the invigilator performs corresponding processing according to displayed content.



21: 2024/08715. 22: 2024/11/15. 43: 2024/12/05

51: G01F

71: BEIJING SINCERITY AUTOMATIC EQUIPMENT CO., LTD.

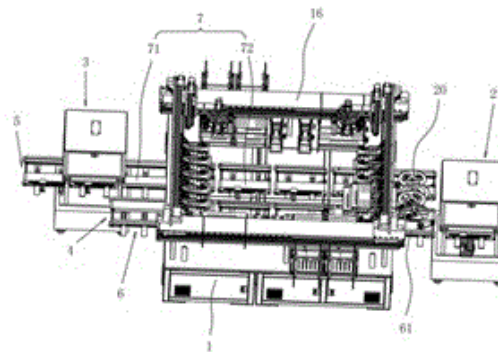
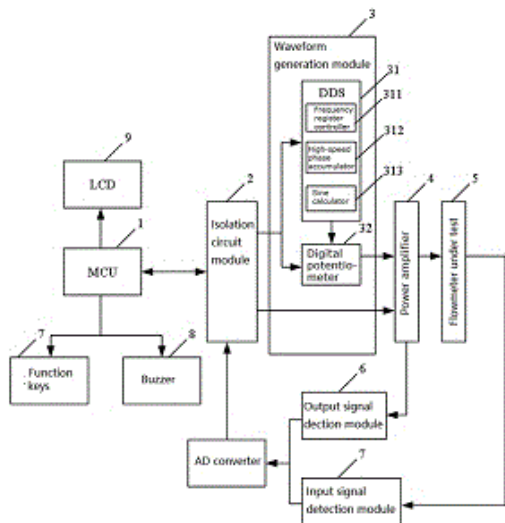
72: HE, JING, CHEN, HUI, QU, HAILONG, PAN, DIPING, XU, GANG, MING, LIANG

33: CN 31: 202311530392.8 32: 2023-11-16

54: QUALITY FACTOR MEASUREMENT DEVICE AND METHOD FOR A CORIOLIS FLOWMETER

00: -

A quality factor measurement device and method for a Coriolis flowmeter is disclosed, related to the field of instrument detection. A MCU sends the frequency range and amplitude signal of the sine wave to a waveform generation module, and the waveform generation module generates a sine wave with a fixed amplitude within the frequency range based on the frequency range and amplitude signal. Then, a sine wave is excited by a power amplifier to the Coriolis flowmeter under test. Finally, the input signal detection module collects the sine wave parameters of the Coriolis flowmeter under test after testing. The MCU analyzes the natural frequency and corresponding peak amplitude in the sine wave parameters to obtain the quality factor of the Coriolis flowmeter under test. By this process, there is no need to use multiple frequencies for multiple excitation tests, which reduces the number and time of frequency scans and improves measurement efficiency.

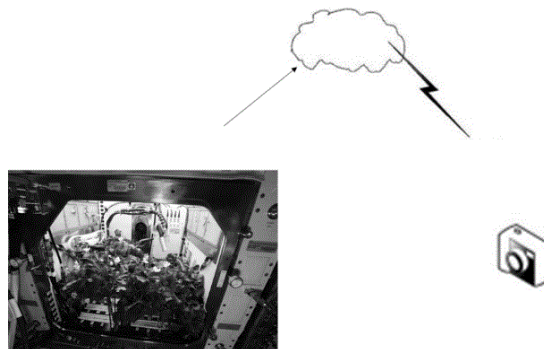
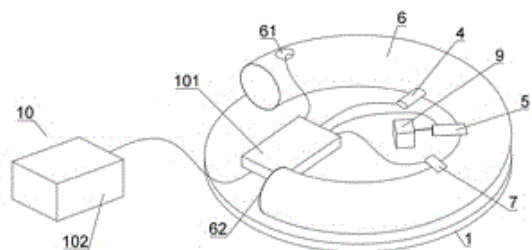


21: 2024/09118. 22: 2024/11/28. 43: 2024/12/05
 51: B29C
 71: SICHUAN HANHAI PRECISION MANUFACTURING CO., LTD.
 72: LIN, WENYUAN
 33: CN 31: 202410815092.2 32: 2024-06-24
54: AUTOMATIC ASSEMBLY LINE WITH EXTERNAL HOT PRESSING

00: -
 The present application relates to an automatic assembly line with external hot pressing, and belongs to the technical field of notebook shell labeling. The automatic assembly line with external hot pressing includes a machine body, a product conveying mechanism, labeling mechanisms, a hot-melt mechanism and a cold-pressing mechanism, wherein the product conveying mechanism extends through the machine body, the labeling mechanisms are disposed on the machine body and are configured to attach accessories to surfaces of products on the product conveying mechanism, the hot-melt mechanism and the cold-pressing mechanism are both located outside the machine body, the product conveying mechanism passes through the hot-melt mechanism and the cold-pressing mechanism, and the products on the product conveying mechanism sequentially pass by the hot-melt mechanism and the cold-pressing mechanism. The present application has the effect of facilitating mounting and maintaining the hot-melt mechanism and the cold-pressing mechanism.

21: 2024/09209. 22: 2024/12/02. 43: 2024/12/05
 51: G01D
 71: BEIJING RETEC NEW ENERGY TECHNOLOGY CO., LTD.
 72: CHEN, SHAO KUN, SONG, JUN , ZHANG, JINGPO, WU, HAIFENG, WANG, XIANYANG , YANG, CHENHUI , YUAN, ZONGTAO
 33: CN 31: 202311714750.0 32: 2023-12-13
54: TEMPERATURE AND HUMIDITY SENSOR FOR WIND TURBINE GENERATOR SYSTEM, AND TESTING SYSTEM
 00: -

The present disclosure provides a temperature and humidity sensor for a wind turbine generator system and a testing system. The temperature and humidity sensor includes: a controllable wind source, used for forming a uniform wind field in a detection environment; a dry ball temperature probe, arranged in the uniform wind field; a wet ball temperature probe, arranged in the uniform wind field; and a control module, used for acquiring an air relative humidity in the detection environment according to a first temperature of the dry ball temperature probe, a second temperature of the wet ball temperature probe, and a wind velocity of the uniform wind field. In the temperature and humidity sensor for the wind turbine generator system and the testing system of the present disclosure, wind velocities at positions where the dry ball temperature probe and the wet ball temperature probe are located in the wind field are fixed, so that an accurate dry-wet ball coefficient is determined according to the fixed wind velocity, and then the air relative humidity of the detection environment is accurately calculated according to the accurate dry-wet ball coefficient.



21: 2024/09299. 22: 2024/12/04. 43: 2025/02/07
51: A01G

71: SICHUAN AGRICULTURAL UNIVERSITY
72: LU Wei, LIANG Lirui, PENG Wenjun, LEE In-bok, ZHOU Chengbo, ZHENG Yangxia, YANG Qichang, LIU Xinyuan, GUO Kexin, LIU Yue, HE Yuexuan, ZHOU Linjiang, YE Zhenhong, YAN Jiayi
33: CN 31: 2023100910222 32: 2023-02-09

54: ILLUMINATION APPARATUS AND METHOD FOR MOBILE ANIMAL AND PLANT BREEDING DEVICE

00: -

In the whole growth cycle of plants, the effects of light on plant growth include photosynthesis and signal use. The light intensity and photoperiod required by high-energy reaction and low-energy reaction of plants are different. The light of high-energy reaction needs to blink alternately with photosynthesis and respiration, while the light of low-energy reaction needs to be distributed with the growth cycle and output target of different plant species. Base on this, the invention relates to a lighting device for mobile animal and plant breeding equipment. The lighting device includes a planting monitoring unit, a lighting unit and a cloud server, and the lighting unit includes light sources in at least three directions, namely a normally bright first light source arranged at the top of a plant and a second light source arranged at both sides of the plant, and the planting monitoring unit can confirm the growth density of the plant through the exposed area of the ground and the area covered by the plant. Different light formulas are distributed in different parts of plants to achieve the purpose of regulating plant growth.

21: 2024/09448. 22: 2024/12/09. 43: 2025/02/07
51: C07F

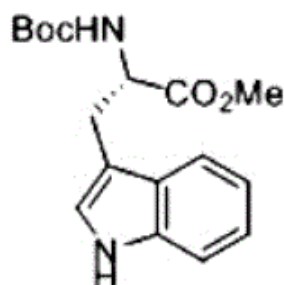
71: INNER MONGOLIA UNIVERSITY, INNER MONGOLIA DUHE INNOVATION R AND D TECHNOLOGY CO., LTD

72: LIU, Guodu, YAN, Xinlong, LI, Zongwei
33: CN 31: 202410256775.9 32: 2024-03-07

54: PREPARATION METHOD FOR L-6-HYDROXYTRYPTOPHAN DERIVATIVE AND INTERMEDIATE

00: -

The present invention provides a preparation method for an L-6-hydroxytryptophan derivative and an intermediate. The present invention provides a preparation method for a plurality of intermediates of an L-6-hydroxytryptophan derivative; an L-6-hydroxytryptophan derivative can be prepared on this basis. Specifically, in the present invention, compound A6-0 having a structure as shown in formula 1 is used as an initial reaction raw material, and an L-6-hydroxytryptophan derivative is obtained by means of a TIPS protection reaction, a coupling reaction, a carbon-boron bond oxidation reaction, a benzyl protection reaction of hydroxyl, a TIPS protection group removal reaction, a Boc protection group removal reaction, a methyl ester hydrolysis reaction and a 9-fluorenylmethoxycarbonyl protection reaction of an amino. The initial reaction raw material is convenient to purchase in a commercialized way.



Formula 1

21: 2024/09449. 22: 2024/12/09. 43: 2025/02/07
51: C07K

71: INNER MONGOLIA UNIVERSITY, INNER MONGOLIA DUHE INNOVATION R AND D TECHNOLOGY CO., LTD

72: LIU, Guodu, YAN, Xinlong, LI, Zongwei, GUO, Yanyan, ZHANG, Tao

33: CN 31: 202410257131.1 32: 2024-03-07

54: METHOD FOR PREPARING CYCLIC PEPTIDE TOXIN ALPHA-AMANITIN AND/OR AMANINAMIDE, AND INTERMEDIATE AND USE THEREOF

00: -

The present application belongs to the field of organic synthesis, and provides a method for preparing cyclic peptide toxin alpha Amanitin and/or Amaninamide, and an intermediate and the use thereof. Provided in the present application is a complete synthesis method for cyclic peptide toxin compounds alpha-Amanitin and Amaninamide, wherein the used raw materials and reagents are easy to purchase commercially, the intermediate is stable, the reaction conditions are mild, the operation process is simple and convenient, and the separation and purification process is good in terms of operability, is high in terms of yield, and has an important reference and practical value, which can realize gram-scale preparation of alpha-Amanitin and Amaninamide and has good industrial prospects. The preparation method of the present application has a significant application value in the field of cyclic peptide toxin synthesis.

21: 2024/09472. 22: 2024/12/09. 43: 2024/12/20
51: E04G

71: CHINA HARBOUR ENGINEERING COMPANY LTD.

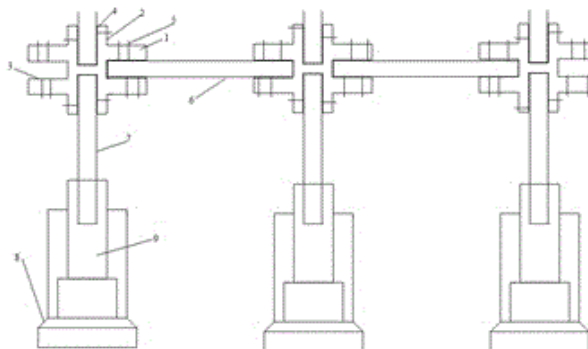
72: SHI, JIAPENG

33: CN 31: 2024105995594 32: 2024-05-15

54: SUPPORTING FRAME CONVENIENT FOR DISASSEMBLY

00: -

The present invention discloses a supporting frame convenient for disassembly, comprising: a connecting member comprising a first connecting piece provided with a first cylindrical recess; two second connecting pieces arranged above and below first connecting piece, and provided with a second cylindrical recess; four side walls of first and second cylindrical recess being provided with a first bolt through hole; and after inserting a horizontal bar into first cylindrical recess and a vertical bar into second cylindrical recess, horizontal bar being in a horizontal position and vertical bar being in a vertical position by adjusting a first bolt in first bolt through hole; and comprising a reinforcing member, a first and a second oblique reinforcing member, first and second oblique reinforcing member being provided with a semicircular groove. The supporting frame is convenient to install and detach, adjusts levelness and verticality of horizontal and vertical bar, saves time and labor.



21: 2024/09535. 22: 2024/12/11. 43: 2025/02/07
51: G01M

71: Hunan Luzhou Huikang Development Co., Ltd.

72: Haigang Mo, Ling Yang, Xiangjia Zhong

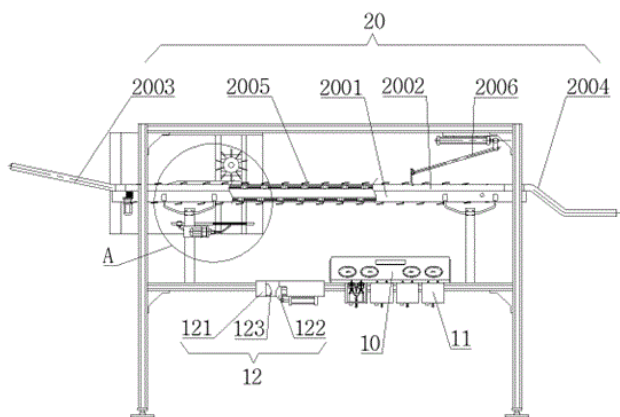
33: CN 31: 2024112703143 32: 2024-09-11

54: SEALING PERFORMANCE TESTING DEVICE

00: -

The present invention discloses a sealing performance testing device, and belongs to the technical field of medical instrument production. The sealing performance testing device includes a monitoring device and a fixed assembly, where the monitoring device is in signal communication with the fixed assembly; the fixed assembly includes an

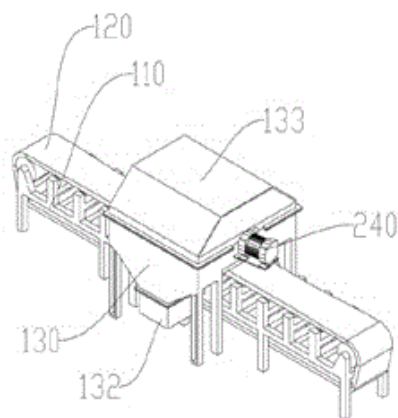
air nozzle used for docking with a port of an infusion tube, a flexible sleeve is disposed on an outer side of the air nozzle, a lower end of the flexible sleeve is fixed to the air nozzle, and an upper end of the flexible sleeve is diffused outwards; an extrusion sleeve is further disposed on the outer side of the air nozzle; when the air nozzle moves downwards, the extrusion sleeve extrudes the flexible sleeve, allowing that the flexible sleeve wraps the infusion tube on the air nozzle and is mutually fixed to the air nozzle; and a feeding assembly used for conveying the infusion tube is further disposed above the monitoring device. The present invention is used for solving the problems that the port insertion is unstable, the appropriate number is required to be selected in the testing process, and the testing efficiency is low when the sealing performance of an infusion tube is tested.



21: 2024/09537. 22: 2024/12/11. 43: 2024/12/20
 51: G01N
 71: HENAN HUANGHE NEW MATERIAL TECHNOLOGY CO., LTD.
 72: SHANG, YUKUN, SHANG, TINGJUN, WU, HUI, GUO, WEI, LIN, GUODONG, SHI, XINLU, ZHU, XINBING
 33: CN 31: 202410231803.1 32: 2024-03-01
54: AUTOMATIC SAMPLING DEVICE FOR CONVEYING LINE
 00: -

The present invention relates to the technical field of sampling equipment, in particular to an automatic sampling device for a conveying line. The automatic sampling device includes a support frame, a sampling box, a sampling scraper and a cleaning assembly. The sampling scraper composed of a scraper plate and side plates can scrape coal on a conveying belt to a discharge port. The side plates

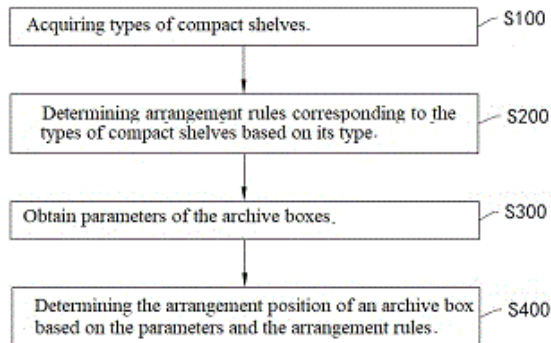
slide in synchronization with the scraper plate along a stationary shaft while the coal is scraped, such that the coal on the conveying belt cannot be blocked by the side plates, thereby ensuring that the coal on the conveying belt can be normally conveyed. If the coal is wet, the cleaning assembly can clean the coal adhering to the scraper plate, and meanwhile, the relative movement between the scraper plate and the side plates can ensure that the coal cannot adhere to the side plates, so that no residual coal is left on the side plates and the scraper plate, thereby improving the accuracy of coal sampling.



21: 2024/09811. 22: 2024/12/18. 43: 2024/12/20
 51: A47B; H02K
 71: BEIJING RONG'ANTE INTELLIGENT TECHNOLOGY CO., LTD.
 72: JIANG, YUNTAO, ZHANG, KUN, HE, LONG, BAI, LAIBIN, ZHANG, JIAN, YANG, LONGFEI, JIANG, XIAOJUN, LIU, QING, YANG, ZHIXIANG, YU, SHUAISHUAI, LI, QIANWEI
 33: CN 31: 202211176447.5 32: 2022-09-26
54: METHOD AND SYSTEM FOR OUT-OF-ORDER PLACEMENT OF ARCHIVE BOX, AND SMART TERMINAL AND STORAGE MEDIUM
 00: -

The present application relates to a method and system for out-of-order placement of an archive box, and a smart terminal and a storage medium. The method comprises: acquiring the type of compact shelving, wherein the compact shelving is a carrier on which an archive box is placed; according to the type of the compact shelving, determining a placement rule corresponding to the type of the compact shelving; acquiring parameters of the archive box, wherein the parameters comprise the weight and the number of times of usage, and the

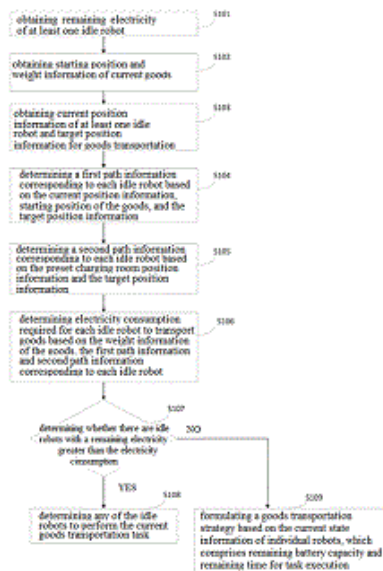
number of times of usage is an average number of times the archive box is used per unit of time; and determining a placement position of the archive box according to the parameters and the placement rule.



21: 2024/09812. 22: 2024/12/18. 43: 2024/12/20
 51: B60L; B62D
 71: BEIJING RONG'ANTE INTELLIGENT TECHNOLOGY CO., LTD.
 72: ZHANG, KUN, JIANG, YUNTAO, HE, LONG, BAI, LAIBIN, ZHANG, JIAN, YANG, LONGFEI, JIANG, XIAOJUN, LIU, QING, YANG, ZHIXIANG, YU, SHUAISHUAI
 33: CN 31: 202211175293.8 32: 2022-09-26
54: UNMANNED ARCHIVAL WAREHOUSE ROBOT MANAGEMENT METHOD AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM

00: -
 An unmanned archival warehouse robot management method and apparatus, an electronic device, and a storage medium. The method comprises: acquiring the remaining battery capacity of at least one idle robot, start position information and weight information of a cargo, current position information of the idle robot, and target position information of cargo delivery; on the basis of the current position information, the start position of the cargo, and the target position information, determining first path information corresponding to each idle robot, and on the basis of preset position information of a charging room and the target position information, determining second path information corresponding to each idle robot; determining power consumption on the basis of the weight information of the cargo, and the first path information and the second path information corresponding to each idle robot; determining whether an idle robot with the remaining battery

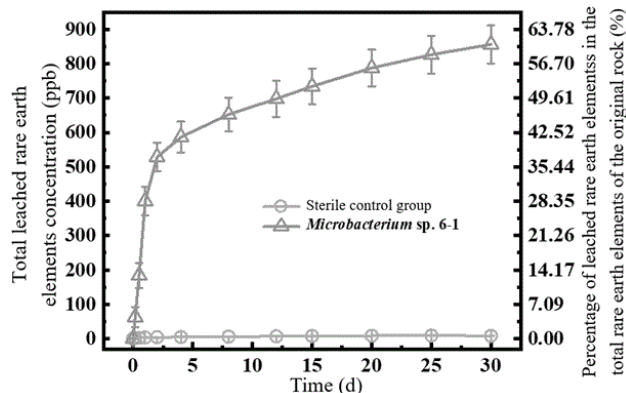
capacity larger than the power consumption is present or not; if yes, determining any idle robot to execute a delivery task of the current cargo; otherwise, formulating a cargo delivery strategy on the basis of current state information of each robot. The present application has the effect of improving the robot utilization rate.



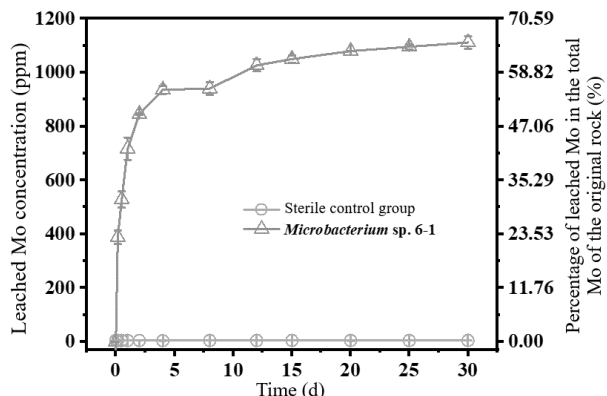
21: 2025/00594. 22: 2025/01/17. 43: 2025/01/23
 51: C22B
 71: Beijing Research Institute of Chemical Engineering and Metallurgy
 72: Qingyin XIA, Xuebin SU, Baomin YU, Yuan YUAN, Kang LIU, Chunfeng LI, Hui LIU, Liuyin SHI, Jiahong SUN, Yunsheng MENG, Jingmin ZHANG, Meifang CHEN, Xiumin JIA
 33: CN 31: 202410075985.8 32: 2024-01-18
54: METHOD OF LEACHING RARE EARTH ELEMENTS USING MICROBACTERIUM TESTACEUM XS6-1

00: -
 The invention discloses a method of leaching rare earth elements (REE) utilizing Microbacterium Testaceum XS6-1. The said Microbacterium Testaceum XS6-1 belongs to the genus Microbacterium sp., which is environmentally safe, has universal pH and temperature activity, can withstand the toxicity of a variety of heavy metals, overcome various adverse factors, and efficiently leach rare earth elements in a variety of complex environmental systems. The entire leaching environment is kept at a neutral pH, minimizing environmental damage and contaminants generated

by acid leaching while selectively leaching heavy rare earth metals (HREE). The potential opportunities for application exhibit favorable outlooks.



more impurities and HF biological toxicity, and increases economic and environmental benefits.



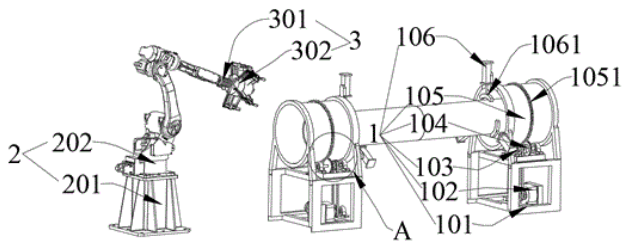
21: 2025/00595. 22: 2025/01/17. 43: 2025/01/23
 51: C22B
 71: Beijing Research Institute of Chemical Engineering and Metallurgy
 72: Qingyin XIA, Xuebin SU, Yuan YUAN, Baomin YU, Kang LIU, Chunfeng LI, Hui LIU, Meifang CHEN, Jiahong SUN, Yunsheng MENG, Xiumin JIA, Liuyin SHI, Jingmin ZHANG
 33: CN 31: 202410076031.9 32: 2024-01-18
54: METHOD FOR MICROBIAL LEACHING OF MOLYBDENUM ORE

00: -
 The invention discloses a method for microbial leaching of molybdenum ore. The key of the invention is to use the excellent characteristics of *Microbacterium Testaceum* XS6-1, which is resistant to a wide range of heavy metal toxicity and secretes a variety of metabolic products with chelating properties. It can make direct contact with molybdenum ore, adsorb on its surface, and efficiently leach molybdenum. It is the only known microbe that works directly on molybdenum ore, as opposed to indirectly leaching molybdenum via oxidizing sulfide or Fe²⁺. The flow leaching procedure is more pronounced by avoiding the leaching inhibitory effect produced by molybdenum accumulation in the leach solution. It is characterized by high leaching efficiency, high leaching extent, simple operation process, low equipment demand, low construction and operation costs, and can leach more than 90% of molybdenum within 15 days. Neutral leaching overcomes the disadvantages of high acid leaching cost, heavy pollution discharge,

21: 2025/00675. 22: 2025/01/21. 43: 2025/01/22
 51: B25J
 71: Anhui Technical College of Mechanical and Electrical Engineering
 72: YUE, Xingchen, SHEN, Yechao, ZHANG, Yuheng, LIN, Shunshun, HOU, Wenlong, LIU, Xiang
 33: CN 31: 202410234202.6 32: 2024-03-01
54: COATING ROBOT FOR SURFACE TREATMENT OF WELDING PIECES

00: -
 The present invention discloses a coating robot for surface treatment of welding pieces, and relates to the technical field of surface treatment of welding pieces, comprising a rotating clamping unit and a robot unit, wherein the robot unit comprises a mounting seat and a mechanical arm, and further comprises: a spraying unit, wherein the spraying unit is arranged on the side of the mechanical arm; when reciprocating cylinders reciprocate, equalizing pieces at the bottom thereof are driven to reciprocate on the side of primary roller brushes, so that when the primary roller brushes rotate and roll inner walls of pipes, the equalizing pieces make excess paint accumulated on forward sides of the primary roller brushes be quickly pushed out from the sides of the primary roller brushes by elbows of the equalizing pieces, and the excess paint pushed out is guided by inclined processing opening sleeves, passes through primary movable grooves and secondary movable grooves on back portions of the processing opening sleeves, and then falls into the interior of the bearing bin and is absorbed by water-absorbing sponges therein, thereby reducing the dripping of excess paint, improving effects of the spraying roller

brushes, and making the coating more comprehensive and uniform.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

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 2025/01/27 -

A2025/00113 - GRACE HAVEN INDUSTRIES (PTY) LTD Class 8. BOTTOM ROLLER FOR SLIDING AND FOLDING DOOR SYSTEMS

F2025/00114 - GRACE HAVEN INDUSTRIES (PTY) LTD Class 8. BOTTOM ROLLER FOR SLIDING AND FOLDING DOOR SYSTEMS

- APPLIED ON 2025/01/29 -

A2025/00120 - Karabo Class 32. KMHS LOGO

- APPLIED ON 2025/01/30 -

A2025/00118 - BEIJING XIAOMI MOBILE SOFTWARE CO., LTD., XIAOMI SMART APPLIANCES (WUHAN) CO., LTD, XIAOMI TECHNOLOGY (WUHAN) CO., LTD Class 23. HANGING UNIT OF AN AIR CONDITIONER

A2025/00117 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2025/00115 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2025/00116 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

- APPLIED ON 2025/01/31 -

A2025/00119 - BELLUSCI, Patrizio Adriano Class 31. MOBILE FOOD UNIT

- APPLIED ON 2025/02/03 -

F2025/00126 - Synergistec Pty Ltd Class 25. RAIL

F2025/00128 - Synergistec Pty Ltd Class 25. CONCRETE BLOCK FOR MOUNTING RAILS

F2025/00123 - SOUTHERN ROPES PROPRIETARY LIMITED Class 12. SHACKLE

F2025/00127 - Synergistec Pty Ltd Class 13. CONCRETE BLOCK FOR MOUNTING RAILS

F2025/00125 - Synergistec Pty Ltd Class 13. RAIL

F2025/00129 - Synergistec Pty Ltd Class 25. CONCRETE BLOCK FOR MOUNTING RAILS

A2025/00122 - SOUTHERN ROPES PROPRIETARY LIMITED Class 12. SHACKLE

A2025/00121 - Gavin Borrageiro Class 32. STC

- APPLIED ON 2025/02/04 -

A2025/00132 - BUDDY TRAY (PTY) LTD. Class 6. FOLDABLE STORAGE TRAYS

A2025/00133 - BUDDY TRAY (PTY) LTD. Class 6. FOLDABLE STORAGE TRAYS

F2025/00130 - DU PLOOY, Johann Class 24. NEEDLE SHEATHS

F2025/00131 - BUDDY TRAY (PTY) LTD. Class 6. FOLDABLE STORAGE TRAYS

F2025/00134 - BUDDY TRAY (PTY) LTD. Class 6. FOLDABLE STORAGE TRAYS

- APPLIED ON 2025/02/05 -

A2025/00135 - SOLEX JEWELLERY AND GEMSTONES LTD Class 11. A STATUE

- APPLIED ON 2025/02/06 -

F2025/00136 - Tebogo Mabotsa Class 13. CONVEYOR CHUTE RECOVERY SYSTEM

A2025/00138 - LE CREUSET GROUP AG Class 07. LID FOR COOKING PANS

A2025/00137 - Diamante Bags (Pty) Ltd Class 02. CLOTHING DESIGN PATTERN

- APPLIED ON 2025/02/07 -

A2025/00140 - NANJING VMOTO MANUFACTURING CO. LTD Class 12. VEHICLE

A2025/00139 - PVH Production A/S Class 08. FIXING BRACKETS

- APPLIED ON 2025/02/10 -

F2025/00142 - Leryn Rule Class 09. WATERPACK THE WRAP

A2025/00164 - EI MAHJOUB BADER ANISSA Class 10. WATCH CASE

F2025/00141 - Leryn Rule Class 09. WATERPACK THE BAG

- APPLIED ON 2025/02/11 -

F2025/00156 - HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED Class 25. BUILDING BLOCK

F2025/00152 - HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED Class 25. BUILDING BLOCK

F2025/00149 - SAFARI HUNT (PTY) LTD Class 22. SEATS FOR VEHICLES

F2025/00151 - HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED Class 25. BUILDING BLOCK

F2025/00155 - HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED Class 25. BUILDING BLOCK

F2025/00157 - HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED Class 25. BUILDING BLOCK

A2025/00144 - I S PLASTICS (PTY) LTD Class 09. A BOTTLE

A2025/00145 - I S PLASTICS (PTY) LTD Class 09. A BOTTLE

A2025/00148 - SAFARI HUNT (PTY) LTD Class 22. SEATS FOR VEHICLES

F2025/00153 - HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED Class 25. BUILDING BLOCK

F2025/00154 - HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED Class 25. BUILDING BLOCK

A2025/00146 - SAFARI HUNT (PTY) LTD Class 6. SEATS FOR VEHICLES

F2025/00147 - SAFARI HUNT (PTY) LTD Class 6. SEATS FOR VEHICLES

F2025/00158 - HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED Class 25. BUILDING BLOCK

F2025/00150 - HYDRAFORM DEVELOPMENTS (PROPRIETARY) LIMITED Class 25. BUILDING BLOCK

F2025/00143 - Smart Conveyor Systems (Pty) Ltd Class 12. LIGHT-DUTY ELECTRIFIED MONORAIL CAR WITH MODULAR ATTACHMENTS FOR INDUSTRIAL TRANSPORT

- APPLIED ON 2025/02/12 -

A2025/00159 - New-Tec Integration (Xiamen) Co., Ltd. Class 06. SOFA BED SPRING MODULE

- APPLIED ON 2025/02/14 -

F2025/00160 - AG PLASTICS CC Class 07. COASTER WITH CAN OPENER

A2025/00163 - VOLKSWAGEN AKTIENGESELLSCHAFT Class 12. MOTOR VEHICLE

A2025/00162 - Automobili Lamborghini S.p.A. Class 21. MODEL VEHICLES

A2025/00161 - Automobili Lamborghini S.p.A. Class 12. VEHICLES

- APPLIED ON 2025/02/17 -

A2025/00166 - SIMOL S.P.A. Class 12. LIFTING JACK

A2025/00165 - SA Filament Pty Ltd Class 09. CUSTOM FILAMENT SPOOL WITH HONEYCOMB AND SPIRAL DESIGN"

F2025/00191 - SA Filament Pty Ltd Class 09. CUSTOM FILAMENT SPOOL WITH HONEYCOMB AND SPIRAL DESIGN

- APPLIED ON 2025/02/18 -

A2025/00180 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. SUMAA LAND BOX

A2025/00192 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. BLUE DONKEY WRAPPING

A2025/00177 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. BLUE NARA GOLD WRAPPER

A2025/00169 - JAN VAN TILL HOLDINGS Class 13. SHOOTING STICK

F2025/00170 - JAN VAN TILL HOLDINGS Class 13. SHOOTING STICK

F2025/00173 - GAS2GO (PTY) LTD Class 07. GAS CYLINDER DISPENSING AND EXCHANGE DEVICE

A2025/00171 - JAN VAN TILL HOLDINGS Class 28. SHOOTING STICK

A2025/00176 - GAS2GO (PTY) LTD Class 15. GAS CYLINDER DISPENSING AND EXCHANGE DEVICE

A2025/00178 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. BLUE NARA BOX

F2025/00172 - JAN VAN TILL HOLDINGS Class 28. SHOOTING STICK

F2025/00175 - GAS2GO (PTY) LTD Class 15. GAS CYLINDER DISPENSING AND EXCHANGE DEVICE

A2025/00193 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. BLUE DONKEY BOX DESIGN

A2025/00179 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. SUMAA LAND WRAPPER

F2025/00168 - MASHEGO, Ellen Class 24. INTERGLUTEAL CLEFT GUARD

A2025/00174 - GAS2GO (PTY) LTD Class 07. GAS CYLINDER DISPENSING AND EXCHANGE DEVICE

- APPLIED ON 2025/02/19 -

A2025/00184 - LINGO SENSING TECHNOLOGY UNLIMITED COMPANY Class 14. DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE

A2025/00183 - LINGO SENSING TECHNOLOGY UNLIMITED COMPANY Class 14. DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE

A2025/00182 - LINGO SENSING TECHNOLOGY UNLIMITED COMPANY Class 14. DISPLAY SCREEN OR PORTION THEREOF WITH TRANSITIONAL GRAPHICAL USER INTERFACE

A2025/00181 - LINGO SENSING TECHNOLOGY UNLIMITED COMPANY Class 14. DISPLAY SCREEN OR PORTION THEREOF WITH TRANSITIONAL GRAPHICAL USER INTERFACE

- APPLIED ON 2025/02/20 -

A2025/00185 - JACOBUS JONATHAN JACOB, SWARTS Class 25. ANTI-SLIP DEVICE FOR STAIRS

A2025/00187 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2025/00188 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

F2025/00189 - MAYO MACS SA (PTY) LTD Class 15. DRYING BINS

F2025/00194 - Danzel Mohajane Class 09. DISPOSABLE ICE BUCKET

F2025/00186 - JACOBUS JONATHAN JACOB, SWARTS Class 25. ANTI-SLIP DEVICE FOR STAIRS

F2025/00190 - MAYO MACS SA (PTY) LTD Class 15. DRYING BINS

- APPLIED ON 2025/02/21 -

A2025/00211 - BLIND SCREEN LIMITED Class 25. FRAME FOR BLIND SYSTEM

F2025/00210 - W.M. BARR & COMPANY, INC. Class 23. CARTRIDGE ASSEMBLY

F2025/00207 - KNAPIK, Sebastian, SUPADY, Mariusz Class 09. PACKAGING CAPSULES

A2025/00198 - Huawei Technologies Co., Ltd. Class 14. SCREEN DISPLAYS AND ICONS

F2025/00205 - KNAPIK, Sebastian, SUPADY, Mariusz Class 09. PACKAGING CAPSULES

A2025/00195 - Huawei Technologies Co., Ltd. Class 14. SCREEN DISPLAYS AND ICONS

A2025/00197 - Huawei Technologies Co., Ltd. Class 14. SCREEN DISPLAYS AND ICONS

A2025/00200 - Huawei Technologies Co., Ltd. Class 14. SCREEN DISPLAYS AND ICONS

A2025/00203 - Huawei Technologies Co., Ltd. Class 14. SCREEN DISPLAYS AND ICONS

F2025/00204 - KNAPIK, Sebastian, SUPADY, Mariusz Class 09. PACKAGING CAPSULES

F2025/00209 - W.M. BARR & COMPANY, INC. Class 23. PISTON WITH SEALING ELEMENT

A2025/00201 - Huawei Technologies Co., Ltd. Class 14. SCREEN DISPLAYS AND ICONS

A2025/00196 - Huawei Technologies Co., Ltd. Class 14. SCREEN DISPLAYS AND ICONS

A2025/00202 - Huawei Technologies Co., Ltd. Class 14. SCREEN DISPLAYS AND ICONS

A2025/00199 - Huawei Technologies Co., Ltd. Class 14. SCREEN DISPLAYS AND ICONS

F2025/00206 - KNAPIK, Sebastian, SUPADY, Mariusz Class 09. PACKAGING CAPSULES

F2025/00208 - W.M. BARR & COMPANY, INC. Class 23. SPRAY SELECTOR

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

Notice is hereby given that: **SCHREDER** of **rue de Lusambo 67, 1190 Brussels** has made application for the restoration of the design registered to the said: **SCHREDER** for the Design **LIGHTING FIXTURES** application number **A2019/00724** dated **26/11/2019** Which become void on **3/09/2021** 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.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgment. **(23)** release date (if applicable). **(43)** 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 (43) is either Date of lodgment (22) or Date of convention of application (32) whichever is the earlier.

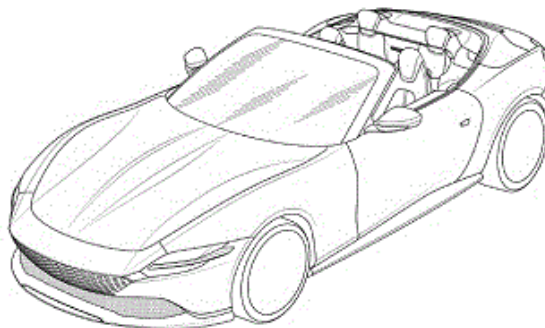
Registrar of Designs

21: A2023/00908 22: 2023-08-17 23: 2023-03-16
 43: 2024-12-11
 52: Class 12. 24: Part A
 71: FERRARI S.P.A.

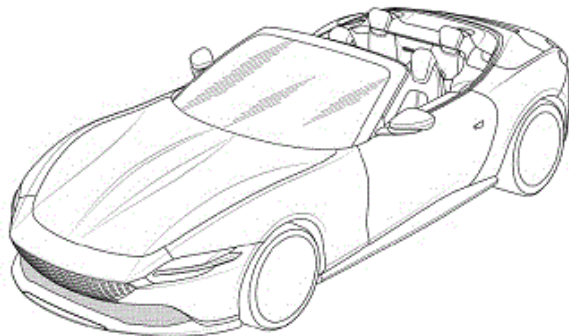
33: IB 31: WIPO128957 32: 2023-02-20

54: Car

57: The design relates to a car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW



FRONT PERSPECTIVE VIEW

21: A2023/01255 22: 2023-11-23 23:
 43: 2023-05-25
 52: Class 12 24: Part A
 71: Bridgestone Europe NV/SA
 33: EM(BE) 31: 015022696-0001 32: 2023-05-25

54: TYRE TREADS

57: The design is for a tyre tread. The tyre tread has an inner and an outer circumferential shoulder row and a central section therebetween, the central section comprising two intermediate rows. The two intermediate rows are separated centrally by a circumferential groove. Each shoulder row has circumferentially spaced, chevron shaped grooves pointed in the same direction, with the grooves oppositely pointed between the two shoulder rows. Each intermediate row has a circumferential groove that is off-centre and outwardly positioned dividing each intermediate row into a medial and lateral band. Each lateral band has alternating oblique grooves and is composed of alternating smaller and

21: A2023/00909 22: 2023-08-17 23: 2023-03-16
 43: 2024-12-18
 52: Class 21. 24: Part A
 71: FERRARI S.P.A.

33: IB 31: WIPO128949 32: 2023-02-20

54: Toy Car

57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

larger trapezium shaped tread blocks. Each medial band has alternating oblique grooves oppositely pointed and slightly offset with the opposite medial band and is composed of substantially hexagonal tread blocks.

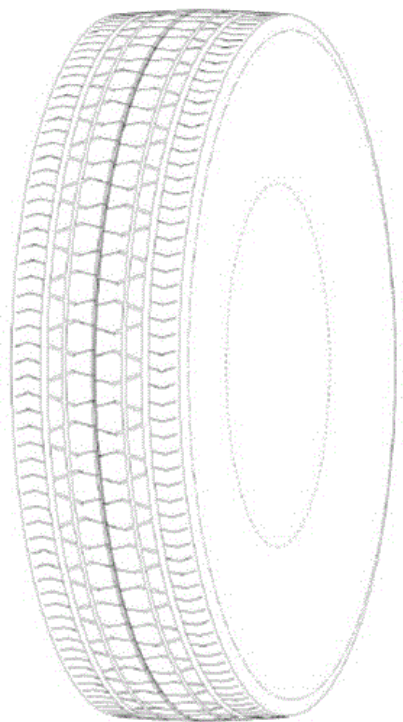


Figure 1

Three-dimensional view

with the opposite medial band and is composed of substantially hexagonal tread blocks.

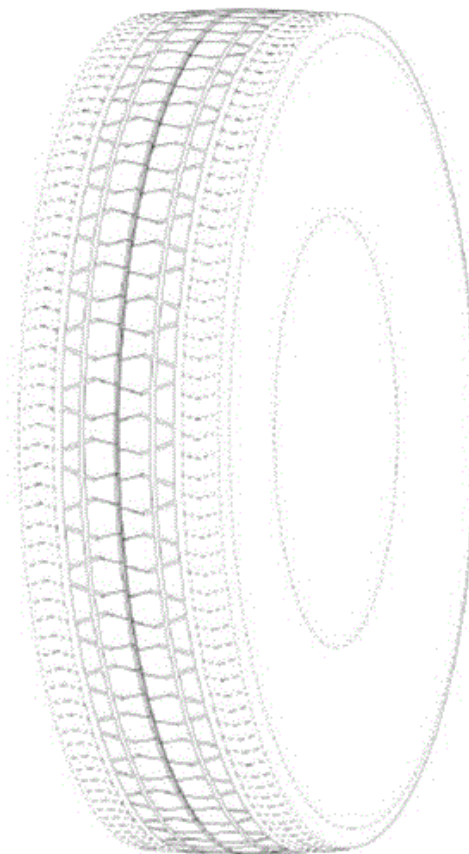


Figure 1

Three-dimensional view

21: A2023/01265 22: 2023-11-23 23:
43: 2023-05-25
52: Class 12 24: Part A
71: Bridgestone Europe NV/SA
33: EM(BE) 31: 015022696-0002 32: 2023-05-25

54: TYRE TREADS

57: The design is for a tyre tread. The tyre tread has a central section comprising two rows of tread bands. The two rows are separated centrally by a circumferential groove extending. Each row has a circumferential groove that is off-centre and outwardly positioned dividing each intermediate row into a medial and lateral band. Each lateral band has alternating oblique grooves and is composed of alternating smaller and larger trapezium shaped tread blocks. Each medial band has alternating oblique grooves oppositely pointed and slightly offset

21: A2023/01266 22: 2023-11-23 23:
43: 2023-05-25
52: Class 12 24: Part A
71: Bridgestone Europe NV/SA
33: EM(BE) 31: 015022696-0004 32: 2023-05-25

54: TYRE TREADS

57: The design is for a tyre tread. The tyre tread has a central section comprising two rows of tread bands. The two rows are separated centrally by a circumferential groove extending. Each row has a circumferential groove that is off-centre and outwardly positioned dividing each intermediate row into a medial and lateral band. Each lateral band has alternating oblique grooves and is composed of alternating smaller and larger trapezium shaped

tread blocks. Each medial band has alternating oblique grooves oppositely pointed and offset by half with the opposite medial band and is composed of substantially hexagonal tread blocks.

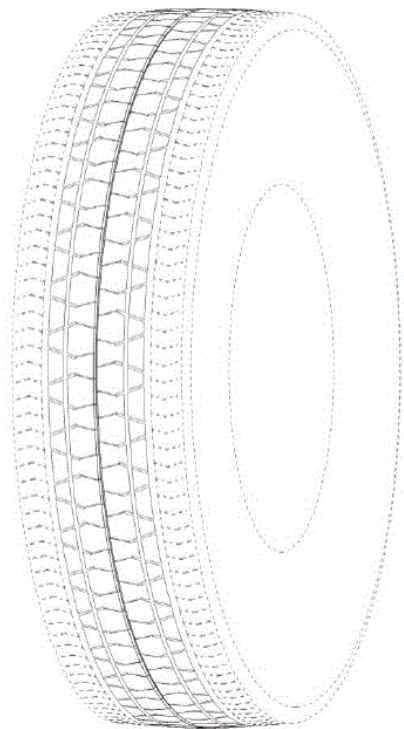


Figure 1

Three-dimensional view

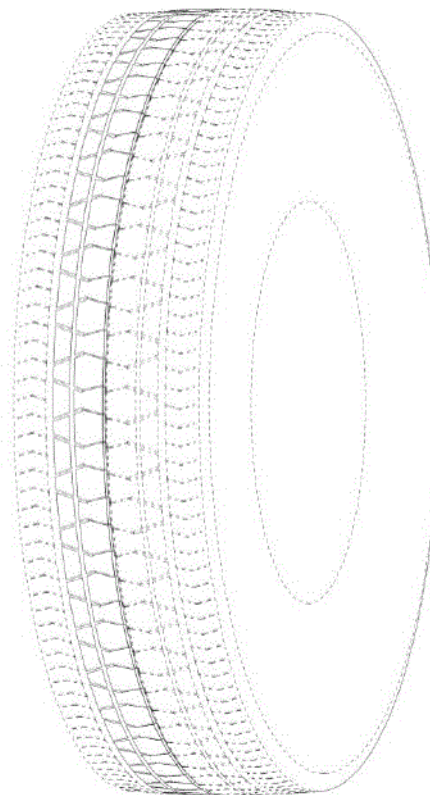


Figure 1

Three-dimensional view

21: A2023/01268 22: 2023-11-23 23:
43: 2023-05-25
52: Class 12 24: Part A
71: Bridgestone Europe NV/SA
33: EM(BE) 31: 015022696-0005 32: 2023-05-25

54: TYRE TREADS

57: The design is for a tyre tread. The tyre tread comprises an off-centre tread band row. The row has a circumferential groove that is off-centre outwardly dividing the row into a medial and lateral band. The lateral band has alternating oblique grooves and is composed of alternating smaller and larger trapezium shaped tread blocks. The medial band has alternating oblique oppositely pointed and is composed of substantially hexagonal tread blocks.

21: A2023/01269 22: 2023-11-23 23:
43: 2023-05-25
52: Class 12 24: Part A
71: Bridgestone Europe NV/SA
33: EM(BE) 31: 015022696-0006 32: 2023-05-25

54: TYRE TREADS

57: The design is for a tyre tread. The tyre tread has an inner and an outer circumferential shoulder row and a central section therebetween, the central section comprising two intermediate rows. The two intermediate rows are separated centrally by a thin circumferential groove. The two shoulder rows have arrowhead shaped grooves pointed in the same direction for each shoulder row, and oppositely pointed between the shoulder rows and which are evenly spaced apart. Each intermediate row has a circumferential groove that is off center and outwardly positioned dividing each intermediate row into a medial and lateral band. Each lateral band has alternating oblique grooves and are composed of

alternating smaller and larger trapezoid shaped tread blocks. Each medial band has alternating substantially arrowhead shaped grooves oppositely pointed and are composed of substantially hexagonal tread blocks.

outward shoulder row are separated by a U-shaped groove. Each intermediate row has alternating chevron shaped grooves alternatively pointed and slightly offset with the other intermediate row.

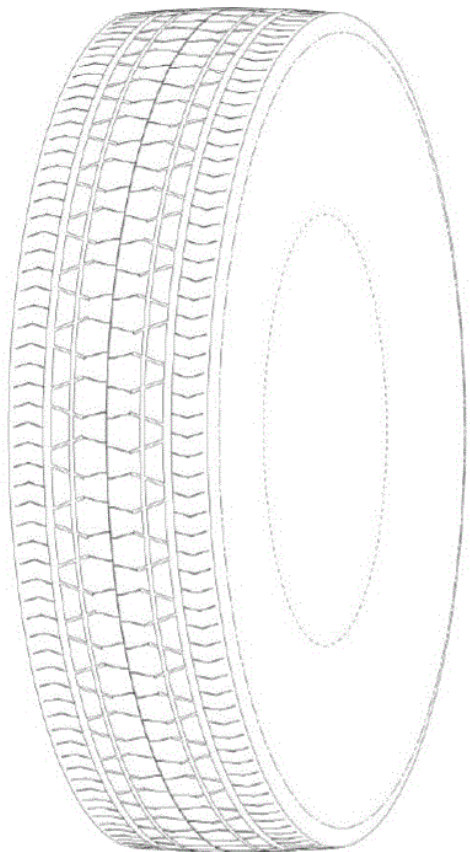


Figure 1

Three-dimensional view

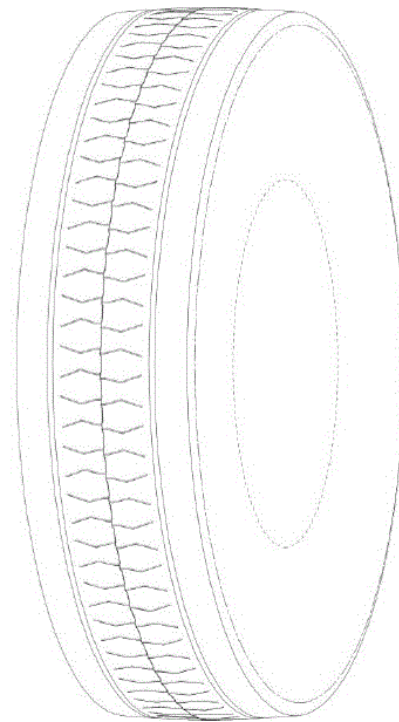


Figure 1

Three-dimensional view

21: A2023/01270 22: 2023-11-23 23:
43: 2023-05-25
52: Class 12 24: Part A
71: Bridgestone Europe NV/SA
33: EM(BE) 31: 015022696-0007 32: 2023-05-25

54: TYRE TREADS

57: The design is for a tyre tread. The tyre tread has an inner and an outer circumferential shoulder row and a central section therebetween, the central section comprising two intermediate rows. The two intermediate rows are separated centrally by a thin circumferential groove extending in an irregular toothed shape. Each intermediate row and each

21: A2023/01271 22: 2023-11-23 23:
43: 2023-05-25
52: Class 12 24: Part A
71: Bridgestone Europe NV/SA
33: EM(BE) 31: 015022696-0003 32: 2023-05-25

54: TYRE TREADS

57: The design is for a tyre tread. The tyre tread has an inner and an outer circumferential shoulder row and a central section therebetween, the central section comprising two intermediate rows. The two intermediate rows are separated centrally by a circumferential groove. Each shoulder row has circumferentially spaced, chevron shaped grooves pointed in the same direction, with the grooves oppositely pointed between the two shoulder rows. Each intermediate row has a circumferential groove that is off-centre and outwardly positioned dividing each intermediate row into a medial and lateral band. Each lateral band has alternating oblique

grooves and is composed of alternating smaller and larger trapezium shaped tread blocks. Each medial band has alternating oblique grooves oppositely pointed and offset by half with the opposite medial band and is composed of substantially hexagonal tread blocks.

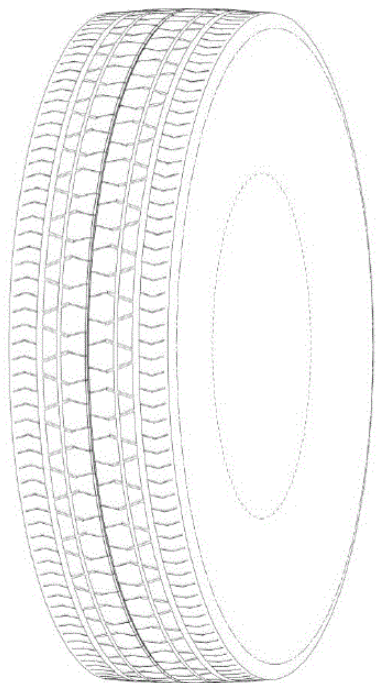
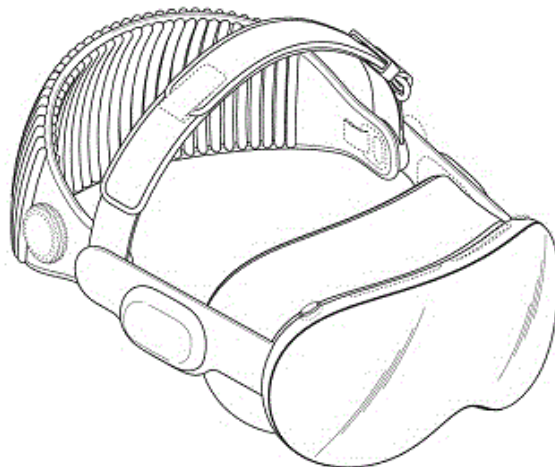


Figure 1

Three-dimensional view



TOP FRONT PERSPECTIVE VIEW

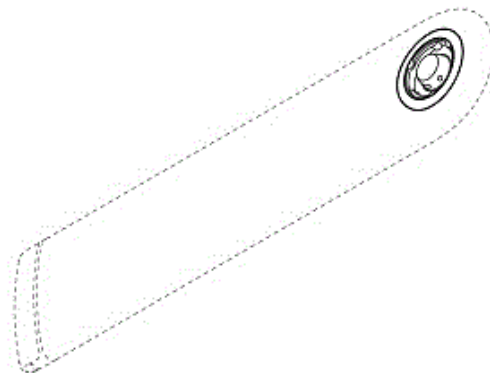
21: A2023/01335 22: 2023-12-05 23:
43: 2024-12-09
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/877,278 32: 2023-06-05
54: Strap

57: The design relates to a strap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

21: A2023/01316 22: 2023-12-04 23:
43: 2024-12-09
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/877,290 32: 2023-06-05

54: Head-Mounted Display

57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



BOTTOM REAR PERSPECTIVE VIEW

21: A2023/01337 22: 2023-12-05 23:
43: 2023-06-06
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402023100367.9 32: 2023-06-06
54: MOTOR VEHICLES

57: The design is a motor vehicle in the form of a 5-door hatch having short overhangs. A front bumper has a pronounced octagonal-shaped radiator grille having a central, horizontally arranged portion and

an array of openings on the top and bottom sides thereof. Round-shaped headlights are provided at the top on either side of the front bumper. Substantially rectangular-shaped side windows are provided above each of the doors. The motor vehicle has a long wheelbase and large wheel arches, and has a side skirt that runs as a belt around the entire bottom edge of the motor vehicle. A trapezium-shaped window is provided between the C and D pillars of the motor vehicle. The motor vehicle has a substantially flat roof and a short lip protrudes rearwardly therefrom. A substantially octagonal-shaped trunk having a raised, horizontally arranged portion is provided. Triangular-shaped rear lights are provided on either side of the raised portion.

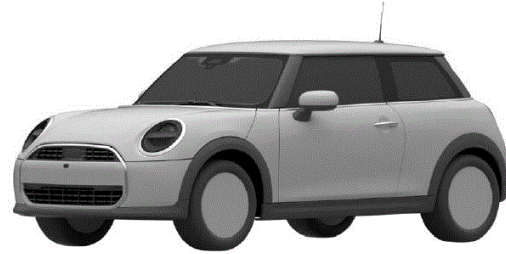


Figure 1
Three-dimensional view



Figure 1
Three-dimensional view

21: A2023/01338 22: 2023-12-05 23: 43: 2023-06-06
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402023100367.9 32: 2023-06-06
54: MOTOR VEHICLES

57: The design is a motor vehicle in the form of a 3-door hatch having short overhangs. A front bumper has a pronounced octagonal-shaped radiator grille having a central, horizontally arranged portion and an array of openings on the top and bottom sides thereof. Round-shaped headlights are provided at the top on either side of the front bumper. The motor vehicle has a long wheelbase and large wheel arches and has a side skirt that runs as a belt around the entire bottom edge of the motor vehicle. Substantially trapezium-shaped windows are provided above each of the side doors. The motor vehicle has a substantially flat roof and a short lip protrudes rearwardly therefrom. A substantially octagonal-shaped trunk having a raised, horizontally arranged portion is provided. Triangular-shaped rear lights are provided on either side of the raised portion.

21: A2023/01339 22: 2023-12-05 23: 43: 2023-06-06
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402023100367.9 32: 2023-06-06
54: MOTOR VEHICLES

57: The design is a motor vehicle in the form of a convertible, 3-door hatch having short overhangs. A front bumper has a pronounced octagonal-shaped radiator grille having a central, horizontally arranged portion and an array of openings on the top and bottom sides thereof. Round-shaped headlights are provided at the top on either side of the front bumper. The motor vehicle has a long wheelbase and large wheel arches, and has a side skirt that runs as a belt around the entire bottom edge of the motor vehicle. The motor vehicle has a collapsible roof that has a rear window. Rectangular-shaped rear lights are provided on either side of the trunk.



Figure 1
Three-dimensional view

21: A2024/00140 22: 2024-02-02 23: 43: 2023-08-04
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/909,457 32: 2023-08-04

54: FOOTWEAR

57: The present design consists of a shoe characterized by a slip-on-type construction consisting of an upper and a sole. The upper extends from the toe portion to a central portion of the sole and includes a curved upper edge. The shoe includes wave-like grooves that extend from the bottom of both sides of the sole and around the upper. The foot opening of the upper includes grooves that extend around its perimeter.



Figure 1

Three-dimensional view

21: A2024/00141 22: 2024-02-02 23:
43: 2023-08-04
52: Class 8 24: Part A
71: Imdex Technologies Pty Ltd
33: AU 31: 202315097 32: 2023-08-04

54: ADAPTORS FOR DOWNHOLE TOOL COMMUNICATION DEVICES

57: The design is for a downhole tool communication device. The downhole tool communication device has a disc shaped body at one end that defines a central opening, the body further defines curved openings on the sides of the top surface. The disc shaped body has a major curved edge and chamfered edges. Three radially spaced apart arcuate plates extend centrally from the disc shaped member. Each arcuate member has a top portion, central major portion that is separated from the top portion by a stepped section/shoulder, and a bottom portion. Two of the arcuate members that are adjacent each other have the same height and are taller than the centrally disposed arcuate member.

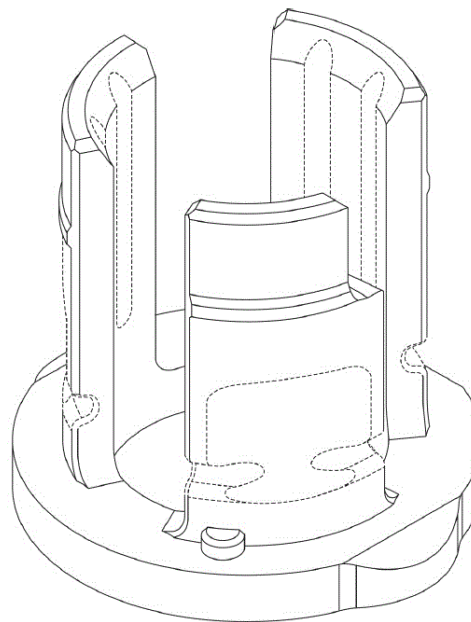


Figure 1

Three-dimensional view

21: A2024/00144 22: 2024-02-02 23:
43: 2023-08-04
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/909,460 32: 2023-08-04

54: FOOTWEAR

57: The present design consists of a shoe characterized by a slip-on-type construction consisting of an upper and a sole. The upper includes an open toe area and cutouts on either side of the upper. The shoe includes a continuous pattern of tightly spaced grooves that extend from the bottom of either side of the sole and around the upper.



Figure 1

Three-dimensional view

43: 2023-08-04
 52: Class 2 24: Part A
 71: Crocs, Inc.
 33: US 31: 29/909,468 32: 2023-08-04

54: FOOTWEAR

57: The present design consists of a shoe characterized by a slip-on-type construction consisting of a sole, a toe portion, and a heel portion. The toe portion includes rounded horizontal grooves. The heel portion includes a rectangular upper extension. The sole includes horizontal grooves that extend from the bottom of the toe portion on either side of the sole and around the upper back area of the sole. The heel portion includes diagonal grooves that extend from the bottom of the sole to a middle portion on either side of the sole.

21: A2024/00146 22: 2024-02-02 23:
 43: 2023-08-04
 52: Class 2 24: Part A
 71: Crocs, Inc.
 33: US 31: 29/909,459 32: 2023-08-04

54: FOOTWEAR

57: The present design consists of a shoe characterized by a slip-on-type construction consisting of an upper, a heel strap connected to the rear upper, and a sole. The top area of the upper includes several holes. The perimeter of the foot opening of the upper includes a band with raised bumps. The toe portion of the upper includes cutouts on either side of the upper. The sole includes an upper portion and lower back heel portion. The lower back heel portion includes curved grooves.



Figure 1

Three-dimensional view

21: A2024/00148 22: 2024-02-02 23:
 43: 2023-08-04
 52: Class 2 24: Part A
 71: Crocs, Inc.
 33: US 31: 29/909,441 32: 2023-08-04

54: FOOTWEAR

57: The present design consists of a shoe characterized by a slip-on-type construction consisting of an upper and a sole. The upper extends from the toe portion to a central portion of the sole and includes a curved upper edge. The top area of the upper includes several holes and grooves that extend from the toe portion to the upper edge. The upper includes a textured strip extending from the lower ends of the curved upper edge and around the toe box. The sole includes a bulged curvatures around the back of the heel area. The sole includes a curved groove that extends from the toe portion to a middle portion of the side sole between the toe portion and the heel portion.



Figure 1

Three-dimensional view

21: A2024/00147 22: 2024-02-02 23:



Figure 1

Three-dimensional view

21: A2024/00149 22: 2024-02-02 23:
 43: 2023-08-04
 52: Class 2 24: Part A
 71: Crocs, Inc.
 33: US 31: 29/909,439 32: 2023-08-04

54: FOOTWEAR

57: The present design consists of a shoe characterized by a slip-on-type construction consisting of an upper and a sole. The upper extends from the toe portion to a central portion of the sole and includes a curved upper edge. The top area of the upper includes several holes. The sole includes a taller heel portion and a shorter toe portion. The sole includes grooves on either side of the sole between the toe portion and the heel portion.



Figure 1

Three-dimensional view

21: A2024/00152 22: 2024-02-02 23:

43: 2023-08-04
 52: Class 8 24: Part A
 71: Imdex Technologies Pty Ltd
 33: AU 31: 202315096 32: 2023-08-04

54: DOWNHOLE TOOL COMMUNICATION DEVICES

57: The design is for a downhole tool communication device. The downhole tool communication device has a generally circular cylindrical body that has a circular front and rear opposite faces and defines a bore therethrough. Sides of the body define spaced apart elongate openings and laterally spaced apart teardrop-shaped openings. A top and bottom of the device is generally rectangular in shape. Cylindrical members extend between the front and bottom at the bottom sides of the body.

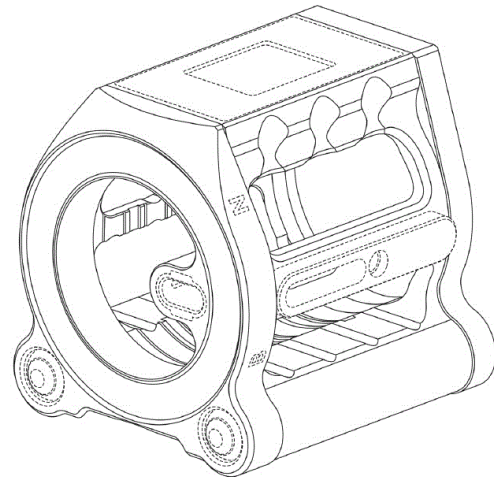


Figure 1

Three-dimensional view

21: A2024/00154 22: 2024-02-02 23:
 43: 2023-08-04
 52: Class 2 24: Part A
 71: Crocs, Inc.
 33: US 31: 29/909,458 32: 2023-08-04

54: FOOTWEAR

57: The present design consists of a shoe characterized by a slip-on-type construction consisting of an upper and a sole. The top area of the upper includes several holes. The foot opening of the upper includes a groove around its perimeter. The sidewalls of the outsole include a curvy profile from toe to heel and behind the heel.



Figure 1
Three-dimensional view

21: A2024/00160 22: 2024-02-06 23:
43: 2023-08-07
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/909,501 32: 2023-08-07

54: PISTON PUMPS

57: The features of the design are illustrated in the overall appearance of the design. This design relates to a piston pump, which may be used as an implement pump for a wheel loader, or other construction machinery.

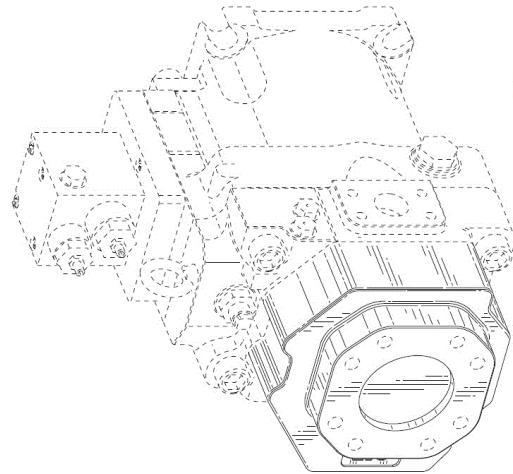


Figure 1
First three-dimensional view

21: A2024/00158 22: 2024-02-06 23:
43: 2023-08-07
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/909,498 32: 2023-08-07

54: PISTON PUMPS

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a piston pump, which may be used as an implement pump for a wheel loader, or other construction machinery.

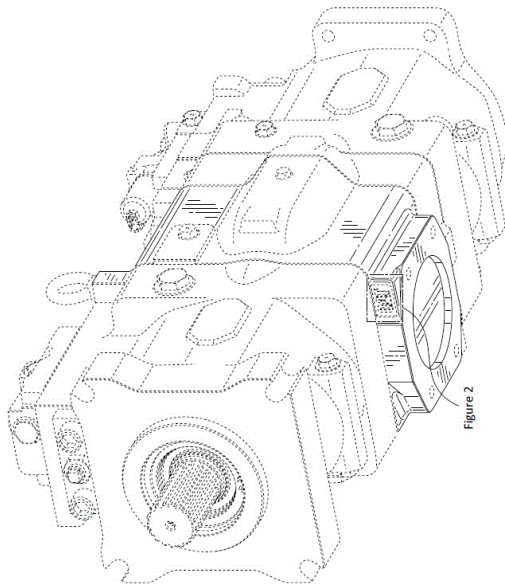


Figure 1
First three-dimensional view

21: A2024/00161 22: 2024-02-06 23:
43: 2023-08-07
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/909,508 32: 2023-08-07

54: PISTON PUMPS

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a piston pump, which may be used as an implement pump for a wheel loader, or other construction machinery.

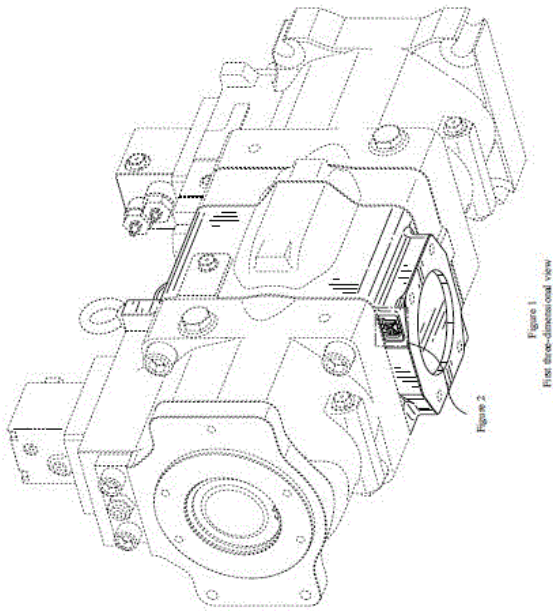


Figure 1
First three-dimensional view

Figure 2

21: A2024/00163 22: 2024-02-06 23:
43: 2023-08-07
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/909,501 32: 2023-08-07

54: PISTON PUMPS

57: The features of the design are illustrated in the overall appearance of the design. This design relates to a piston pump, which may be used as an implement pump for a wheel loader, or other construction machinery.

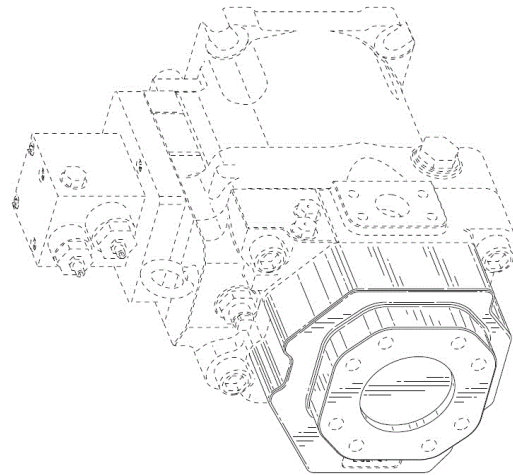


Figure 1
First three-dimensional view

21: A2024/00162 22: 2024-02-06 23:
43: 2023-08-07
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/909,498 32: 2023-08-07

54: PISTON PUMPS

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a piston pump, which may be used as an implement pump for a wheel loader, or other construction machinery.

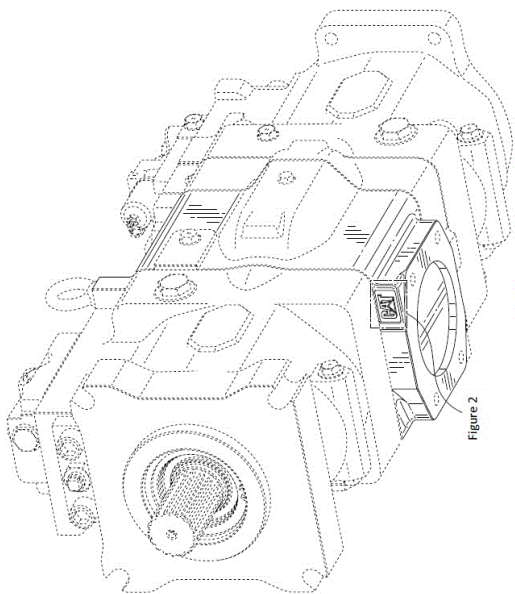


Figure 1

First three-dimensional view

Figure 2

21: A2024/00164 22: 2024-02-06 23:
43: 2023-08-07
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/909,508 32: 2023-08-07

54: PISTON PUMPS

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a piston pump, which may be used as an implement pump for a wheel loader, or other construction machinery.

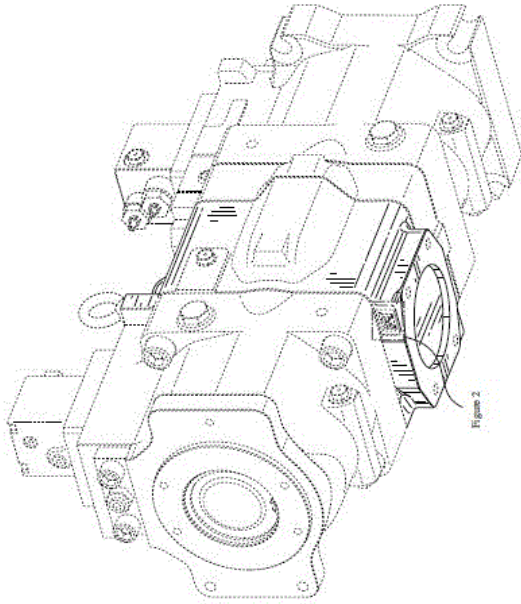


Figure 1
First three-dimensional view

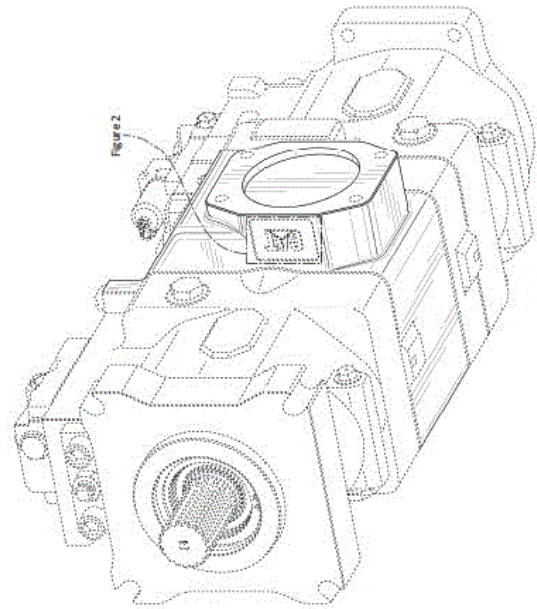


Figure 1
Three-dimensional view

21: A2024/00165 22: 2024-02-06 23:
43: 2023-08-07
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/909,521 32: 2023-08-07

54: PISTON PUMPS

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a piston pump, which may be used as an implement pump for a wheel loader, or other construction machinery.

21: A2024/00167 22: 2024-02-06 23:
43: 2023-08-07
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/909,521 32: 2023-08-07

54: PISTON PUMPS

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a piston pump, which may be used as an implement pump for a wheel loader, or other construction machinery.

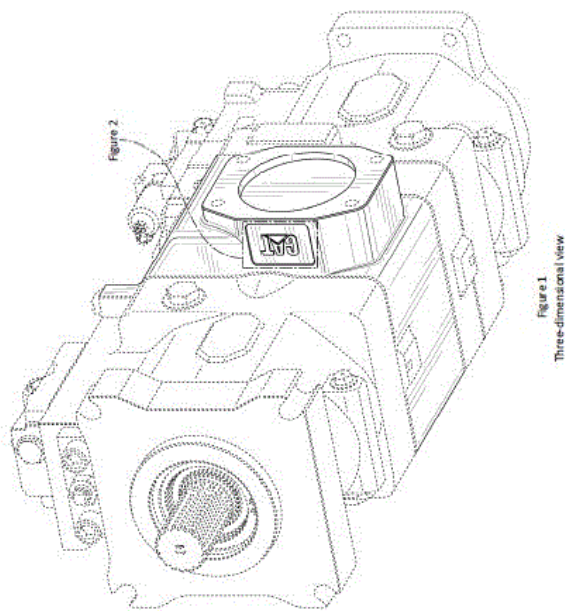


Figure 1
Three-dimensional view

21: A2024/00173 22: 2024-02-09 23:
43: 2023-08-11
52: Class 9 24: Part A
71: UPL Mauritius Limited
33: IN 31: 392568-001 32: 2023-08-11

54: CONTAINERS

57: The design is for a container comprising an elongate body, which is circular in transverse cross-section, and a cap dismountably mounted on the body. The body includes a circular base, a generally domed shoulder, and a sidewall extending between the base and shoulder. The sidewall includes a lower portion, an intermediate portion and an upper portion which are separated by annular recesses. The intermediate portion has a waisted appearance. The diameter of the upper portion increases gradually away from the shoulder. The diameter of the lower portion increases gradually away from the base. The cap is mounted on a neck which protrudes upwardly from the shoulder. The cap has a circular top and a skirt depending therefrom. The top has a circular recessed central portion. A plurality of circumferentially spaced apart recesses is provided on the skirt extending between the top and an annular shoulder provided at a bottom of the skirt.

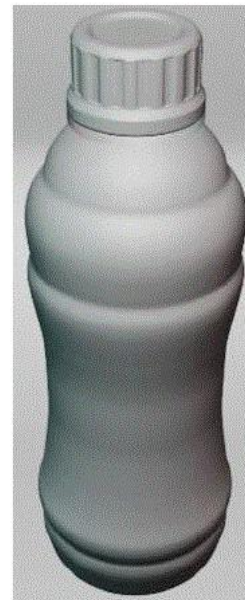


Figure 1
Three-dimensional view

21: A2024/00453 22: 2024-05-10 23:
43: 2024-12-04
52: Class 32. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: EM 31: 015042692-0001 32: 2023-11-29

54: Symbiotic Design

57: The design relates to a symbiotic design. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW

21: A2024/00475 22: 2024-05-21 23:

43: 2023-11-22
 52: Class 31 24: Part A
 71: La Marzocco S.r.l.
 33: EM(IT) 31: 015041961-0001 32: 2023-11-22

54: COFFEE MACHINES

57: The design is for a coffee machine. The coffee machine has an upper body atop a lower base. The body has a stepped profile with a lower half having a notable upward outward incline at its sides and back, with an upper half projecting outwardly past the lower half, having upright side walls with a gentle upward outward incline at its back. The step between the lower and upper halves is gently rearwardly upwardly inclined. The body, with its upwardly outwardly inclined profile, confers a feeling of lightness when seen from the side. A front of the body is upright with a control console projecting forwardly from the upper half. The control console has two prominent rotary dials, one on each side, and a prominent central slider with an arcuate sliding path provided centrally between the two dials. The base has spaced apart feet, a drip tray, and is generally rectangular.

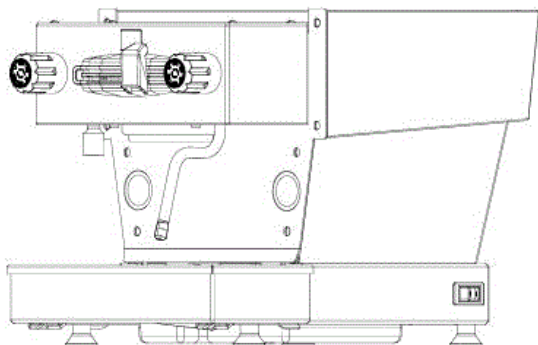


Figure 1
 Three-dimensional view

21: A2024/00476 22: 2024-05-21 23: 2024-03-26
 43: 2024-03-26
 52: Class 2 24: Part A
 71: BATHU SWAG (PTY) LIMITED

54: SNEAKERS

57: The design is for a sneaker. The features of the design are illustrated in the overall appearance of the sneaker except for the logo and trademark devices which are shown for illustrative purposes only, and except for the stitch lines and laces which are optional and do not form an essential part of the overall design.

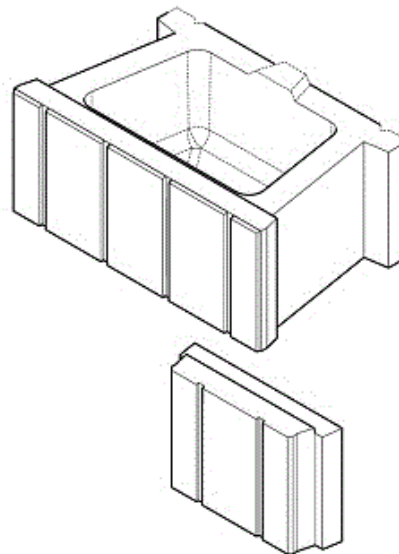


Three-dimensional view from front

21: A2024/00488 22: 2024-05-24 23:
 43: 2024-12-04
 52: Class 25. 24: Part A
 71: TECHNICRETE ISG (PTY) LTD.

54: Set of Construction Elements

57: The design relates to a set of construction elements. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

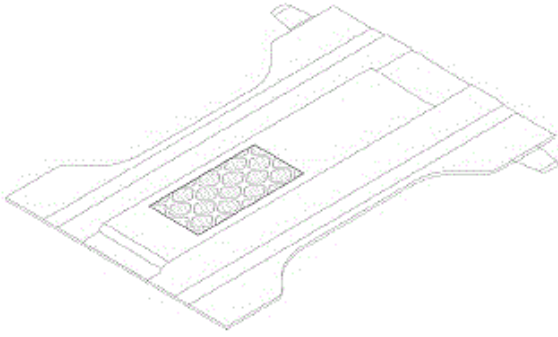


PERSPECTIVE VIEW – SET

21: A2024/00489 22: 2024-05-24 23:
 43: 2024-12-04
 52: Class 2. 24: Part A
 71: VINDA MALAYSIA SDN BHD

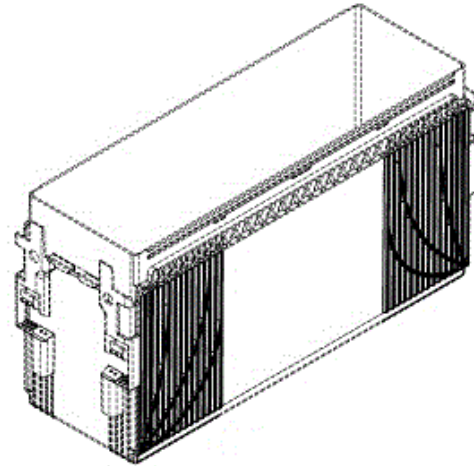
54: Open Tape Diaper

57: The design relates to an open tape diaper. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP PERSPECTIVE VIEW

43: 2024-12-04
 52: Class 9. 24: Part A
 71: PLASTPACK DEFENCE APS
54: Container
 57: The design relates to a container. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2024/00492 22: 2024-05-24 23:
 43: 2023-11-29
 52: Class 9 24: Part A
 71: Laboratoire Francais du Fractionnement et des Biotechnologies
 33: HSIRID(US) 31: DM/234322 32: 2023-11-29
54: BOXES
 57: The design is for a box having cuboid shape. The box has a rectangular base, two major rectangular sides (front and back), two minor rectangular sides (ends), a rectangular lid, and an internal flap foldable about one of the minor sides. The lid is foldable about a rear edge and has a major foldable tuck flap projecting from a front edge, and identical and opposite minor tuck flaps projecting from side edges. The major tuck flap is rectangular with rounded free corners, and the minor tuck flaps each have an isosceles trapezium shape having sides that taper inwardly and rounded free corners. The internal flap is rectangular and fits inside the box and has an inverted U-shaped cutout at a front side which is off-centre.

21: A2024/00498 22: 2024-05-28 23:
 43: 2024-12-04
 52: Class 9. 24: Part A
 71: PEPSICO, INC.
 33: US 31: 29/921,999 32: 2023-12-20
54: Bottle
 57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

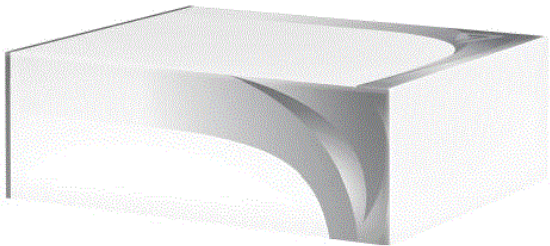
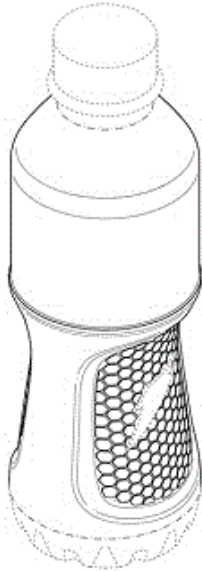


Figure 1
 Three-dimensional view of a box in a closed configuration

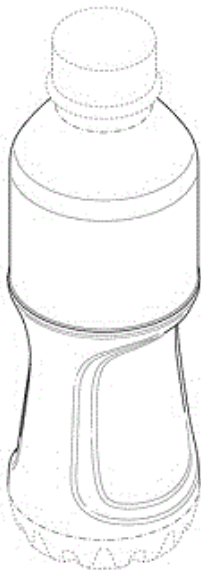
21: A2024/00496 22: 2024-05-27 23:



TOP FRONT PERSPECTIVE VIEW

21: A2024/00499 22: 2024-05-28 23:
43: 2024-12-04
52: Class 9. 24: Part A
71: PEPSICO, INC.
33: US 31: 29/921,999 32: 2023-12-20

54: Bottle
57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP FRONT PERSPECTIVE VIEW

21: A2024/00500 22: 2024-05-28 23:
43: 2024-12-04
52: Class 9. 24: Part A
71: PEPSICO, INC.

33: US 31: 29/921,999 32: 2023-12-20

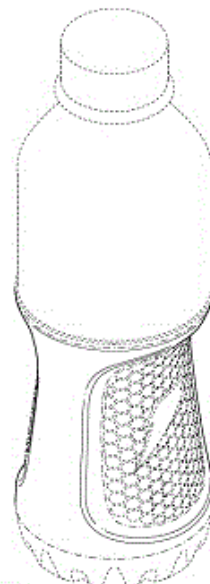
54: Bottle
57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP FRONT PERSPECTIVE VIEW

21: A2024/00501 22: 2024-05-28 23:
43: 2024-12-04
52: Class 9. 24: Part A
71: PEPSICO, INC.
33: US 31: 29/921,999 32: 2023-12-20

54: Bottle
57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or ornamentation.



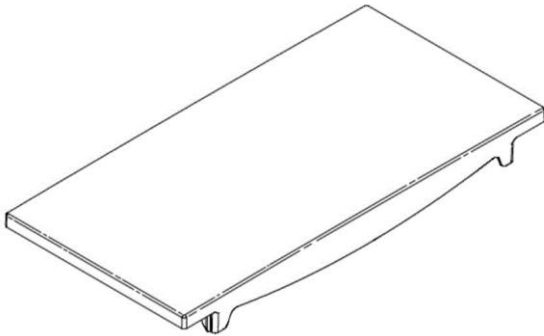
TOP FRONT PERSPECTIVE VIEW

21: A2024/00506 22: 2024-05-30 23:
43: 2024-05-30
52: Class 6 24: Part A

71: SUPERCART SOUTH AFRICA (PTY) LTD

54: SHELF SLAT

57: The design is applied to a shelf slat for a shelf rack. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a shelf slat, substantially as illustrated in the accompanying representations.



Three-dimensional view from top

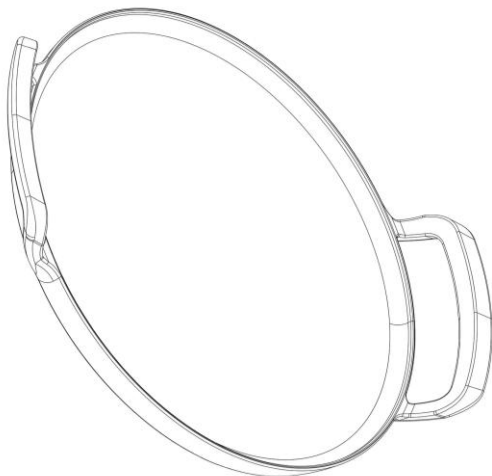
21: A2024/00515 22: 2024-06-04 23:
43: 2025-01-06
52: Class 07 24: Part A

71: LE CREUSET GROUP AG

33: IB 31: DM/235567 32: 2024-02-27

54: PIZZA PAN

57: The design is applied to a pizza pan. 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 pizza pan, substantially as illustrated in the accompanying representation.



21: A2024/00517 22: 2024-06-04 23:
43: 2025-01-06

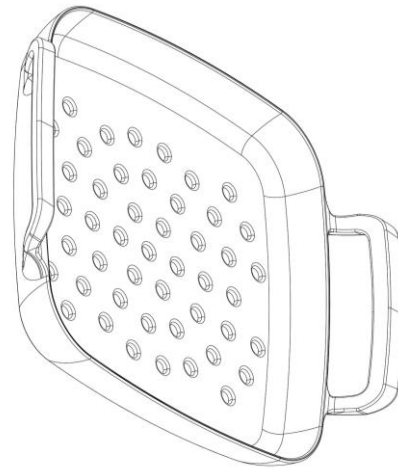
52: Class 07 24: Part A

71: LE CREUSET GROUP AG

33: IB 31: DM/235571 32: 2024-02-27

54: GRILL PAN

57: The design is applied to a grill pan. 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 grill pan, substantially as illustrated in the accompanying representation.



21: A2024/00518 22: 2024-06-04 23:
43: 2025-01-06

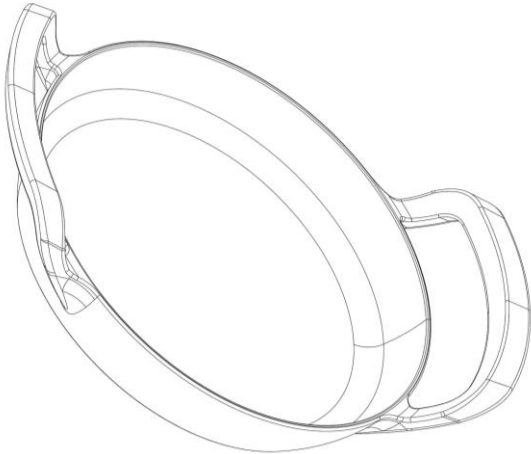
52: Class 07 24: Part A

71: LE CREUSET GROUP AG

33: IB 31: DM/235570 32: 2024-02-27

54: PAN

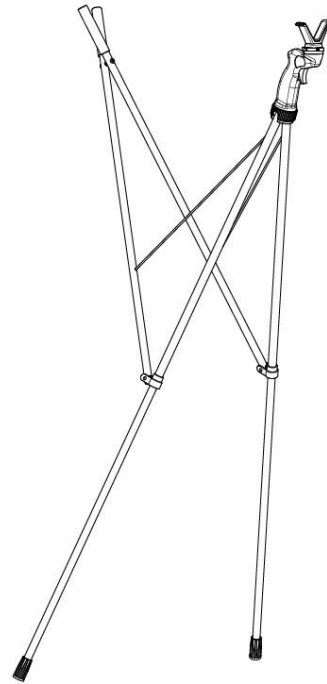
57: The design is applied to a pan. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the pan, substantially as illustrated in the accompanying representation.



71: JAN VAN TILL HOLDINGS

54: SHOOTING STICK

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a SHOOTING STICK as shown in the accompanying representations, irrespective of the features shown in broken lines.



21: A2024/00547 22: 2024-06-13 23:

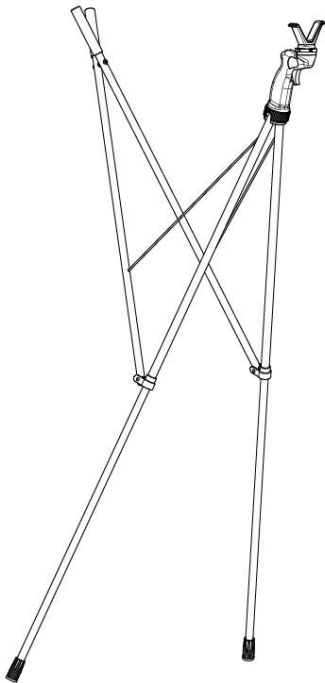
43: 2025-01-06

52: Class 13 24: Part A

71: JAN VAN TILL HOLDINGS

54: SHOOTING STICK

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a SHOOTING STICK as shown in the accompanying representations, irrespective of the features shown in broken lines.



21: A2024/00577 22: 2024-06-14 23:

43: 2025-01-06

52: Class 09 24: Part A

71: TIMAC AGRO INTERNATIONAL

33: IB 31: DM/236959 32: 2024-03-22

54: PACKAGING BAG

57: The design is applied to a packaging bag. The features of the design for which protection is claimed are those of the shape and/or pattern and/or ornamentation of the packaging bag, substantially as illustrated in the accompanying representation.

21: A2024/00549 22: 2024-06-13 23:

43: 2025-01-06

52: Class 28 24: Part A



21: A2024/00578 22: 2024-06-14 23:
 43: 2025-01-06
 52: Class 09 24: Part A
 71: TIMAC AGRO INTERNATIONAL
 33: IB 31: DM/236960 32: 2024-03-22

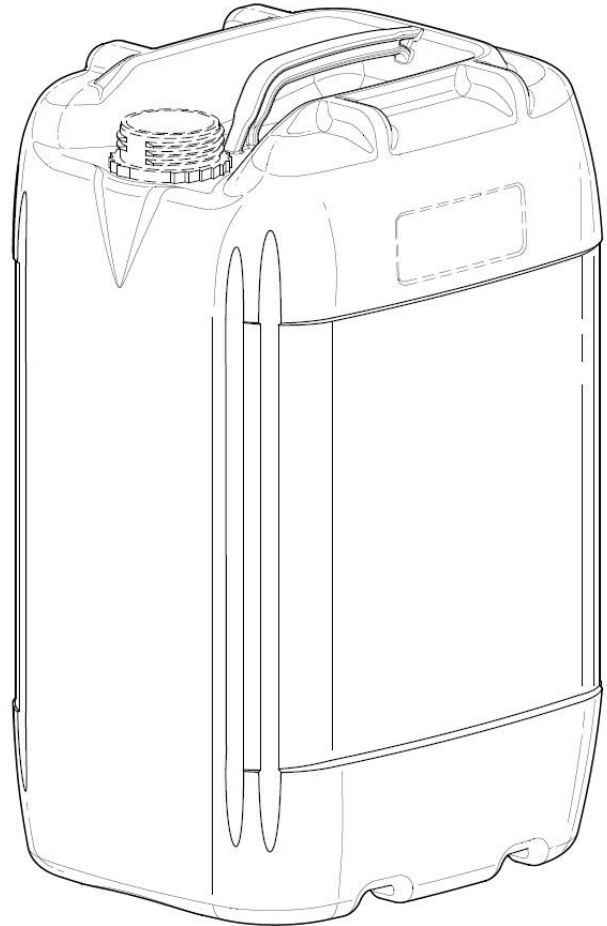
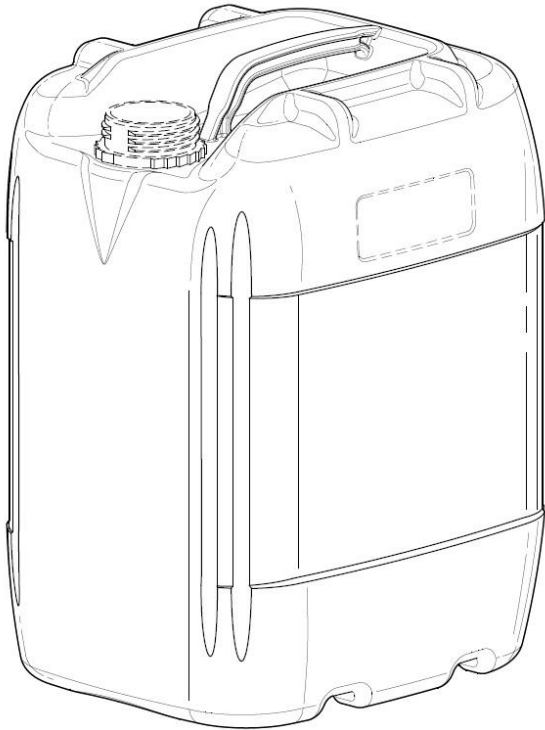
54: PACKAGING BAG

57: The design is applied to a packaging bag. The features of the design for which protection is claimed are those of the shape and/or pattern and/or ornamentation of the packaging bag, substantially as illustrated in the accompanying representation.

21: A2024/00589 22: 2024-06-19 23:
 43: 2025-01-06
 52: Class 09 24: Part A
 71: BESTER, Alida

54: CONTAINER

57: The features of the design for which protection is claimed resides in the pattern and/or shape and/or configuration and/or ornamentation of the CONTAINER substantially as illustrated in the accompanying representations, irrespective of the appearance of the features shown in broken lines.



21: A2024/00591 22: 2024-06-19 23:
 43: 2025-01-06
 52: Class 09 24: Part A
 71: BESTER, Alida

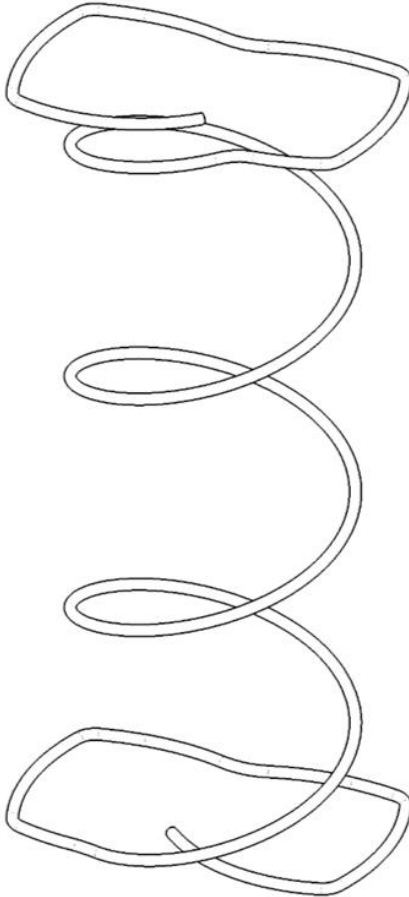
54: CONTAINER

57: The features of the design for which protection is claimed resides in the pattern and/or shape and/or configuration and/or ornamentation of the CONTAINER substantially as illustrated in the accompanying representations, irrespective of the appearance of the features shown in broken lines.

21: A2024/00593 22: 2024-06-20 23:
 43: 2025-01-06
 52: Class 09 24: Part A
 71: Polyoak Packaging (Pty) Ltd

54: A BOTTLE

57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the bottle, substantially as illustrated in the accompanying representations.



21: A2024/00597 22: 2024-06-20 23:
43: 2025-01-06
52: Class 06 24: Part A
71: MADAD PTY LTD
33: AU 31: 202410359 32: 2024-01-22

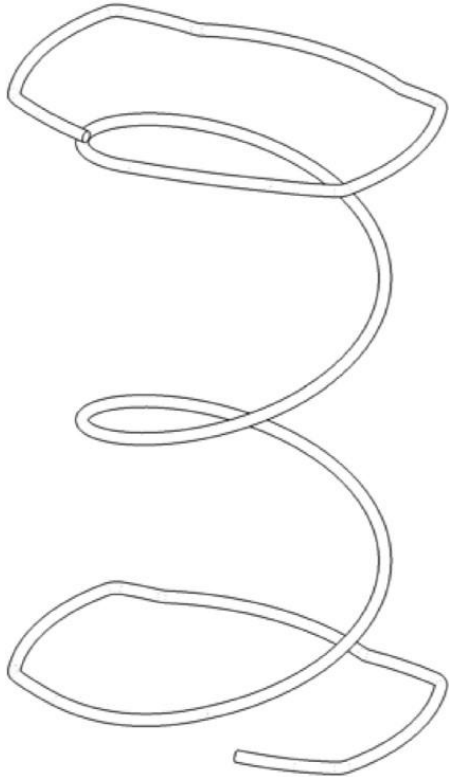
54: MATTRESS WIRE COIL

57: The design is applied to a mattress wire coil. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the mattress wire coil, substantially as illustrated in the accompanying representation.

21: A2024/00601 22: 2024-06-20 23:
43: 2025-01-06
52: Class 06 24: Part A
71: MADAD PTY LTD
33: AU 31: 202410360 32: 2024-01-22

54: MATTRESS WIRE COIL

57: The design is applied to a mattress wire coil. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the mattress wire coil, substantially as illustrated in the accompanying representation.



54: HEADLIGHT FOR VEHICLE

57: The design relates to a HEADLIGHT FOR VEHICLE. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2024/01234 22: 2024-11-29 23:

43: 2025-01-07

52: Class 1 24: Part A

71: Zhejiang Leapmotor Technology Co., Ltd

33: CN 31: 202430493651.3 32: 2024-08-05

54: INSTRUMENT PANEL FOR VEHICLE

57: The design relates to a INSTRUMENT PANEL FOR VEHICLE. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.

21: A2024/01232 22: 2024-11-29 23:

43: 2025-01-07

52: Class 12 24: Part A

71: Zhejiang Leapmotor Technology Co., Ltd

33: CN 31: 202430493637.3 32: 2024-08-05

54: HEADLIGHT FOR VEHICLE

57: The design relates to a HEADLIGHT FOR VEHICLE. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2024/01235 22: 2024-11-29 23:

43: 2025-01-07

52: Class 12 24: Part A

71: Zhejiang Leapmotor Technology Co., Ltd

33: CN 31: 202430493636.9 32: 2024-08-05

54: TAILLIGHT FOR VEHICLE

57: The design relates to a TAILLIGHT FOR VEHICLE. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.

21: A2024/01233 22: 2024-11-29 23:

43: 2025-01-07

52: Class 12 24: Part A

71: Zhejiang Leapmotor Technology Co., Ltd

33: CN 31: 202430493645.8 32: 2024-08-05



21: A2024/01236 22: 2024-11-29 23:
43: 2025-01-07

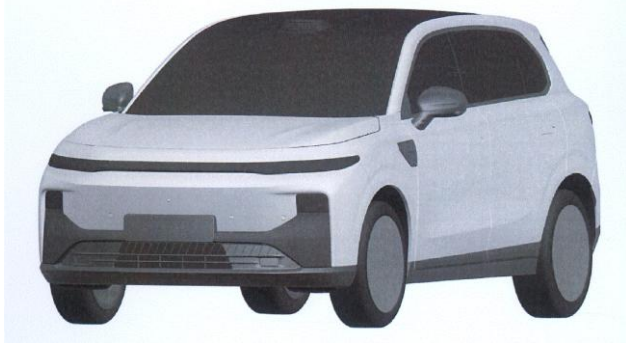
52: Class 12 24: Part A

71: Zhejiang Leapmotor Technology Co., Ltd

33: CN 31: 202430493647.7 32: 2024-08-05

54: VEHICLE

57: The design relates to a VEHICLE. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



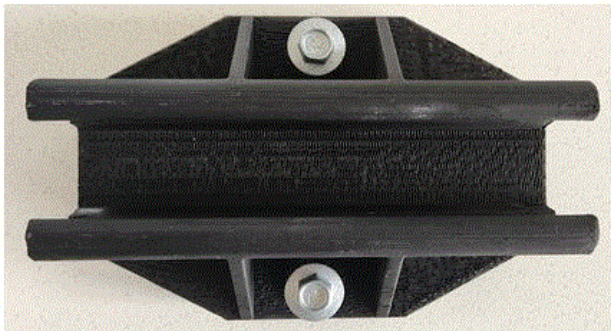
21: F2024/00443 22: 2024-05-09 23:
43: 2024-12-04

52: Class 13 24: Part F

71: NIENHUIS, Jan, Balster

54: IBR ROOF RAIL FOR MOUNTING SOLAR PANELS

57: The design relates to an IBR Roof Rail for Mounting Solar Panels. The features of the design are those of shape and/or configuration. The screws and shown in the Figures do not form part of the design.



21: F2024/00444 22: 2024-05-09 23:

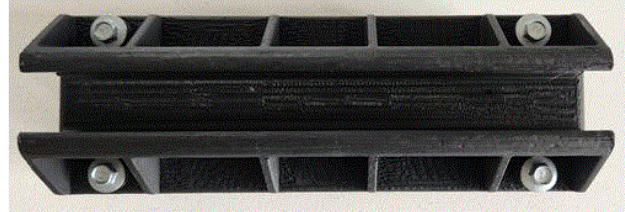
43: 2024-12-04

52: Class 13 24: Part F

71: NIENHUIS, Jan, Balster

54: IBR ROOF EXTENDED RAIL FOR MOUNTING SOLAR PANELS

57: The design relates to an IBR Roof Extended Rail for Mounting Solar Panels. The features of the design are those of shape and/or configuration. The screws and shown in the Figures do not form part of the design.



21: F2024/00445 22: 2024-05-09 23:

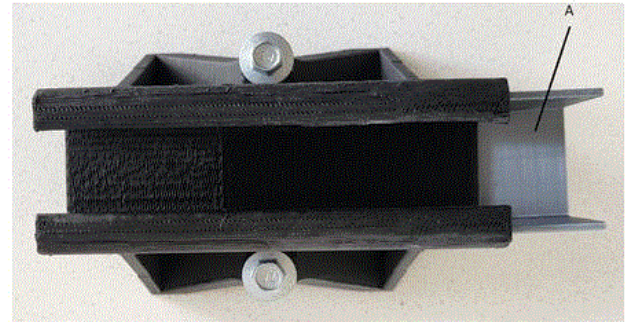
43: 2024-12-04

52: Class 13 24: Part F

71: NIENHUIS, Jan, Balster

54: CORRUGATED ROOF RAIL FOR MOUNTING SOLAR PANELS

57: The design relates to a Corrugated Roof Rail for Mounting Solar Panels. The features of the design are those of shape and/or configuration. The screws and shown in the Figures do not form part of the design.



21: F2024/00446 22: 2024-05-09 23:

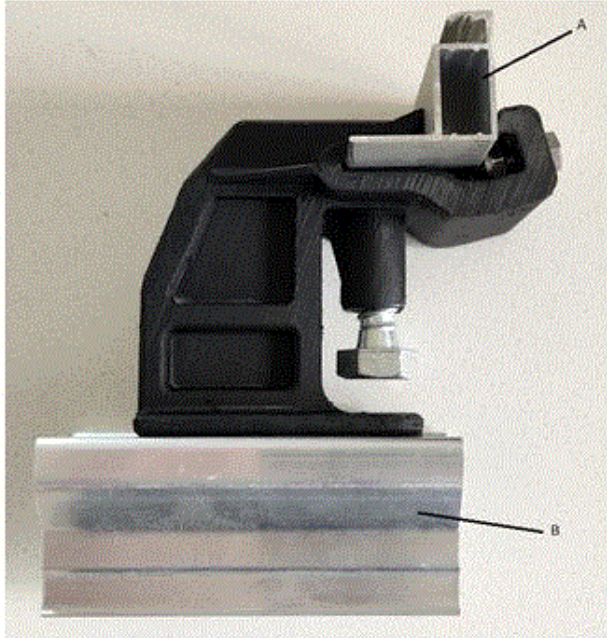
43: 2024-12-04

52: Class 13 24: Part F

71: NIENHUIS, Jan, Balster

54: ANTI-THEFT SOLAR PANEL BRACKET

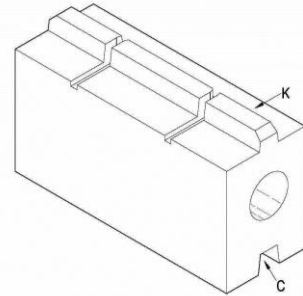
57: The design relates to an Anti-Theft Solar Panel Bracket. The features of the design are those of shape and/or configuration. The Solar Panel Frame "A" and Rail "B" and screws and nuts shown in the Figures do not form part of the design.



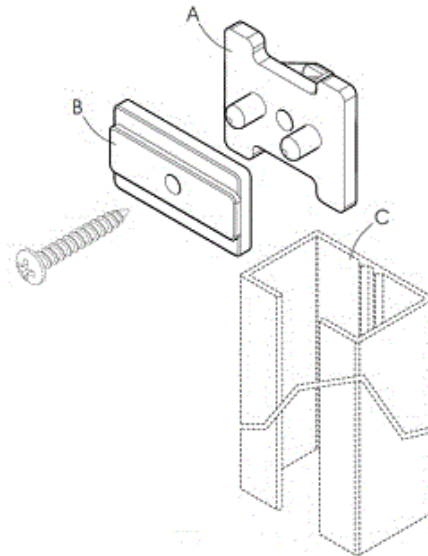
21: F2024/00477 22: 2024-05-21 23:
43: 2024-05-21
52: Class 25 24: Part F
71: OSBORN, Simon Edward

54: Prefabricated building parts

57: This design relates to prefabricated building parts, particularly in the form of cementitious façade blocks. The block has a cuboidal body with opposing top and bottom surfaces interconnected with a pair of opposing end surfaces, and opposing front and rear surfaces. The block comprises a male key protruding from the first surface and a female channel projecting into the body from the second surface, wherein the key and channel are shaped and/or dimensioned for complementary engagement with a channel and key of adjacent, similar façade blocks. The block defines a cylindrical bore extending longitudinally therethrough. The block defines a pair of slots which separate the key into three portions, wherein the slots extend into a U-shaped locating recess defined by the top surface, wherein the locating recess partially encircles a portion of the key. The locating recess comprises free ends which extend toward the rear surface of the block.

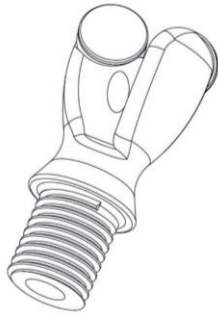


21: F2024/00486 22: 2024-05-23 23:
43: 2024-12-04
52: Class 25. 24: Part F
71: VAN ACHT WINDOW MANUFACTURERS CC
54: Cladding Anchor Assembly
57: The design relates to cladding anchor assembly. The features of the design are those of shape and/or configuration.



FRONT PERSPECTIVE VIEW EXPLODED

21: F2024/00487 22: 2024-05-24 23:
43: 2024-12-10
52: Class 15 24: Part F
71: SANDVIK MINING AND CONSTRUCTION AUSTRALIA (PRODUCTION/SUPPLY) PTY LTD
33: EM 31: 015044602 32: 2023-12-15
54: A DRILL BIT FOR CONSTRUCTION AND MINING MACHINES
57: The design for which protection is claimed relates to a drill bit for construction and mining machines shown in perspective front view in the drawing showing the overall appearance thereof.



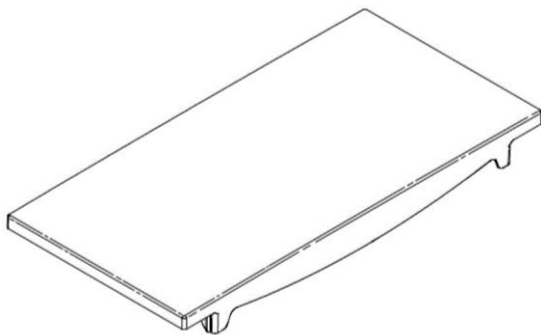
21: F2024/00507 22: 2024-05-30 23:
43: 2024-05-30

52: Class 6 24: Part F

71: SUPERCART SOUTH AFRICA (PTY) LTD

54: SHELF SLAT

57: The design is applied to a shelf slat for a shelf rack. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a shelf slat, substantially as illustrated in the accompanying representations.



Three-dimensional view from top

21: F2024/00548 22: 2024-06-13 23:

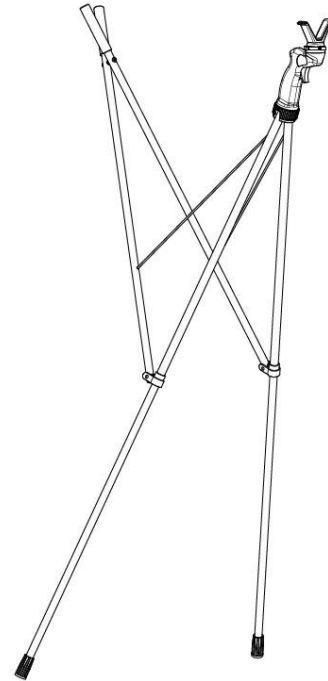
43: 2025-01-06

52: Class 13 24: Part F

71: JAN VAN TILL HOLDINGS

54: SHOOTING STICK

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a SHOOTING STICK as shown in the accompanying representations, irrespective of the features shown in broken lines.



21: F2024/00550 22: 2024-06-13 23:

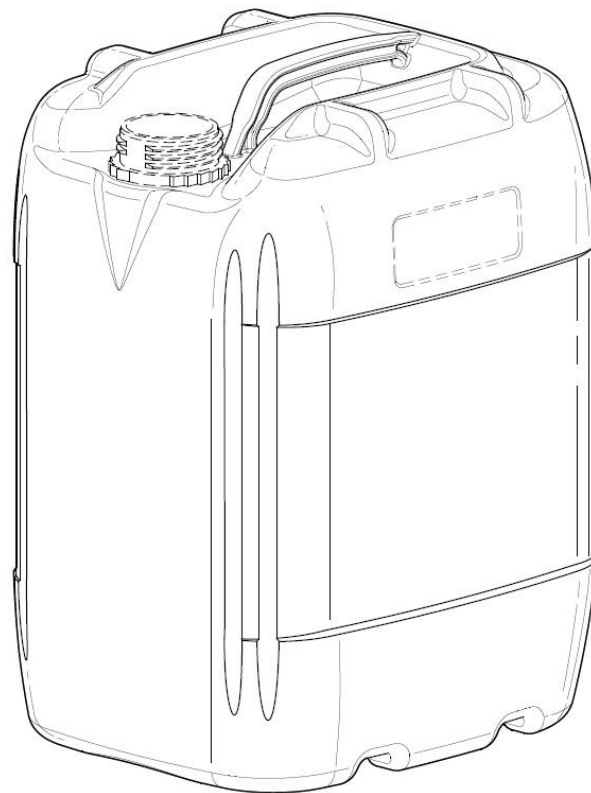
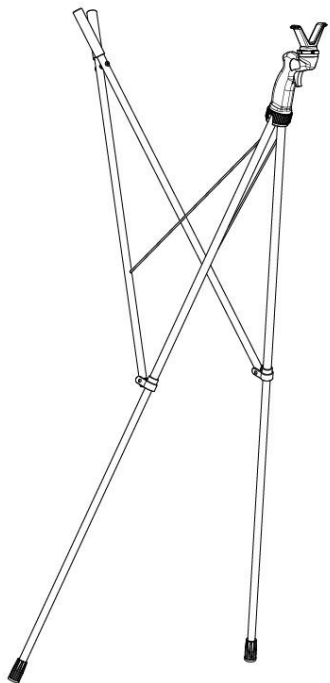
43: 2025-01-06

52: Class 28 24: Part F

71: JAN VAN TILL HOLDINGS

54: SHOOTING STICK

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a SHOOTING STICK as shown in the accompanying representations, irrespective of the features shown in broken lines.



21: F2024/00590 22: 2024-06-19 23:

43: 2025-01-06

52: Class 09 24: Part F

71: BESTER, Alida

54: CONTAINER

57: The features of the design for which protection is claimed resides in the pattern and/or shape and/or configuration of the CONTAINER substantially as illustrated in the accompanying representations, irrespective of the appearance of the features shown in broken lines.

21: F2024/00592 22: 2024-06-19 23:

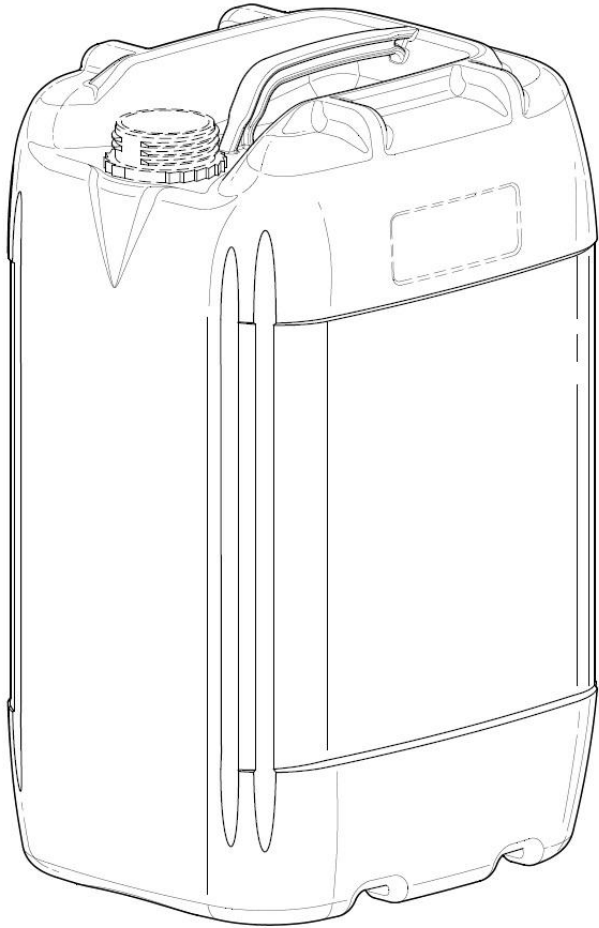
43: 2025-01-06

52: Class 09 24: Part F

71: BESTER, Alida

54: CONTAINER

57: The features of the design for which protection is claimed resides in the pattern and/or shape and/or configuration of the CONTAINER substantially as illustrated in the accompanying representations, irrespective of the appearance of the features shown in broken lines.



21: F2024/00594 22: 2024-06-20 23:
43: 2025-01-06
52: Class 09 24: Part F
71: Polyoak Packaging (Pty) Ltd

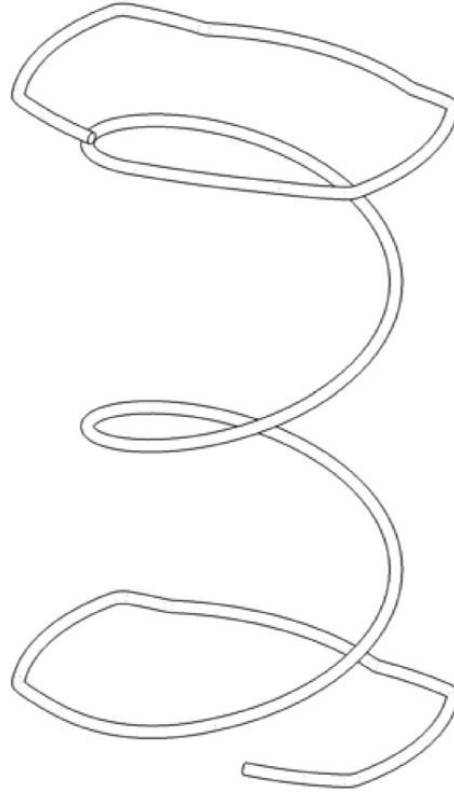
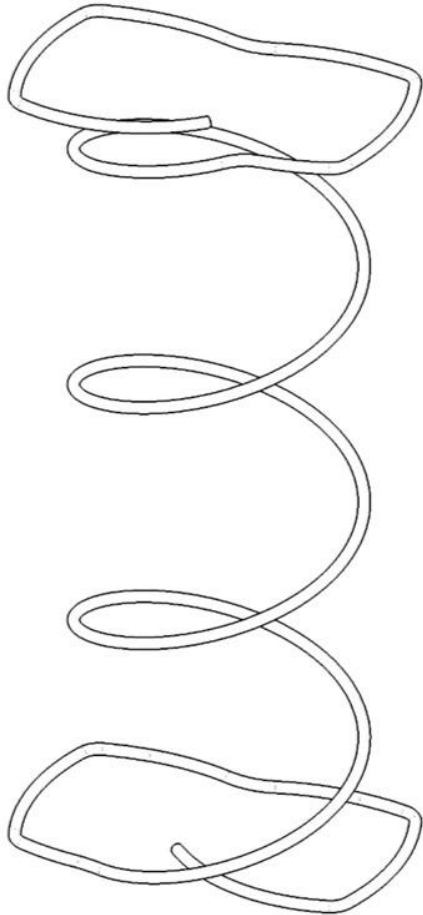
54: A BOTTLE

57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the bottle, substantially as illustrated in the accompanying representations.

21: F2024/00600 22: 2024-06-20 23:
43: 2025-01-06
52: Class 08 24: Part F
71: MADAD PTY LTD
33: AU 31: 202410359 32: 2024-01-22

54: MATTRESS WIRE COIL

57: The design is applied to a mattress wire coil. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the mattress wire coil, substantially as illustrated in the accompanying representation.



21: F2024/00608 22: 2024-06-20 23:
43: 2025-01-06
52: Class 08 24: Part F
71: MADAD PTY LTD
33: AU 31: 202410360 32: 2024-01-22

54: MATTRESS WIRE COIL

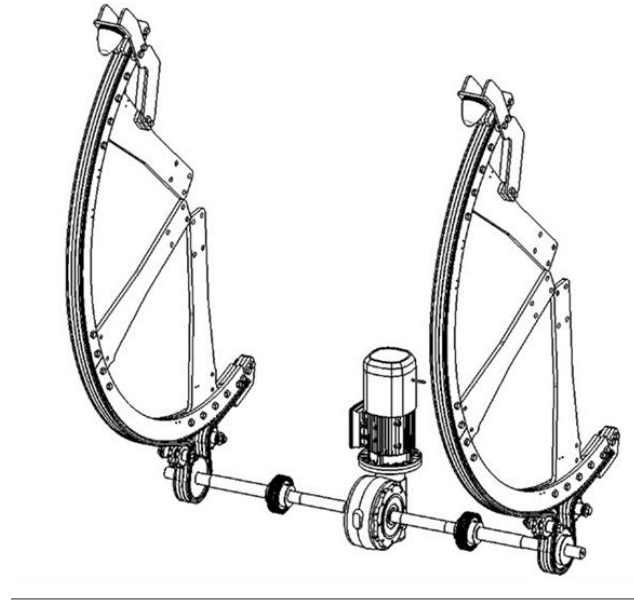
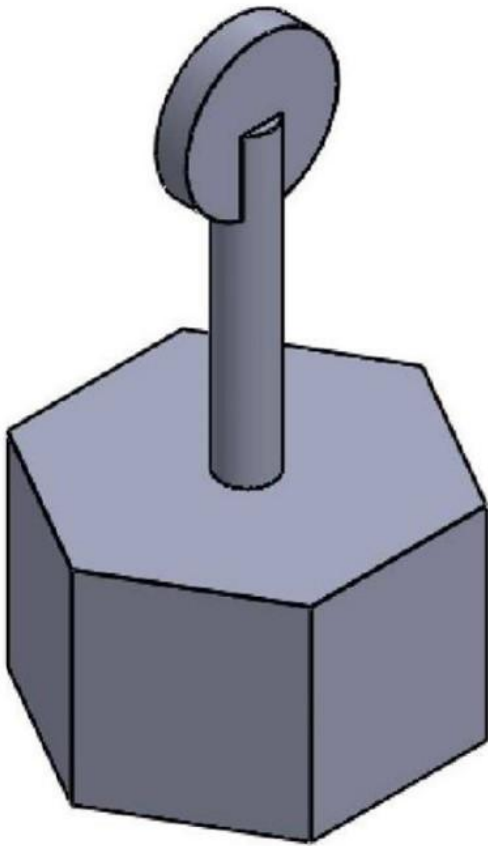
57: The design is applied to a mattress wire coil. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the mattress wire coil, substantially as illustrated in the accompanying representation.

21: F2024/00675 22: 2024-07-11 23: 2024-06-01
43: 2025-02-14

52: Class 08 24: Part F
71: MISOLAR TRADING (PTY) LTD

54: PLUGS FOR FASTENERS

57: The design is for a plug for a fastener with a hexagonal recess, and the plug includes a hexagonal portion that is configured to be inserted into the recess, and a narrow handle that is configured to be severed from the hexagonal portion after it has been inserted into the fastener's recess.



21: F2024/00725 22: 2024-07-22 23:

43: 2025-02-14

52: Class 12 24: Part F

71: GOSSAMER MACHINERY (PTY) LTD

54: CONTAINER HANDLING MECHANISM

57: The design is for a container handling mechanism that forms part of a machine for discharging contents from an open container onto conveying or sorting apparatus. The machine includes a drive mechanism comprising a fixedly supported sprocket segment with protruding teeth on its periphery that are engaged with a chain, a motor connected to a shaft configured to drive a drive sprocket that is also engaged with the chain. The machine includes a cradle that is configured to receive open containers and pivot as the drive sprocket progresses along the chain.

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

No records available

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

The patent application number **2024/03411** was advertised in the journal of **29 January 2025** on page **251** with incorrect sequence of priority information as below:

- 1. 33: GR 31: 20210100683 32: 2021-06-09**
- 2. 33: GB 31: 2119164.8 32: 2021-13-12**

It should read:

- 1. 33: GR 31: 20210100683 32: 2021-10-06**
- 2. 33: GB 31: 2119164.8 32: 2021-12-13**

The publication date will remain the **29/01/2025** as the valid publication date.

DESIGNS CORRECTION NOTICES

No records available

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for February 2025

Number of Advertised Patents: 472

Application Number	Patent Title	Filing Date
2015/05170	TABLETS WITH IMPROVED ACCEPTANCE AND GOOD STORAGE STABILITY	2015/07/17
2015/06009	GLYPHOSATE COMPOSITION FOR DICAMBA TANK MIXTURES WITH IMPROVED VOLATILIRY	2015/08/19
2016/04933	USE OF PHOSPHORUS CONTAINING HERBICIDES AS DESICCANT FOR PLANTS OF THE GENUS SACCHARUM	2016/07/15
2017/04327	METHODS AND COMPOSITIONS FOR TREATING BRAIN DISEASES	2017/06/26
2017/05301	RADIOPHARMACEUTICAL SOLUTIONS WITH ADVANTAGEOUS PROPERTIES	2017/08/04
2018/01620	DEVICE FOR THERAPEUTIC PLASMA EXCHANGE	2018/03/09
2018/03518	HAIR GROWTH COMPOSITION AND METHOD	2018/05/28
2018/04697	NUTRITIONAL COMPOSITION AND INFANT FORMULA FOR PROMOTING MYELINATION OF THE BRAIN	2018/07/13
2018/04698	NUTRITIONAL COMPOSITIONS AND INFANT FORMULA FOR PROMOTING DE NOVO MYEALINATION	2018/07/13
2018/05661	IMPROVED HYDROPHILIC COMPOSITIONS	2018/08/24
2018/05662	ELECTRICALLY CONDUCTING HYDROPHILIC CO-POLYMERS	2018/08/24
2019/01962	ASSAY FOR DISTINGUISHING BETWEEN SEPSIS AND SYSTEMIC INFLAMMATORY RESPONSE SYNDROME	2019/03/27
2020/02626	USE OF RILUZOLE PRODRUGS TO TREAT ATAXIAS	2020/05/11
2020/04245	COMPOSITIONS FOR USE IN THE PROMOTION OF INTESTINAL MUSCLE GROWTH AND DEVELOPMENT AND ASSOCIATED INTESTINAL MOTILITY	2020/07/10
2020/05227	DEIONIZATION DEVICE AND METHOD FOR AT LEAST PARTIALLY DEIONIZING A FEED	2020/08/21

Application Number	Patent Title	Filing Date
	LIQUID IN WHICH AN ELECTROLYTE IS DISSOLVED, AND APPARATUSES USING SUCH DEVICES	
2020/05284	SOLVENT-SPUN CELLULOSIC FIBRE	2020/08/25
2020/05286	CRYSTALLINE FORMS OF THE CXCR7 RECEPTOR ANTAGONIST (3S,4S)-1-CYCLOPROPYLMETHYL-4-{{[5-(2,4-DIFLUORO-PHENYL)-ISOXAZOLE-3-CARBONYL]-AMINO}-PIPERIDINE-3-CARBOXYLIC ACID (1-PYRIMIDIN-2-YL-CYCLOPROPYL)-AMIDE	2020/08/25
2020/05360	MOUNTING AND DISMOUNTING SYSTEM FOR A BATTERY ASSEMBLY	2020/08/27
2020/06006	ARGINASE INHIBITORS	2020/09/29
2020/06892	METHOD, APPARATUS, AND SYSTEM FOR SECURING RADIO CONNECTIONS	2020/11/04
2020/07599	METHODS FOR TREATING CANCER WITH BISPECIFIC ANTI-CD3XMUC16 ANTIBODIES AND ANTI-PD-1 ANTIBODIES	2020/12/07
2021/05394	ANTIBODIES AGAINST IL-7R ALPHA SUBUNIT AND USES THEREOF	2021/07/29
2021/05850	PROCESS FOR POLYSORBATE QUANTIFICATION IN A SAMPLE INVOLVING LC-MS WITH AN INTERNAL STANDARD	2021/08/13
2021/05977	HYBRID RENEWABLE POWER GENERATION CONTROL	2021/08/19
2021/06105	CIRCUIT BREAKER	2021/08/24
2021/06680	METHOD AND DEVICE FOR MANUFACTURING A PIPE SHELL FROM AN INSULATING MATERIAL	2021/09/09
2021/07564	CHANNEL SOUNDING FOR DISTRIBUTED TRANSMISSION	2021/10/07
2021/07623	ADAPTATION OF AN INTERNAL COMBUSTION LOCOMOTIVE	2021/10/11
2021/07917	 METHODS OF TREATING BORDERLINE PERSONALITY DISORDER	2021/10/18
2021/08034	CRYSTALLINE SALT FORMS OF A KINASE INHIBITOR	2021/10/20
2021/08085	NOVEL LIGAND ASSAYS	2021/10/21
2021/08307	ANTIFUNGAL COMPOSITIONS	2021/10/27
2021/10676	SUBSTITUTED THIOPHENE CARBOXAMIDES AND DERIVATIVES THEREOF AS MICROBICIDES	2021/12/20
2021/10677	HOLLOW FIBER MEMBRANE	2021/12/20

Application Number	Patent Title	Filing Date
2021/10866	INTRANASAL DANTROLENE ADMINISTRATION FOR TREATMENT OF ALZHEIMER'S DISEASE	2021/12/23
2022/04027	WIRELESS POWER TRANSFER	2022/04/08
2022/04435	NOVEL CEMENTITIOUS COMPOSITION	2022/04/20
2022/04676	INHALER FOR USE WITH A COMPLIANCE MONITOR	2022/04/26
2022/04854	AN ALCOHOLIC BEVERAGE PRODUCT	2022/05/03
2022/06442	PERSONAL CARE COMPOSITIONS AND METHODS FOR THE SAME	2022/06/09
2022/08325	ATTACHING A CEILING FORMWORK TO A FRAME	2022/07/26
2022/08809	METHOD FOR ROASTING COFFEE BEANS	2022/08/05
2022/09049	FENCE	2022/08/12
2022/09061	HYDROCARBON RESIN AND PROCESS FOR PRODUCTION THEREOF	2022/08/12
2022/09250	BATTERY OPERATED GREASE GUN	2022/08/17
2022/09255	METHOD OF FORMING AN ARTICLE	2022/08/17
2022/09563	BIARYL DERIVATIVES AS YAP/TAZ-TEAD PROTEIN-PROTEIN INTERACTION INHIBITORS	2022/08/26
2022/09627	RANDOM ACCESS IN COMMUNICATION SYSTEM	2022/08/29
2022/09691	HERBICIDAL MENTHA PLANT EXTRACT COMPOSITIONS AND METHODS OF USING SAME	2022/08/30
2022/10779	COMPOSITION COMPRISING TRABECTEDIN AND AN AMINO ACID	2022/09/29
2022/10954	CYCLONE SEPARATOR ARRANGEMENT	2022/10/05
2022/11253	COMPOSITIONS COMPRISING 15-HEPE FOR TREATING OR PREVENTING HEMATOLOGIC DISORDERS, AND/OR RELATED DISEASES	2022/10/13
2022/11258	DRIVER'S CAB AND UTILITY VEHICLE	2022/10/13
2022/11319	DEVICE TO DEVICE RELAY CONNECTION ESTABLISHMENT AND CONFIGURATION	2022/10/14
2022/11356	PERSONAL CARE COMPOSITION WITH VISUALLY DISTINCT AQUEOUS AND OIL PHASE	2022/10/17
2022/11407	COMPOSITIONS COMPRISING NICOTINE AND/OR NICOTINE SALTS AND ULTRASONIC AEROSOLISATION OF COMPOSITIONS COMPRISING	2022/10/18

Application Number	Patent Title	Filing Date
	NICOTINE AND/OR NICOTINE SALTS	
2022/11460	NEW DRY POWDER COMPOSITION FOR PERORAL ADMINISTRATION	2022/10/19
2022/11461	NEW DELAYED RELEASE COMPOSITION FOR PERORAL ADMINISTRATION	2022/10/19
2022/11534	SYSTEMIC FORMULATION OF A PYRIDINONE DERIVATE FOR COELIAC DISEASE	2022/10/21
2022/11535	CLEARANCE MONITORING SYSTEM OF WIND TURBINE SET, AND MONITORING METHOD AND DEVICE	2022/10/21
2022/11748	FERMENTATIVE PRODUCTION OF B-KETOADIPATE FROM GASEOUS SUBSTRATES	2022/10/27
2022/11758	AN ALARM DEVICE	2022/10/27
2022/11840	A STRUCTURED CATALYST	2022/10/31
2022/11845	DIAGNOSTIC CONTROL COMPOSITIONS	2022/10/31
2022/12552	REACTOR AND METHOD FOR CARRYING OUT A CHEMICAL REACTION	2022/11/17
2022/12759	NOVEL FORMULATION	2022/11/23
2022/12920	INPUT DEVICE	2022/11/28
2022/13011	ATTENUATED VARIANT OF THE RIFT VALLEY FEVER VIRUS, COMPOSITION COMPRISING SAME, AND USES THEREOF	2022/11/30
2023/00315	METHOD FOR THE TREATMENT OF PLASTIC PYROLYSIS OILS INCLUDING TWO-STAGE HYDROCRACKING	2023/01/06
2023/00488	METHODS AND DEVICES FOR MANAGING MEASUREMENT OF RADIO LINK QUALITY	2023/01/11
2023/00651	A METHOD OF MANUFACTURING A STATOR FOR A SLOTLESS ELECTRIC MOTOR	2023/01/16
2023/01117	METHOD FOR ACCESSING NETWORK, MEDIA GATEWAY, ELECTRONIC DEVICE, AND STORAGE MEDIUM	2023/01/26
2023/03879	ANTIMICROBIAL BIODEGRADABLE COMPOSITIONS FOR FOOD CONTACT ARTICLES	2023/03/27
2023/04237	DNA MODIFYING ENZYMES AND ACTIVE FRAGMENTS AND VARIANTS THEREOF AND METHODS OF USE	2023/04/06
2023/04340	SHISHA, HEAT-NOT-BURN, OR	2023/04/12

Application Number	Patent Title	Filing Date
	COMBUSTION CASING WITH ACTIVE INGREDIENT, PRODUCT AND CASING WITH ACTIVE INGREDIENT, AND METHOD OF MAKING THE SAME	
2023/04343	SHISHA, HEAT-NOT-BURN, OR COMBUSTION CASING, PRODUCT, AND METHOD OF MAKING THE SAME	2023/04/12
2023/04377	SANITIZER DISPENSER SYSTEM AND METHOD	2023/04/13
2023/04577	WATER TREATMENT SYSTEM	2023/04/20
2023/05064	DISTRIBUTED ACOUSTIC SENSOR ARRANGEMENT AND DISTRIBUTED ACOUSTIC SENSOR SYSTEM, INTRUSION DETECTION SYSTEM AND METHOD FOR INTRUSION DETECTION	2023/05/08
2023/05663	A MOTOR CONTROL CONTROLLER SYSTEM AND METHODS	2023/05/23
2023/06057	AGRICULTURAL FORMULATION COMPRISING AT LEAST ONE BACTERIAL STRAIN B. SAFENSIS RGM 2450, AND/OR A BACTERIAL STRAIN B. SIAMENSIS RGM 2529 AND AGRICULTURAL EXCIPIENTS; USE OF THE FORMULATION AND METHOD FOR STIMULATING GROWTH AND/OR INCREASING CROP YIELDS AND/OR PROTECTING CROPS AGAINST DISEASES AND PESTS	2023/06/07
2023/06180	ANTI-N3PGLU AMYLOID BETA ANTIBODIES AND USES THEREOF	2023/06/12
2023/06362	SELECTIVE INHIBITORS OF ROCK1 AND ROCK2 PROTEIN KINASES AND USES THEREOF	2023/06/19
2023/06609	COLLAPSIBLE HOPPER WITH DEFORMABLE EXTENSION	2023/06/27
2023/06754	HALF-LIFE EXTENDING MOIETIES AND METHODS OF USING THE SAME	2023/06/30
2023/06796	A ROCK BOLT ASSEMBLY HAVING AN INDICATOR	2023/07/03
2023/06850	SHANK ADAPTER, ROCK DRILLING MACHINE AND METHOD	2023/07/05
2023/06851	ELLIPTICAL DESIGN FOR SHANK ADAPTERS	2023/07/05
2023/06873	ELLIPTICAL DESIGN FOR HEXAGONAL SHANKS	2023/07/06
2023/07037	SYSTEM AND METHOD FOR DISTRIBUTING LOADS IN A METAL FURNACE	2023/07/12

Application Number	Patent Title	Filing Date
2023/07686	APPARATUS AND METHOD FOR DETECTING FLUORESCENCE	2023/08/03
2023/07970	COMPOUNDS FOR USE IN THE TREATMENT AND PREVENTION OF COVID- 19	2023/08/16
2023/07994	FASTENING ARRANGEMENT FOR SCREENING ASSEMBLY	2023/08/17
2023/07999	CARBOXY SUBSTITUTED GLUCOCORTICOID RECEPTOR AGONISTS	2023/08/17
2023/08053	CELL STACK AND CELL STACK ASSEMBLY	2023/08/18
2023/08431	A WATER AND STEAM SEPARATOR OF A BOILER DRUM	2023/08/31
2023/08712	PSD-95 INHIBITORS AND USES THEREOF	2023/09/12
2023/08906	PROCESS OF RECYCLED POLYPROPYLENE	2023/09/20
2023/08952	WEAR PART REMOVAL SYSTEM	2023/09/21
2023/09104	DESIGN METHOD AND APPARATUS FOR CONTAINMENT INTEGRITY TEST OF ADVANCED PRESSURIZED WATER REACTOR NUCLEAR POWER PLANT	2023/09/27
2023/09331	AGRICULTURAL COMPOSITION FOR ENHANCED SILICON UPTAKE AND DISTRIBUTION IN PLANTS	2023/10/05
2023/10237	TRIAZOLO-PYRIMIDINE ANALOGUES FOR TREATING DISEASES CONNECTED TO THE INHIBITION OF WERNER SYNDROME RECQ HELICASE (WRN)	2023/11/02
2023/10278	ORAL AQUEOUS SUSPENSION FORMULATIONS COMPRISING CARBAMATE COMPOUND	2023/11/03
2023/10322	DIFFERENTIAL PRESSURE SLIDING SLEEVE, AND OIL AND GAS WELL FRACTURING CONSTRUCTION METHOD USING SAME	2023/11/06
2023/10579	TEMPORARY POOL COVER AND FLOOR SYSTEM	2023/11/14
2023/10791	DEVICE AND METHOD FOR SEPARATING LIQUID DROPLETS FROM A GAS STREAM BY MEANS OF A CENTRIFUGAL MIST ELIMINATOR	2023/11/22
2023/10821	METHOD FOR DEPOLYMERISING A POLYESTER FILLER COMPRISING A PRE-MIXING STAGE OF THE FILLER	2023/11/23
2023/11237	PHARMACEUTICAL COMPOSITION COMPRISING 1-(3-CYANO-1-	2023/12/06

Application Number	Patent Title	Filing Date
	ISOPROPYL-INDOL-5-YL)PYRAZOLE-4-CARBOXYLIC ACID	
2023/11268	A DEEP LEARNING PROCESSING METHOD OF GROUND PENETRATING RADAR SIGNAL FOR SUPPRESSING STRONG CLUTTER REFLECTED FROM SLEEPERS	2023/12/07
2023/11271	A METHOD FOR SOLVING ELECTROMAGNETIC RESPONSE OF GEO-ELECTRIC MODEL BY USING PHYSICS INFORMED NEURAL NETWORK	2023/12/07
2024/00358	HIGH-STRENGTH, DURABLY-FLAME RETARDANT, AND SEAWATER CORROSION-RESISTANT PLASTIC-WOOD COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF	2024/01/10
2024/00377	RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING	2024/01/10
2024/00390	SYSTEM FOR SANITIZING USER SPACE OF A VEHICLE AND METHODS THEREOF	2024/01/11
2024/00394	CLAY CALCINING PLANT	2024/01/11
2024/00411	AIRPORT SIGNALLING SYSTEM WITH ULTRA-WIDEBAND COMMUNICATION CAPABILITY	2024/01/11
2024/00506	RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING	2024/01/15
2024/00743	PHYTOSANITARY COMBINATIONS COMPRISING CARVACROL, COMPOSITIONS AND THEIR USE	2024/01/22
2024/00907	METHOD FOR PRODUCING AN ALUMINUM STRIP AND CASTING-ROLLING SYSTEM FOR PRODUCING AN ALUMINUM STRIP	2024/01/26
2024/01138	METHOD FOR REMOTELY SOLVING THERMAL RUNAWAY AND RELATED PRODUCTS	2024/02/05
2024/01170	HOT ROLLED AND STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF	2024/02/06
2024/01229	A MINING METHOD FOR DRILLING AND BLASTING OF A TRAVELLING WAY OF A MINE	2024/02/07
2024/01236	SHAFT EXCAVATOR	2024/02/08
2024/01257	METALLURGICAL MELTING FURNACE, AND METHOD FOR DETERMINING THE AMOUNT OF HETEROMOLECULAR GAS	2024/02/09
2024/02687	STABLE CONNECTION SYSTEM FOR FIXING WORN PART OF	2024/04/08

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	EXCAVATION EQUIPMENT AND ASSEMBLY METHOD THEREOF	
2024/02972	PILE POSITIONING DEVICE FOR CEMENT MIXING PILE MACHINE	2024/04/17
2024/03007	METHOD AND SYSTEM FOR CONCENTRATING FLUOROSILICIC ACID SOLUTION	2024/04/18
2024/03008	METHOD AND SYSTEM FOR PRODUCING HYDROGEN FLUORIDE	2024/04/18
2024/03066	APPARATUS AND METHOD FOR MICROALGAE-MICROORGANISM SYNERGISTIC TREATMENT OF AQUACULTURE EFFLUENT	2024/04/19
2024/03260	METHOD FOR ACTIVATING CLAYS WITH HIGH RESIDUAL MOISTURE	2024/04/26
2024/03266	A RECOMBINANT CONSTRUCT FOR SCREENING DRUGS AGAINST SARS-COV-2 SPIKE PROTEIN	2024/04/26
2024/03267	METHOD OF CHECKING ROLLERS AND THE MOTION TRANSMISSION ELEMENTS	2024/04/26
2024/03270	EXOSKELETON SYSTEM FOR ORTHOSES AND PROSTHESES OF HAND PHALANGES	2024/04/26
2024/03275	ANTI-LAG3 ANTIBODY, PHARMACEUTICAL COMPOSITION AND USE	2024/04/26
2024/03352	ROLLER SCREEN	2024/04/30
2024/03363	METHOD FOR SEPARATING RHODIUM	2024/04/30
2024/03367	COSMETIC COMPOSITION COMPRISING CRANBERRY EXTRACT AND CRANBERRY SEED OIL	2024/04/30
2024/03432	WATER FITTING	2024/05/03
2024/03438	A VERTICAL LAWN	2024/05/03
2024/03451	GUIDE DEVICE FOR RAIL LAYING OF RAILWAY TRACK	2024/05/06
2024/03472	HERBAL MEDICINE COMPOUND LOTION FOR TREATING PERIANAL ECZEMA	2024/05/07
2024/03473	AN APPARATUS FOR STIMULATING AND MEASURING A RESPONSE OF AN ANIMAL OR HUMAN AND A METHOD OF EVALUATING SAID RESPONSE	2024/05/07
2024/03479	IMPROVED METHODS FOR POLIOVIRUS INACTIVATION, ADJUVANT ADSORPTION AND DOSE REDUCED VACCINE COMPOSITIONS OBTAINED	2024/05/07

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	THEREOF	
2024/03508	METHANOL FROM BIOMASS GASIFICATION	2024/05/07
2024/03528	THE INVENTION RELATES TO AN OAT NUTRIENT BLANKING POWDER WITH LIPID-LOWERING AND DEFECATING EFFECT AND A PREPARATION PROCESS THEREOF	2024/05/08
2024/03539	WOOD IMPREGNATION COMPOSITIONS	2024/05/08
2024/03553	LANDSLIDE IDENTIFICATION METHOD BASED ON PHYSICS-INFORMED MACHINE LEARNING	2024/05/08
2024/03563	IMMUNOCOMB DETECTION STRIP FOR SRV1 ANTIBODY, PREPARATION METHOD AND APPLICATION THEREOF	2024/05/09
2024/03564	IMMUNOCOMB DETECTION STRIP FOR STL1 ANTIBODY, PREPARATION METHOD AND APPLICATION THEREOF	2024/05/09
2024/03578	COMPOSITIONS COMPRISING RED YEAST RICE	2024/05/09
2024/03587	INJECTION FLUIDS COMPRISING PROPOXYLATED ALCOHOLS AND THE USE OF SUCH FLUIDS FOR ACID STIMULATION DURING OIL RECOVERY PROCESSES	2024/05/09
2024/03609	APPARATUS AND METHOD FOR PACKING ARTICLES	2024/05/10
2024/03610	BAGGING APPARATUS AND METHOD	2024/05/10
2024/03633	RETAINER AND BEARING	2024/05/10
2024/03640	NOVEL FORMULATION FOR DRYING OF POLYMER DYE CONJUGATED ANTIBODIES	2024/05/10
2024/03645	MACROLIDE COMPOUND FROM THE SECONDARY METABOLITES OF DEEP-SEA SEDIMENT-DERIVED FUNGUS, PREPARATION METHOD THEREOF AND USE THEREOF	2024/05/13
2024/03654	PREPARATION METHOD AND APPLICATION OF MEDICINE WOUND DRESSING	2024/05/13
2024/03730	BEAM OR POST FOR A CONSTRUCTION SYSTEM	2024/05/14
2024/03731	ASSEMBLING TOOL	2024/05/14
2024/03760	FUEL CELL SYSTEM	2024/05/15
2024/03770	MONITORING DEVICE AND METHOD FOR SPECIALLY-SHAPED STRUCTURE IN UNDERGROUND	2024/05/16

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	SPACE	
2024/03789	HEALTH DATA MANAGEMENT SYSTEM BASED ON ERP	2024/05/16
2024/03797	METHOD FOR OPTIMIZING VIRUS MEMBRANE FUSION INHIBITOR, BROAD-SPECTRUM ANTI-CORONAVIRUS LIPOPEPTIDE AND USE THEREOF	2024/05/16
2024/03801	SYSTEM FOR COLLECTING A GLASS SHEET, METHOD FOR SHAPING A GLASS SHEET BY MEANS OF A COLLECTION SYSTEM OF THIS TYPE	2024/05/16
2024/03802	PESTICIDAL COMPOSITIONS	2024/05/16
2024/03817	BREATH-POWERED NASAL DEVICES FOR TREATMENT OF TRAUMATIC BRAIN INJURY (TBI), INCLUDING CONCUSSION, AND METHODS AND METHODS	2024/05/16
2024/03854	PEPTIDE HAVING AFFINITY FOR HUMAN TRANSFERRIN RECEPTOR	2024/05/17
2024/03856	A METHOD OF CONTROLLING A VALVE ASSEMBLY	2024/05/17
2024/03879	BROAD-SPECTRUM ORGANIC HERBICIDE	2024/05/20
2024/03880	A FOOD PRODUCT AND A METHOD AND APPARATUS FOR MANUFACTURING THE FOOD PRODUCT	2024/05/20
2024/03887	APPARATUS FOR IMPROVED CLEANING USING MICROWAVE ENERGY	2024/05/20
2024/03894	METHOD AND APPARATUS FOR PRODUCING AMMONIA	2024/05/20
2024/03938	PLATED STEEL SHEET	2024/05/21
2024/03990	FLAME RETARDANT AND SYNERGIST COMBINED FOR USE WITH THERMOPLASTICS	2024/05/22
2024/03996	SWING TRAINING DEVICE	2024/05/22
2024/04030	SELF-ADAPTIVE THIN-FILM ELECTROMAGNETIC SHIELDING SCREEN	2024/05/23
2024/04032	MODULAR CONFIGURATION OF LAUNCH VEHICLE SYSTEM	2024/05/23
2024/04036	STABLE AGRICULTURAL COMPOSITIONS	2024/05/23
2024/04059	PHARMACEUTICAL COMPOSITION CONTAINING ATORVASTATIN AND EZETIMIBE	2024/05/24
2024/04082	USES OF NON-SMALL CELL LUNG CANCER TARGET ARID1A AND INHIBITOR THEREOF IN	2024/05/24

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	PREPARATION OF DRUG FOR TREATING LUNG CANCER	
2024/04095	SURFACE SIZING AGENT FOR PAPER AND/OR CARDBOARD	2024/05/27
2024/04096	OBJECT DETECTION IN ADVANCED DRIVING ASSISTANCE SYSTEM USING NOVEL MACHINE LEARNING ALGORITHMS	2024/05/27
2024/04097	MALWARE DETECTION SYSTEM AND METHOD THEREOF	2024/05/27
2024/04098	LIFTING EYES FOR COUNTERWEIGHTS	2024/05/27
2024/04099	COMPOSITE BACTERIAL AGENT FOR INCREASING THE BIOMASS OF CONTAINER SEEDLINGS OF HEPTACODIUM MICONIODES AND ITS APPLICATION	2024/05/27
2024/04109	A HEAD-MOUNTED PROTECTIVE DEVICE FOR INFECTIOUS DISEASE DEPARTMENT	2024/05/27
2024/04116	CONTINUOUS SAMPLING DRILL BIT	2024/05/27
2024/04160	ORAL SOLUTION CONTAINING LISDEXAMFETAMINE AND PROCESS FOR THE PREPARATION THEREOF	2024/05/28
2024/04163	APPARATUS FOR AND METHOD OF FORMING A SHOPPING BASKET BODY WITH INTERCHANGEABLE SIDE PANELS	2024/05/28
2024/04171	THREE-DIMENSIONAL PHOTOVOLTAIC MODULE	2024/05/28
2024/04180	CAN LID AND METHOD FOR PRODUCING A CAN LID	2024/05/28
2024/04181	APPARATUS FOR AMPLIFYING COOLING VIA INTERACTION WITH ELECTROMAGNETIC RADIATION AND ANTI-STOKES FLUORESCENCE	2024/05/28
2024/04205	METHOD, SYSTEM, AND DEVICE FOR PREDICTING IRRADIATION EMBRITTLEMENT DEGREE, AND READABLE STORAGE MEDIUM	2024/05/30
2024/04212	AN INTERCROPPING CULTIVATION METHOD FOR IMPROVING THE FEEDING QUALITY OF FORAGE RAPE AND SILAGE MAIZE	2024/05/30
2024/04253	SYSTEMS AND METHODS FOR GENERATION OF HYDROGEN BY IN-SITU (SUBSURFACE) SERPENTINIZATION AND CARBONIZATION OF MAFIC OR ULTRAMAFIC ROCK	2024/05/30

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2024/04262	PARENTERAL FORMULATION OF A GLUCAGON-LIKE PEPTIDE-1 ANALOGUE AND METHOD FOR PREPARATION THEREOF	2024/05/31
2024/04291	A HAMMERING DEVICE AND A METHOD FOR OPERATING A HAMMERING DEVICE	2024/05/31
2024/04295	ANTI-MUTANT CALRETICULIN (CALR) ANTIBODIES AND USES THEREOF	2024/05/31
2024/04308	HIGH-VOLTAGE WINDING AND METHOD FOR PREPARING HIGH-VOLTAGE WINDING	2024/05/31
2024/04311	A CONTAINED DRUM DISCHARGE SYSTEM AND METHOD FOR TOXIC POWDERY MATERIALS	2024/05/31
2024/04330	ONLINE TRANSACTION PLATFORM FOR PRODUCTS	2024/06/03
2024/04446	FLOW CALMING ASSEMBLY FOR NUCLEAR REACTOR, AND ASSOCIATED REACTOR AND METHOD	2024/06/07
2024/04477	WINDING BODY, HIGH-VOLTAGE WINDING AND DRY-TYPE TRANSFORMER	2024/06/10
2024/04558	PROCESSING METHOD, PROCESSING DEVICE, AND STORAGE MEDIUM	2024/06/12
2024/04559	CONTROL METHOD, COMMUNICATION DEVICE, AND STORAGE MEDIUM	2024/06/12
2024/04576	METHOD FOR MANUFACTURING A CORE CATCHER CANTILEVER TRUSS	2024/06/12
2024/04580	NUCLEAR FUEL CLADDING AND METHOD OF MANUFACTURING SUCH A CLADDING	2024/06/12
2024/04610	TELESCOPING SUPPORT STAND APPARATUS	2024/06/13
2024/04669	15-PGDH INHIBITOR AND USE THEREOF	2024/06/14
2024/04718	HIGH-VOLTAGE WINDING, AND MANUFACTURING METHOD AND APPLICATION THEREOF	2024/06/18
2024/04740	OPTICAL WINDOW COVERED WITH A DOPED DIAMOND ELECTRODE WITH ACTIVE FOULING REMOVAL FUNCTIONALITY	2024/06/18
2024/04761	PRESSURE REDUCER ASSEMBLY	2024/06/19
2024/04836	RING TRAY FOR HONEYCOMB SUBSTRATE FIRING	2024/06/20
2024/04839	TRICYCLIC FUSED HETEROCYCLIC	2024/06/20

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	PDE3/4 DUAL INHIBITOR AND USE THEREOF	
2024/04839	TRICYCLIC FUSED HETEROCYCLIC PDE3/4 DUAL INHIBITOR AND USE THEREOF	2024/06/20
2024/04867	OIL-WATER SEPARATION MEMBRANE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF	2024/06/21
2024/04868	INTELLIGENT, EFFICIENT AND CONVENIENT DEVICE FOR FARMLAND MULCHING FILM	2024/06/21
2024/04874	A SOLID PHARMACEUTICAL COMPOSITION	2024/06/21
2024/04877	SINGLE-ACTION EMERGENCY THERMAL VALVE	2024/06/21
2024/04913	ARMED STRIKE PLATE	2024/06/21
2024/04924	DAMPING SPEED-REGULATING HIGH-PRESSURE SELF-ROTATING NOZZLE	2024/06/24
2024/04925	POWER SUPPLY AND ENERGY GENERATING UNIT	2024/06/24
2024/04926	LIGHTNING PROTECTION DEVICE, LIGHTNING PROTECTION SYSTEM, WIND TURBINE AND METHOD	2024/06/24
2024/04963	CONTROL SYSTEM OF AIRCRAFT MAINTENANCE FOLLOWING ROBOT BASED ON ROS SYSTEM	2024/06/25
2024/05003	ON-LINE MONITORING DEVICE FOR MOLTEN POOL IN LASER MACHINING PROCESS	2024/06/26
2024/05033	AN ANTI-HEELING DETECTION DEVICE FOR OPERATION AND MAINTENANCE SHIPS	2024/06/27
2024/05037	FEED COMPOSITION CONTAINING BAICALIN FOR RELIEVING TOXICITY OF HEAVY METAL VANADIUM IN DUCKS	2024/06/27
2024/05038	FEED CONTAINING GINSENOSE AND APPLICATION THEREOF IN REDUCING ANIMAL TESTICULAR INJURY CAUSED BY GLUFOSINATE-AMMONIUM	2024/06/27
2024/05042	SILICON-RICH ALKALINE FEED ADDITIVE FOR IMPROVING SHEEP INTESTINAL FLORA AND PREPARATION METHOD THEREOF	2024/06/27
2024/05056	VOLTAGE LIMITING DEVICE FOR CONSTANT CURRENT CIRCUITS	2024/06/27
2024/05073	PROCESS CARTRIDGE, PROCESS CARTRIDGE ASSEMBLY, AND IMAGE FORMING DEVICE	2024/06/27

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2024/05082	PROCYANIDIN-CONTAINING FEED FOR IMPROVING INTESTINAL MICROBIAL FLORA OF SHEEP AND PREPARATION METHOD THEREOF	2024/06/28
2024/05083	QUERCETIN-CONTAINING DUCK FEED WITH HEAVY METAL COPPER TOXICITY RESISTANCE AND PREPARATION METHOD THEREOF	2024/06/28
2024/05098	SIGNALING COMMUNICATION DEVICE TRANSMISSION TIMING ERROR GROUP ASSOCIATION FOR UPLINK TIME DIFFERENCE OF ARRIVAL	2024/06/28
2024/05099	WIRELESS RESOURCE SCHEDULING METHOD AND APPARATUS, AND STORAGE MEDIUM	2024/06/28
2024/05131	HOMESTYLE KITCHEN WASTE TREATMENT AND RECYCLING DEVICE BASED ON SUPERHYDROPHOBIC MATERIALS	2024/07/01
2024/05159	CHIMERIC ANTIGEN RECEPTOR T CELLS TARGETING HIV-INFECTED CELLS	2024/07/02
2024/05165	CANNABIDIOL DERIVATIVE, AND PREPARATION METHOD THEREFOR AND USE THEREOF	2024/07/02
2024/05170	CANNABIDIOL DERIVATIVE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2024/07/02
2024/05179	MULTI-FUNCTIONAL E-COMMERCE LOGISTICS PACKAGE	2024/07/03
2024/05192	METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR OPTIMIZING IDENTIFICATION OF COMMUNICATION DEVICE BASED SPAMMING	2024/07/03
2024/05194	NOVEL RECYCLING PROCESS OF POLYETHYLENE	2024/07/03
2024/05210	METHOD FOR SETTING UP GREEN DUST-PROOF AND NOISE-REDUCING CANOPY SYSTEM	2024/07/04
2024/05213	ANTI-TUMOR NANO-MICELLE, PREPARATION METHOD AND APPLICATION THEREOF	2024/07/04
2024/05244	METHOD FOR IDENTIFYING NATURAL REALGAR AND SYNTHETIC REALGAR BY ARSENIC DISSOLUTION VALENCE	2024/07/05
2024/05245	REALGAR CLASSIFICATION METHOD	2024/07/05
2024/05252	TEMPORARY SUPPORT SYSTEM	2024/07/05

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	FOR ROADWAY TUNNELING OPERATIONS	
2024/05256	PROCESS OF MATERIALS RECOVERY FROM ENERGY STORAGE DEVICES	2024/07/05
2024/05257	A PACKAGING FILM	2024/07/05
2024/05300	FAIR SCALE MONITORING METHOD AND SYSTEM BASED ON INTERNET-OF-THINGS CONSENSUS DISCRIMINATION	2024/07/08
2024/05321	A TORSION-RESISTANT ALUMINUM ALLOY WIND ENERGY CABLE AND ITS MANUFACTURING METHOD THEREOF	2024/07/09
2024/05324	FULL-AUTOMATIC HEALTH CARE VEHICLE FOR BRIDGE CEMENT CONCRETE WALL GUARDRAIL	2024/07/09
2024/05333	PROCESS FOR RECOVERY OF COMPONENT MATERIALS FROM COMPOSITE PRODUCTS COMPRISING UNCURED RUBBER AND A REINFORCEMENT MATERIAL	2024/07/09
2024/05356	INTELLIGENT RICE-TREASURE PREPARATION SYSTEM AND PREPARATION PROCESS	2024/07/10
2024/05357	STRAW DECOMPOSITION COMPOUND CONTAINING BACTERIA, ENZYMES, AND NUTRIENTS	2024/07/10
2024/05359	A PREPARATION METHOD AND EQUIPMENT FOR TURBID DRY BEER OF GOLDEN-SILK JUJUBE AND POMEGRANATE	2024/07/10
2024/05360	A DYNAMIC MONITORING DEVICE AND METHOD FOR COAL MINE GROUNDWATER	2024/07/10
2024/05361	A HEATING REACTOR FOR THE PREPARATION OF ORAL MATERIALS	2024/07/10
2024/05390	CONDUCTIVE COMPONENT, IMAGING ASSEMBLY, PROCESSING BOX, PROCESSING BOX GROUP, AND IMAGE FORMING APPARATUS	2024/07/10
2024/05392	AQUACULTURE TAIL WATER TREATMENT DEVICE	2024/07/11
2024/05393	METHOD FOR EXTRACTING, SEPARATING AND PURIFYING PROANTHOCYANIDINS FROM BLACK WOLFBERRY	2024/07/11
2024/05394	APPLICATION OF METFORMIN IN THE PREPARATION OF PROMOTING THE SURVIVAL OF RANDOM FLAP	2024/07/11

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2024/05396	SAMPLING DEVICE WITH LIMIT STRUCTURE FOR SOIL TESTING	2024/07/11
2024/05400	NON-ELECTROMECHANICAL, PUMPLESS LIQUID RECIRCULATION SYSTEM FOR AIR-COOLED CONDENSER AND COOLER ADIABATIC PRE-COOLING SYSTEM	2024/07/11
2024/05405	CONVEYANCE APPARATUS	2024/07/11
2024/05417	INERTIAL NAVIGATION PRECISION EVALUATION SYSTEM AND EVALUATION METHOD FOR COAL MINING MACHINE, AND MOBILE CARRIER	2024/07/11
2024/05418	SYSTEM AND METHOD FOR EVALUATING INERTIAL NAVIGATION ACCURACY OF COAL MINING MACHINE, AND MOBILE CARRIER	2024/07/11
2024/05429	MESH PLATE FORMING DIE	2024/07/12
2024/05431	IMIDAZOLE DERIVATIVE AS A NOVEL CORROSION INHIBITOR FOR Q235 STEEL AND PROCESS THEREOF	2024/07/12
2024/05432	CORROSION PROTECTION OF NEGATIVE ELECTRODE OF LEAD-ACID BATTERY BY NATURAL POLYSACCHARIDE COMPOSITE	2024/07/12
2024/05433	BILOBA EXTRACT AS A GREEN CORROSION INHIBITOR FOR PREVENTING STEEL BAR CORROSION IN CONCRETE PORE SOLUTION	2024/07/12
2024/05435	MULTI-DEVICE INTERFACED SMART COMPUTING SYSTEM	2024/07/12
2024/05444	WEAR SENSOR	2024/07/12
2024/05445	WEAR SENSOR	2024/07/12
2024/05475	A HIGHLY SIZE ADAPTIVE STIRRING MILL	2024/07/15
2024/05476	A HIGH-EFFICIENCY LOW-RESISTANCE COARSE-FINE GRADIENT CLASSIFYING SEPARATOR AND ITS CLASSIFYING AND DESIGN METHOD	2024/07/15
2024/05477	POSITIONING AND DISTANCE MEASURING DEVICE FOR ENVIRONMENTAL ART DESIGN	2024/07/15
2024/05478	COMBINED SUPPORT SYSTEM OF PREFABRICATED SUBWAY STATION UNDER CONDITION OF REPEATED HEAVY LOAD	2024/07/15
2024/05479	METHOD OF CONNECTING	2024/07/15

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	PREFABRICATED SUBWAY STATION COMPONENTS	
2024/05480	A DEVICE FOR ENGINEERING SURVEYING AND MAPPING	2024/07/15
2024/05482	SYSTEM FOR DESIGNING ADVERTISING POLES WITH DUAL RENEWABLE POWER SOURCE AND A METHOD THEREOF	2024/07/15
2024/05483	CHITOSAN ADSORPTION MATERIAL AND PREPARATION METHOD THEREOF	2024/07/15
2024/05485	SOLID ORAL DOSAGE FORMS OF RABEPRAZOLE	2024/07/15
2024/05502	ALUMINUM ALLOY FLUOROCARBON SPRAYING APPARATUS AND PROCESS	2024/07/15
2024/05504	COMPLEX REDUCING THE CONDENSATION OF WATER, ARTICLE COMPRISING SUCH A COMPLEX, AND METHOD FOR PRODUCING SUCH A COMPLEX	2024/07/15
2024/05505	CIRCUIT FOR DIRECT CONTROL OF THE ANODE CURRENT OF AN X-RAY TUBE WITH MONOPOLAR OR BIPOLAR POWER SUPPLY BY MEANS OF THE AUTOMATIC REGULATION OF THE GRID CURRENT	2024/07/15
2024/05510	INTEGRATED AIRBAG VIBRATION ISOLATOR	2024/07/16
2024/05511	STEPLESS VARIABLE FREQUENCY VIBRATION ABSORBER	2024/07/16
2024/05512	ACTIVE VIBRATION DAMPING DEVICE FOR PIPELINE	2024/07/16
2024/05513	MULTI-CHANNEL ACTIVE VIBRATION-REDUCING SYSTEM	2024/07/16
2024/05514	TEST SYSTEM OF SOLID HYDROGEN FUEL CELL BASED ON NETWORK LEARNING	2024/07/16
2024/05515	METHOD FOR SLOPE REINFORCEMENT WITH GEOTEXTILES	2024/07/16
2024/05516	A BLOCKCHAIN-BASED INDUSTRIAL DATA GOVERNANCE SYSTEM	2024/07/16
2024/05517	A BLOCKCHAIN-BASED DATA SECURITY SHARING PLATFORM	2024/07/16
2024/05518	AN INTELLIGENT CONTROL SYSTEM FOR WIDE INTERCROPPING OF WHEAT AND CORN	2024/07/16
2024/05523	A PORTABLE	2024/07/16

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	ELECTROCARDIOGRAPHIC MONITORING DEVICE FOR THE GERIATRIC CARDIOLOGY DEPARTMENT	
2024/05526	A HYBRID PATCH-SLOT ANTENNA WITH CONICAL SEMICIRCULAR POWER DIVIDER AND PIN DIODE	2024/07/16
2024/05529	COUPLING DEVICE FOR COUPLING VIBRATION SYSTEMS	2024/07/16
2024/05543	AN ENGINEERING SURVEYING AND MAPPING DEVICE	2024/07/17
2024/05545	A MOBILE MANIPULATOR FOR MACHINING	2024/07/17
2024/05546	A MOBILE ASSEMBLY MANIPULATOR	2024/07/17
2024/05547	COVERT COMMUNICATION SYSTEM BASED ON FEMTOSECOND LASER	2024/07/17
2024/05548	FORMULATION OF SEEDLING SUBSTRATE FOR MELASTOMA DODECANDRUM CUTTINGS AND PREPARATION METHOD THEREOF	2024/07/17
2024/05549	METHOD FOR EVALUATING PRODUCTION POTENTIAL OF VEGETATION	2024/07/17
2024/05550	A VEHICLE SUPERVISION SYSTEM FOR INDUSTRIAL PARKS BASED ON THE INTERNET OF THINGS	2024/07/17
2024/05551	AN INDUSTRIAL SITE INFORMATION SECURITY MANAGEMENT SYSTEM	2024/07/17
2024/05553	MULTIFUNCTIONAL INFUSION SUPPORT	2024/07/17
2024/05584	FOLDABLE TANK	2024/07/18
2024/05585	TRI-GATE GA2O3 TRANSVERSE MOSFET POWER DEVICE AND PREPARATION METHOD THEREOF	2024/07/18
2024/05586	A RAPID DELIVERY NUCLEAR EMERGENCY RADIATION MONITORING SYSTEM AND A METHOD THEREOF	2024/07/18
2024/05588	SMART CONTROL SYSTEM FOR VORTEX-INDUCED VIBRATION OF WIND TURBINE TOWERS BASED ON INTERMITTENT PLASMA ACTUATORS	2024/07/18
2024/05589	DEVICE OR METHOD FOR PRODUCING A FOOD PRODUCT FROM A PORTION OF FOOD	2024/07/18
2024/05605	METHOD FOR TREATING WASTE WATERS AND RESIDUE SLUDGE BY MEANS OF CARBONATION AND	2024/07/18

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	DECARBONATION IN A CHEMICAL INSTALLATION FOR NITRIDATION IN A MOLTEN SALT BATH	
2024/05606	METHOD FOR TREATING WASTE WATERS AND RESIDUE SLUDGE BY MEANS OF CARBONATION IN A CHEMICAL INSTALLATION FOR NITRIDATION IN A MOLTEN SALT BATH	2024/07/18
2024/05609	ORAL CAVITY CLEANING DEVICE FOR ELDERLY CARE	2024/07/19
2024/05611	A ONE-TO-MANY COMMUNICATION SERVICE SYSTEM AND METHOD BASED ON TCP PROTOCOL	2024/07/19
2024/05612	A DYNAMIC ADJUSTMENT METHOD FOR STORAGE AREA OF PREFABRICATED COMPONENTS	2024/07/19
2024/05615	ARTIFICIAL INTELLIGENCE-BASED SMART TOOTHBRUSH FOR ELDERLY PEOPLE	2024/07/19
2024/05616	ECONOMIC MANAGEMENT INFORMATION DISPLAY DEVICE BASED ON ARTIFICIAL INTELLIGENCE	2024/07/19
2024/05617	DEVICE FOR RECYCLING AND TREATING DEGRADABLE PLASTICS	2024/07/19
2024/05619	MOLECULARLY IMPRINTED PROBE SOLID PHASE MICROEXTRACTION DEVICE	2024/07/19
2024/05620	SAMPLE ANTI-COLLISION PACKING BOX DESIGNED FOR HOUSEHOLD PRODUCTS	2024/07/19
2024/05624	MEDICINE FORMULA FOR TREATING ANEMIA	2024/07/19
2024/05651	APPARATUS FOR ACUPUNCTURE, TUINA, MAGNETIC THERAPY, AND MASSAGE	2024/07/22
2024/05652	HEAT TREATMENT PROCESS FOR METAL WORKPIECE	2024/07/22
2024/05653	DEVICE AND METHOD FOR PREPARING GRAPHENE FILMS	2024/07/22
2024/05660	APPARATUS FOR DISCHARGING CONTENTS OF A CONTAINER	2024/07/22
2024/05661	PREPARED ALCOHOLIC BEVERAGE AND SYRUP FOR PREPARING SAME	2024/07/22
2024/05662	PASSENGER RADIAL TIRE FORMING MACHINE AND CASE THEREOF	2024/07/22
2024/05663	CONTROL METHOD AND CONTROL SYSTEM FOR TIRE FORMING MACHINE, AND READABLE	2024/07/22

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	STORAGE MEDIUM	
2024/05665	FOLLOW-UP CONTROL METHOD AND SYSTEM FOR FORMING MACHINE	2024/07/22
2024/05668	TWO-STAGE FEEDING SYSTEM, TWO-STAGE BUILDING MACHINE, UNI-STAGE BUILDING MACHINE, AND FEEDING METHOD	2024/07/22
2024/05687	GROWTH PROMOTING RHIZOBACTERIA COMPOUND MICROBIAL AGENT AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF	2024/07/23
2024/05689	PART DETECTION DEVICE	2024/07/23
2024/05690	AN ARTIFICIAL INTELLIGENCE IMAGE RECOGNITION SYSTEM BASED ON ADAPTIVE MULTIMODAL FUSION AND REINFORCEMENT LEARNING STRATEGY	2024/07/23
2024/05691	A RECORDING DEVICE BASED ON THE REAL-TIME IMAGING EFFECT OF AR GLASSES	2024/07/23
2024/05692	AN IMPROVED ROOFTOP TENT ASSEMBLY FOR VEHICLES	2024/07/23
2024/05693	ANTI-COLLAPSE DEVICE AND METHOD FOR GROUND DIRECTIONAL DRILLING IN FAULT FRACTURE AREA	2024/07/23
2024/05694	GENERAL MOVEMENTS ASSESSMENT SYSTEM FOR INFANTS BASED ON SENSING MOTION MONITORING	2024/07/23
2024/05696	PERMISSION-BASED CONTROLLING NETWORK ARCHITECTURES AND SYSTEMS, HAVING CELLULAR NETWORK COMPONENTS AND ELEMENTS MODIFIED TO HOST PERMISSION CONTROLLING SCHEMAS DESIGNED TO FACILITATES ELECTRONIC PEER-TO-PEER COMMUNICATION SESSIONS BETWEEN MEMBER COMPUTING DEVICES BASED ON CELLULAR COMMUNICATION SIGNALS IN ACCORDANCE WITH NOVEL CELLULAR COMMUNICATIONS PROTOCOLS, AND METHODS FOR USE THEREOF	2024/07/23
2024/05699	ENGINEERED EXOSOME FOR PROMOTING HEALING OF DIABETIC WOUNDS,AND PREPARATION METHOD AND	2024/07/23

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2024/05700	AUTOPHAGOSOME, AND EXTRACTION METHOD AND APPLICATION THEREOF	2024/07/23
2024/05710	CONSTRUCTION METHOD FOR ULTRAHIGH CLIMBING FRAME	2024/07/24
2024/05713	AN EVALUATION METHOD FOR ECOLOGICAL SENSITIVITY AND FUNCTIONAL AREA SUITABILITY OF VILLAGES AND TOWNS	2024/07/24
2024/05714	STIRRING MACHINE FOR HIGH VISCOSITY LIQUID STIRRING	2024/07/24
2024/05715	DATA PROCESSING DEVICE FOR CROSS-BORDER E-COMMERCE	2024/07/24
2024/05716	EXTENSIBLE PREFABRICATED UNDERGROUND STRUCTURE SYSTEM AND CONSTRUCTION METHOD	2024/07/24
2024/05717	AUTHORIZATION METHOD AND SYSTEM BASED ON PAYMENT METHOD OF ENERGY STORAGE POWER SUPPLY EQUIPMENT	2024/07/24
2024/05723	MOULD FOR ALUMINOTHERMIC WELDING OF RAILS	2024/07/24
2024/05741	3D PRINTING PROCESS PARAMETER OPTIMIZATION METHOD FOR REDUCING THERMAL DEFORMATION OF WORKPIECE	2024/07/25
2024/05742	NEW GREEN ENERGY-SAVING HOUSE	2024/07/25
2024/05743	POWER TRANSMISSION LINE DEFECT IMAGE SELECTIVE-SHOOTING METHOD	2024/07/25
2024/05744	NEGATIVE CARBON REINFORCED RECYCLED AGGREGATE DRAINAGE PILE FOR LARGE PORE CEMENT STABILIZED INDUSTRIAL BUILDING SOLID WASTE AND PREPARATION PROCESS THEREOF	2024/07/25
2024/05745	TEACHING AID FOR MENTAL HEALTH EDUCATION	2024/07/25
2024/05746	SEMI-DOMESTICATION OF THE LONGHORN BEETLE THYSIA WALLICHII AND ITS NUTRITIVE VALUE	2024/07/25
2024/05747	NEW PREPARATION METHOD FOR TERNARY ALLOY TYPE CDSES QUANTUM DOTS	2024/07/25
2024/05754	SLEEVE AND METHOD FOR THERMALLY-INSULATING A BLAST	2024/07/25

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	HOLE	
2024/05755	HYPOXIA-INDUCED EXOSOME OF HUMAN UMBILICAL CORD MESENCHYMAL STEM CELLS, AND PREPARATION METHOD AND APPLICATION THEREOF	2024/07/25
2024/05756	WET CARBON CAPTURE PROCESS COUPLING WATER BALANCE CONTROL WITH UTILIZATION OF INTERNAL HEAT OF SYSTEM	2024/07/25
2024/05773	METHOD FOR RAPIDLY DETECTING PATHOGENS IN AGRICULTURAL WATER	2024/07/26
2024/05774	A DEEP HIGH-TEMPERATURE THERMAL RESERVOIR SIMULATION SYSTEM THAT INTEGRATES 3D PRINTING TECHNOLOGY	2024/07/26
2024/05777	HEAT DISSIPATION AND WEAR-RESISTANT DEVICE FOR CONCRETE VIBRATING ROD	2024/07/26
2024/05778	A FUZZY COMPREHENSIVE PREDICTION AND EVALUATION METHOD FOR KARST GROUND COLLAPSE RISK	2024/07/26
2024/05779	FLOW-CONTROLLED HIGH-ACTIVITY SELENIUM PRODUCTION DEVICE	2024/07/26
2024/05780	AN EARTHQUAKE-RESISTANT BUILDING DESIGN STRUCTURE	2024/07/26
2024/05781	MULTIFUNCTIONAL NEWBORN KANGAROO-STYLE CARRIER	2024/07/26
2024/05785	ALIGNMENT DEVICE FOR AN ELECTRIC CELL STACK, PARTICULARLY A FUEL CELL STACK	2024/07/26
2024/05786	VOLTAGE MONITORING DEVICE FOR AN ELECTRIC STACK, PARTICULARLY FOR A FUEL CELL STACK	2024/07/26
2024/05787	FUEL CELL STACK	2024/07/26
2024/05806	STOOL COLLECTOR	2024/07/29
2024/05807	SOWING METHOD FOR EFFICIENT PLANTING OF BEANS	2024/07/29
2024/05808	APHRODISIAC HEALTH-CARE MEDICINAL WINE	2024/07/29
2024/05809	METHOD FOR RECYCLING METAL MATERIALS FROM SPENT CARBON-SUPPORTED NOBLE METAL CATALYSTS BY USING IONIC LIQUIDS	2024/07/29
2024/05810	SIMPLE AND RAPID PROCESSING DEVICE USED FOR GRADING SOIL	2024/07/29

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2024/05812	MEDICAMENT FOR INHIBITING SPROUTS REGENERATION OF GRAFTED WATERMELON ROOTSTOCK	2024/07/29
2024/05813	DRIVER MONITORING SYSTEM BASED ON DEEP LEARNING	2024/07/29
2024/05814	HIGH-PRECISION AUTOMATIC ADJUSTMENT DETECTION DEVICE FOR SEGMENTAL BEAMS	2024/07/29
2024/05816	3-DIMENSIONAL CYLINDRICAL FERROELECTRIC BASED NEGATIVE CAPACITANCE GATE-ALL-AROUND FET SILICON-NANOWIRE DEVICE FOR LOW POWER APPLICATIONS	2024/07/29
2024/05817	HANDHELD CABLE CUTTING METHOD AND DEVICE THEREOF	2024/07/29
2024/05818	DEVICE FOR DETECTION OF RESERVOIR SEDIMENT ACCUMULATION	2024/07/29
2024/05819	METHOD FOR VERIFICATION OF ACCURACY OF SENSOR SIGNAL SOURCE AND TEMPERATURE MEASUREMENT DEVICE THEREOF	2024/07/29
2024/05820	CULTURE OF ESTEYA VERMICOLA AND ITS PREPARATION METHOD AND APPLICATION	2024/07/29
2024/05833	SURGE PROTECTOR	2024/07/29
2024/05858	AN INTELLIGENT INTEGRATED SUPERVISION PLATFORM FOR MINE SAFETY PRODUCTION	2024/07/30
2024/05859	BATCH PRODUCTION APPARATUS FOR PEARL POWDER CELADON	2024/07/30
2024/05861	A COMPREHENSIVE SOIL REMEDIATION SYSTEM AND METHOD FOR MITIGATING HEAVY METAL POLLUTION IN CONTAMINATED ENVIRONMENTS	2024/07/30
2024/05862	HIGH-TOUGHNESS ZIRCONIA CERAMIC SCORING KNIFE AND PREPARATION METHOD THEREOF	2024/07/30
2024/05863	PURE TRADITIONAL CHINESE MEDICINE FORMULA FOR ROTTING SKIN AND ROTTEN BODY OF AQUATIC ANIMALS AND PREPARATION METHOD THEREOF	2024/07/30
2024/05864	ADJUSTABLE DERIVATION DEVICE FOR SECOND-ORDER	2024/07/30

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2024/05865	PURE CHINESE MEDICINE FORMULA FOR VIRAL INFECTIONS OF AQUATIC ANIMALS AND PREPARATION METHOD THEREFOR	2024/07/30
2024/05871	INTELLIGENT DOOR LOCK CONTROL METHOD AND SYSTEM	2024/07/30
2024/05894	A MACHINE VISION-BASED GUAVA GRADING SYSTEM AND CLASSIFICATION METHOD	2024/07/31
2024/05896	METHOD FOR CULTIVATING GASTRODIA ELATA USING PRUNED BRANCHES OF CAMELLIA SINENSIS OR MORUS ALBA	2024/07/31
2024/05897	METHOD FOR CONTINUOUSLY PREPARING HIGH-PURITY COPPER SULFATE CRYSTAL BY ION-EXCHANGE MEMBRANE ELECTROLYSIS	2024/07/31
2024/05898	COMBINED PROCESS OF BENEFICIATION AND METALLURGY FOR EFFICIENT UTILIZATION OF COPPER-BASED POLYMETALLIC ORES	2024/07/31
2024/05899	CATHODE STRIPPING EQUIPMENT FOR STRIPPING COPPER LAYER	2024/07/31
2024/05900	PURIFICATION METHOD OF CRUDE COBALT HYDROXIDE	2024/07/31
2024/05901	LEACHING METHOD AND SYSTEM FOR HETEROGENITE	2024/07/31
2024/05915	APPARATUS FOR PRODUCING ELECTRICITY FROM A MOVING FLUID AND METHOD	2024/07/31
2024/05942	METHOD FOR TESTING PEARL LUSTER	2024/08/01
2024/05943	A PREFABRICATED COAL MINE SEALING WALL	2024/08/01
2024/05945	DRIVING SYSTEM, DRIVING POSITION DETECTION DEVICE AND DETECTION METHOD THEREOF	2024/08/01
2024/05946	GYM-BASED ELECTRICAL GENERATION SYSTEM WITH ADAPTIVE RESISTANCE AND ENERGY OPTIMIZATION FEATURES	2024/08/01
2024/05947	ENTERPRISE TALENT INTELLIGENT RECOMMENDATION MACHINE LEARNING CLASSIFICATION MODEL AND METHOD	2024/08/01
2024/05948	A COAL MINE GROUNDWATER SAMPLING DEVICE AND THE METHOD THEREOF	2024/08/01

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2024/05950	A SYSTEM FOR SAFE DESIGN OF A LONG SPAN CABLE STAYED CANTILEVER BRIDGE AND A METHOD FOR CONSTRUCTING THE SAME	2024/08/01
2024/05951	A DEEP LEARNING MODELLING SYSTEM FOR LONG RANGE MONSOON FORECAST AND METHOD THEREOF	2024/08/01
2024/05962	WATER-LEVEL INDICATOR ARRANGEMENT	2024/08/02
2024/05963	DOCUMENT VALIDATION METHOD	2024/08/02
2024/05964	CATIONIC COVALENT ORGANIC FRAMEWORK MATERIAL FOR RAPIDLY ADSORBING INDOMETACIN, AND PREPARATION METHOD AND APPLICATION THEREOF	2024/08/02
2024/05965	METHOD FOR EFFECTIVELY IDENTIFYING WATER-PRESERVED COAL MINING AREA IN WEATHERED BEDROCK AQUIFER	2024/08/02
2024/05966	AUXILIARY TEST MODEL FRAMEWORK FOR RADAR DETECTION	2024/08/02
2024/05967	ERICERUS PELA CELL CULTURE METHOD	2024/08/02
2024/05968	FLOTATION METHOD OF COPPER-COBALT MIXED ORE WITH HIGH RECOVERY RATE	2024/08/02
2024/05969	METHOD FOR DETERMINING MAGNETIC FIELD PARAMETER THRESHOLD OF NEGATIVE-PRESSURE ARC WELDING	2024/08/02
2024/05970	METHOD FOR AUTOMATIC CONTROL OF UAV IMAGE ACQUISITION	2024/08/02
2024/05974	APPLICATION OF CHITIN-FUNCTIONALIZED MESOPOROUS CARBON IN EXTRACTING FLAVONOID COMPOUNDS FROM FLOWERS OF CHINESE ROSE	2024/08/02
2024/05977	EXPERIMENTAL PLATFORM FOR PHYSICAL EXPERIMENTS	2024/08/02
2024/05979	COMPOSITION, SYSTEM AND METHOD FOR SYNTHESIZING AND ANALYSING METAGENOMIC PROFILE OF KATSING	2024/08/02
2024/05981	HIGH-STRENGTH HOT DIP-COATED STEEL STRIP WITH PLASTICITY BROUGHT ABOUT BY MICROSTRUCTURAL TRANSFORMATION AND METHOD	2024/08/02

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2024/05982	A DUAL INTERFACE SMART CARD WITH METAL FACE LAYER AND MANUFACTURING METHOD THEREOF	2024/08/02
2024/06005	STRENGTH TRAINING DEVICE FOR MARTIAL ARTS	2024/08/05
2024/06006	METHOD FOR INFORMATION FUSION AND VISUAL ENHANCEMENT NETWORKS AND COMPUTER DEVICES THEREOF	2024/08/05
2024/06007	PROTECTIVE DEVICE FOR BUILDING BLASTING AND PROTECTIVE METHOD THEREFOR	2024/08/05
2024/06008	METHOD FOR EVALUATING TOXICITY OF EMERGING CONTAMINANTS IN SOIL ON NEMATODES	2024/08/05
2024/06011	WELDING METHOD FOR Ti2AlNb-BASED ALLOY	2024/08/05
2024/06014	CONDOM PACKAGE	2024/08/05
2024/06015	CONDOM HOLDER	2024/08/05
2024/06034	METHOD FOR EXTRACTING SECONDARY POLYSACCHARIDES FROM AJUGA CILIATA	2024/08/06
2024/06035	METHOD FOR EXTRACTING ANTIBACTERIAL ACTIVE COMPONENTS FROM AJUGA CILIATA BUNGE	2024/08/06
2024/06036	ORGANIC-INORGANIC HIGH-NITROGEN WATER-SOLUBLE FERTILIZER AND PREPARATION METHOD THEREOF	2024/08/06
2024/06037	FLAVOR FREEZE-DRIED COFFEE AND PREPARATION METHOD THEREOF	2024/08/06
2024/06061	STAGE TREATMENT AND RECOVERY METHOD OF WASTE TERNARY LITHIUM BATTERY BLACK POWDER	2024/08/07
2024/06062	FLAVOR COFFEE AND PREPARATION METHOD THEREOF	2024/08/07
2024/06064	DIRECTIONAL DRILLING INTO FAULT FRACTURE ZONE PARTITION GUNITING ANTI-COLLAPSE HOLE SYSTEM AND USE METHOD THEREOF	2024/08/07
2024/06065	A SYSTEM BASED ON DATA HIDING TECHNIQUE FOR EFFICIENT QUALITY ACCESS CONTROL OF IMAGES AND A METHOD THEREOF	2024/08/07
2024/06066	BLAST-HOLE CLOSURE ASSEMBLY	2024/08/07

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2024/06092	RECHARGEABLE HYBRID BATTERY	2024/08/08
2024/06095	DAMPING EVALUATION METHOD FOR PAPER HONEYCOMB STRUCTURES	2024/08/08
2024/06098	PROTECTIVE DEVICE FOR PREVENTING VOMIT POLLUTION DURING GASTROSCOPY	2024/08/08
2024/06099	SUPPORT PROP	2024/08/08
2024/06100	MEDICAMENT FOR CORRECTING FRUIT GRANULATION AND INTERNAL CRACK OF HONEY POMELOS AND PREPARATION METHOD THEREFOR	2024/08/08
2024/06101	SYNTHETIC REACTION DEVICE FOR PRECISE FEEDING OF CHEMICAL DRUGS	2024/08/08
2024/06102	A MODEL FOR DETECTING APPLE LEAF DISEASE USING DEEP LEARNING ALGORITHMS	2024/08/08
2024/06139	AN AUTOMATIC SORTING DEVICE FOR RECYCLING OF USED LITHIUM BATTERIES	2024/08/12
2024/06141	HIGH PRESSURE JET BOOSTER VERTICAL AXIS WIND POWER GENERATION DEVICE AND METHODS OF HIGH PRESSURE CONTROL	2024/08/12
2024/06143	INTELLIGENT MONITORING INCUBATOR FOR NEWBORNS AND INTELLIGENT MONITORING METHOD	2024/08/12
2024/06147	TETRAVALENT PLATINUM OVARIAN CANCER CELL DEATH INDUCER AND PREPARATION METHOD AND APPLICATION THEREOF	2024/08/12
2024/06152	MAKING PROCESS OF SHOE MIDSOLE	2024/08/12
2024/06153	SANDING DEVICE AND SANDING METHOD FOR CASTINGS	2024/08/12
2024/06154	APPLICATION OF CHLOROGENIC ACID IN PREPARING MEDICINES FOR TREATING OLIGOASTHENOZOOSPERMIA OR IMPROVING REPRODUCTIVE SYSTEM DAMAGE	2024/08/12
2024/06155	APPLICATION OF COUMESTROL IN PREPARING MEDICINES FOR TREATING OLIGOASTHENOZOOSPERMIA OR IMPROVING REPRODUCTIVE SYSTEM DAMAGE	2024/08/12

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2024/06182	GARDEN WATER-SAVING IRRIGATION DEVICE	2024/08/13
2024/06189	GENE VVAGL62 FOR REGULATING AND CONTROLLING DEVELOPMENT OF GRAPE FRUITS, AND APPLICATION THEREOF	2024/08/13
2024/06190	RAPID DETECTION DEVICE FOR PESTICIDE RESIDUES IN AGRICULTURAL PRODUCTS	2024/08/13
2024/06191	DEVICE FOR PREPARATION OF ANESTHETIC MIXED DRUGS FOR NERVE BLOCK	2024/08/13
2024/06193	A NETWORK SECURITY MONITORING DEVICE	2024/08/13
2024/06195	AI-BASED EXAMINATION ROOM MONITORING SYSTEM	2024/08/13
2024/08715	QUALITY FACTOR MEASUREMENT DEVICE AND METHOD FOR A CORIOLIS FLOWMETER	2024/11/15
2024/09118	AUTOMATIC ASSEMBLY LINE WITH EXTERNAL HOT PRESSING	2024/11/28
2024/09209	TEMPERATURE AND HUMIDITY SENSOR FOR WIND TURBINE GENERATOR SYSTEM, AND TESTING SYSTEM	2024/12/02
2024/09299	ILLUMINATION APPARATUS AND METHOD FOR MOBILE ANIMAL AND PLANT BREEDING DEVICE	2024/12/04
2024/09448	PREPARATION METHOD FOR L-6-HYDROXYTRYPTOPHAN DERIVATIVE AND INTERMEDIATE	2024/12/09
2024/09449	METHOD FOR PREPARING CYCLIC PEPTIDE TOXIN ALPHA-AMANITIN AND/OR AMANINAMIDE, AND INTERMEDIATE AND USE THEREOF	2024/12/09
2024/09472	SUPPORTING FRAME CONVENIENT FOR DISASSEMBLY	2024/12/09
2024/09535	SEALING PERFORMANCE TESTING DEVICE	2024/12/11
2024/09537	AUTOMATIC SAMPLING DEVICE FOR CONVEYING LINE	2024/12/11
2024/09811	METHOD AND SYSTEM FOR OUT-OF-ORDER PLACEMENT OF ARCHIVE BOX, AND SMART TERMINAL AND STORAGE MEDIUM	2024/12/18
2024/09812	UNMANNED ARCHIVAL WAREHOUSE ROBOT MANAGEMENT METHOD AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM	2024/12/18
2025/00594	METHOD OF LEACHING RARE EARTH ELEMENTS USING	2025/01/17

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	MICROBACTERIUM TESTACEUM XS6-1	
2025/00595	METHOD FOR MICROBIAL LEACHING OF MOLYBDENUM ORE	2025/01/17
2025/00675	COATING ROBOT FOR SURFACE TREATMENT OF WELDING PIECES	2025/01/21

DESIGNS

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A2023/00908	Car	2023/08/17
A2023/00909	Toy Car	2023/08/17
A2023/01255	TYRE TREADS	2023/11/23
A2023/01265	TYRE TREADS	2023/11/23
A2023/01266	TYRE TREADS	2023/11/23
A2023/01268	TYRE TREADS	2023/11/23
A2023/01269	TYRE TREADS	2023/11/23
A2023/01270	TYRE TREADS	2023/11/23
A2023/01271	TYRE TREADS	2023/11/23
A2023/01316	Head-Mounted Display	2023/12/04
A2023/01335	Strap	2023/12/05
A2023/01337	MOTOR VEHICLES	2023/12/05
A2023/01338	MOTOR VEHICLES	2023/12/05
A2023/01339	MOTOR VEHICLES	2023/12/05
A2024/00140	FOOTWEAR	2024/02/02
A2024/00141	ADAPTORS FOR DOWNHOLE TOOL COMMUNICATION DEVICES	2024/02/02
A2024/00144	FOOTWEAR	2024/02/02
A2024/00146	FOOTWEAR	2024/02/02
A2024/00147	FOOTWEAR	2024/02/02
A2024/00148	FOOTWEAR	2024/02/02
A2024/00149	FOOTWEAR	2024/02/02
A2024/00152	DOWNHOLE TOOL COMMUNICATION DEVICES	2024/02/02
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A2024/00158	PISTON PUMPS	2024/02/06
A2024/00160	PISTON PUMPS	2024/02/06
A2024/00161	PISTON PUMPS	2024/02/06
A2024/00162	PISTON PUMPS	2024/02/06
A2024/00163	PISTON PUMPS	2024/02/06
A2024/00164	PISTON PUMPS	2024/02/06
A2024/00165	PISTON PUMPS	2024/02/06
A2024/00167	PISTON PUMPS	2024/02/06

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A2024/00173	CONTAINERS	2024/02/09
A2024/00453	Symbiotic Design	2024/05/10
A2024/00475	COFFEE MACHINES	2024/05/21
A2024/00476	SNEAKERS	2024/05/21
A2024/00488	Set of Construction Elements	2024/05/24
A2024/00489	Open Tape Diaper	2024/05/24
A2024/00492	BOXES	2024/05/24
A2024/00496	Container	2024/05/27
A2024/00498	Bottle	2024/05/28
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A2024/00500	Bottle	2024/05/28
A2024/00501	Bottle	2024/05/28
A2024/00506	SHELF SLAT	2024/05/30
A2024/00515	PIZZA PAN	2024/06/04
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A2024/00518	PAN	2024/06/04
A2024/00547	SHOOTING STICK	2024/06/13
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A2024/00578	PACKAGING BAG	2024/06/14
A2024/00589	CONTAINER	2024/06/19
A2024/00591	CONTAINER	2024/06/19
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A2024/00597	MATTRESS WIRE COIL	2024/06/20
A2024/00601	MATTRESS WIRE COIL	2024/06/20
A2024/01232	HEADLIGHT FOR VEHICLE	2024/11/29
A2024/01233	HEADLIGHT FOR VEHICLE	2024/11/29
A2024/01234	INSTRUMENT PANEL FOR VEHICLE	2024/11/29
A2024/01235	TAILLIGHT FOR VEHICLE	2024/11/29
A2024/01236	VEHICLE	2024/11/29
F2024/00443	IBR ROOF RAIL FOR MOUNTING SOLAR PANELS	2024/05/09
F2024/00444	IBR ROOF EXTENDED RAIL FOR MOUNTING SOLAR PANELS	2024/05/09
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F2024/00446	ANTI-THEFT SOLAR PANEL BRACKET	2024/05/09
F2024/00477	Prefabricated building parts	2024/05/21
F2024/00486	Cladding Anchor Assembly	2024/05/23
F2024/00487	A DRILL BIT FOR CONSTRUCTION AND MINING MACHINES	2024/05/24
F2024/00507	SHELF SLAT	2024/05/30
F2024/00548	SHOOTING STICK	2024/06/13
F2024/00550	SHOOTING STICK	2024/06/13
F2024/00590	CONTAINER	2024/06/19
F2024/00592	CONTAINER	2024/06/19
F2024/00594	A BOTTLE	2024/06/20
F2024/00600	MATTRESS WIRE COIL	2024/06/20
F2024/00608	MATTRESS WIRE COIL	2024/06/20
F2024/00675	PLUGS FOR FASTENERS	2024/07/11

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F2024/00725	CONTAINER HANDLING MECHANISM	2024/07/22